



**Model: CL1411R COLOUR TELEVISION**

**Subject:** TUNING SELECTION  
**Fault:** CHANGE OF MICRO PROCESSOR.  
**Symptom:** CHANGE OF MICRO PROCESSOR  
**Cause:** ADDITION OF FRENCH LANGUAGE OSD  
**Cure:** NEW MICRO PROCESSOR VERSION  
DW167MN05 IS INTERCHANGABLE WITH  
ORIGINAL DW167MN04.  
TYPE DW167MN05: PART No DE1DW167MN05



**Model: CL1411R COLOUR TELEVISION**

**Subject:** TUNING SELECTION  
**Fault:** TUNING DRIFT  
SECTION: TUN  
CONDITION: 3  
**Symptom:** 251 TUNING DRIFT  
**DEFECT:** A FAULTY CAPACITOR  
**REPAIR:** A REPLACE CV01 0.22uF  
35V PT# DECTXD1V228K



**Model: CL1411R COLOUR TELEVISION**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** CHANGE OF I701 (TDA8362)  
**Symptom:** CHANGE OF I701, TDA8362  
**Cause:** MASK CHANGE  
**Cure:** WHEN REPLACING I701 FROM TYPE  
TDA8362-3Y TO TDA8362-5Y VERSION,  
CHANGE THE VALUE OF R501 FROM 47K TO  
8K2



**Model: CL1415RE 14" (not UK)**

**Subject:** POWER SUPPLY  
**Fault:** PULSING FROM COLD  
**Symptom:** WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.  
**Cause:** UNSTABLE 5V(D) RAIL  
**Cure:** THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.  
..... (CONT)  
YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:  
BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF  
10V CAPACITOR.  
THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.  
FIT THEM AS FOLLOWS:  
..... CONT. .

1. REMOVE THE FOLLOWING : R097, R957, ZD001, C005.
2. FIT A 1K0 RESISTOR IN PLACE OF R957
3. FIT A BC548C WITH THE EMITTER AND BASE USING THE HOLES VACATED BY R097 - THE BASE SHOULD LOCATE IN THE HOLE AT THE JUNCTION WITH R957.  
..... CONT...
4. CONNECT THE 220V 10V CAPACITOR AND THE 5V6 ZENNER IN PARALLEL WITH THE POSITIVE SIDE OF EACH COMPONENT TO THE JUNCTION OF R957 AND THE BASE OF THE NEW BC548C THAT YOU HAVE PREVIOUSLY FITTED, AND THE NEGATIVE TO A SUITABLE GROUND SUCH AS THE -VE CONNECTION OF C035.

Model: CL1415RE 14" (not UK)

Subject: Y/C SIGNAL PROCESSING

Fault: CHANGE OF IC201 MASK

SECTION: CPA/IFC

CONDITION: 1

Symptom: 185 CHANGE OF IC201 MASK

DEFECT: A PART DISCONTINUED

REPAIR: A REPLACE IC201 WITH TDA8362-

N5. CHANGE R523 FROM 47K TO 8K2

IC201 PART # T900624

Model: CL1415TE 14" (not UK)

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

Symptom: WHEN SET IS SWITCHED ON FROM COLD IT PULSES. AFTER SOME WHILE THE SET WILL COME ON.

Cause: UNSTABLE 5V(D) RAIL

Cure: THE FOLLOWING CHANGES SHOULD BE MADE TO THE POWER SUPPLY TO OVERCOME THIS CONDITION.

..... (CONT)

YOU WILL REQUIRE THE FOLLOWING PARTS FOR THIS CHANGE:

BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF 10V CAPACITOR.

THESE PARTS ARE AVAILABLE IN TWO PACKS PART NUMBERS A525646 AND A525647.

FIT THEM AS FOLLOWS:

..... CONT..

Model: CL1415TE 14" (not UK)

Subject: POWER SUPPLY

**Fault:** PULSING FROM COLD

1. REMOVE THE FOLLOWING : R097, R957, ZD001, C005.
2. FIT A 1K0 RESISTOR IN PLACE OF R957
3. FIT A BC548C WITH THE EMITTER AND BASE USING THE HOLES VACATED BY R097 - THE BASE SHOULD LOCATE IN THE HOLE AT THE JUNCTION WITH R957.  
..... CONT....
4. CONNECT THE 220V 10V CAPACITOR AND THE 5V6 ZENNER IN PARALLEL WITH THE POSITIVE SIDE OF EACH COMPONENT TO THE JUNCTION OF R957 AND THE BASE OF THE NEW BC548C THAT YOU HAVE PREVIOUSLY FITTED, AND THE NEGATIVE TO A SUITABLE GROUND SUCH AS THE -VE CONNECTION OF C035.



**Model:** CL1415TE      14" (not UK)

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** NOT DECODING NTSC4.43 VIA SCART  
**Symptom:** POOR OR NO COLOUR ON NTSC 4.43 VIA SCART SOCKET.  
**Cause:** NOT IMPLEMENTED IN PRODUCTION  
**Cure:** CARRY OUT THE FOLLOWING:  
1) CUT THE TRACK AT PIN 16 OF IC502  
2) ADD 100nF CAP FROM Q455 EMITTER TO PIN 16 OF IC502  
3) DELETE Q011, R059, R119



**Model:** CL1714RE      17" (not UK)

**Subject:** POWER SUPPLY  
**Fault:** PULSING FROM COLD  
**Symptom:** WHEN SET IS SWITCHED ON FROM COLD IT PULSES. AFTER SOME WHILE THE SET WILL COME ON.  
**Cause:** UNSTABLE 5V(D) RAIL  
**Cure:** THE FOLLOWING CHANGES SHOULD BE MADE TO THE POWER SUPPLY TO OVERCOME THIS CONDITION.  
..... (CONT)



**Model:** CL1714RE      17" (not UK)

**Subject:** POWER SUPPLY  
**Fault:** PULSING FROM COLD  
YOU WILL REQUIRE THE FOLLOWING PARTS FOR THIS CHANGE:  
BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF 10V CAPACITOR.  
THESE PARTS ARE AVAILABLE IN TWO PACKS

PART NUMBERS A525646 AND A525647.  
FIT THEM AS FOLLOWS:

..... CONT..

1. REMOVE THE FOLLOWING : R097, R957, ZD001, C005.
2. FIT A 1K0 RESISTOR IN PLACE OF R957
3. FIT A BC548C WITH THE EMITTER AND BASE USING THE HOLES VACATED BY R097 - THE BASE SHOULD LOCATE IN THE HOLE AT THE JUNCTION WITH R957.

..... CONT...

4. CONNECT THE 220V 10V CAPACITOR AND THE 5V6 ZENNER IN PARALLEL WITH THE POSITIVE SIDE OF EACH COMPONENT TO THE JUNCTION OF R957 AND THE BASE OF THE NEW BC548C THAT YOU HAVE PREVIOUSLY FITTED, AND THE NEGATIVE TO A SUITABLE GROUND SUCH AS THE -VE CONNECTION OF C035.

Model: CL1714TE 17" (not UK)

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

Symptom: WHEN SET IS SWITCHED ON FROM COLD IT PULSES. AFTER SOME WHILE THE SET WILL COME ON.

Cause: UNSTABLE 5V(D) RAIL

Cure: THE FOLLOWING CHANGES SHOULD BE MADE TO THE POWER SUPPLY TO OVERCOME THIS CONDITION.

..... (CONT)

Model: CL1714TE 17" (not UK)

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

YOU WILL REQUIRE THE FOLLOWING PARTS FOR THIS CHANGE:

BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF 10V CAPACITOR.

THESE PARTS ARE AVAILABLE IN TWO PACKS PART NUMBERS A525646 AND A525647.

FIT THEM AS FOLLOWS:

..... CONT..

1. REMOVE THE FOLLOWING : R097, R957, ZD001, C005.
2. FIT A 1K0 RESISTOR IN PLACE OF R957
3. FIT A BC548C WITH THE EMITTER AND BASE USING THE HOLES VACATED BY R097 - THE BASE SHOULD LOCATE IN THE HOLE AT THE JUNCTION WITH R957.

..... CONT...

4. CONNECT THE 220V 10V CAPACITOR AND



THE 5V6 ZENNER IN PARALLEL WITH THE POSITIVE SIDE OF EACH COMPONENT TO THE JUNCTION OF R957 AND THE BASE OF THE NEW BC548C THAT YOU HAVE PREVIOUSLY FITTED, AND THE NEGATIVE TO A SUITABLE GROUND SUCH AS THE -VE CONNECTION OF C035.



Model: CL1714TE 17" (not UK)

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PART NUMBER  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: A  
REPAIR: A PART NUMBER FOR L901 IS  
L210065



Model: CL1714TE 17" (not UK)

Subject: Y/C SIGNAL PROCESSING  
Fault: NOT DECODING NTSC4.43 VIA SCART  
Symptom: POOR OR NO COLOUR ON NTSC  
4.43 VIA SCART SOCKET.  
Cause: NOT IMPLEMENTED IN PRODUCTION  
Cure: CARRY OUT THE FOLLOWING:  
1) CUT THE TRACK AT PIN 16 OF IC502  
2) ADD 100nF CAP FROM Q455 EMITTER TO  
PIN 16 OF IC502  
3) DELETE Q011, R059, R119



Model: CL1714TE 17" (not UK)

Subject: Y/C SIGNAL PROCESSING  
Fault: CHANGE OF IC201 MASK  
SECTION: CPA/IFC  
CONDITION: 1  
Symptom: 185 CHANGE OF IC201 MASK  
DEFECT: A PART DISCONTINUED  
REPAIR: A REPLACE IC201 WITH TDA8362-  
N5. CHANGE R523 FROM 47K TO 8K2  
IC201 PART # T900624



Model: CL1714TE 17" (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF LINE DRIVER TRANSISTOR  
Symptom: CHANGE OF LINE DRIVER  
TRANSISTOR Q701.  
Cause: CHANGE OF SUPPLIER  
Cure: LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: CL1714TE 17" (not UK)

Subject: PART NUMBER CHANGES

Fault: CHANGE OF U001 PART NUMBER

SECTION: REM

CONDITION: 1

Symptom: 185 T549012 DISCONTINUED

DEFECT: A

REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CL2111R COLOUR TELEVISION

Subject: Y/C SIGNAL PROCESSING

Fault: CHANGE OF I701 (TDA8362)

Symptom: CHANGE OF I701, TDA8362

Cause: MASK CHANGE

Cure: WHEN REPLACING I701 FROM TYPE  
TDA8362-3Y TO TDA8362-5Y VERSION,  
CHANGE THE VALUE OF R501 FROM 47K TO  
8K2

Model: CL2114RE 51cm (not UK)

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

Symptom: WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.

Cause: UNSTABLE 5V(D) RAIL

Cure: THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.

..... (CONT)

YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:

BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF  
10V CAPACITOR.

THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.

FIT THEM AS FOLLOWS:

..... CONT..

1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.

2. FIT A 1K0 RESISTOR IN PLACE OF R957

3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097  
- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.

..... CONT...

4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE



POSITIVE SIDE OF EACH COMPONENT TO THE JUNCTION OF R957 AND THE BASE OF THE NEW BC548C THAT YOU HAVE PREVIOUSLY FITTED, AND THE NEGATIVE TO A SUITABLE GROUND SUCH AS THE -VE CONNECTION OF C035.



Model: CL2114RE 51cm (not UK)

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.  
Cause: FAULTY ZENER & POTENTIOMETER.  
Cure: CHECK/REPLACE ZD952 & VR951.  
ZENER PT. NO. IS 2344122M FOR 25" MODELS  
& PT. NO. IS 2344121M FOR 14", 17" & 21"  
MODELS.  
POTENTIOMETER PT. NO. IS E311076.



Model: CL2114RE 51cm (not UK)

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PART NUMBER  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: A  
REPAIR: A PART NUMBER FOR L901 IS  
L210065



Model: CL2114RE 51cm (not UK)

Subject: Y/C SIGNAL PROCESSING  
Fault: CHANGE OF IC201 MASK  
SECTION: CPA/IFC  
CONDITION: 1  
Symptom: 185 CHANGE OF IC201 MASK  
DEFECT: A PART DISCONTINUED  
REPAIR: A REPLACE IC201 WITH TDA8362-  
N5. CHANGE R523 FROM 47K TO 8K2



Model: CL2114RE 51cm (not UK)

Subject: Y/C SIGNAL PROCESSING  
Fault: CHANGE OF IC201 MASK  
IC201 PART # T900624



Model: CL2114RE 51cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM



CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CL2114TE 51cm (not UK)

Subject: POWER SUPPLY  
Fault: PULSING FROM COLD  
Symptom: WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.  
Cause: UNSTABLE 5V(D) RAIL  
Cure: THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.  
..... (CONT)  
YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:  
BC548C, 1KΩ RESISTOR, 5V6 ZENER, 220μF  
10V CAPACITOR.  
THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.  
FIT THEM AS FOLLOWS:  
..... CONT..

Model: CL2114TE 51cm (not UK)

Subject: POWER SUPPLY  
Fault: PULSING FROM COLD  
1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.  
2. FIT A 1KΩ RESISTOR IN PLACE OF R957  
3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097  
- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.  
..... CONT...  
4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE  
POSITIVE SIDE OF EACH COMPONENT TO THE  
JUNCTION OF R957 AND THE BASE OF THE  
NEW BC548C THAT YOU HAVE PREVIOUSLY  
FITTED, AND THE NEGATIVE TO A SUITABLE  
GROUND SUCH AS THE -VE CONNECTION OF  
C035.

Model: CL2114TE 51cm (not UK)

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.



# HITACHI

Cause: FAULTY ZENER & POTENTIOMETER.  
Cure: CHECK/REPLACE ZD952 & VR951.  
ZENER PT. NO. IS 2344122M FOR 25" MODELS  
& PT. NO. IS 2344121M FOR 14", 17" & 21"  
MODELS.  
POTENTIOMETER PT. NO. IS E311076.

Model: CL2133TA 21" CTV (Nokia)

Subject: HORIZONTAL STAGE  
Fault: STUCK IN STANDBY VK22 FAULTY  
Symptom: VK22 BLOWS AT SWITCH ON. SET  
STUCK IN STANDBY.  
Cause: FAULTY TRANSISTORS.  
Cure: REPLACE TRANSISTORS VK11, VK16  
AND VK22. NOTE: TRANSISTORS MAY CHECK  
OK.  
VK11/16 PART NO. SAL 36145422  
VK22 PART NO. SAL 36147138

Model: CL2156TAN 21" NICAM FOR FRANCE

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: CL2156TAN 21" NICAM FOR FRANCE

Subject: TUNER/IF  
Fault: CHANGE OF NICAM LEVEL  
SECTION: IFC NICAM CIRCUIT  
CONDITION: 1  
Symptom: 185  
DEFECT: Y CHANGE OF NICAM LEVEL  
REPAIR: A CHANGE R2120 FROM 33K TO 1K

Model: CL2156TAN 21" NICAM FOR FRANCE

Subject: VERTICAL STAGE  
Fault: IC601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 11B/316  
DEFECT: Q IC601 SHORT CIRCUIT  
REPAIR: A CHECK IF R616 68K IS FITTED  
TO PCB. IF NOT FITTED, CONNECT ACROSS



Model: CL2156TAN 21" NICAM FOR FRANCE

Subject: VERTICAL STAGE  
Fault: IC601 FAILURE  
ZD603 ON THE PRINT SIDE.  
PART # IC601 T900642  
68K RESISTOR J0700065M

Model: CL2156TAN 21" NICAM FOR FRANCE

Subject: HORIZONTAL STAGE  
Fault: INCORRECT EW WIDTH  
SECTION: DFL  
CONDITION: 1  
Symptom: 33A INCORRECT WIDTH  
DEFECT: Y WRONG CAPACITANCE  
REPAIR: A REPLACE C707 WITH 470pF 2KV  
PART # JAJ00129

Model: CL2156TAN 21" NICAM FOR FRANCE

Subject: TELETEXT  
Fault: TELETEXT TOO BRIGHT  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 TELETEXT TOO BRIGHT  
DEFECT: 1  
REPAIR: A DELETE R817, R818, R819, C805  
C806, C807. CHANGE C881, C882 AND C883  
FROM 220pF TO 180pF.  
C881, C882, C883 PART # J0890077R

Model: CL2156TAN 21" NICAM FOR FRANCE

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF T701 PART NUMBER  
SECTION: DFL  
CONDITION: 1  
Symptom: 185 CHANGE OF T701 PT#  
DEFECT: Q  
REPAIR: A PART # FOR T701 IS JBW01011

Model: CL2164RA 21" EXPORT G10Q

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
Symptom: IC501 P/No T900559 MC44000  
HAS BEEN UPDATED TO T900568 XC44001  
Cause: PRODUCTION CHANGES.  
Cure: IN LATER MODELS THIS VERSION HAS  
ALREADY BEEN FITTED AND DIRECT ONE FOR  
ONE REPLACEMENT CAN BE MADE. HOWEVER  
IF THE ORIGINAL I. C. IS MC44000 THEN



THE FOLLOWING CHANGES MUST BE MADE. .  
DELETE THE FOLLOWING: R532, 537, 517, 543  
544, 545, & IF FITTED R591 SOLDERED  
BETWEEN THE LEGS OF C590. ALSO DELETE  
C527 & C530 AND IF FITTED GREEN LEAD  
TO THE E/W PCB  
ADD 100nF CAP INTO HOLES OF R517  
ADD A 4n7 CAPACITOR INTO THE HOLES FOR  
C530. ADD A 15mm LEAD FROM THE LEG. . .  
OF THIS CAPACITOR WHICH IS AT THE  
JUNCTION WITH C529 TO THE VACANT HOLE  
C527 AT ITS JUNCTION WITH R517.  
CHANGE R2110 TO 6K8 - THIS MAY BE IN  
POSITION MARKED J2110 ON THE PWB  
ALSO CHANGE THE FOLLOWING ACCORDING TO  
THE SCREEN SIZE. . . . .

Model: CL2164RA 21" EXPORT G10Q

Subject: Y/C SIGNAL PROCESSING

Fault: UPDATING OF I. C. 501 MASK.

59 AND 66CM VERSIONS :

R511 SHOULD BE CHANGED TO 7K5

R546 SHOULD BE CHANGED TO 4K7

51CM VERSIONS:

R511 SHOULD BE CHANGED TO 10K

R546 SHOULD BE CHANGED TO 5K6

.....  
WHEN ALL CHANGES HAVE BEEN MADE IT  
WILL BE NECESSARY TO RE-SET AND STORE  
ALL GEOMETRY ADJUSTMENTS, DETAILS OF  
WHICH CAN BE FOUND IN THE TECHNICAL  
INFORMATION BOOKLET X830798

Model: CL24W1TAN 24" WIDE 50HZ STD

Subject: TUNING SELECTION

Fault: CHANGE OF MEMORY IC002

SECTION: SYS

CONDITION: 1

Symptom: 185 CHANGE OF IC002

DEFECT: 1 UPDATED SOFTWARE

REPAIR A PT# E730188

Model: CL24W1TAN 24" WIDE 50HZ STD

Subject: VERTICAL STAGE

Fault: ADDITION OF D601 AND J40

SECTION: DFL

CONDITION: 1

Symptom: 185 ADDITION OF D601 AND J40

DEFECT: Z COMPONENT MISSING

REPAIR: A D601 AND J40 HAVE BEEN ADDED



TO PROTECTION LINE. D601 PT # J2348921M

Model: CL24W1TAN 24" WIDE 50HZ STD

Subject: PART NUMBER CHANGES

Fault: CHANGE OF PART #, IR LED LENS  
SECTION: REM REMOTE SECTION  
CONDITION: 1

Symptom: 185 MODIFIED IR LENS

DEFECT: Y

REPAIR: A PART # FOR MODIFIED IR LENS  
ISX425144

Model: CL24W1TAN 24" WIDE 50HZ STD

Subject: SERVICE INFORMATION

Fault: IMPROVEMENT OF 16:9 COMPRESSION SW  
SECTION: VPA  
CONDITION: 1

Symptom: 185 RUNNING CHANGE

DEFECT: Y

REPAIR: A R1304 IN 16:9 COMPRESSION  
SWITCH IS CHANGED FROM 10K TO 47K

Model: CL2514RE 59cm (not UK)

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

Symptom: WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.

Cause: UNSTABLE 5V(D) RAIL

Cure: THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.

..... (CONT)

Model: CL2514RE 59cm (not UK)

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:

BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF  
10V CAPACITOR.

THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.

FIT THEM AS FOLLOWS:

..... CONT..

1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.

2. FIT A 1K0 RESISTOR IN PLACE OF R957

3. FIT A BC548C WITH THE EMITTER AND

BASE USING THE HOLES VACATED BY R097  
- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.

..... CONT. . .

4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE  
POSITIVE SIDE OF EACH COMPONENT TO THE  
JUNCTION OF R957 AND THE BASE OF THE  
NEW BC548C THAT YOU HAVE PREVIOUSLY  
FITTED, AND THE NEGATIVE TO A SUITABLE  
GROUND SUCH AS THE -VE CONNECTION OF  
C035.



Model: CL2514RE                      59cm (not UK)

Subject: POWER SUPPLY

Fault: SET DEAD.

Symptom: SET DEAD.

Cause: FAULTY ZENER & POTENTIOMETER.

Cure: CHECK/REPLACE ZD952 & VR951.

ZENER PT. NO. IS 2344122M FOR 25" MODELS  
& PT. NO. IS 2344121M FOR 14", 17" & 21"  
MODELS.

POTENTIOMETER PT. NO. IS E311076.



Model: CL2514RE                      59cm (not UK)

Subject: POWER SUPPLY

Fault: CHANGE OF TRANSFORMER T901

SECTION: PSU

CONDITION: 1

Symptom: 185 RUNNING CHANGE

DEFECT: I

REPAIR A PART # FOR T901 L380131



Model: CL2514RE                      59cm (not UK)

Subject: POWER SUPPLY

Fault: CHANGE OF L901 PT#

SECTION: PSU

CONDITION: 1

Symptom: 185

DEFECT: A

REPAIR: A NEW PART # FOR L901 IS  
L210065



Model: CL2514RE                      59cm (not UK)

Subject: Y/C SIGNAL PROCESSING

Fault: CHANGE OF IC201 MASK

SECTION: CPA/IFC

CONDITION: 1

Symptom: 185 CHANGE OF IC201 MASK

# HITACHI

DEFECT: A PART DISCONTINUED  
REPAIR: A REPLACE IC201 WITH TDA8362-  
N5. CHANGE R523 FROM 47K TO 8K2

Model: CL2514RE 59cm (not UK)

Subject: Y/C SIGNAL PROCESSING  
Fault: CHANGE OF IC201 MASK  
IC201 PART # T900624

Model: CL2514RE 59cm (not UK)

Subject: AUDIO  
Fault: CHANGE OF PART # R491  
SECTION: APA AUDIO PROCESSING  
CONDITION: 1  
Symptom: 185 PART DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART # FOR R491 IS  
R000618

Model: CL2514RE 59cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: CL2514RE 59cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF LINE DRIVER TRANSISTOR  
Symptom: CHANGE OF LINE DRIVER  
TRANSISTOR Q701.  
Cause: CHANGE OF SUPPLIER  
Cure: LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: CL2514RE 59cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF D601 PART NUMBER  
Symptom: CHANGE OF PART NUMBER FOR  
D601  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR D601 IS  
T531063 TYPE IN4002/GI

Model: CL2514RE 59cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART # FOR D601  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 CHANGE OF PT#  
DEFECT: A  
REPAIR: A PT# FOR D601 IS  
T531063

Model: CL2514RE 59cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF CRT PART NUMBER  
SECTION: CRT  
CONDITION: 1 CHANGE OF PART NUMBER  
Symptom: 185 OLD TUBE DISCONTINUED  
DEFECT: A  
REPAIR: A PART NUMBER FOR NEW CRT IS  
T159021

Model: CL2514RE 59cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CL2514TE 51cm (not UK)

Subject: POWER SUPPLY  
Fault: PULSING FROM COLD  
Symptom: WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.  
Cause: UNSTABLE 5V(D) RAIL  
Cure: THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.  
..... (CONT)

Model: CL2514TE 51cm (not UK)

Subject: POWER SUPPLY  
Fault: PULSING FROM COLD  
YOU WILL REQUIRE THE FOLLOWING PARTS

FOR THIS CHANGE:

BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF  
10V CAPACITOR.

THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.

FIT THEM AS FOLLOWS:

..... CONT. .

1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.

2. FIT A 1K0 RESISTOR IN PLACE OF R957

3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097  
- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.

..... CONT. .

4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE  
POSITIVE SIDE OF EACH COMPONENT TO THE  
JUNCTION OF R957 AND THE BASE OF THE  
NEW BC548C THAT YOU HAVE PREVIOUSLY  
FITTED, AND THE NEGATIVE TO A SUITABLE  
GROUND SUCH AS THE -VE CONNECTION OF  
C035.

Model: CL2514TE 51cm (not UK)

Subject: AUDIO

Fault: CHANGE OF AUDIO OUTPUT IC401  
SECTION: APA  
CONDITION: 1

Symptom: 185 CHANGE OF AUDIO IC TYPE

DEFECT: A

REPAIR: A THERE ARE TWO TYPES OF AUDIO  
OUTPUT IC'S USED ON THIS MODEL

Model: CL2514TE 51cm (not UK)

Subject: AUDIO

Fault: CHANGE OF AUDIO OUTPUT IC401  
THESE AUDIO OUTPUT IC'S ARE NOT INTER-  
CHANGEABLE.

PART # TDA2824S J2004451  
TDA1519B T900754

PLEASE REFER TO SERVICE MANUAL SMD0013  
FOR THE CIRCUIT DIAGRAM OF THE TDA1519

Model: CL2546TAN 25" ni cam CTV - France

Subject: TUNING SELECTION

Fault: CHANNEL IDENT APPEARS IN VCR PLAY

Symptom: WHEN PLAYING BACK RECORDINGS  
OF OFF AIR PROGRAMMES, THE CHANNEL  
IDENT APPEARS INTERMITTANTLY.



# HITACHI

Cause: PACKET 830 IDENTIFICATION BY  
MICRO PROCESSOR.  
Cure: CHANGE I. C. 001 PT. No T900644.  
N. B. . VCR PLAYBACK MUST BE VIA SCART TO  
PREVENT RE-OCCURENCE OF SYMPTOMS.

Model: CL2546TAN 25" ni cam CTV - France

Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR LOSS ON PRE-RECORDED VIDEO  
Symptom: COLOUR LOSS OR DROP OUT WHEN  
PLAYING PRE-RECORDED VIDEO TAPES.  
Cause: MACRO PROTECTION.  
Cure: IN SECAM L AREA CHANGE C514 FROM  
100nF TO 220nF 63V, ADD 10M RESISTOR  
BETWEEN PIN 6 & 7 OF IC502. IF FITTED  
IN B/G AREAS SOME COLOUR FLARING MAY  
RESULT.

Model: CL2546TAN 25" ni cam CTV - France

Subject: Y/C SIGNAL PROCESSING  
Fault: SPOT BURN-IMPROVEMENT  
SECTION: APR LUMINANCE PROCESSING  
CONDITION: 1  
Symptom: 385 IMPROVEMENT OF SPOT BURN  
DEFECT: Y  
REPAIR: A TO IMPROVE SPOT BURN, R593  
IS CHANGED FROM 10K TO 22K

Model: CL2548TAN 25" 3D surround sound

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY.  
Symptom: STUCK IN STANDBY.  
Cause: DRY JOINTS.  
Cure: CHECK PRINT AROUND PINS 9&10 OF  
L. O. P. T. (T701) FOR DRY JOINTS.  
NB: IN THIS CONDITION POWER GOOD LINE  
IS LOW AS, ALTHOUGH 14V IS PRESENT,  
VOLTAGE APPLIED TO PIN 5 OF IC954 IS  
LOWER THAN NORMAL, OWING TO PSU MODE.

Model: CL2548TAN 25" 3D surround sound

Subject: TUNING SELECTION  
Fault: CHANGE OF MICROPROCESSOR IC 001  
SECTION: SYS.  
CONDITION: 1  
Symptom: 185 SOFTWARE UPGRADE  
DEFECT: A  
REPAIR: A IC001 PT# T900721  
NOTE: X001 MUST BE CHANGED TO 4MHZ

Model: CL2548TAN 25" 3D surround sound

Subject: TELETEXT  
Fault: TELETEXT BRIGHTNESS LOW  
Symptom: TELETEXT BRIGHTNESS LOW  
Cause: TEXT BRIGHTNESS IS AFFECTED BY  
PICTURE CONTRAST AND BRIGHTNESS  
SETTINGS.  
Cure: IF CUSTOMER PREFERRED PICTURE  
SETTINGS LEAVE TEXT BRIGHTNESS LOW,  
THE FOLLOWING CHANGES MAY BE CARRIED  
OUT: - ..... SEE NEXT PAGE.  
(CONTD)  
INCREASE C805, C806 & C807 TO 470PF,  
PT. NO. 0890083.  
CHANGE R2203(2K2) & R2204(560R) TO  
1% RESISTORS.  
IF EXTRA BRIGHTNESS REQUIRED, CHANGE  
R2204 TO 680 OHMS. HOWEVER THIS SHOULD  
ONLY BE DONE AS A LAST RESORT. TEXT MAY  
BEND AT HIGH CONTRAST LEVELS.

Model: CL2548TAN 25" 3D surround sound

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF RESISTORS R2203 AND R2204  
Symptom: CHANGE OF TOLERANCE OF R2203  
AND R2204  
Cause: IMPROVEMENT  
Cure: CHANGE R2203(2K2) AND R2204  
(560R) TO 1% TOLERANCE.  
PART NUMBERS R2203 R232725  
R2204 R526725

Model: CL2548TAN 25" 3D surround sound

Subject: PART NUMBER CHANGES  
Fault: INCORRECT PART NUMBER FOR TUNER  
Symptom: INCORRECT PART NUMBER FOR  
TUNER.  
Cause: PRINTING ERROR IN SERVICE  
MANUAL  
Cure: THE CORRECT PART NUMBER FOR THE  
TUNER UNIT IS E710049

Model: CL2548TAN 25" 3D surround sound

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER , T901  
SECTION: PSU  
CONDITION: 1



Symptom: 185 T901 PT# CHANGED  
DEFECT: A  
REPAIR: A NEW PART # FOR T901 IS  
L380119

Model: CL2548TAN 25" 3D surround sound  
Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR NOISE ON SECAM RECEPTION  
Symptom: COLOUR NOISE ON SECAM  
RECEPTION.  
Cause: LOW CHROMA SIGNAL  
Cure: REPLACE R356 WITH WIRE LINK

Model: CL2556TAN 25" NICAM FOR FRANCE  
Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: CL2556TAN 25" NICAM FOR FRANCE  
Subject: TUNER/IF  
Fault: CHANGE OF NICAM LEVEL  
SECTION: IFC NICAM CIRCUIT  
CONDITION: 1  
Symptom: 185  
DEFECT: Y CHANGE OF NICAM LEVEL  
REPAIR: A CHANGE R2120 FROM 33K TO 1K

Model: CL2556TAN 25" NICAM FOR FRANCE  
Subject: Y/C SIGNAL PROCESSING  
Fault: IMPROVEMENT OF PICTURE SATURATION  
SECTION: CPA  
CONDITION: 1  
Symptom: 185 IMPROVEMENT OF SATURATION  
DEFECT: Y  
REPAIR: A CHANGE ZD501, ZD502 AND ZD503  
FROM 5V1 TO 8V2 ZENER PT# T536186

Model: CL2556TAN 25" NICAM FOR FRANCE  
Subject: VERTICAL STAGE  
Fault: IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316 HORIZONTAL LINE

# HITACHI

DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J

Model: CL2556TAN 25" NICAM FOR FRANCE

Subject: TELETEXT  
Fault: IMPROVEMENT OF TEXT BREATHING  
SECTION: TXT  
CONDITION: 1

Symptom: 286 IMPROVEMENT OF TEXT  
BREATHING

DEFECT: Y  
REPAIR: A REPLACE WIRE LINK IN  
POSITION R5 WITH 220R PT# J0700032M

Model: CL2556TAN 25" NICAM FOR FRANCE

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART #, IR LED LENS  
SECTION: REM REMOTE SECTION  
CONDITION: 1

Symptom: 185 MODIFIED IR LENS

DEFECT: Y  
REPAIR: A PART # FOR MODIFIED IR LENS  
ISX425144

Model: CL2564RA 59cm EXPORT DOLBY

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
Symptom: IC501 P/No T900559 MC44000  
HAS BEEN UPDATED TO T900568 XC44001  
Cause: PRODUCTION CHANGES.  
Cure: IN LATER MODELS THIS VERSION HAS  
ALREADY BEEN FITTED AND DIRECT ONE FOR  
ONE REPLACEMENT CAN BE MADE. HOWEVER  
IF THE ORIGINAL I. C. IS MC44000 THEN  
THE FOLLOWING CHANGES MUST BE MADE. .  
DELETE THE FOLLOWING: R532, 537, 517, 543  
544, 545, & IF FITTED R591 SOLDERED  
BETWEEN THE LEGS OF C590. ALSO DELETE  
C527 & C530 AND IF FITTED GREEN LEAD  
TO THE E/W PCB  
ADD 100nF CAP INTO HOLES OF R517  
ADD A 4n7 CAPACITOR INTO THE HOLES FOR  
C530. ADD A 15mm LEAD FROM THE LEG. . .  
OF THIS CAPACITOR WHICH IS AT THE  
JUNCTION WITH C529 TO THE VACANT HOLE  
C527 AT ITS JUNCTION WITH R517.  
CHANGE R2110 TO 6K8 - THIS MAY BE IN  
POSITION MARKED J2110 ON THE PWB



ALSO CHANGE THE FOLLOWING ACCORDING TO  
THE SCREEN SIZE. ....

59 AND 66CM VERSIONS :

R511 SHOULD BE CHANGED TO 7K5

R546 SHOULD BE CHANGED TO 4K7

51CM VERSIONS:

R511 SHOULD BE CHANGED TO 10K

R546 SHOULD BE CHANGED TO 5K6

.....



**Model :** CL2564RA                      **59cm EXPORT DOLBY**

**Subject:** Y/C SIGNAL PROCESSING

**Fault:** UPDATING OF I. C. 501 MASK.

WHEN ALL CHANGES HAVE BEEN MADE IT  
WILL BE NECESSARY TO RE-SET AND STORE  
ALL GEOMETRY ADJUSTMENTS, DETAILS OF  
WHICH CAN BE FOUND IN THE TECHNICAL  
INFORMATION BOOKLET X830798



**Model :** CL2564TA                      **Colour tv**

**Subject:** Y/C SIGNAL PROCESSING

**Fault:** UPDATING OF I. C. 501 MASK.

**Symptom:** IC501 P/No T900559 MC44000  
HAS BEEN UPDATED TO T900568 XC44001

**Cause:** PRODUCTION CHANGES.

**Cure:** IN LATER MODELS THIS VERSION HAS  
ALREADY BEEN FITTED AND DIRECT ONE FOR  
ONE REPLACEMENT CAN BE MADE. HOWEVER  
IF THE ORIGINAL I. C. IS MC44000 THEN  
THE FOLLOWING CHANGES MUST BE MADE. .  
DELETE THE FOLLOWING: R532, 537, 517, 543  
544, 545, & IF FITTED R591 SOLDERED  
BETWEEN THE LEGS OF C590. ALSO DELETE  
C527 & C530 AND IF FITTED GREEN LEAD  
TO THE E/W PCB  
ADD 100nF CAP INTO HOLES OF R517  
ADD A 4n7 CAPACITOR INTO THE HOLES FOR  
C530. ADD A 15mm LEAD FROM THE LEG. .  
OF THIS CAPACITOR WHICH IS AT THE  
JUNCTION WITH C529 TO THE VACANT HOLE  
C527 AT ITS JUNCTION WITH R517.  
CHANGE R2110 TO 6K8 - THIS MAY BE IN  
POSITION MARKED J2110 ON THE PWB  
ALSO CHANGE THE FOLLOWING ACCORDING TO  
THE SCREEN SIZE. ....



**Model :** CL2564TA                      **Colour tv**

**Subject:** Y/C SIGNAL PROCESSING

**Fault:** UPDATING OF I. C. 501 MASK.

59 AND 66CM VERSIONS :



R511 SHOULD BE CHANGED TO 7K5  
R546 SHOULD BE CHANGED TO 4K7  
51CM VERSIONS:  
R511 SHOULD BE CHANGED TO 10K  
R546 SHOULD BE CHANGED TO 5K6

.....  
WHEN ALL CHANGES HAVE BEEN MADE IT  
WILL BE NECESSARY TO RE-SET AND STORE  
ALL GEOMETRY ADJUSTMENTS, DETAILS OF  
WHICH CAN BE FOUND IN THE TECHNICAL  
INFORMATION BOOKLET X830798

Model: CL2564TAN      59CM G10Q T/T NICAM EXP.

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
Symptom: IC501 P/No T900559 MC44000  
HAS BEEN UPDATED TO T900568 XC44001  
Cause: PRODUCTION CHANGES.  
Cure: IN LATER MODELS THIS VERSION HAS  
ALREADY BEEN FITTED AND DIRECT ONE FOR  
ONE REPLACEMENT CAN BE MADE. HOWEVER  
IF THE ORIGINAL I. C. IS MC44000 THEN  
THE FOLLOWING CHANGES MUST BE MADE. .  
DELETE THE FOLLOWING: R532, 537, 517, 543  
544, 545, & IF FITTED R591 SOLDERED  
BETWEEN THE LEGS OF C590. ALSO DELETE  
C527 & C530 AND IF FITTED GREEN LEAD  
TO THE E/W PCB  
ADD 100nF CAP INTO HOLES OF R517  
ADD A 4n7 CAPACITOR INTO THE HOLES FOR  
C530. ADD A 15mm LEAD FROM THE LEG. .

Model: CL2564TAN      59CM G10Q T/T NICAM EXP.

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
OF THIS CAPACITOR WHICH IS AT THE  
JUNCTION WITH C529 TO THE VACANT HOLE  
C527 AT ITS JUNCTION WITH R517.  
CHANGE R2110 TO 6K8 - THIS MAY BE IN  
POSITION MARKED J2110 ON THE PWB  
ALSO CHANGE THE FOLLOWING ACCORDING TO  
THE SCREEN SIZE. ....  
59 AND 66CM VERSIONS :  
R511 SHOULD BE CHANGED TO 7K5  
R546 SHOULD BE CHANGED TO 4K7  
51CM VERSIONS:  
R511 SHOULD BE CHANGED TO 10K  
R546 SHOULD BE CHANGED TO 5K6

.....  
WHEN ALL CHANGES HAVE BEEN MADE IT  
WILL BE NECESSARY TO RE-SET AND STORE  
ALL GEOMETRY ADJUSTMENTS, DETAILS OF



WHICH CAN BE FOUND IN THE TECHNICAL  
INFORMATION BOOKLET X830798

Model: CL2564TAN 59CM G10Q T/T NICAM EXP.  
Subject: Y/C SIGNAL PROCESSING  
Fault: FLASHING OR PULSATING PICTURE/PSU.  
SYMPTOM FLASHING/PULSATING PICTURE/PSU  
Cause: FAULTY CAPACITOR, CHANGED VALUE  
Cure: CHECK/REPLACE C927, 470MF, 25V.  
PT. NO. C001541.

Model: CL2576TAN 59cm txt/A2 & Nicam/Prologic  
Subject: Y/C SIGNAL PROCESSING  
Fault: PHOSPHOR BURN ON CRT  
Symptom: PHOSPHOR BURN ON CRT.  
Cause: SPOT TOO BRIGHT  
Cure: CHANGE C880 FROM 10nF TO 1nF AND  
DELETE TRANSISTOR Q510. C880 PART NO.  
J0244211F

Model: CL2586TAN 25" PRO-LOGIC FOR FRANCE  
Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: CL2586TAN 25" PRO-LOGIC FOR FRANCE  
Subject: TUNING SELECTION  
Fault: INT OR NO RC FUNCTIONS  
SECTION: REM  
CONDITION: 1  
Symptom: 151 INT/NO RC FUNCTIONS  
DEFECT: C IR/LED MOULDING DEFECTIVE  
REPAIR: A REPLACE IR/LED MOULDING WITH  
MODIFIED TYPE.

Model: CL2586TAN 25" PRO-LOGIC FOR FRANCE  
Subject: TUNING SELECTION  
Fault: INT OR NO RC FUNCTIONS  
PART # X425233 FOR CL25/2886TAN AND  
X425237 FOR CL28WD2TAN AND CL28WITAN  
IF THE ABOVE DOES NOT WORK, REPLACE  
IR001 PART # T549018 WITH NEW UNIT.

Model: CL2586TAN 25" PRO-LOGIC FOR FRANCE

Subject: TUNER/IF  
Fault: CHANGE OF NICAM LEVEL  
SECTION: IFC NICAM CIRCUIT  
CONDITION: 1  
Symptom: 185  
DEFECT: Y CHANGE OF NICAM LEVEL  
REPAIR: A CHANGE R2120 FROM 33K TO 1K

Model: CL2586TAN 25" PRO-LOGIC FOR FRANCE

Subject: VERTICAL STAGE  
Fault: IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316 HORIZONTAL LINE  
DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J

Model: CL2586TAN 25" PRO-LOGIC FOR FRANCE

Subject: TELETEXT  
Fault: IMPROVEMENT OF TEXT BREATHING  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 IMPROVEMENT OF TEXT  
BREATHING  
DEFECT: Y  
REPAIR: A REPLACE WIRE LINK IN  
POSITION R5 WITH 220R PT# J0700032M

Model: CL28WD2TAN 28" WIDE SCREEN 50HZ PRO-LOGIC

Subject: TUNING SELECTION  
Fault: INT OR NO RC FUNCTIONS  
SECTION: REM  
CONDITION: 1  
Symptom: 151 INT/NO RC FUNCTIONS  
DEFECT: C IR/LED MOULDING DEFECTIVE  
REPAIR: A REPLACE IR/LED MOULDING WITH  
MODIFIED TYPE.  
PART # X425233 FOR CL25/2886TAN AND  
X425237 FOR CL28WD2TAN AND CL28WITAN  
IF THE ABOVE DOES NOT WORK, REPLACE  
IR001 PART # T549018 WITH NEW UNIT.





Model: CL28WD2TAN 28" WIDE SCREEN 50HZ PRO-LOGIC

Subject: HORIZONTAL STAGE  
Fault: IMPROVEMENT OF ABL CIRCUIT  
SECTION: DFL  
CONDITION: 1  
Symptom: 320 IMPROVEMENT OF ABL  
DEFECT: Y  
REPAIR: A CHANGE R730 AND R766  
FROM 0R5 2W TO 0R5 5W PT# R000619  
CHANGE C724 FROM 47uF 50V TO 22uF 50V  
PT# J0800303R. CHANGE R736 FROM 5K1 TO  
6K8 PT# R638330



Model: CL28WD2TAN 28" WIDE SCREEN 50HZ PRO-LOGIC

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART # , R602  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 OLD PART DISCONTINUED  
DEFECT: R  
REPAIR: A NEW PART # FOR R602 IS  
R108736



Model: CL28WD2TAN 28" WIDE SCREEN 50HZ PRO-LOGIC

Subject: SERVICE INFORMATION  
Fault: IMPROVEMENT OF 16:9 COMPRESSION SW  
SECTION: VPA  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: Y  
REPAIR: A R1304 IN 16:9 COMPRESSION  
SWITCH IS CHANGED FROM 10K TO 47K



Model: CL28W1TAN 28" WIDE SCREEN 50HZ STD

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A PT# E730188



Model: CL28W1TAN 28" WIDE SCREEN 50HZ STD

Subject: TUNING SELECTION  
Fault: INT OR NO RC FUNCTIONS  
SECTION: REM  
CONDITION: 1  
Symptom: 151 INT/NO RC FUNCTIONS



DEFECT: C IR/LED MOULDING DEFECTIVE  
REPAIR: A REPLACE IR/LED MOULDING WITH  
MODIFIED TYPE.

PART # X425233 FOR CL25/2886TAN AND  
X425237 FOR CL28WD2TAN AND CL28W1TAN  
IF THE ABOVE DOES NOT WORK, REPLACE  
IR001 PART # T549018 WITH NEW UNIT.



Model: CL28W1TAN 28" WIDE SCREEN 50HZ STD

Subject: TUNER/IF

Fault: CHANGE OF NICAM LEVEL

SECTION: IFC NICAM CIRCUIT

CONDITION: 1

Symptom: 185

DEFECT: Y CHANGE OF NICAM LEVEL

REPAIR: A CHANGE R2120 FROM 33K TO 1K



Model: CL28W1TAN 28" WIDE SCREEN 50HZ STD

Subject: HORIZONTAL STAGE

Fault: IMPROVEMENT OF ABL CIRCUIT

SECTION: DFL

CONDITION: 1

Symptom: 320 IMPROVEMENT OF ABL

DEFECT: Y

REPAIR: A CHANGE R730 AND R766

FROM OR5 2W TO OR5 5W PT# R000619

CHANGE C724 FROM 47uF 50V TO 22uF 50V

PT# J0800303R. CHANGE R736 FROM 5K1 TO

6K8 PT# R638330



Model: CL28W1TAN 28" WIDE SCREEN 50HZ STD

Subject: PART NUMBER CHANGES

Fault: CHANGE OF PART # , R602

SECTION: DFL FRAME DEFLECTION

CONDITION: 1

Symptom: 185 OLD PART DISCONTINUED

DEFECT: R

REPAIR: A NEW PART # FOR R602 IS

R108736



Model: CL28W1TAN 28" WIDE SCREEN 50HZ STD

Subject: SERVICE INFORMATION

Fault: IMPROVEMENT OF 16:9 COMPRESSION SW

SECTION: VPA

CONDITION: 1

Symptom: 185 RUNNING CHANGE

DEFECT: Y

REPAIR: A R1304 IN 16:9 COMPRESSION

SWITCH IS CHANGED FROM 10K TO 47K

Model: CL2840TAN 28" Ni cam France

Subject: Y/C SIGNAL PROCESSING  
Fault: IMPROVEMENT OF PICTURE SATURATION  
SECTION: CPA  
CONDITION: 1  
Symptom: 185 IMPROVEMENT OF SATURATION  
DEFECT: Y  
REPAIR: A CHANGE ZD501, ZD502 AND ZD503  
FROM 5V1 TO 8V2 ZENER PT# T536186

Model: CL2846TAN 28" ni cam CTV - France

Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR LOSS ON PRE-RECORDED VIDEO  
Symptom: COLOUR LOSS OR DROP OUT WHEN  
PLAYING PRE-RECORDED VIDEO TAPES.  
Cause: MACRO PROTECTION.  
Cure: IN SECAM L AREA CHANGE C514 FROM  
100nF TO 220nF 63V, ADD 10M RESISTOR  
BETWEEN PIN 6 & 7 OF IC502. IF FITTED  
IN B/G AREAS SOME COLOUR FLARING MAY  
RESULT.

Model: CL2846TAN 28" ni cam CTV - France

Subject: Y/C SIGNAL PROCESSING  
Fault: SPOT BURN-IMPROVEMENT  
SECTION: APR LUMINANCE PROCESSING  
CONDITION: 1  
Symptom: 385 IMPROVEMENT OF SPOT BURN  
DEFECT: Y  
REPAIR: A TO IMPROVE SPOT BURN, R593  
IS CHANGED FROM 10K TO 22K

Model: CL2846TAN 28" ni cam CTV - France

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER , T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 T901 PT# CHANGED  
DEFECT: A  
REPAIR: A NEW PART # FOR T901 IS  
L380119

Model: CL2848TAN 28" 3D surround sound

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY.  
Symptom: STUCK IN STANDBY.



Cause: DRY JOINTS.  
Cure: CHECK PRINT AROUND PINS 9&10 OF  
L. O. P. T. (T701) FOR DRY JOINTS.  
NB: IN THIS CONDITION POWER GOOD LINE  
IS LOW AS, ALTHOUGH 14V IS PRESENT,  
VOLTAGE APPLIED TO PIN 5 OF IC954 IS  
LOWER THAN NORMAL, OWING TO PSU MODE.

Model: CL2848TAN 28" 3D surround sound

Subject: TUNING SELECTION  
Fault: CHANGE OF MICROPROCESSOR IC 001  
SECTION: SYS.  
CONDITION: 1  
Symptom: 185 SOFTWARE UPGRADE  
DEFECT: A  
REPAIR: A IC001 PT# T900721  
NOTE: X001 MUST BE CHANGED TO 4MHZ  
WITH VERSION 2 MICRO X001 PT# J2940661

Model: CL2848TAN 28" 3D surround sound

Subject: TELETEXT  
Fault: TELETEXT BRIGHTNESS LOW.  
Symptom: TELETEXT BRIGHTNESS LOW.  
Cause: TEXT BRIGHTNESS IS AFFECTED BY  
PICTURE CONTRAST AND BRIGHTNESS  
SETTINGS.  
Cure: IF CUSTOMER PREFERRED PICTURE  
SETTINGS LEAVE TEXT BRIGHTNESS LOW,  
THE FOLLOWING CHANGES MAY BE CARRIED  
OUT: - ..... SEE NEXT PAGE.  
(CONTD)  
INCREASE C805, C806 & C807 TO 470PF,  
PT. NO. 0890083.  
CHANGE R2203(2K2) & R2204(560R) TO  
1% RESISTORS.  
IF EXTRA BRIGHTNESS REQUIRED, CHANGE  
R2204 TO 680 OHMS. HOWEVER THIS SHOULD  
ONLY BE DONE AS A LAST RESORT. TEXT MAY  
BEND AT HIGH CONTRAST LEVELS.

Model: CL2848TAN 28" 3D surround sound

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF RESISTORS R2203 AND R2204  
Symptom: CHANGE OF TOLERANCE OF R2203  
AND R2204  
Cause: IMPROVEMENT  
Cure: CHANGE R2203(2K2) AND R2204  
(560R) TO 1% TOLERANCE.  
PART NUMBERS R2203 R232725  
R2204 R526725

Model: CL2848TAN 28" 3D surround sound

Subject: PART NUMBER CHANGES  
Fault: INCORRECT PART NUMBER FOR TUNER  
Symptom: INCORRECT PART NUMBER FOR  
TUNER.  
Cause: PRINTING ERROR IN SERVICE  
MANUAL  
Cure: THE CORRECT PART NUMBER FOR THE  
TUNER UNIT IS E710049

Model: CL2848TAN 28" 3D surround sound

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER , T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 T901 PT# CHANGED  
DEFECT: A  
REPAIR: A NEW PART # FOR T901 IS  
L380119

Model: CL2848TAN 28" 3D surround sound

Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR NOISE ON SECAM RECEPTION  
Symptom: COLOUR NOISE ON SECAM  
RECEPTION.  
Cause: LOW CHROMA SIGNAL  
Cure: REPLACE R356 WITH WIRE LINK

Model: CL28500TAN COLOUR TELEVISION

Subject: TUNING SELECTION  
Fault: PICTURE FORMAT SETTING MEMORY  
Symptom: PICTURE FORMAT SETTING  
Cause: WHEN THE SET IS SWITCHED OFF BY  
THE ON/OFF SWITCH PICTURE SETTING  
REVERTS TO FACTORY SETTING.  
Cure: THE MEMORY IC SOFTWARE HAS BEEN  
UPGRADED SO THAT THE SET POWERS UP IN  
THE LAST MODE SELECTED BY THE CUSTOMER  
NEW MEMORY IC PART NUMBER E730161  
NOTE. FOR FRANCE , SPAIN , GERMANY AND  
NORWAY ONLY NOT FOR ITALY OR SWEDEN

Model: CL28500TAN COLOUR TELEVISION

Subject: TUNING SELECTION  
Fault: SET STUCK IN STANDBY, IN VCR USE  
Symptom: SET STUCK IN STANDBY, OR NO

# HITACHI

FUNCTIONS FROM R/C  
Cause: LOCK UP OF MICRO PROCESSOR  
Cure: ADD TWO IN4531 DIODES WITH ANODE  
END OF ONE FROM R058 AT THE OPPOSITE  
END TO PIN 5, ONE FROM R057 OPPOSITE  
END TO PIN 6. BOTH CATHODES GO TO THE  
ANODE OF DV04 USING A JUMP LEAD.

## Model: CL28500TAN COLOUR TELEVISION

Subject: TUNING SELECTION  
Fault: MEMORY IC 001 PART NUMBER.  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 MEMORY IC 001 PART  
NUMBER  
DEFECT: 1 PROGRAMMING VARIATIONS.  
REPAIR: A MEM IC 001 E730165 IS  
ITALY AND SCAND ONLY

## Model: CL28500TAN COLOUR TELEVISION

Subject: TUNING SELECTION  
Fault: SET LOCKS UP IN S/BY MODE ON VCR PB  
Symptom: SET LOCKS UP WHILST IN S/BY  
MODE AND VCR PLAY MODE IS SELECTED  
BEFORE SET IS BROUGHT OUT OF STANDBY  
MODE WITH HAND SET.  
NOTE: TO REPRODUCE FAULT SYMPTOM THE  
FOLLOWING PROCEDURE SHOULD BE FOLLOWED  
(1) PUT TV IN STANDBY MODE  
(2) SELECT PLAY ON VCR  
(3) SWITCH TV OFF AT ON/OFF SWITCH  
(4) SWITCH TV ON WITH ON/OFF SWITCH

## Model: CL28500TAN COLOUR TELEVISION

Subject: TUNING SELECTION  
Fault: SET LOCKS UP IN S/BY MODE ON VCR PB  
AFTER THE ABOVE PROCEDURE, SET IS IN  
STANDBY MODE BUT NO RESPONSE TO HAND  
SET,  
Cause: MICROPROCESSOR INPUT FROM PIN 8  
OF SCART SOCKET IS PULLED LOW IN S/BY  
Cure: CONNECT CATHODES OF TWO DIODES  
TOGETHER. CONNECT ANODE OF ONE DIODE TO  
JUNCTION OF R1A8 AND R058. CONNECT THE  
ANODE OF THE OTHER DIODE TO THE  
JUNCTION OF R057 AND R1B1. USING A LONG  
JUMPER LEAD, CONNECT THE CATHODES OF  
THE TWO DIODES TO THE ANODE OF DV04.

**Model: CL28500TAN COLOUR TELEVISION**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** POOR OR NO COLOUR IN P IN P ON NTSC  
**Symptom:** POOR OR NO COLOUR IN P IN P  
ON NTSC VIDEO INPUT ONLY.  
**Cause:** LOW CAPACITANCE.  
**Cure:** ADD CAPACITOR C5123A IN PARALLEL  
WITH C5123 ON PRINT SIDE OF PCB. C5123A  
PART NUMBER J0890123R



**Model: CL28500TAN COLOUR TELEVISION**

**Subject:** VERTICAL STAGE  
**Fault:** FAILURE OF FRAME OUTPUT IC  
SECTION: DFL  
CONDITION: 1  
**Symptom:** 11B OR 316  
DEFECT: Q I601 SHORT CIRCUIT  
REPAIR: A REPLACE I601 AND CARRY OUT  
FOLLOWING CHANGES.



**Model: CL28500TAN COLOUR TELEVISION**

**Subject:** VERTICAL STAGE  
**Fault:** FAILURE OF FRAME OUTPUT IC  
ADD 47uF 50V CAPACITOR BETWEEN PIN 8  
AND GROUND. ADD 470nF CAPACITOR BETWEEN  
PINS 4 AND 8. ADD BYD33J DIODE AND 10nF  
CAPACITOR BETWEEN PIN 8 AND 9, ANODE  
OF DIODE TO PIN 9.



**Model: CL28500TAN COLOUR TELEVISION**

**Subject:** HORIZONTAL STAGE  
**Fault:** REPEATED FAILURE OF Q702  
SECTION: DFL  
CONDITION: 1  
**Symptom:** 111 NO POWER  
DEFECT: Q Q702 SHORT CIRCUIT  
REPAIR: A REPLACE Q702 AND T701  
PT# Q702 2314001 , T701 L380118



**Model: CL28500TAN COLOUR TELEVISION**

**Subject:** SERVICE INFORMATION  
**Fault:** UDATED SOFTWARE FOR IC002  
**Symptom:** CHANGE OF SOFTWARE  
**Cause:** IMPROVEMENT OF INITIAL DATA  
**Cure:** REPLACE IC002 WITH PART NUMBER  
E730144





Model: CL28500TAN COLOUR TELEVISION

Subject: SERVICE INFORMATION  
Fault: UPDATED SOFTWARE FOR IC001  
Symptom: CHANGE OF SOFTWARE  
Cause: IMPROVEMENT  
Cure: REPLACE IC001 WITH PART NUMBER  
E730141

Model: CL28500TAN COLOUR TELEVISION

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF IC001  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF  
MICROPROCESSOR  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A IC001 PT#E730161  
NOTE \* MUST NOT  
BE USED FOR ITALY\*

Model: CL2856TAN 28" NICAM FOR FRANCE

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: CL2856TAN 28" NICAM FOR FRANCE

Subject: TUNER/IF  
Fault: CHANGE OF NICAM LEVEL  
SECTION: IFC NICAM CIRCUIT  
CONDITION: 1  
Symptom: 185  
DEFECT: Y CHANGE OF NICAM LEVEL  
REPAIR: A CHANGE R2120 FROM 33K TO 1K

Model: CL2856TAN 28" NICAM FOR FRANCE

Subject: VERTICAL STAGE  
Fault: IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316 HORIZONTAL LINE  
DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J



Model: CL2856TAN 28" NICAM FOR FRANCE

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART #, IR LED LENS  
SECTION: REM REMOTE SECTION  
CONDITION: 1  
Symptom: 185 MODIFIED IR LENS  
DEFECT: Y  
REPAIR: A PART # FOR MODIFIED IR LENS  
ISX425144

Model: CL2864RA 66cm EXPORT DOLBY

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
Symptom: IC501 P/No T900559 MC44000  
HAS BEEN UPDATED TO T900568 XC44001  
Cause: PRODUCTION CHANGES.  
Cure: IN LATER MODELS THIS VERSION HAS  
ALREADY BEEN FITTED AND DIRECT ONE FOR  
ONE REPLACEMENT CAN BE MADE. HOWEVER  
IF THE ORIGINAL I. C. IS MC44000 THEN  
THE FOLLOWING CHANGES MUST BE MADE. .  
DELETE THE FOLLOWING: R532, 537, 517, 543  
544, 545, & IF FITTED R591 SOLDERED  
BETWEEN THE LEGS OF C590. ALSO DELETE  
C527 & C530 AND IF FITTED GREEN LEAD  
TO THE E/W PCB  
ADD 100nF CAP INTO HOLES OF R517  
ADD A 4n7 CAPACITOR INTO THE HOLES FOR  
C530. ADD A 15mm LEAD FROM THE LEG. . .  
OF THIS CAPACITOR WHICH IS AT THE  
JUNCTION WITH C529 TO THE VACANT HOLE  
C527 AT ITS JUNCTION WITH R517.  
CHANGE R2110 TO 6K8 - THIS MAY BE IN  
POSITION MARKED J2110 ON THE PWB  
ALSO CHANGE THE FOLLOWING ACCORDING TO  
THE SCREEN SIZE. . . . .

Model: CL2864RA 66cm EXPORT DOLBY

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
59 AND 66CM VERSIONS :  
R511 SHOULD BE CHANGED TO 7K5  
R546 SHOULD BE CHANGED TO 4K7  
51CM VERSIONS:  
R511 SHOULD BE CHANGED TO 10K  
R546 SHOULD BE CHANGED TO 5K6  
.....  
WHEN ALL CHANGES HAVE BEEN MADE IT  
WILL BE NECESSARY TO RE-SET AND STORE



ALL GEOMETRY ADJUSTMENTS, DETAILS OF  
WHICH CAN BE FOUND IN THE TECHNICAL  
INFORMATION BOOKLET X830798

Model: CL2864TAN      66CM G10Q T/T NICAM EXP.

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
Symptom: IC501 P/No T900559 MC44000  
HAS BEEN UPDATED TO T900568 XC44001  
Cause: PRODUCTION CHANGES.  
Cure: IN LATER MODELS THIS VERSION HAS  
ALREADY BEEN FITTED AND DIRECT ONE FOR  
ONE REPLACEMENT CAN BE MADE. HOWEVER  
IF THE ORIGINAL I. C. IS MC44000 THEN  
THE FOLLOWING CHANGES MUST BE MADE. .  
DELETE THE FOLLOWING: R532, 537, 517, 543  
544, 545, & IF FITTED R591 SOLDERED  
BETWEEN THE LEGS OF C590. ALSO DELETE  
C527 & C530 AND IF FITTED GREEN LEAD  
TO THE E/W PCB  
ADD 100nF CAP INTO HOLES OF R517  
ADD A 4n7 CAPACITOR INTO THE HOLES FOR  
C530. ADD A 15mm LEAD FROM THE LEG. .

Model: CL2864TAN      66CM G10Q T/T NICAM EXP.

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
OF THIS CAPACITOR WHICH IS AT THE  
JUNCTION WITH C529 TO THE VACANT HOLE  
C527 AT ITS JUNCTION WITH R517.  
CHANGE R2110 TO 6K8 - THIS MAY BE IN  
POSITION MARKED J2110 ON THE PWB  
ALSO CHANGE THE FOLLOWING ACCORDING TO  
THE SCREEN SIZE. . . . .  
59 AND 66CM VERSIONS :  
R511 SHOULD BE CHANGED TO 7K5  
R546 SHOULD BE CHANGED TO 4K7  
51CM VERSIONS:  
R511 SHOULD BE CHANGED TO 10K  
R546 SHOULD BE CHANGED TO 5K6  
.....  
WHEN ALL CHANGES HAVE BEEN MADE IT  
WILL BE NECESSARY TO RE-SET AND STORE  
ALL GEOMETRY ADJUSTMENTS, DETAILS OF  
WHICH CAN BE FOUND IN THE TECHNICAL  
INFORMATION BOOKLET X830798

Model: CL2864TAN      66CM G10Q T/T NICAM EXP.

Subject: Y/C SIGNAL PROCESSING  
Fault: FLASHING OR PULSATING PICTURE/PSU.



Cause: SYMPTOM FLASHING/PULSATING PICTURE/PSU  
Cure: FAULTY CAPACITOR, CHANGED VALUE  
CHECK/REPLACE C927, 470MF, 25V.  
PT. NO. C001541.

Model: CL2886TAN 28" PRO-LOGIC FOR FRANCE

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A PT# E730188

Model: CL2886TAN 28" PRO-LOGIC FOR FRANCE

Subject: TUNING SELECTION  
Fault: INT OR NO RC FUNCTIONS  
SECTION: REM  
CONDITION: 1  
Symptom: 151 INT/NO RC FUNCTIONS  
DEFECT: C IR/LED MOULDING DEFECTIVE  
REPAIR: A REPLACE IR/LED MOULDING WITH  
MODIFIED TYPE.  
PART # X425233 FOR CL25/2886TAN AND  
X425237 FOR CL28WD2TAN AND CL28W1TAN  
IF THE ABOVE DOES NOT WORK, REPLACE  
IR001 PART # T549018 WITH NEW UNIT.

Model: CL2886TAN 28" PRO-LOGIC FOR FRANCE

Subject: TUNER/IF  
Fault: CHANGE OF NICAM LEVEL  
SECTION: IFC NICAM CIRCUIT  
CONDITION: 1  
Symptom: 185  
DEFECT: Y CHANGE OF NICAM LEVEL  
REPAIR: A CHANGE R2120 FROM 33K TO 1K

Model: CL2886TAN 28" PRO-LOGIC FOR FRANCE

Subject: VERTICAL STAGE  
Fault: IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316 HORIZONTAL LINE  
DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J



Model: CL2894 28" 100HZ SEMI TECH

**Subject:** VERTICAL STAGE  
**Fault:** ADDITION OF CAP TO FRAME IC  
**SECTION:** DFL FRAME DEFLECTION  
**CONDITION:** 1  
**Symptom:** 185 CAPACITOR ADDED TO  
 FRAME O/P IC  
**DEFECT:** Z MISSING COMPONENT  
**REPAIR:** A FIT CAPACITOR BETWEEN  
 PINS 8 AND 9 OF ICs1



Model: CL2894 28" 100HZ SEMI TECH

**Subject:** PART NUMBER CHANGES  
**Fault:** CHANGE OF MEMORY ICF1 PART NUMBER  
**SECTION:** SYS SYSTEM CONTROL  
**CONDITION:** 1  
**Symptom:** 185 CHANGE OF MEMORY IC  
**DEFECT:** 1 UPDATED SOFTWARE  
**REPAIR:** A NEW PT# FOR ICF1 IS  
 SAL 37792333



Model: CL2894 28" 100HZ SEMI TECH

**Subject:** PART NUMBER CHANGES  
**Fault:** CHANGE OF MAINS FILTER CAP  
**SECTION:** PSU POWER SUPPLY  
**CONDITION:** 1  
**Symptom:** 18X PART CHANGE  
**DEFECT** 185 CIRCUIT CHANGE  
**REPAIR:** A CAPACITORS C06 TO C09  
 ARE CHANGED TO 1n5 2KV  
 PT# SAI32670976



Model: CL2894 28" 100HZ SEMI TECH

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF FBT  
SECTION: DFL  
CONDITION: 1  
Symptom: 18X FLYBACK TRANSFORMER  
DEFECT A  
REPAIR: A PT# SAL 45360034  
NOTE: SUPPLY TO FRAME O/P IC IS  
REDUCED FROM 16V TO 14V



Model: CL2966TAN 100Hz Pro-logic Text &amp; Ni cam

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** IMPROVEMENT OF PICTURE SATURATION  
**SECTION:** CPA  
**CONDITION:** 1



Symptom: 185 IMPROVEMENT OF SATURATION  
DEFECT: Y  
REPAIR: A CHANGE ZD501, ZD502 AND ZD503  
FROM 5V1 TO 8V2 ZENER PT# T536186

Model: CL2966TAN 100Hz Pro-logic Text &amp; Ni cam

Subject: PART NUMBER CHANGES  
Fault: ADDITION OF NEW CRT BASE  
SECTION: CRT  
CONDITION: 1 ADDITION OF NEW CRT BASE  
Symptom: 18Z  
DEFECT: A  
REPAIR: A PART # FOR NEW CRT BASE IS  
A528050

Model: CL2975TAN 68cm text/A2 &amp; Ncam stereo

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** SPOT BURN ON TUBE  
**Symptom:** PHOSPHOR BURN ON TUBE  
**Cause:** SPOT TOO BRIGHT.  
**Cure:** DELETE TRANSISTOR Q510

Model: CL2986TAN 100Hz Pro-logic Text &amp; Ni cam

Subject: PART NUMBER CHANGES  
Fault: ADDITION OF NEW CRT BASE  
SECTION: CRT  
CONDITION: 1 ADDITION OF NEW CRT BASE  
Symptom: 18Z  
DEFECT: A  
REPAIR: A PART # FOR NEW CRT BASE IS  
A528050

Model : CL2992TAN      Wi descreen from Noki a Germany

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** RESIDUAL SPOT.  
**Symptom:** RESIDUAL SPOT AFTER CHANGING  
 ICH1, ICH2 OR ICH3.  
**Cause:** FAULTY TRANSISTOR.  
**Cure:** REPLACE TRANSISTOR TH1.  
 TRANSISTOR TH1 MAY HAVE BECOME DAMAGED  
 WHEN ICH1, ICH2 OR ICH3 WERE DAMAGED.

Model: CL2992TAN      Wi descreen from Noki a Germany

**Subject:** HORIZONTAL STAGE  
**Fault:** FAILURE OF CAPACITOR CK27  
**Symptom:** CAPACITOR CK27 IS BREAKING  
DOWN UNDER LOAD CONDITIONS.

Cause: CAPACITOR WORKING TOO CLOSE TO TOLERANCE.  
Cure: REPLACE CK27 WITH NEW WIMA TYPE  
390nF 250V PART NUMBER SAL 33450040

Model: CL2992TAN Wi descreen from Nokia Germany

Subject: SERVICE INFORMATION  
Fault: CHANGE OF ICs1  
Symptom: CHANGE OF ICs1.  
Cause: ICs1 CHANGED FROM TYPE  
TDA8350Q-N3 (PT. NO. 3763 1427) TO TYPE  
TDA8350Q-N3/S6 (PT. NO. 3745 0010).  
Cure: REMOVE Rvert, 100R, FROM VERT.  
YOKE & REPLACE WITH 220R, 0. 5W, PT. NO.  
3153 4230 & 330R, 0. 5W, PT. NO. 1221 3706  
IN PARALLEL. SEE OVER.  
NEW IC TYPE TDA8350Q-N3/S6 IS MARKED  
IN THE SAME WAY AS THE PREVIOUS TYPE  
TDA8350Q-N3. THAT IS THEY LOOK  
TOTALLY IDENTICAL. THEY ARE ONLY  
DISTINGUISHABLE BY PART NO.

Model: CL2995TAN 29" 100HZ PRO-LOGIC

Subject: TUNING SELECTION  
Fault: SET STUCK IN STANDBY, IN VCR USE  
Symptom: SET STUCK IN STANDBY, OR NO  
FUNCTIONS FROM R/C  
Cause: LOCK UP OF MICRO PROCESSOR  
Cure: ADD TWO IN4531 DIODES WITH ANODE  
END OF ONE FROM R058 AT THE OPPOSITE  
END TO PIN 5, ONE FROM R057 OPPOSITE  
END TO PIN 6. BOTH CATHODES GO TO THE  
ANODE OF DV04 USING A JUMP LEAD.

Model: CL2995TAN 29" 100HZ PRO-LOGIC

Subject: TUNING SELECTION  
Fault: MEMORY IC 001 PART NUMBER.  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 MEMORY IC 001 PART  
NUMBER  
DEFECT: 1 PROGRAMMING VARIATIONS.  
REPAIR: A MEM IC 001 E730165 IS  
ITALY AND SCAND ONLY

Model: CL2995TAN 29" 100HZ PRO-LOGIC

Subject: TUNING SELECTION  
Fault: SET LOCKS UP IN S/BY MODE ON VCR PB  
Symptom: SET LOCKS UP WHILST IN S/BY

MODE AND VCR PLAY MODE IS SELECTED BEFORE SET IS BROUGHT OUT OF STANDBY MODE WITH HAND SET.

NOTE: TO REPRODUCE FAULT SYMPTOM THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED

- (1) PUT TV IN STANDBY MODE
- (2) SELECT PLAY ON VCR
- (3) SWITCH TV OFF AT ON/OFF SWITCH
- (4) SWITCH TV ON WITH ON/OFF SWITCH



Model: CL2995TAN      29" 100HZ PRO-LOGIC

Subject: TUNING SELECTION

Fault: SET LOCKS UP IN S/BY MODE ON VCR PB AFTER THE ABOVE PROCEDURE, SET IS IN STANDBY MODE BUT NO RESPONSE TO HAND SET,

Cause: MICROPROCESSOR INPUT FROM PIN 8 OF SCART SOCKET IS PULLED LOW IN S/BY

Cure: CONNECT CATHODES OF TWO DIODES TOGETHER. CONNECT ANODE OF ONE DIODE TO JUNCTION OF R1A8 AND R058. CONNECT THE ANODE OF THE OTHER DIODE TO THE JUNCTION OF R057 AND R1B1. USING A LONG JUMPER LEAD, CONNECT THE CATHODES OF THE TWO DIODES TO THE ANODE OF DV04.



Model: CL2995TAN      29" 100HZ PRO-LOGIC

Subject: VERTICAL STAGE

Fault: FAILURE OF FRAME OUTPUT IC  
SECTION: DFL  
CONDITION: 1

Symptom: 11B OR 316

DEFECT: Q I601 SHORT CIRCUIT

REPAIR: A REPLACE I601 AND CARRY OUT FOLLOWING CHANGES.

ADD 47uF 50V CAPACITOR BETWEEN PIN 8 AND GROUND. ADD 470nF CAPACITOR BETWEEN PINS 4 AND 8. ADD BYD33J DIODE AND 10nF CAPACITOR BETWEEN PIN 8 AND 9, ANODE OF DIODE TO PIN 9.



Model: CL2995TAN      29" 100HZ PRO-LOGIC

Subject: HORIZONTAL STAGE

Fault: REPEATED FAILURE OF Q702  
SECTION: DFL  
CONDITION: 1

Symptom: 111 NO POWER

DEFECT: Q Q702 SHORT CIRCUIT

REPAIR: A REPLACE Q702 AND T701  
PT# Q702 2314001, T701 L380118

Model: CL2995TAN 29" 100HZ PRO-LOGIC

Subject: SERVICE INFORMATION  
Fault: UPDATED SOFTWARE OF IC001  
Symptom: CHANGE OF SOFTWARE  
Cause: IMPROVEMENT  
Cure: REPLACE IC001 WITH PART NUMBER  
E730143

Model: CL32WD2TAN 32" WIDE 50HZ PRO-LOGIC

Subject: TUNER/IF  
Fault: CHANGE OF NICAM LEVEL  
SECTION: IFC NICAM CIRCUIT  
CONDITION: 1  
Symptom: 185  
DEFECT: Y CHANGE OF NICAM LEVEL  
REPAIR: A CHANGE R2120 FROM 33K TO 1K

Model: CL32WD2TAN 32" WIDE 50HZ PRO-LOGIC

Subject: HORIZONTAL STAGE  
Fault: TRIPPING IN STANDBY MODE  
SECTION: DFL  
CONDITION: H IN STANDBY MODE ONLY  
Symptom: 11B TRIPPING IN S/BY MODE  
DEFECT: Y  
REPAIR: A CHANGE R750A FROM 33K TO 15K  
ADJUST +B LINE TO 149V

Model: CL32WD2TAN 32" WIDE 50HZ PRO-LOGIC

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART #, IR LED LENS  
SECTION: REM REMOTE SECTION  
CONDITION: 1  
Symptom: 185 MODIFIED IR LENS  
DEFECT: Y  
REPAIR: A PART # FOR MODIFIED IR LENS  
ISX425144

Model: CL32WD2TAN 32" WIDE 50HZ PRO-LOGIC

Subject: SERVICE INFORMATION  
Fault: IMPROVEMENT OF 16:9 COMPRESSION SW  
SECTION: VPA  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: Y  
REPAIR: A R1304 IN 16:9 COMPRESSION  
SWITCH IS CHANGED FROM 10K TO 47K



Model: CL32W2TAN 32" WIDE SCREEN DOLBY

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: CMT2192 COLOUR TELEVISION

Subject: VERTICAL STAGE  
Fault: NO PICTURE, ABNORMAL SOUND  
SECTION: DFL  
CONDITION: 1  
Symptom: 314 NO PICTURE  
DEFECT: Q IC681 SHORT CIRCUIT  
REPAIR: REPLACE IC 681. ADD D610 AND  
D611 TO IC681. CONNECT ANODE OF D610 TO  
PIN 1 OF IC681 AND CATHODE TO PIN 2 OF  
IC681. CONNECT ANODE OF D611 TO PIN 2  
OF IC681 AND CATHODE TO PIN 3 OF IC681  
PART # D610, D611 2337341M TYPE 1SS270A

Model: CMT2192 COLOUR TELEVISION

Subject: SYSTEM CONTROL  
Fault: ESTABLISHMENT OF PT# FOR MEMORY IC  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 ADDITION OF PT #  
DEFECT: Z PRINTING ERROR  
REPAIR: A PART # FOR MEMORY IC :  
TYPE AT24AC04 PT # CP03461  
TYPE S-24C04ADP PT # CP03461A

Model: CMT2998 Colour tv

Subject: POWER SUPPLY  
Fault: NOISE ON PICTURE IN S-VHS MODE  
Symptom: PICTURE NOISE IN THE FORM OF  
DOT PATTERNING CAN BE SEEN IN S-VHS  
MODE(VIDEO 3).  
Cause: POWER SUPPLY NOISE GENERATION.  
Cure: SHORT CIRCUIT FERRITE BEAD FB904  
ON THE POWER SUPPLY PWB ASSY.

Model: CMT2998 Colour tv

Subject: Y/C SIGNAL PROCESSING

Fault: NOISE ON PICTURE IN S-VHS MODE  
Symptom: PICTURE NOISE IN THE FORM OF  
DOT PATTERNING CAN BE SEEN IN S-VHS  
MODE(VIDEO 3).  
Cause: POWER SUPPLY NOISE GENERATION.  
Cure: SHORT CIRCUIT FERRITE BEAD FB904  
ON THE POWER SUPPLY PWB ASSY.

Model: CPT1444 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 46 COLOUR FLASHING ON CHANNEL CHANGE  
CHANGE IC501 CHANGE R726 FROM 630R TO  
560R AND R610 FROM 12K TO 8K2

Model: CPT1444 COLOUR TV

Subject: AUDIO  
Fault No: 1 LINE JITTER  
REPLACE C551 PART NO. 0844107

Model: CPT1444 COLOUR TV

Subject: AUDIO  
Fault No: 62 DISTORTED SOUND  
CHECK R228 IF HIGHER THAN 6R CHANGE.

Model: CPT1444 COLOUR TV

Subject: VERTICAL STAGE  
Fault No: 69 INTERMITTENT FRAME BOUNCE  
CHECK TOP END OF VR601 GOES VIA 82KOHM  
RESISTOR TO 33V RAIL (JUNCTION R204 &  
IC201), NOT 12V RAIL. CHECK 470NFD  
CAPACITOR ACROSS C601, 100NFD  
CAPACITOR ACROSS R601.  
REMOVE C601 & C612 FROM ABOVE PCB AND  
RECONNECT UNDER PCB BETWEEN PIN 1  
& PIN 10 OF IC203. PIN 1 = POSITIVE.  
(C612 FITTED TO LATER VERSIONS ONLY).

Model: CPT1446 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 46 COLOUR FLASHING ON CHANNEL CHANGE  
CHANGE IC501 CHANGE R726 FROM 630R TO  
560R AND R610 FROM 12K TO 8K2

Model: CPT1446 COLOUR TV

Subject: AUDIO



**Fault t No: 62 DISTORTED SOUND**  
**CHECK R228 IF HIGHER THAN 6R CHANGE.**

Model: CPT1446 COLOUR TV

**Subject: VERTICAL STAGE**

**Fault No: 69 INTERMITTENT FRAME BOUNCE**

**CHECK TOP END OF VR601 GOES VIA 82KOHM RESISTOR TO 33V RAIL (JUNCTION R204 & IC201), NOT 12V RAIL. CHECK 470NFD CAPACITOR ACROSS C601, 100NFD CAPACITOR ACROSS R601.**

**REMOVE C601 & C612 FROM ABOVE PCB AND RECONNECT UNDER PCB BETWEEN PIN 1 & PIN 10 OF IC203. PIN 1 = POSITIVE. (C612 FITTED TO LATER VERSIONS ONLY).**

Model : CPT1455                      COLOUR TV

**Subject:** POWER SUPPLY  
**Fault No:** 18 DEAD  
**Symptom:** SET DEAD  
**Cause:** FAILURE OF IC901 AND D901  
**Cure:** REPLACE IC901 PART No 2911171.  
REPLACE D901 WITH TWO SIMILAR DIODES  
IN SERIES. (RM11C) PART No 2335981.  
REFERS TO TECHLINE 602

Model : CPT1455                      COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** BLANK SCREEN.  
**Symptom:** BLANK SCREEN.  
**Cause:** FAULTY SANDCASTLE PULSE.  
**Cure:** RESOLDER DRY JOINTS ON IC601.

Model : CPT1455                      COLOUR TV

Subj ect: AUDIO  
 Faul t No: 54 BUZZ ON SOUND  
 CHANGE R408 FROM 1K TO 220R AND  
 CONNECT A 240PF CAPACITOR IN PARALLEL

Model: CPT1474 COLOUR TV

Subject:	TUNING SELECTION
Fault No:	23 NOT RE-PROGRAMMING(R VERSIONS ONLY)
Symptom:	RE-PROGRAMMING AS PER TECH LINE 620/621 CANNOT BE STORED. DOTS IN LEFT HAND WINDOW.
Cause:	MEMORY CORRUPTED.
Cure:	MEMORY I. C. DESTROYED BEYOND

RECALL. REPLACE I. C. 1502 P/No E730002

Model: CPT1474

COLOUR TV

Subject: TUNER/IF  
Fault No: 32 HERRINGBONE PATTERN  
IF IC201 TYPE TDA4503R1 REPLACE WITH  
TYPE TDA4503 PT NO T900418

Model: CPT1476

COLOUR TV

Subject: TUNING SELECTION  
Fault No: 23 NOT RE-PROGRAMMING(R VERSIONS ONLY)  
Symptom: RE-PROGRAMMING AS PER TECH  
LINE 620/621 CANNOT BE STORED. DOTS IN  
LEFT HAND WINDOW.  
Cause: MEMORY CORRUPTED.  
Cure: MEMORY I. C. DESTROYED BEYOND  
RECALL. REPLACE I. C. 1502 P/No E730002

Model: CPT1476

COLOUR TV

Subject: TUNING SELECTION  
Fault No: 24 TO INCREASE REMOTE CONTROL RANGE  
REMOVE R1521 680K REMOTE CONTROL PCB

Model: CPT1476

COLOUR TV

Subject: TUNING SELECTION  
Fault No: 25 BUZZ ON SOUND  
INCREASE C1516 FROM 47MFD 16V TO  
100MFD 16V PT NO C180946  
REMOVE ZD1504 AND REPLACE WITH 100R  
1/4W PT NO R120330  
FOR CPT1476R CHECK LINK J1506 FITTED  
AND J1552 REMOVED  
FOR CPT1646R CHECK LINK J1552 FITTED  
AND J1506 REMOVED

Model: CPT1476

COLOUR TV

Subject: TUNING SELECTION  
Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1  
Symptom: SET GOES TO STAND BY AFTER 5  
MINUTES, OR , TUNING UP/DOWN BUTTONS  
ACTUATE THE WRONG FUNCTIONS, OR, SET  
WILL NOT TUNE IN, OR, ODD DOTS OR  
CHARACTERS IN THE DISPLAY WINDOW.  
IT IS ALSO POSSIBLE THAT YOU WILL HAVE  
NO TELETEXT OPERATION, OR BUTTONS  
REGISTER INCORRECTLY, I. E. 1 BECOMES 2  
2 - 3 ETC.

**Cause:** CORRUPTED PROGRAMME IN MEMORY  
I. C. (I. C. 1502)  
**Cure:** REPROGRAMME THE MEMORY I. C. AS  
FOLLOWS. (OR OBTAIN TECHLINE 620/621  
FROM HITACHI SERVICE)  
1. YOU WILL NEED THE REMOTE CONTROL  
HANDSET, IF THIS IS NOT AVAILABLE THEN  
YOU SHOULD REPLACE I. C. 1502. THE NEW  
I. C. IS PRE-PROGRAMMED.  
OPEN THE BACK OF THE REMOTE HANDSET.  
YOU WILL NEED TO FORM A SWITCH ACROSS  
TWO PINS OF THE I. C.  
IF THE I. C. IS TYPE SAA1250 PUT A  
SWITCH ACROSS PINS 15 & 23.  
IN OTHER VERSIONS OF THE 4 BATTERY  
TYPE HANDSET PUT YOUR SWITCH ON PINS  
12 & 20.  
CONT. .

Model: CPT1476 COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** SET IN A. V. /WRONG OP-TECHLINE 620/1  
PUSH THE PROGRAMMING SWITCH YOU HAVE  
JUST FITTED ONCE. THE CHANNEL DISPLAY  
SHOULD SHOW : C H  
PUSH THE SWITCH AGAIN AND THE DISPLAY  
SHOULD SHOW : 0 P  
PRESS NUMBER 1 ON THE HANDSET AND THE  
DISPLAY SHOWS: P 1  
CONT. . .  
PRESS THE STANDBY BUTTON ON THE HAND  
SET. THE DISPLAY SHOWS : \_ \_  
OPEN THE FRONT FLAP ON THE T. V. AND  
PRESS AND HOLD THE STORE BUTTON, THEN  
PRESS THE NUMBER 9 ON THE REMOTE HAND  
SET, WHILE STILL HOLDING THE STORE. THE  
SET WILL COME ON ON CHANNEL 9 AND THE  
DISPLAY SHOULD SHOW : 9 (IN THE RIGHT  
HAND WINDOW)  
IF THERE IS NOW A DOT IN THE LEFT HAND  
WINDOW OF THE DISPLAY IT MUST BE  
REMOVED AT THIS POINT. ALSO CHECK FOR  
DOTS ON OTHER CHANNELS AND REMOVE THEM  
ALSO. TO REMOVE THE DOT, SELECT A  
CHANNEL WHICH DOES NOT HAVE A DOT LIT,  
AND PRESS THE STORE BUTTON. FOLLOW  
THIS BY PRESSING THE NUMBER OF THE C  
CHANNEL WHICH DOES HAVE A DOT.  
CONT. . .  
THE DISPLAY FIRST SHOWS TWO FLASHING  
BARS, THEN THE CHANNEL NUMBER YOU HAVE  
JUST PRESSED. REPEAT THE PROCESS FOR  
ALL CHANNELS WITH DOTS.  
IF ALL CHANNELS HAVE DOTS THE MEMORY

I. C. (IC1502) IS DAMAGED AND MUST BE REPLACED.

CONT. . . .

THE NEXT STEP WILL DEPEND UPON WHICH MODEL YOU HAVE.

FOR CPT 1476R & 1646R FOLLOW 1-6

FOR CPT 2198/2598/2596/2196/2578 7-12

THE UNIT HAS A SERIES OF OPTION BYTES AND COMMAND BITS. THE LEFT HAND WINDOW IS THE BYTE NUMBER THE RIGHT HAND HAS THE COMMAND BITS, IT IS THESE YOU SET.



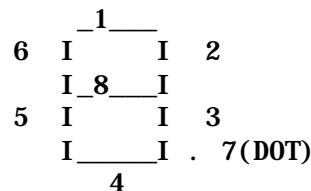
Model: CPT1476

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1

THE BIT NUMBERS IN THE RIGHT HAND DISPLAY WINDOWS ARE AS FOLLOWS



1. PRESS THE PROGRAMMING SWITCH 3 TIMES THE LEFT HAND DISPLAY WINDOW SHOWS THE OPTION BYTE NUMBER 1 IN THE RIGHT HAND WINDOW YOU MUST LIGHT THE FOLLOWING BIT NUMBERS BY PRESSING THE NUMBERS ON THE REMOTE HANDSET. EACH PRESS OF A NUMBER WILL ALTERNATELY LIGHT THEN EXTINGUISH THE BIT.

FOR OPTION BYTE 1 LIGHT BITS 1 & 2

2. PRESS THE PROGRAMMING BUTTON ONCE MORE. THE LEFT HAND DISPLAY WINDOW SHOWS 2. NOW USING THE HANDSET LIGHT BITS 1 & 2 IN THE RIGHT HAND DISPLAY

3. PRESS THE PROGRAMMING BUTTON ONCE, THE LEFT HAND DISPLAY SHOWS 3. NOW USE THE HANDSET TO LIGHT BITS 3 & 5 IN THE RIGHT HAND DISPLAY.

4. PRESS THE PROGRAMMING SWITCH ONCE, SO THAT THE LEFT HAND WINDOW SHOWS 4. NOW USE THE REMOTE HANDSET TO ENSURE THAT NO BITS ARE LIT IN THE RIGHT HAND DISPLAY WINDOW.

5. WHEN ALL ARE CORRECT PRESS THE STAND BY BUTTON ON THE HANDSET TO MEMORISE THESE SETTINGS. SWITCH THE SET BACK ON AND RETUNE.

6. INITIAL VOLUME SHOULD NOW BE RESET. ADJUST THE PRESET VOLUME CONTROL VR1504 TO MID POSITION. ADJUST THE VOLUME TO YOUR DESIRED LEVEL USING THE HANDSET AND PRESS THE STORE BUTTON

IMMEDIATELY.  
THE FOLLOWING PAGES REFER TO THE  
LARGE SCREEN MODELS CPT2198 ETC.

Model: CPT1476

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1  
7. PRESS THE PROGRAMMING SWITCH 3 TIMES  
THE LEFT HAND DISPLAY WINDOW SHOWS 1.  
NOW USING THE HAND SET LIGHT BITS  
1 , 4 , 5 & 7 IN THE RIGHT HAND WINDOW  
8. PRESS THE PROGRAMMING SWITCH ONCE SO  
THE LEFT HAND WINDOW SHOWS 2. NOW USE  
THE HANDSET TO LIGHT BITS 1, 2, 8 & 7  
IN THE RIGHT HAND WINDOW.  
9. PRESS THE PROGRAMMING SWITCH ONCE, SO  
THE LEFT HAND WINDOW SHOWS 3. NOW USE  
THE HANDSET TO LIGHT BIT 3 ONLY IN THE  
RIGHT HAND WINDOW.  
10. PRESS THE PROGRAMMING SWITCH ONCE,  
SO THE LEFT HAND WINDOW SHOWS 4. NOW  
USE THE HANDSET TO LIGHT BIT 6 ONLY IN  
THE RIGHT HAND WINDOW.  
11. NOW PRESS THE STAND BY BUTTON ON  
THE HANDSET TO MEMORISE THESE SETTING.  
12. SWITCH THE SET BACK ON AND TUNE IN

Model: CPT1476

COLOUR TV

Subject: TUNING SELECTION

Fault: UNIT LOSES MEMORY (R VERSIONS ONLY)

Symptom: UNIT LOSSES MEMORY AND HAS TO  
BE REPROGRAMMED REGULARLY.

Cause: MICRO PROCESSOR REACTS TO MAINS  
INTERFERENCE.

Cure: REPLACE I. C. 1501 WITH PART No  
SAL 647008602 TYPE SAA1293-03  
N. B. REFERS TO R VERSIONS OF SET ONLY

Model: CPT1476

COLOUR TV

Subject: TUNER/IF

Fault No: 32 HERRINGBONE PATTERN  
IF IC201 TYPE TDA4503R1 REPLACE WITH  
TYPE TDA4503 PT NO T900418

Model: CPT1476

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: BLANK SCREEN.

Symptom: BLANK SCREEN.

Cause: FAULTY SANDCASTLE PULSE.

Cure: RESOLDER DRY JOINTS ON IC601.

Model: CPT1476

COLOUR TV

Subject: AUDIO

Fault No: 60 BUZZ ON SOUND

INCREASE C1516 FROM 47MFD 16V TO 100MFD  
16V PT NO C180946  
REMOVE ZD1504 AND REPLACE WITH 100R  
1/4W PT NO R120330  
FOR CPT1476R CHECK LINK J1506 FITTED  
AND J1552 REMOVED  
FOR CPT1646R CHECK LINK J1552 FITTED  
AND J1506 REMOVED

Model: CPT1476

COLOUR TV

Subject: SERVICE INFORMATION

Fault: FOR R VERSIONS ONLY - IC1501  
WHEN REPLACING IC1501 USE PT NO  
T900549 (IC TYPE SAA1293-03)  
REDUCE R1517 FROM 1K5 OHMS TO 680  
OHMS.

Model: CPT1556

COLOUR TV. "15"

Subject: TUNING SELECTION

Fault: ID01 SAA1293A-03 PROGRAMMING.

Symptom: MEMORY LOSS.

Cause: CORRUPTION TO MICRO / EEPROM

Cure: FIT ID01 TYPE NO. SAA1293-03,  
PT. NO. SAL 647008602.  
WHEN FITTED THE PROGRAMMING METHOD  
DIFFERS FROM THE ORIGINAL AND  
SHOULD BE DONE AS FOLLOWS. . . . (CONT)  
YOU WILL REQUIRE THE REMOTE CONTROL  
HANDSET. PT. NO. SAL 215101331.  
TO EASE PROGRAMMING, A SWITCH CAN BE  
ADDED TO THE HANDSET.  
CONNECT THE SWITCH BETWEEN PINS  
15 & 23 OF IC1, TYPE SAA1250.  
. . . . (CONT)

SWITCH THE SET ON.  
PUSH THE PROGRAMMING SWITCH ONCE, SO  
THAT THE CHANNEL INDICATOR DISPLAY  
READS "CH", THEN PUSH THE SWITCH A  
SECOND TIME SO THE DISPLAY NOW SHOWS  
"OP". . . . . (CONT).

Model: CPT1556

COLOUR TV. "15"

Subject: TUNING SELECTION



**Fault:** ID01 SAA1293A-03 PROGRAMMING.  
 NOW PRESS THE "VOLUME PLUS" BUTTON TO  
 GO TO OPTION BYTE 1. THE CHANNEL  
 INDICATOR DISPLAY WILL SHOW "1" IN THE  
 LEFT HAND DIGIT WINDOW, AND YOU WILL  
 NEED TO SELECT THE CORRECT BITS IN THE  
 RIGHT HAND WINDOW USING THE CHANNEL  
 BUTTONS ON THE HANDSET.  
 THE BITS ARE NUMBERED THUS.....  
 ..... (CONT).

BIT 1  
 -----  
 BIT 6 I            I BIT 2  
          I BIT 8 I  
 -----  
 BIT 5 I            I BIT 3  
          I            I  
 ----- . BIT 7 (DOT)  
 BIT 4

FOR OPTION BYTE 1 PRESS THE CHANNEL  
 NUMBER BUTTONS ON THE HANDSET TO LIGHT  
 THE FOLLOWING BITS: -  
 5, 7, 8. THEN PRESS STORE BUTTON.  
 PRESS VOLUME PLUS BUTTON TO PROGRESS  
 TO OPTION BYTE 2 AND LIGHT THE BITS: -  
 2, 3. THEN PRESS STORE BUTTON... (CONT)  
 PRESS THE VOLUME PLUS BUTTON TO MOVE  
 ON TO OPTION BYTE 3. THEN LIGHT BIT: -  
 2. THEN PRESS THE STORE BUTTON.  
 PRESS THE VOLUME PLUS BUTTON TO MOVE  
 ON TO OPTION BYTE 4. NOW ENSURE THAT  
 ALL BITS ARE NOT LIT.  
 THEN PRESS THE STORE BUTTON.  
 ..... (CONT)  
 FINALLY SWITCH THE SET TO STANDBY TO  
 EXIT THE PROGRAMMING MODE.  
 SWITCH THE SET BACK ON AND TUNE IN.

**Model:** CPT1556                      **COLOUR TV. "15"**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** POOR / LOW CONTRAST  
 CHECK PF01 FOR O/C

**Model:** CPT1557                      **COLOUR TV. 15" MAINS/BATTERY**

**Subject:** TUNING SELECTION  
**Fault:** ID01 SAA1293A-03 PROGRAMMING.  
**Symptom:** MEMORY LOSS.  
**Cause:** CORRUPTION TO MICRO / EEPROM  
**Cure:** FIT ID01 TYPE NO. SAA1293-03,  
 PT. NO. SAL 647008602.  
 WHEN FITTED THE PROGRAMMING METHOD  
 DIFFERS FROM THE ORIGINAL AND



SHOULD BE DONE AS FOLLOWS. .... (CONT)  
YOU WILL REQUIRE THE REMOTE CONTROL  
HANDSET. PT. NO. SAL 215101331.  
TO EASE PROGRAMMING, A SWITCH CAN BE  
ADDED TO THE HANDSET.  
CONNECT THE SWITCH BETWEEN PINS  
15 & 23 OF IC1, TYPE SAA1250.  
..... (CONT)

SWITCH THE SET ON.  
PUSH THE PROGRAMMING SWITCH ONCE, SO  
THAT THE CHANNEL INDICATOR DISPLAY  
READS "CH", THEN PUSH THE SWITCH A  
SECOND TIME SO THE DISPLAY NOW SHOWS  
"OP". ..... (CONT).



Model: CPT1557 COLOUR TV. 15" MAINS/BATTERY

Subject: TUNING SELECTION

Fault: ID01 SAA1293A-03 PROGRAMMING.

NOW PRESS THE "VOLUME PLUS" BUTTON TO  
GO TO OPTION BYTE 1. THE CHANNEL  
INDICATOR DISPLAY WILL SHOW "1" IN THE  
LEFT HAND DIGIT WINDOW, AND YOU WILL  
NEED TO SELECT THE CORRECT BITS IN THE  
RIGHT HAND WINDOW USING THE CHANNEL  
BUTTONS ON THE HANDSET.  
THE BITS ARE NUMBERED THUS. ....  
..... (CONT).

BIT 1

-----

BIT 6 I I BIT 2

I BIT 8 I

-----

BIT 5 I I BIT 3

I I

-----

. BIT 7 (DOT)

BIT 4

FOR OPTION BYTE 1 PRESS THE CHANNEL  
NUMBER BUTTONS ON THE HANDSET TO LIGHT  
THE FOLLOWING BITS: -

5, 7, 8. THEN PRESS STORE BUTTON.

PRESS VOLUME PLUS BUTTON TO PROGRESS  
TO OPTION BYTE 2 AND LIGHT THE BITS: -  
2, 3. THEN PRESS STORE BUTTON... (CONT)

PRESS THE VOLUME PLUS BUTTON TO MOVE  
ON TO OPTION BYTE 3. THEN LIGHT BIT: -  
2. THEN PRESS THE STORE BUTTON.

PRESS THE VOLUME PLUS BUTTON TO MOVE  
ON TO OPTION BYTE 4. NOW ENSURE THAT  
ALL BITS ARE NOT LIT.

THEN PRESS THE STORE BUTTON.

..... (CONT)

FINALLY SWITCH THE SET TO STANDBY TO  
EXIT THE PROGRAMMING MODE.



SWITCH THE SET BACK ON AND TUNE IN.



Model: CPT1558

COLOUR TV

Subject: TUNING SELECTION

Fault: ID01 SAA1293A-03 PROGRAMMING.

Symptom: MEMORY LOSS.

Cause: CORRUPTION TO MICRO / EEPROM

Cure: FIT ID01 TYPE NO. SAA1293-03,

PT. NO. SAL 647008602.

WHEN FITTED THE PROGRAMMING METHOD

DIFFERS FROM THE ORIGINAL AND

SHOULD BE DONE AS FOLLOWS. .... (CONT)

YOU WILL REQUIRE THE REMOTE CONTROL

HANDSET. PT. NO. SAL 215101331.

TO EASE PROGRAMMING, A SWITCH CAN BE  
ADDED TO THE HANDSET.

CONNECT THE SWITCH BETWEEN PINS

15 & 23 OF IC1, TYPE SAA1250.

..... (CONT)

SWITCH THE SET ON.

PUSH THE PROGRAMMING SWITCH ONCE, SO

THAT THE CHANNEL INDICATOR DISPLAY

READS "CH", THEN PUSH THE SWITCH A

SECOND TIME SO THE DISPLAY NOW SHOWS

"OP"..... (CONT).

NOW PRESS THE "VOLUME PLUS" BUTTON TO

GO TO OPTION BYTE 1. THE CHANNEL

INDICATOR DISPLAY WILL SHOW "1" IN THE

LEFT HAND DIGIT WINDOW, AND YOU WILL

NEED TO SELECT THE CORRECT BITS IN THE

RIGHT HAND WINDOW USING THE CHANNEL

BUTTONS ON THE HANDSET.

THE BITS ARE NUMBERED THUS. ....

..... (CONT).



Model: CPT1558

COLOUR TV

Subject: TUNING SELECTION

Fault: ID01 SAA1293A-03 PROGRAMMING.

BIT 1

-----

BIT 6 I I BIT 2

I BIT8 I

-----

BIT 5 I I BIT 3

I I

-----

. BIT 7 (DOT)

BIT 4

FOR OPTION BYTE 1 PRESS THE CHANNEL

NUMBER BUTTONS ON THE HANDSET TO LIGHT

THE FOLLOWING BITS: -

5, 7, 8. THEN PRESS STORE BUTTON.

PRESS VOLUME PLUS BUTTON TO PROGRESS  
TO OPTION BYTE 2 AND LIGHT THE BITS: -  
2, 3. THEN PRESS STORE BUTTON. . . (CONT)  
PRESS THE VOLUME PLUS BUTTON TO MOVE  
ON TO OPTION BYTE 3. THEN LIGHT BIT: -  
2. THEN PRESS THE STORE BUTTON.  
PRESS THE VOLUME PLUS BUTTON TO MOVE  
ON TO OPTION BYTE 4. NOW ENSURE THAT  
ALL BITS ARE NOT LIT.  
THEN PRESS THE STORE BUTTON.  
..... (CONT)  
FINALLY SWITCH THE SET TO STANDBY TO  
EXIT THE PROGRAMMING MODE.  
SWITCH THE SET BACK ON AND TUNE IN.

Model: CPT1558 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: POOR / LOW CONTRAST  
CHECK PF01 FOR O/C

Model: CPT1646 COLOUR TV

Subject: TUNING SELECTION  
Fault No: 24 TO INCREASE REMOTE CONTROL RANGE  
REMOVE R1521 680K REMOTE CONTROL PCB

Model: CPT1646 COLOUR TV

Subject: TUNING SELECTION  
Fault No: 25 BUZZ ON SOUND  
INCREASE C1516 FROM 47MFD 16V TO  
100MFD 16V PT NO C180946  
REMOVE ZD1504 AND REPLACE WITH 100R  
1/4W PT NO R120330  
FOR CPT1476R CHECK LINK J1506 FITTED  
AND J1552 REMOVED  
FOR CPT1646R CHECK LINK J1552 FITTED  
AND J1506 REMOVED

Model: CPT1646 COLOUR TV

Subject: TUNING SELECTION  
Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1  
Symptom: SET GOES TO STAND BY AFTER 5  
MINUTES, OR , TUNING UP/DOWN BUTTONS  
ACTUATE THE WRONG FUNCTIONS, OR, SET  
WILL NOT TUNE IN, OR, ODD DOTS OR  
CHARACTERS IN THE DISPLAY WINDOW.  
IT IS ALSO POSSIBLE THAT YOU WILL HAVE  
NO TELETEXT OPERATION, OR BUTTONS  
REGISTER INCORRECTLY, I. E. 1 BECOMES 2  
2 - 3 ETC.



**Cause:** CORRUPTED PROGRAMME IN MEMORY  
I. C. (I. C. 1502)

**Cure:** REPROGRAMME THE MEMORY I. C. AS  
FOLLOWS. (OR OBTAIN TECHLINE 620/621  
FROM HITACHI SERVICE)

1. YOU WILL NEED THE REMOTE CONTROL  
HANDSET, IF THIS IS NOT AVAILABLE THEN  
YOU SHOULD REPLACE I. C. 1502. THE NEW  
I. C. IS PRE-PROGRAMMED.

OPEN THE BACK OF THE REMOTE HANDSET.  
YOU WILL NEED TO FORM A SWITCH ACROSS  
TWO PINS OF THE I. C.

IF THE I. C. IS TYPE SAA1250 PUT A  
SWITCH ACROSS PINS 15 & 23.

IN OTHER VERSIONS OF THE 4 BATTERY  
TYPE HANDSET PUT YOUR SWITCH ON PINS  
12 & 20.

CONT. .

PUSH THE PROGRAMMING SWITCH YOU HAVE  
JUST FITTED ONCE. THE CHANNEL DISPLAY  
SHOULD SHOW : C H

PUSH THE SWITCH AGAIN AND THE DISPLAY  
SHOULD SHOW : 0 P

PRESS NUMBER 1 ON THE HANDSET AND THE  
DISPLAY SHOWS: P 1

CONT. . .

Model: CPT1646

COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** SET IN A. V. /WRONG OP-TECHLINE 620/1

PRESS THE STANDBY BUTTON ON THE HAND  
SET. THE DISPLAY SHOWS : \_ \_

OPEN THE FRONT FLAP ON THE T. V. AND  
PRESS AND HOLD THE STORE BUTTON, THEN  
PRESS THE NUMBER 9 ON THE REMOTE HAND  
SET, WHILE STILL HOLDING THE STORE. THE  
SET WILL COME ON ON CHANNEL 9 AND THE  
DISPLAY SHOULD SHOW : 9 (IN THE RIGHT  
HAND WINDOW)

IF THERE IS NOW A DOT IN THE LEFT HAND  
WINDOW OF THE DISPLAY IT MUST BE  
REMOVED AT THIS POINT. ALSO CHECK FOR  
DOTS ON OTHER CHANNELS AND REMOVE THEM  
ALSO. TO REMOVE THE DOT, SELECT A  
CHANNEL WHICH DOES NOT HAVE A DOT LIT,  
AND PRESS THE STORE BUTTON. FOLLOW  
THIS BY PRESSING THE NUMBER OF THE C  
CHANNEL WHICH DOES HAVE A DOT.

CONT. . .

THE DISPLAY FIRST SHOWS TWO FLASHING  
BARS, THEN THE CHANNEL NUMBER YOU HAVE  
JUST PRESSED. REPEAT THE PROCESS FOR  
ALL CHANNELS WITH DOTS.

IF ALL CHANNELS HAVE DOTS THE MEMORY

I. C. (IC1502) IS DAMAGED AND MUST BE REPLACED.

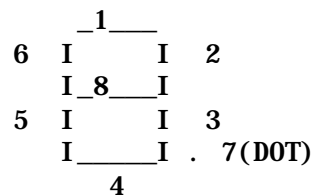
CONT. . . .

THE NEXT STEP WILL DEPEND UPON WHICH MODEL YOU HAVE.

FOR CPT 1476R & 1646R FOLLOW 1-6

FOR CPT 2198/2598/2596/2196/2578 7-12

THE UNIT HAS A SERIES OF OPTION BYTES AND COMMAND BITS. THE LEFT HAND WINDOW IS THE BYTE NUMBER THE RIGHT HAND HAS THE COMMAND BITS, IT IS THESE YOU SET. THE BIT NUMBERS IN THE RIGHT HAND DISPLAY WINDOWS ARE AS FOLLOWS



Model: CPT1646

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1

1. PRESS THE PROGRAMMING SWITCH 3 TIMES THE LEFT HAND DISPLAY WINDOW SHOWS THE OPTION BYTE NUMBER 1 IN THE RIGHT HAND WINDOW YOU MUST LIGHT THE FOLLOWING BIT NUMBERS BY PRESSING THE NUMBERS ON THE REMOTE HANDSET. EACH PRESS OF A NUMBER WILL ALTERNATELY LIGHT THEN EXTINGUISH THE BIT.

FOR OPTION BYTE 1 LIGHT BITS 1 & 2

2. PRESS THE PROGRAMMING BUTTON ONCE MORE. THE LEFT HAND DISPLAY WINDOW SHOWS 2. NOW USING THE HANDSET LIGHT BITS 1 & 2 IN THE RIGHT HAND DISPLAY

3. PRESS THE PROGRAMMING BUTTON ONCE, THE LEFT HAND DISPLAY SHOWS 3. NOW USE THE HANDSET TO LIGHT BITS 3 & 5 IN THE RIGHT HAND DISPLAY.

4. PRESS THE PROGRAMMING SWITCH ONCE, SO THAT THE LEFT HAND WINDOW SHOWS 4. NOW USE THE REMOTE HANDSET TO ENSURE THAT NO BITS ARE LIT IN THE RIGHT HAND DISPLAY WINDOW.

5. WHEN ALL ARE CORRECT PRESS THE STAND BY BUTTON ON THE HANDSET TO MEMORISE THESE SETTINGS. SWITCH THE SET BACK ON AND RETUNE.

6. INITIAL VOLUME SHOULD NOW BE RESET. ADJUST THE PRESET VOLUME CONTROL VR1504 TO MID POSITION. ADJUST THE VOLUME TO YOUR DESIRED LEVEL USING THE HANDSET AND PRESS THE STORE BUTTON

IMMEDIATELY.

THE FOLLOWING PAGES REFER TO THE  
LARGE SCREEN MODELS CPT2198 ETC.

7. PRESS THE PROGRAMMING SWITCH 3 TIMES  
THE LEFT HAND DISPLAY WINDOW SHOWS 1.  
NOW USING THE HAND SET LIGHT BITS  
1 , 4 , 5 & 7 IN THE RIGHT HAND WINDOW  
8. PRESS THE PROGRAMMING SWITCH ONCE SO  
THE LEFT HAND WINDOW SHOWS 2. NOW USE  
THE HANDSET TO LIGHT BITS 1, 2, 8 & 7  
IN THE RIGHT HAND WINDOW.



Model: CPT1646

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1

9. PRESS THE PROGRAMMING SWITCH ONCE, SO  
THE LEFT HAND WINDOW SHOWS 3. NOW USE  
THE HANDSET TO LIGHT BIT 3 ONLY IN THE  
RIGHT HAND WINDOW.

10. PRESS THE PROGRAMMING SWITCH ONCE,  
SO THE LEFT HAND WINDOW SHOWS 4. NOW  
USE THE HANDSET TO LIGHT BIT 6 ONLY IN  
THE RIGHT HAND WINDOW.

11. NOW PRESS THE STAND BY BUTTON ON  
THE HANDSET TO MEMORISE THESE SETTING.

12. SWITCH THE SET BACK ON AND TUNE IN



Model: CPT1646

COLOUR TV

Subject: TUNING SELECTION

Fault: UNIT LOSES MEMORY (R VERSIONS ONLY)

Symptom: UNIT LOSSES MEMORY AND HAS TO  
BE REPROGRAMMED REGULARLY.

Cause: MICRO PROCESSOR REACTS TO MAINS  
INTERFERENCE.

Cure: REPLACE I. C. 1501 WITH PART No  
SAL 647008602 TYPE SAA1293-03  
N. B. REFERS TO R VERSIONS OF SET ONLY



Model: CPT1646

COLOUR TV

Subject: TUNER/IF

Fault: REPLACEMENT TUNER DIFFERENT.

Symptom: REPLACEMENT TUNER HAS PHONO  
CONNECTOR.

Cause: TUNER SUPERCESSION.

Cure: FIT ADAPTOR. PT. NO. 2982531.



Model: CPT1646

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: BLANK SCREEN.

# HITACHI

Symptom: BLANK SCREEN.  
Cause: FAULTY SANDCASTLE PULSE.  
Cure: RESOLDER DRY JOINTS ON IC601.

Model: CPT1646 COLOUR TV

Subject: AUDIO  
Fault No: 60 BUZZ ON SOUND  
INCREASE C1516 FROM 47MFD 16V TO 100MFD  
16V PT NO C180946  
REMOVE ZD1504 AND REPLACE WITH 100R  
1/4W PT NO R120330  
FOR CPT1476R CHECK LINK J1506 FITTED  
AND J1552 REMOVED  
FOR CPT1646R CHECK LINK J1552 FITTED  
AND J1506 REMOVED

Model: CPT1646 COLOUR TV

Subject: SERVICE INFORMATION  
Fault: FOR R VERSIONS ONLY - IC1501  
WHEN REPLACING IC1501 USE PT NO  
T900549 (IC TYPE SAA1293-03)  
REDUCE R1517 FROM 1K5 OHMS TO 680  
OHMS.

Model: CPT2036 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 51 NO RASTER  
CHECK SANDCASTLE PULSE IF MISSING  
CHANGE Q551 PT NO T631275 AND Q552 PT  
NO T631276

Model: CPT2036 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 52 NO RASTER  
CHECK VOLTAGE A1 ON CRT BASE IF LOW  
CHECK S9 851 S/C OR C814 C815 PT NO  
E884103 S/C

Model: CPT2036 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 53 BRIGHT PICTURE FLYBACK LINES  
CHECK 200 VOLT SUPPLY TO CRT BASE IF  
LOW CHECK R715 PT NO R200551 HIGH OR  
O/C





Model : CPT2036 COLOUR TV

Subject: VERTICAL STAGE  
Fault No: 70 FRAME ROLL  
CHANGE R748 FROM 82KOHM TO 68KOHM

Model: CPT2036 COLOUR TV

Subj ect: HORIZONTAL STAGE  
Fault No: 2 INTERMITTENT STANDBY  
CHANGE C729 FROM 10 MED TO 100 MED

Model: CPT2044 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 5 NOT GOING INTO STANDBY  
CHECK D912 PT NO 233459 LEAKY

Model: CPT2044 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 52 NO RASTER  
CHECK VOLTAGE A1 ON CRT BASE IF LOW  
CHECK S9 851 S/C OR C814 C815 PT NO  
E884103 S/C

Model: CPT2044 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 53 BRIGHT PICTURE FLYBACK LINES  
CHECK 200 VOLT SUPPLY TO CRT BASE IF  
LOW CHECK R715 PT NO R200551 HIGH OR  
O/C

Model: CPT2044 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault No: 2 INTERMITTENT STANDBY  
CHANGE C729 FROM 10 MED TO 100 MED

Model: CPT2044 COLOUR TV

**Subject: SERVICE INFORMATION**  
**Fault: INCORRECT PART NUMBER**  
**CORRECT PART NUMBER FOR C906 IS**  
**J0259930**

Model : CPT2046 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 5 NOT GOING INTO STANDBY

CHECK D912 PT NO 233459 LEAKY

Model: CPT2046

COLOUR TV

Subject: POWER SUPPLY

Fault No: 20 NOT GOING INTO STANDBY

CHECK Q1431 PT NO 2324323 D912 PT NO  
2334591 REFER TECHLINE 597

Model: CPT2046

COLOUR TV

Subject: TUNING SELECTION

Fault No: 26 WRONG DISPLAY AND FUNCTIONS

CHECK 5V SUPPLY CITAC PCB CHECK FS1401

Model: CPT2046

COLOUR TV

Subject: TUNING SELECTION

Fault: NO SOUND / PICTURE

Symptom: THE SET APPEARS TO HAVE SHUT  
DOWN, BUT THE CHANNEL IDENT REMAINS ON

Cause: ESD DISCHARGE.

Cure: DELETE DIODES ZD1508 & ZD1509.  
ADD A CAPACITOR 22nF FROM PIN 28 OF IC  
1501 AND GROUND.

Model: CPT2046

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault No: 47 POOR SYNC NO TUNING LOCK

REPLACE R747 PT NO R120330

Model: CPT2046

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault No: 52 NO RASTER

CHECK VOLTAGE A1 ON CRT BASE IF LOW

CHECK S9 851 S/C OR C814 C815 PT NO

E884103 S/C

Model: CPT2046

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault No: 53 BRIGHT PICTURE FLYBACK LINES

CHECK 200 VOLT SUPPLY TO CRT BASE IF

LOW CHECK R715 PT NO R200551 HIGH OR

O/C



Model: CPT2046 COLOUR TV

Subj ect: HORIZONTAL STAGE  
Fault No: 1 LINE JITTER  
REPLACE C551 PART NO. 0844107

Model: CPT2048 COLOUR TV

Subj ect: POWER SUPPLY  
 Fault No: 5 NOT GOING INTO STANDBY  
 CHECK D912 PT NO 233459 LEAKY

Model: CPT2048 COLOUR TV

Subj ect: POWER SUPPLY  
 Fault No: 20 NOT GOING INTO STANDBY  
 CHECK Q1431 PT NO 2324323 D912 PT NO  
 2334591 REFER TECHLINE 597

Model: CPT2048 COLOUR TV

Subject: TUNING SELECTION  
Fault No: 26 WRONG DISPLAY AND FUNCTIONS  
CHECK 5V SUPPLY CITAC PCB CHECK FS1401

Model: CPT2048 COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** NO SOUND / PICTURE  
**Symptom:** THE SET APPEARS TO HAVE SHUT  
DOWN, BUT THE CHANNEL IDENT REMAINS ON  
**Cause:** ESD DISCHARGE.  
**Cure:** DELETE DIODES ZD1508 & ZD1509.  
ADD A CAPACITOR 22nF FROM PIN 28 OF IC  
1501 AND GROUND.

Model: CPT2048 COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault No:** 47 POOR SYNC NO TUNING LOCK  
REPLACE R747 PT NO R120330

Model : CPT2066 COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** LINE PULLING AT TOP ON VCR PLAY  
**Symptom:** LINE PULLING AT TOP OF  
PICTURE WHILE PLAYING VIDEO TAPES.  
**Cause:** LOW / OPEN CIRCUIT CAPACITOR.  
**Cure:** CHECK / REPLACE C202 1uF 50V  
PART NUMBER 0253085. FROM PIN 22 OF

## IC201 - COINCIDENCE DETECTOR

Model: CPT2068

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: LINE PULLING AT TOP ON VCR PLAY

Symptom: LINE PULLING AT TOP OF  
PICTURE WHILE PLAYING VIDEO TAPES.

Cause: LOW / OPEN CIRCUIT CAPACITOR.

Cure: CHECK / REPLACE C202 1uF 50V  
PART NUMBER 0253085, FROM PIN 22 OF  
IC201 - COINCIDENCE DETECTOR

Model: CPT2076

COLOUR TV

Subject: TUNING SELECTION

Fault No: 26 WRONG DISPLAY AND FUNCTIONS  
CHECK 5V SUPPLY CITAC PCB CHECK FS1401

Model: CPT2076

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault No: 53 BRIGHT PICTURE FLYBACK LINES  
CHECK 200 VOLT SUPPLY TO CRT BASE IF  
LOW CHECK R715 PT NO R200551 HIGH OR  
O/C

Model: CPT2078

COLOUR TV 20"

Subject: TUNING SELECTION

Fault No: 26 WRONG DISPLAY AND FUNCTIONS  
CHECK 5V SUPPLY CITAC PCB CHECK FS1401

Model: CPT2128

COLOUR TV

Subject: POWER SUPPLY

Fault No: 14 DEAD SET  
REPLACE Q901 - CHANGE C914 FROM 2.2MF  
TO 10MF PT NO C170955  
ADD A 2R70HM RESISTOR PT NO R207330 IN  
PARALLEL WITH R906 AND R906A

Model: CPT2128

COLOUR TV

Subject: POWER SUPPLY

Fault No: 19 INTERMITTENT DEAD

Symptom: SET INTERMITTENT DEAD.

Cause: RESISTORS & CAP BREAK DOWN UNDER  
LOAD CONDITIONS

Cure: REPLACE R919, 920, 931, 932 & C912  
(THESE MAY MEASURE CORRECTLY ON COLD)



CHECKS WITH A METER)  
(SEE ALSO TECHLINE 634)

Model: CPT2128 COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTENT CUT OUT  
Symptom: INTERMITTANT NON OPERATION  
FROM COLD &/OR DEAD SET  
Cause: CAPACITOR GOES O/C  
Cure: REPLACE C912

Model: CPT2128 COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD OR INTERMITTANT DEAD  
REPLACE R919, R920, R931, R932, AND  
C912

Model: CPT2138 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 14 DEAD SET  
REPLACE Q901 - CHANGE C914 FROM 2.2MF  
TO 10MF PT NO C170955  
ADD A 2R70HM RESISTOR PT NO R207330 IN  
PARALLEL WITH R906 AND R906A

Model: CPT2138 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 19 INTERMITTENT DEAD  
Symptom: SET INTERMITTANT DEAD.  
Cause: RESISTORS & CAP BREAK DOWN UNDER  
LOAD CONDITIONS  
Cure: REPLACE R919, 920, 931, 932 & C912  
(THESE MAY MEASURE CORRECTLY ON COLD  
CHECKS WITH A METER)  
(SEE ALSO TECHLINE 634)

Model: CPT2138 COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET  
REPLACE Q901 (BUT11AF) PART NO\*T636035  
WITH HITACHI SUPPLIED PARTS ONLY. CHECK  
R901 PART NO 0141175 AND MAIN FUSE  
F5701, PART NO 2721292, FOR OPEN  
CIRCUIT. REPLACE AS NECESSARY.  
ON EARLIER MODELS C914 IS 2.2 UF. THIS  
SHOULD BE UPDATED TO 10 UF PART NO  
080018R AND A 2.7 OHM RESISTOR SHOULD



BE FITTED IN PARALLEL WITH R906 AND R906A, PART NO R207330.  
PLEASE NOTE: BUT11AF SUPPLIED BY HITACHI ARE SPECIALLY SELECTED AND ARE THE ONLY PARTS TO BE USED IN THESE MODELS.  
ALTERNATIVELY SOURCED PARTS MAY FAIL WITHIN A SHORT PERIOD OF TIME.  
\*PLEASE SEE TECH LINE BULLETIN NO. 627



Model: CPT2138 COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD OR INTERMITTANT DEAD  
REPLACE R919, R920, R931, R932, AND C912



Model: CPT2138 COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET, C919 PHYSICALLY CRACKED.  
Symptom: SET DEAD.  
Cause: C919 PHYSICALLY CRACKED  
Cure: REPLACE C919 WITH 2 X 2N2F 2.2KV  
WORKING PART NUMBER J0244215



Model: CPT2138 COLOUR TV

Subject: AUDIO  
Fault No: 55 SIBILANCE  
Symptom: SIBILANCE.  
Cause: TOP END EMPHASIS  
Cure: CHANGE R402 FROM 100R TO 2K7  
CHANGE C406 FROM 47nF TO 22nF  
CONNECT THE NON EARTHED END TO R402 AT THE JUNCTION WITH C315 & C316.  
CHANGE C415 & 418 FROM 22nF TO 68nF



Model: CPT2158 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 16 SET GOES INTO STANDBY AFTER 5 MINS  
IC1101 PT NO 2913241 OR Q1142 PT NO T631275 OR IN AREA OF D1141 D1142



Model: CPT2158 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 17 SET TRIPS OR DEAD  
R945 R946 DRY JOINT OR HIGH RESISTANCE





Model: CPT2158 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 63 LOW FRAME  
SEE TECH LINE 618. NB ONLY 4Y VERSION  
AVAILABLE. MODIFICATION REQUIRED WHEN  
REPLACING WITH DIFFERENT TYPE.

Model: CPT2158 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 68 NO SYNC IN TEXT OR TV MODE  
IC 2203 PT NO T900380

Model: CPT2158 COLOUR TV

Subject: POWER SUPPLY

Fault No: 77 POOR PICTURE SYNC IN TRICK PLAYBACK  
FIT 12K RES BETWEEN 12V LINE AND PIN  
22 IC201. ALSO FIT 4700HM RES FROM  
PIN 22 TO EARTH.

Model : CPT2158 COLOUR TV

Subject: TUNER/IF  
Fault No: 27 WEAK AFC  
CHECK TECH LINE 618. NB ONLY 4Y  
VERSION AVAILABLE WITH MODIFICATION  
KIT OF SPARES PART NO T900440, THIS  
CONVERTS THE 2Y VERSIONS TO ALLOW  
THE 4Y VERSION TO BE FITTED>

Model: CPT2158 COLOUR TV

**Subject:** TUNER/IF  
**Fault No:** 31 CHANNEL DRIFT  
SEE TECH LINE 618. ONLY 4Y VERSION NOW  
AVAILABLE. ENSURE MODIFICATION IS  
CARRIED OUT.

Model: CPT2158 COLOUR TV

Subj ect: Y/C SIGNAL PROCESSING

Fault No: 49 VERTICAL LINES (ROPING) 1.5IN APART  
SHORT CCT. THE EARTH PRINTS OF THE  
TUNER AND TEXT BOARD. AN IDEAL  
POSITION IS ON THE CORNER OF THE PCB  
UNDER THE TUNER



Model: CPT2158 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 50 HORIZONTAL BLACK LINES WHEN COLD  
IC1301 FAULTY

Model: CPT2158 COLOUR TV

Subj ect: AUDIO  
 Faul t No: 61 BUZZ ON SOUND  
 FRAME PICK-UP. FIT SHORTING LINK FROM  
 PIN 1 IC601 TO -VE SIDE OF C713.

Model : CPT2158 COLOUR TV

Subject: VERTICAL STAGE  
Fault No: 63 LOW FRAME  
SEE TECH LINE 618. NB ONLY 4Y VERSION  
AVAILABLE. MODIFICATION REQUIRED WHEN  
REPLACING WITH DIFFERENT TYPE.

Model: CPT2158 COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** FRAME COLLAPSE  
**Symptom:** FRAME COLLAPSE  
**Cause:** LEAKY CAPACITOR  
**Cure:** CHECK / REPLACE C607 47nF  
PART NUMBER C447715

Model: CPT2158 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault No: 71 NO SYNC IN TEXT OR TV MODE  
IC 2203 PT NO T900380

Model : CPT2158 COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** LINE PULLING AT TOP ON VCR PLAY  
**Symptom:** LINE PULLING AT TOP OF  
PICTURE WHILE PLAYING VIDEO TAPES.  
**Cause:** LOW / OPEN CIRCUIT CAPACITOR.  
**Cure:** CHECK / REPLACE C202 1uF 50V  
PART NUMBER 0253085, FROM PIN 22 OF  
IC201 - COINCIDENCE DETECTOR

Model: CPT2158 COLOUR TV

Subject: TELETEXT  
Fault No: 78 TEXT CORRUPTION (EARLY MODELS)



# HITACHI

SEE TECH LINE 604  
REMOVE L205 AND L007. S/C C010  
ADD 68PFD CAP AND 10MH COIL (BOTH IN  
SERIES) ACROSS (IN PARALLEL) R222 ADJ.  
IF CORE FOR BEST TEXT (NORMALLY THIS  
IS JUST BEYOND THREE TURNS FROM THE  
BOTTOM  
PT NOS 68MF CAP 02486803  
10MH COIL L420130

Model: CPT2174 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 12 SCREECH IN STANDBY  
REPLACE C933 33PF WITH 100PF  
PT NO C120182

Model: CPT2174 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 15 DEAD  
DISCONNECT L795 TO ISOLATE LINE OUTPUT  
STAGE IF POWER SUPPLY WILL RUN OK  
CHECK T761 ZD752 ZD753

Model: CPT2174 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 66 LACK OF HEIGHT  
CP901 PT NO 2371675  
C611 PT NO 0276835F

Model: CPT2174 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 67 TOP PIC DISTORTED & LIGHT HORIZ BAR  
CP901 PT NO 2371675  
NB HT VOLTAGE IS VERY CRITICAL

Model: CPT2174 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 76 TOP OF PICTURE PULLING ON VCR  
REFER TO TECHLINE 612 MODIFY VALUE OF  
R706 AND R716

Model: CPT2174 COLOUR TV

Subject: POWER SUPPLY  
Fault: WHISTLE FORM POWER SUPPLY  
SECTION: PSU

CONDITION: 1

Symptom: 144 NOISEY TRANSFORMER  
DEFECT: A LOW CAPACITANCE  
REPAIR: A REPLACE C909 WITH  
270uF PT. # 0258609

Model: CPT2174 COLOUR TV

Subject: TUNER/IF  
Fault No: 30 DIFTING  
IF TUNER IS TYPE BY21 BY21A OR BY22  
PLEASE REPLACE WITH PT NO E710019  
NB THIS ONLY APPLIES WHEN MULLARD  
TUNER IS USED  
EARLY TYPE ET568A TUNER AND MULLARD  
TYPE ARE NOT INTERCHANGEABLE

Model: CPT2174 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 40 POOR ON SCREEN DISPLAY  
REPLACE Q858 PT NO 2321992

Model: CPT2174 COLOUR TV

Subject: AUDIO  
Fault No: 56 DISTORTED SOUND  
CHECK FEEDBACK LOOP R401 C401 AND  
ASSOCIATED PRINTED CIRCUIT

Model: CPT2174 COLOUR TV

Subject: VERTICAL STAGE  
Fault No: 65 LINES AT BOTTOM OF SCREEN  
C686 PT NO 0274755R

Model: CPT2174 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault No: 73 DEAD  
DISCONNECT L795 TO ISOLATE LINE OUTPUT  
STAGE IF POWER SUPPLY WILL RUN OK  
CHECK T761 ZD752 ZD753

Model: CPT2176 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 12 SCREECH IN STANDBY  
REPLACE C933 33PF WITH 100PF  
PT NO C120182

Model: CPT2176

COLOUR TV

Subject: POWER SUPPLY

Fault No: 13 INTERMITTENT GOES TO STANDBY  
REPLACE IC1101 PT NO 2915081/2915082  
REPLACE Q904 PT NO 2323271  
REPLACE Q905 PT NO 2320596  
REPLACE IC501 PT NO 2913612  
NB1 PT NO 2915081 (M50432-551SP) IS  
NOT INTERCHANGEABLE WITH PT NO  
2915082 (M50432-552SP)  
NB2 THIS FAULT CAN ALSO BE CAUSED BY  
CRT FLASHOVER REFER TO TECH LINE 619

Model: CPT2176

COLOUR TV

Subject: POWER SUPPLY

Fault No: 15 DEAD  
DISCONNECT L795 TO ISOLATE LINE OUTPUT  
STAGE IF POWER SUPPLY WILL RUN OK  
CHECK T761 ZD752 ZD753

Model: CPT2176

COLOUR TV

Subject: POWER SUPPLY

Fault No: 21 ON SWITCH ON NORMALISE LEVELS WRONG  
PLEASE REFER TO TECH LINE 607

Model: CPT2176

COLOUR TV

Subject: POWER SUPPLY

Fault No: 59 VOLUME WILL NOT ADJUST  
Q1108 PT NO 2320596

Model: CPT2176

COLOUR TV

Subject: POWER SUPPLY

Fault No: 65 LINES AT BOTTOM OF SCREEN  
C686 PT NO 0274755R

Model: CPT2176

COLOUR TV

Subject: POWER SUPPLY

Fault No: 67 TOP PIC DISTORTED & LIGHT HORIZ BAR  
CP901 PT NO 2371675  
NB HT VOLTAGE IS VERY CRITICAL

Model: CPT2176

COLOUR TV

Subject: POWER SUPPLY



**Fault No: 73 DEAD**  
**DISCONNECT L795 TO ISOLATE LINE OUTPUT**  
**STAGE IF POWER SUPPLY WILL RUN OK**  
**CHECK T761 ZD752 ZD753**

Model: CPT2176 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 76 TOP OF PICTURE PULLING ON VCR  
REFER TO TECHLINE 612 MODIFY VALUE OF  
R706 AND R716

Model: CPT2176 COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: WHISTLE FORM POWER SUPPLY**  
**SECTION: PSU**  
**CONDITION: 1**  
**Symptom: 144 NOISEY TRANSFORMER**  
**DEFECT: A LOW CAPACITANCE**  
**REPAIR: A REPLACE C909 WITH**  
**270uF PT. # 0258609**

Model: CPT2176 COLOUR TV

**Subject: TUNING SELECTION**  
**Fault No: 21 ON SWITCH ON NORMALISE LEVELS WRONG**  
**PLEASE REFER TO TECH LINE 607**

Model : CPT2176 COLOUR TV

Subject: TUNER/IF  
Fault No: 30 DIFTING  
IF TUNER IS TYPE BY21 BY21A OR BY22  
PLEASE REPLACE WITH PT NO E710019  
NB THIS ONLY APPLIES WHEN MULLARD  
TUNER IS USED  
EARLY TYPE ET568A TUNER AND MULLARD  
TYPE ARE NOT INTERCHANGEABLE

Model : CPT2176                      COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 33 RED OR GREEN CREEPING FROM SIDE  
IC1104 PT NO 2915091

Model: CPT2176 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 34 FULL BRIGHTNESS RED OR GREEN RASTER  
IC1104 PT NO 2915091

Model: CPT2176 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 36 WEAK PICTURE LACKS CONTRAST  
IC1104 2915092  
Q1112 2320596  
D1120 T531053

Model: CPT2176 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 37 BRIGHT WHITE RASTER  
Q301 PT NO 2320637  
Q302 PT NO 2320596

Model: CPT2176 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 38 ON SWITCH ON NORMALISE LEVELS WRONG  
PLEASE REFER TO TECH LINE 607

Model: CPT2176 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 42 WEAK PICTURE CAN LOOK LIKE FLAT CRT  
IC1104 PT NO 2915091  
Q1112 PT NO 2320596  
D1120 PT NO T531053

Model: CPT2176 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 44 CHROMA OK BUT WEAK OR NO LUMINANCE  
Q1112 PT NO 2320596  
D1120 PT NO T531053  
IC1104 PT NO 2915091 FOR 2176 2476  
IC1104 PT NO 2915092 FOR 2178 2478

Model: CPT2176 COLOUR TV

Subject: AUDIO  
Fault No: 56 DISTORTED SOUND  
CHECK FEEDBACK LOOP R401 C401 AND  
ASSOCIATED PRINTED CIRCUIT

Model: CPT2176 COLOUR TV

Subject: AUDIO

Fault No: 58 BUZZ ON SOUND WHEN USING VCR  
REPLACE R224 68K WITH 18K  
PT NO J0187095M

Model: CPT2176 COLOUR TV

Subject: VERTICAL STAGE  
Fault No: 66 LACK OF HEIGHT  
CP901 PT NO 2371675  
C611 PT NO 0276835F

Model: CPT2176 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault No: 72 INTERMITTENT GOES TO STANDBY  
REPLACE IC1101 PT NO 2913561  
REPLACE Q904 PT NO 2323271  
REPLACE Q905 PT NO 2320596  
REPLACE IC501 PT NO 2913612  
NB THIS FAULT CAN ALSO BE CAUSED BY  
CRT FLASHOVER REFER TO TECH LINE 619

Model: CPT2176 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: FLARES BRIGHT WHITE, THEN SHUTS OFF  
Symptom: PICTURE FLARES UP BRIGHT  
WHITE, MAY FLASH OVER, THEN SHUTS DOWN  
Cause: INTERMITTENT REGULATOR.  
Cure: CHECK / REPLACE Q791 12V REG  
PART NUMBER : 2324611

Model: CPT2178 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 12 SCREECH IN STANDBY  
REPLACE C933 33PF WITH 100PF  
PT NO C120182

Model: CPT2178 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 13 INTERMITTENT GOES TO STANDBY  
REPLACE IC1101 PT NO 2915081/2915082  
REPLACE Q904 PT NO 2323271  
REPLACE Q905 PT NO 2320596  
REPLACE IC501 PT NO 2913612  
NB1 PT NO 2915081 (M50432-551SP) IS  
NOT INTERCHANGEABLE WITH PT NO  
2915082 (M50432-552SP)  
NB2 THIS FAULT CAN ALSO BE CAUSED BY  
CRT FLASHOVER REFER TO TECH LINE 619

Model: CPT2178 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 15 DEAD  
DISCONNECT L795 TO ISOLATE LINE OUTPUT  
STAGE IF POWER SUPPLY WILL RUN OK  
CHECK T761 ZD752 ZD753

Model: CPT2178 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 59 VOLUME WILL NOT ADJUST  
Q1108 PT NO 2320596

Model: CPT2178 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 66 LACK OF HEIGHT  
CP901 PT NO 2371675  
C611 PT NO 0276835F

Model: CPT2178 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 67 TOP PIC DISTORTED & LIGHT HORIZ BAR  
CP901 PT NO 2371675  
NB HT VOLTAGE IS VERY CRITICAL

Model: CPT2178 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 73 DEAD  
DISCONNECT L795 TO ISOLATE LINE OUTPUT  
STAGE IF POWER SUPPLY WILL RUN OK  
CHECK T761 ZD752 ZD753

Model: CPT2178 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 76 TOP OF PICTURE PULLING ON VCR  
REFER TO TECHLINE 612 MODIFY VALUE OF  
R706 AND R716

Model: CPT2178 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 80 TOP LINE OK NO OTHER TEXT  
ICZ102 PT NO T900433



Model: CPT2178 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 81 NO SYNC ON TEXT  
ICZ108 PT NO T900438  
ICZ102 PT NO T900433

Model: CPT2178 COLOUR TV

Subj ect:	POWER SUPPLY
Fault No:	82 TOP LINE CORRUPT NO OTHER TEXT
	IC Z102 PT NO T900433
	IC Z105 PT NO T900436
	IC Z106 PT NO T900436

Model: CPT2178 COLOUR TV

Subj ect: POWER SUPPLY  
 Fault No: 83 WILL NOT SELECT TEXT  
 IC1101 PT NO 2913561  
 ICZ104 PT NO T900443  
 ICZ109 PT NO T900439

Model: CPT2178 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 84 MISSING SUB PAGES  
INCORRECT USAGE OF SYSTEM PLEASE  
REFER TO TECH LINE 616

Model: CPT2178 COLOUR TV

Subject: TUNER/IF  
Fault No: 30 DIFTING  
IF TUNER IS TYPE BY21 BY21A OR BY22  
PLEASE REPLACE WITH PT NO E710019  
NB THIS ONLY APPLIES WHEN MULLARD  
TUNER IS USED  
EARLY TYPE ET568A TUNER AND MULLARD  
TYPE ARE NOT INTERCHANGEABLE

Model: CPT2178 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 35 FULL BRIGHTNESS RED OR GREEN RASTER  
IC1104 PT NO 2915092  
SEE ALSO TECH LINE 619

Model: CPT2178 COLOUR TV

**Subject: Y/C SIGNAL PROCESSING**





**Fault No: 36 WEAK PICTURE LACKS CONTRAST**  
**IC1104 2915092**  
**Q1112 2320596**  
**D1120 T531053**

Model: CPT2178 COLOUR TV  
Subject: Y/C SIGNAL PROCESSING  
Fault No: 37 BRIGHT WHITE RASTER  
Q301 PT NO 2320637  
Q302 PT NO 2320596

Model: CPT2178 COLOUR TV  
Subject: Y/C SIGNAL PROCESSING  
Fault No: 39 ALTERING GREY SCALE  
IC2107 PT NO T900437  
TEXT PCB

Model: CPT2178 COLOUR TV  
Subject: Y/C SIGNAL PROCESSING  
Fault No: 43 RED/GREEN CREEPING FROM SIDE OF PIC  
IC1104 PT NO 2915092

Model: CPT2178 COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault No: 44 CHROMA OK BUT WEAK OR NO LUMINANCE

Q1112 PT NO 2320596

D1120 PT NO T531053

IC1104 PT NO 2915091 FOR 2176 2476

IC1104 PT NO 2915092 FOR 2178 2478

Model: CPT2178 COLOUR TV  
Subject: AUDIO  
Fault No: 56 DISTORTED SOUND  
CHECK FEEDBACK LOOP R401 C401 AND  
ASSOCIATED PRINTED CIRCUIT

Model: CPT2178 COLOUR TV

Subject: AUDIO

Fault No: 58 BUZZ ON SOUND WHEN USING VCR  
REPLACE R224 68K WITH 18K  
PT NO J0187095M



Model: CPT2178 COLOUR TV

Subject: VERTICAL STAGE  
Fault No: 65 LINES AT BOTTOM OF SCREEN  
C686 PT NO 0274755R

Model: CPT2178 COLOUR TV

Subj ect: HORIZONTAL STAGE

Fault No: 72 INTERMITTENT GOES TO STANDBY

REPLACE IC1101 PT NO 2913561

REPLACE Q904 PT NO 2323271

REPLACE Q905 PT NO 2320596

REPLACE IC501 PT NO 2913612

NB THIS FAULT CAN ALSO BE CAUSED BY  
CRT FLASHOVER REFER TO TECH LINE 619

Model: CPT2178 COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** FLARES BRIGHT WHITE, THEN SHUTS OFF  
**Symptom:** PICTURE FLARES UP BRIGHT  
 WHITE, MAY FLASH OVER, THEN SHUTS DOWN  
**Cause:** INTERMITTENT REGULATOR.  
**Cure:** CHECK / REPLACE Q791 12V REG  
 PART NUMBER : 2324611

Model: CPT2178 COLOUR TV

Subj ect: TELETEXT  
 Fault No: 79 ONE COLOUR MISSING ON TEXT  
 IC Z103 PT NO T900434  
 IC Z107 PT NO T900437

Model: CPT2188 COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** WILL NOT START FROM COLD  
**Symptom:** SET WILL NOT START FROM COLD  
OR TAKES A WHILE TO COME ON.  
**Cause:** LEAKY CAPACITOR  
**Cure:** REPLACE CB604, CB601

Model : CPT2188 COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: DEAD SET**  
**Symptom: SET DEAD. 8.5V SUPPLY HAS**  
**REDUCED IN VALUE.**  
**Cause: LEAKY TRANSISTOR.**  
**Cure: CHECK / REPLACE TB541. TYPE BC557**  
**PART NO SAL JMD100**

Model: CPT2188 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: DEAD SET  
Symptom: SET DEAD. 8.5V SUPPLY HAS  
REDUCED IN VALUE.  
Cause: LEAKY TRANSISTOR.  
Cure: CHECK / REPLACE TB541. TYPE BC557  
PART NO SAL JMD100

Model: CPT2188 COLOUR TV

Subject: TELETEXT  
Fault: PICTURE BLANKS OUT INT/WHEN COLD  
Symptom: WHEN SWITCHED ON FROM COLD  
THE PICTURE CAN BE EITHER PARTIALLY OR  
FULLY BLANKED OUT. IT MAY BLANK OUT  
INTERMITTANTLY WHEN WARM ALSO.  
Cause: OXIDISED WIRE LINKS ON TEXT PCB  
Cure: REPLACE WITH NEW TINNED COPPER  
WIRE THE FOLLOWING LINKS: J33, J30, J24  
J20, J19, J40, J5. (ON TEXT PCB).

Model: CPT2188 COLOUR TV

Subject: TELETEXT  
Fault: NO TEXT.  
Symptom: NO TEXT.  
Cause: FAULTY TRANSISTORS.  
Cure: CHECK/REPLACE TRANSISTORS TG9 &  
TG13. PT. NOS. JMD099.

Model: CPT2196 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 6 SET COMES ON IN STANDBY MODE.  
Symptom: WHEN SWITCHED ON FROM COLD,  
THE SET COMES ON IN STANDBY. WILL WORK  
OK WHEN OPERATED BY REMOTE CONTROL.  
Cause: TH902 GOES HIGH RESISTANCE  
Cure: REPLACE TH902. (THIS SHOULD READ  
4K7 WHEN COLD)

Model: CPT2196 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 7 DEAD-FUSE OK  
CHECK ZD901 FOR SHORT OR OPEN. IF  
FAULTY, REPLACE TH902 (REGARDLESS OF  
ANY METER READINGS). REPLACE ZD901.  
CHECK ZD902 - IF FAULTY, REPLACE

ZD902, IC901.  
CHECK C908 (S/C OR ANY SIGN OF BULGE OR OVERLOAD). REPLACE C908 IF NECESSARY. SEE TECHLINE BULLETIN 628.  
CHECK Q903 & D906 FOR SHORT OR OPEN. REPLACE Q903 OR D906 AS REQUIRED.

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 8 DEAD - FUSE O/C  
REPLACE ALL FOLLOWING PARTS (REGARDLESS OF ANY METER READINGS):  
TH902, Q901, D905, D907, IC901, ZD902, Q902.  
CHECK R910 FOR OPEN CIRCUIT - REPLACE AS NECESSARY.  
CHECK C908, Q903, D906 - REPLACE AS NECESSARY.  
THE FOLLOWING PROCEDURE SHOULD ALSO BE CARRIED OUT WHEN REPLACING THE

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 8 DEAD - FUSE O/C  
THERMISTOR, AS SOME OF THE PRINT MAY HAVE BECOME DEFECTIVE. VIEWING THE PRINT SIDE OF THE CHASSIS, CONNECT A LEAD FROM THE +VE END OF C906 TO PIN 5 OF T901 USING HOT MELT TO SECURE LEAD AS SHOWN IN DIAGRAM ON ATTACHED PAGE. CONNECT A SECOND LEAD FROM ZD901 CATHODE TO THE JUNCTION OF R905/R909, AGAIN USING HOT MELT TO SECURE LEAD.  
P. T. O.  
THE USE OF HOT MELT IS ESSENTIAL, AS IT WILL PREVENT THE LEADS FROM ENCROACHING OVER THE SAFETY BARRIER OF THE POWER SUPPLY, SHOULD THEY COME ADRIFT FROM THEIR SOLDERED CONNECTIONS AT A LATER DATE.  
SEE TECHLINE 628 FOR DRAWING.

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 9 SET TRIPS INTERMITTENTLY  
Symptom: SET TRIPS TO STANDBY  
Cause: OVER CURRENT TRIP TOO SENSITIVE  
Cure: SET TRIP AS PER T/LINE 622.  
IF SET CORRECT CHECK THE FOLLOWING R910, R907, R914, VR901 IN PSU

R719 OVER VOLTS SENSING IN LINE, THIS  
IS CRITICAL, 1% TOLLERANCE RESISTOR.

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 10 COMES ON IN STANDBY  
Symptom: SET COMES ON IN STAND BY MODE,  
BUT WILL THEN OPERATE NORMALLY FROM  
THE REMOTE HANDSET.  
Cause: POWER SUPPLY STARTS SLOWLY  
Cure: CHECK / REPLACE TH902. START UP  
RATE CAN ALSO BE IMPROVED BY CHANGING  
C1500 TO 22uF , REPLACE LINK 579 WITH  
IN4148. CATHODE TO TRANSIENT SWITCH.

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 11 DEAD-INTERMITTENT DEAD  
Symptom: SET DEAD OR CUTS OUT  
Cause: DRY JOINTS OR CRACKED PRINT  
Cure: CHECK FOR DRY JOINTS AROUND THE  
CHOPPER TRANSFORMER T901. REMOVE OLD  
SOLDER FROM PADS AND CHECK OR CRACKED  
PRINT CLOSE TO PAD  
CHECK D933, T702 FOR DRY JOINTS

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 75 POOR SPOT SUPPRESSION  
Symptom: AFTERGLOW ON SCREEN WHEN SET  
IS SWITCHED OFF  
Cause: INSUFFICIENT SUPPRESSION  
Cure: CHANGE C720 TO 22uF P/N0 J0253973

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY SHUTS DOWN/PULSING  
Symptom: SET CUTS OUT INTERMITTANTLY, OR  
PULSES FROM COLD  
Cause: OVER VOLTS UNIT CONDUCTING.  
Cure: CHECK/REPLACE OC941, Q941, ZD941  
(REPLACE WITH HITACHI PARTS ONLY).

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD DUE TO FAILURE OF Q702  
Cause: INTERACTION BETWEEN L701 & L703

**Cure:** ENSURE REPLACEMENT OF Q702 WITH  
HITACHI SPARE PART NUMBER T636041.  
EASE L703 AWAY FROM L701 BY MOVING IT  
TOWARD R707. IT SHOULD THEN BE SECURED  
IN PLACE USING HOT MELT. FURTHER MORE  
ENSURE THAT L703 DOES NOT CROSS THE  
THICK BARRIER LINE MARKED ON THE PCB  
AND THAT L701 IS UPRIGHT.  
YOU SHOULD ALSO CHECK THE FOLLOWING  
FOR DRY JOINTS:  
C711, C712, C710, L703, R707, R724  
SEE TECHLINE BULLETIN NO 631 FOR  
SKETCH



**Model:** CPT2196                      **COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** INTERMITTANT TO STANDBY  
**Symptom:** SET INTERMITTANTLY GOES INTO  
STANDBY.  
**Cause:** RESISTORS VARY IN VALUE.  
**Cure:** CHECK / REPLACE THE FOLLOWING  
R719 220K 0.24W 1% TOL P/NO R252721  
R910 0.5 OHM 0.5W PART NO R000505  
R907 12 OHM 0.25W PART NO R112330  
R914 33 OHM 0.25W PART NO R313330



**Model:** CPT2196                      **COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** POWER SUPPLY PULSES AT SWITCH ON  
**Symptom:** SET PULSATES FROM SWITCH ON  
**Cause:** POWER SUPPLY NOT STARTING UP  
**Cure:** CHECK / REPLACE THE FOLLOWING  
R915 22R (21") 0.25W PART NO R212330  
R915 33R (25") 0.25W PART NO R313330  
C908 470uF 25V PART NUMBER 0800075  
D902 BYD33D PART NUMBER T431112



**Model:** CPT2196                      **COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** SET PULSES IN STANDBY  
**Symptom:** SET PULSES WHEN IN STANDBY  
MODE, OR FROM COLD SWITCH ON  
**Cause:** OVER VOLTS FEEDBACK FAULTY  
**Cure:** REPLACE THE FOLLOWING COMPONENTS  
R941, VR941, ZD941, OC941.



**Model:** CPT2196                      **COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** Q702 FAILS AFTER A FEW HOURS

Symptom: Q702 FAILS AFTER A FEW HOURS  
Cause: 12V RAIL LOW  
Cure: CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT GOES TO STANDBY  
Symptom: SET CUTS OUT INTERMITTANTLY,  
THE CHANNEL DISPLAY GOES OUT FULLY FOR  
A COUPLE OF SECONDS THE COMES BACK ON  
IN STANDBY.  
Cause: CRACKS IN PRINT.  
Cure: REMOVE OLD SOLDER FROM PINS OF  
CHOPPER TRANSFORMER, CHECK FOR PRINT  
CONTINUITY TO PADS, THE RESOLDER.

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSES FROM COLD SWITCH ON  
Symptom: WHEN SWITCHED ON FROM COLD  
THE SET PULSES SEVERAL TIMES BEFORE  
COMING ON.  
Cause: CAPACITORS DRYING OUT.  
Cure: CHECK / REPLACE C908 470uF 25V  
PART NUMBER J0800075, ALSO CHECK D907  
BYV10-40 PART NUMBER T531056 FOR OPEN  
CIRCUIT.

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET, CHANNEL INDICATOR "ON"  
Symptom: NO SOUND OR PICTURE, HT FROM  
POWER SUPPLY CORRECT, BUT 12V SUPPLY  
GONE LOW.  
Cause: OPEN CIRCUIT CAPACITOR  
Cure: CHECK / REPLACE C933 2200uf 25V  
PART NUMBER C292951

Model: CPT2196

COLOUR TV

Subject: POWER SUPPLY  
Fault: PULSING POWER SUPPLY  
Symptom: DEAD SET, POWER SUPPLY PULSES  
Cause: OPEN CIRCUIT DIODE.  
Cure: CHECK / REPLACE D907 BYV10-40  
PART NUMBER T531056.



Model: CPT2196 COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** PULSATING POWER SUPPLY.  
**Symptom:** SET DEAD, POWER SUPPLY PULSES  
 APPEARING TO TRY TO START UP.  
**Cause:** OPEN CIRCUIT RESISTOR.  
**Cure:** CHECK / REPLACE R944 47K 1W  
 PART NUMBER R447542

Model: CPT2196 COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: POWER SUPPLY TRIPPING.**  
**Symptom: POWER SUPPLY TRIPPING.**  
**Cause: FAULTY REGULATOR, LOADING SUPPLY**  
**Cure: CHECK/REPLACE IC932.**  
**PT. NO. T900326.**

Model: CPT2196 COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET DEAD.  
**Symptom:** SET DEAD.  
**Cause:** FAULTY DIODE.  
**Cure:** CHECK/REPLACE D907 LEAKY.  
PT. NO. T531056.

Model : CPT2196 COLOUR TV

Subject: TUNING SELECTION  
Fault No: 22 PICTURE FLUCTUATES WITH FUNCTION US  
R932 DR15 HIGH-REPLACE PT NO R002551

Model: CPT2196 COLOUR TV

Subject:	TUNING SELECTION
Fault No:	23 NOT RE-PROGRAMMING(R VERSIONS ONLY)
Symptom:	RE-PROGRAMMING AS PER TECH LINE 620/621 CANNOT BE STORED. DOTS IN LEFT HAND WINDOW.
Cause:	MEMORY CORRUPTED.
Cure:	MEMORY I. C. DESTROYED BEYOND RECALL. REPLACE I. C. 1502 P/No E730002

Model : CPT2196 COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** SET IN A. V. /WRONG OP-TECHLINE 620/1  
**Symptom:** SET GOES TO STAND BY AFTER 5  
 MINUTES, OR , TUNING UP/DOWN BUTTONS  
 ACTUATE THE WRONG FUNCTIONS. OR. SET



WILL NOT TUNE IN, OR, ODD DOTS OR CHARACTERS IN THE DISPLAY WINDOW. IT IS ALSO POSSIBLE THAT YOU WILL HAVE NO TELETEXT OPERATION, OR BUTTONS REGISTER INCORRECTLY, I. E. 1 BECOMES 2 2 - 3 ETC.

**Cause:** CORRUPTED PROGRAMME IN MEMORY

I. C. (I. C. 1502)

**Cure:** REPROGRAMME THE MEMORY I. C. AS FOLLOWS. (OR OBTAIN TECHLINE 620/621 FROM HITACHI SERVICE)

1. YOU WILL NEED THE REMOTE CONTROL HANDSET, IF THIS IS NOT AVAILABLE THEN YOU SHOULD REPLACE I. C. 1502. THE NEW I. C. IS PRE-PROGRAMMED.

OPEN THE BACK OF THE REMOTE HANDSET. YOU WILL NEED TO FORM A SWITCH ACROSS TWO PINS OF THE I. C.

IF THE I. C. IS TYPE SAA1250 PUT A SWITCH ACROSS PINS 15 & 23.

IN OTHER VERSIONS OF THE 4 BATTERY TYPE HANDSET PUT YOUR SWITCH ON PINS 12 & 20.

CONT. .

PUSH THE PROGRAMMING SWITCH YOU HAVE JUST FITTED ONCE. THE CHANNEL DISPLAY SHOULD SHOW : C H

PUSH THE SWITCH AGAIN AND THE DISPLAY SHOULD SHOW : 0 P

PRESS NUMBER 1 ON THE HANDSET AND THE DISPLAY SHOWS: P 1

CONT. . .



**Model:** CPT2196

**COLOUR TV**

**Subject:** TUNING SELECTION

**Fault:** SET IN A. V. /WRONG OP-TECHLINE 620/1  
PRESS THE STANDBY BUTTON ON THE HANDSET. THE DISPLAY SHOWS : \_ \_  
OPEN THE FRONT FLAP ON THE T. V. AND PRESS AND HOLD THE STORE BUTTON, THEN PRESS THE NUMBER 9 ON THE REMOTE HANDSET, WHILE STILL HOLDING THE STORE. THE SET WILL COME ON ON CHANNEL 9 AND THE DISPLAY SHOULD SHOW : 9 (IN THE RIGHT HAND WINDOW)  
IF THERE IS NOW A DOT IN THE LEFT HAND WINDOW OF THE DISPLAY IT MUST BE REMOVED AT THIS POINT. ALSO CHECK FOR DOTS ON OTHER CHANNELS AND REMOVE THEM ALSO. TO REMOVE THE DOT, SELECT A CHANNEL WHICH DOES NOT HAVE A DOT LIT, AND PRESS THE STORE BUTTON. FOLLOW THIS BY PRESSING THE NUMBER OF THE CHANNEL WHICH DOES HAVE A DOT.

CONT. . .

THE DISPLAY FIRST SHOWS TWO FLASHING BARS, THEN THE CHANNEL NUMBER YOU HAVE JUST PRESSED. REPEAT THE PROCESS FOR ALL CHANNELS WITH DOTS.

IF ALL CHANNELS HAVE DOTS THE MEMORY I. C. (IC1502) IS DAMAGED AND MUST BE REPLACED.

CONT. . . .

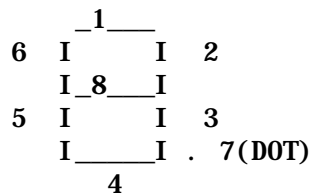
THE NEXT STEP WILL DEPEND UPON WHICH MODEL YOU HAVE.

FOR CPT 1476R & 1646R FOLLOW 1-6

FOR CPT 2198/2598/2596/2196/2578 7-12

THE UNIT HAS A SERIES OF OPTION BYTES AND COMMAND BITS. THE LEFT HAND WINDOW IS THE BYTE NUMBER THE RIGHT HAND HAS THE COMMAND BITS, IT IS THESE YOU SET. THE BIT NUMBERS IN THE RIGHT HAND

DISPLAY WINDOWS ARE AS FOLLOWS



Model: CPT2196

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1

1. PRESS THE PROGRAMMING SWITCH 3 TIMES THE LEFT HAND DISPLAY WINDOW SHOWS THE OPTION BYTE NUMBER 1 IN THE RIGHT HAND WINDOW YOU MUST LIGHT THE FOLLOWING BIT NUMBERS BY PRESSING THE NUMBERS ON THE REMOTE HANDSET. EACH PRESS OF A NUMBER WILL ALTERNATELY LIGHT THEN EXTINGUISH THE BIT.

FOR OPTION BYTE 1 LIGHT BITS 1 & 2

2. PRESS THE PROGRAMMING BUTTON ONCE MORE. THE LEFT HAND DISPLAY WINDOW

SHOWS 2. NOW USING THE HANDSET LIGHT BITS 1 & 2 IN THE RIGHT HAND DISPLAY

3. PRESS THE PROGRAMMING BUTTON ONCE, THE LEFT HAND DISPLAY SHOWS 3. NOW USE THE HANDSET TO LIGHT BITS 3 & 5 IN THE RIGHT HAND DISPLAY.

4. PRESS THE PROGRAMMING SWITCH ONCE, SO THAT THE LEFT HAND WINDOW SHOWS 4. NOW USE THE REMOTE HANDSET TO ENSURE THAT NO BITS ARE LIT IN THE RIGHT HAND DISPLAY WINDOW.

5. WHEN ALL ARE CORRECT PRESS THE STAND BY BUTTON ON THE HANDSET TO MEMORISE THESE SETTINGS. SWITCH THE SET BACK ON

AND RETUNE.

6. INITIAL VOLUME SHOULD NOW BE RESET. ADJUST THE PRESET VOLUME CONTROL VR1504 TO MID POSITION. ADJUST THE VOLUME TO YOUR DESIRED LEVEL USING THE HANDSET AND PRESS THE STORE BUTTON IMMEDIATELY.

THE FOLLOWING PAGES REFER TO THE LARGE SCREEN MODELS CPT2198 ETC.

7. PRESS THE PROGRAMMING SWITCH 3 TIMES THE LEFT HAND DISPLAY WINDOW SHOWS 1. NOW USING THE HAND SET LIGHT BITS

1 , 4 , 5 & 7 IN THE RIGHT HAND WINDOW

8. PRESS THE PROGRAMMING SWITCH ONCE SO THE LEFT HAND WINDOW SHOWS 2. NOW USE THE HANDSET TO LIGHT BITS 1, 2, 8 & 7 IN THE RIGHT HAND WINDOW.



Model : CPT2196

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1

9. PRESS THE PROGRAMMING SWITCH ONCE, SO THE LEFT HAND WINDOW SHOWS 3. NOW USE THE HANDSET TO LIGHT BIT 3 ONLY IN THE RIGHT HAND WINDOW.

10. PRESS THE PROGRAMMING SWITCH ONCE, SO THE LEFT HAND WINDOW SHOWS 4. NOW USE THE HANDSET TO LIGHT BIT 6 ONLY IN THE RIGHT HAND WINDOW.

11. NOW PRESS THE STAND BY BUTTON ON THE HANDSET TO MEMORISE THESE SETTING.

12. SWITCH THE SET BACK ON AND TUNE IN



Model : CPT2196

COLOUR TV

Subject: TUNING SELECTION

Fault: PERSISTANT MEMORY LOSS-TECHLINE 633

Symptom: SET REQUIRES REPROGRAMMING ON A REGULAR BASIS (TECHLINE 620 / 621)

Cause: MICRO PROCESSOR CORRUPTS THE EEPROM I. C. (IC1502)

Cure: CHANGE IC1501 FOR NEW VERSION SAA1293-03 PART NUMBER T900549. A REVISED PROGRAMMING SHEET WILL BE SENT WITH THE I. C. (TECHLINE 633) .. CONT IT IS RECOMENDED THAT YOU REPLACE THE MEMORY I. C. 1502 PART NO E730002 AT THE SAME TIME TO PREVENT TRANSFER OF CORRUPTED DATA.



Model: CPT2196

COLOUR TV

Subject: TUNING SELECTION  
 Fault: IC1501/2 SAA1293A-03 PROGRAMMING  
 Symptom: MEMORY LOSS.  
 Cause: CORRUPTION TO MICRO / EEPROM  
 Cure: FIT IC1501 TYPE No SAA1293A-03  
 P/N T900549 & IC1502 P/NO E730002  
 WHEN FITTED THE PROGRAMMING METHOD  
 DIFFERS FROM THAT OF THE ORIGINAL AND  
 SHOULD BE DONE AS FOLLOWS. .... (CONT)  
 YOU WILL REQUIRE THE REMOTE CONTROL  
 HANDSET (FOUR BATTERY VERSION ONLY)  
 TO EASE PROGRAMMING, A SWITCH CAN BE  
 ADDED TO THE HANDSET.  
 1) IF IC1 IS TYPE SAA1250, CONNECT THE  
 SWITCH BETWEEN PINS 15 & 23.  
 .... (CONT)  
 2) IF IC1 IS TYPE M50467 THEN CONNECT  
 THE SWITCH BETWEEN PINS 12 & 20.  
 SWITCH THE SET ON.  
 PUSH THE PROGRAMMING SWITCH ONCE, SO  
 THAT THE CHANNEL INDICATOR DISPLAY  
 READS "CH", THEN PUSH THE SWITCH A  
 SECOND TIME SO THE DISPLAY NOW SHOWS  
 "OP"..... (CONT).  
 NOW PRESS THE "VOLUME PLUS" BUTTON TO  
 GO TO OPTION BYTE 1. THE CHANNEL  
 INDICATOR DISPLAY WILL SHOW "1" IN THE  
 LEFT HAND DIGIT WINDOW, AND YOU WILL  
 NEED TO SELECT THE CORRECT BITS IN THE  
 RIGHT HAND WINDOW USING THE CHANNEL  
 BUTTONS ON THE HANDSET.  
 THE BITS ARE NUMBERED THUS ....  
 .... (CONT)



Model: CPT2196

COLOUR TV

Subject: TUNING SELECTION  
 Fault: IC1501/2 SAA1293A-03 PROGRAMMING

BIT 1			
-----			
BIT 6	I	I	BIT 2
	I	BIT 8	I
-----			
BIT 5	I	I	BIT 3
	I	I	
-----			
			. BIT 7 (DOT)
BIT 4			

FOR OPTION BYTE 1 PRESS THE CHANNEL  
 NUMBER BUTTONS ON THE HANDSET TO LIGHT  
 THE FOLLOWING BITS  
 1, 5, 7, 8. THEN PRESS STORE BUTTON  
 PRESS VOLUME PLUS BUTTON TO PROGRESS  
 TO OPTION BYTE 2 AND LIGHT THE BITS



1, 2, 7, 8. THEN PRESS STORE BUTTON  
PRESS THE VOLUME PLUS BUTTON TO MOVE  
ON TO OPTION BYTE 3. THEN LIGHT BITS  
5, 3. THEN PRESS THE STORE BUTTON.  
(FOR CPT 2598A ALSO LIGHT BIT 7).  
PRESS THE VOLUME PLUS BUTTON TO MOVE  
ON TO OPTION BYTE 4. NOW LIGHT BITS  
5 ONLY. THEN PRESS THE STORE BUTTON  
FINALLY SWITCH THE SET TO STANDBY TO  
EXIT THE PROGRAMMING MODE.  
SWITCH THE SET BACK ON AND TUNE IN.

Model : CPT2196 COLOUR TV

Subject: TUNER/IF  
Fault No: 28 DISTORTED SOUND  
CHECK - 10V SUPPLY R934 OPEN CIRCUIT  
PT NO R200551

Model: CPT2196 COLOUR TV

**Subject:** TUNER/IF  
**Fault No:** 29 **DRIFTING OFF TUNE**  
**Symptom:** DRIFTS OFF TUNE  
**Cause:** POOR L. T. REGULATION  
**Cure:** CHECK 33V SUPPLY TO TUNER FOR VARIATION. REPLACE IC1503.

Model: CPT2196 COLOUR TV

**Subject:** TUNER/IF  
**Fault:** TUNER DRIFT  
VARIATION OF VT30 VOLT RAIL REPLACE  
ZD002 ZTK33B PART NO T536193

Model : CPT2196 COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** RESIDUAL SPOT ON SCREEN IN STANDBY  
CHANGE R1541 FROM 10K TO 1K  
CHANGE R1562 FROM 10K TO 1K8

Model: CPT2196 COLOUR TV

Subj ect: AUDI O  
 Fault No: 57 BUZZ ON SOUND  
 CHANGE C468 100MFD TO 330MFD 16VW PT  
 NO J0252948R



COLOUR TV

Subject: VERTICAL STAGE  
64 WEAK SYNC ON CHANNEL CHANGE  
R932 OR15 HIGH - REPLACE PT NO R002551



COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** FRAME TWITCHING.  
**Symptom:** FRAME TWITCHING.  
**Cause:** DRY JOINT.  
**Cure:** CHECK/RE-MAKE DRY JOINT AT C604.



COLOUR TV

Subject: HORIZONTAL STAGE  
74 NO LINE HOLD  
REPLACE IC431 PT NO T900457



COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** Q702 FAILS AFTER A FEW HOURS  
**Symptom:** Q702 FAILS AFTER A FEW HOURS  
**Cause:** 12V RAIL LOW  
**Cure:** CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE



COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** SET DEAD DUE TO FAILURE OF Q702  
**Symptom:** SET DEAD, L/OP TRANSISTOR  
Q702 HAS FAILED.  
**Cause:** INTERACTION BETWEEN L701, & L703  
**Cure:** REPLACE Q702 PT/No T636041 WITH  
HITACHI PARTS ONLY.  
EASE L703 AWAY FROM L701 TOWARD R707  
AND SECURE WITH HOT MELT. CHECK FOR DRY  
JOINTS, C710/1/2 L703, R707, R724



COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** BRIGHT WHITE SCREEN, THEN GOES OFF  
**Symptom:** BRIGHT WHITE SCREEN THEN SET  
GOES TO STANDBY.  
**Cause:** LOW 200V SUPPLY DUE TO C720 LOW  
CAPACITANCE OR LEAKED.  
**Cure:** REPLACE C720 22uF 250V  
PART NUMBER 0253973

NOTE. IN EARLY PRODUCTION SETS, C720 MAY  
BE 4.7 $\mu$ F 250V.

Model: CPT2196

COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: PART NUMBER FOR STAND INSERTS.  
Symptom: PART NUMBER FOR STAND INSERTS  
IS MISSING FROM THE SERVICE MANUAL.  
Cause: PRINTING ERROR.  
Cure: PART NUMBER IS G878021.

Model: CPT2198

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 6 SET COMES ON IN STANDBY MODE.  
Symptom: WHEN SWITCHED ON FROM COLD,  
THE SET COMES ON IN STANDBY. WILL WORK  
OK WHEN OPERATED BY REMOTE CONTROL.  
Cause: TH902 GOES HIGH RESISTANCE  
Cure: REPLACE TH902. (THIS SHOULD READ  
4K7 WHEN COLD)

Model: CPT2198

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 7 DEAD- FUSE OK  
CHECK ZD901 FOR SHORT OR OPEN. IF  
FAULTY, REPLACE TH902 (REGARDLESS OF  
ANY METER READINGS). REPLACE ZD901.  
CHECK ZD902 - IF FAULTY, REPLACE  
ZD902, IC901.  
CHECK C908 (S/C OR ANY SIGN OF BULGE  
OR OVERLOAD). REPLACE C908 IF  
NECESSARY. SEE TECHLINE BULLETIN 628.  
CHECK Q903 & D906 FOR SHORT OR OPEN.  
REPLACE Q903 OR D906 AS REQUIRED.

Model: CPT2198

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 8 DEAD - FUSE O/C  
REPLACE ALL FOLLOWING PARTS  
(REGARDLESS OF ANY METER READINGS):  
TH902, Q901, D905, D907, IC901, ZD902,  
Q902.  
CHECK R910 FOR OPEN CIRCUIT - REPLACE  
AS NECESSARY.  
CHECK C908, Q903, D906 - REPLACE AS  
NECESSARY.  
THE FOLLOWING PROCEDURE SHOULD ALSO BE  
CARRIED OUT WHEN REPLACING THE

Model: CPT2198

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 8 DEAD - FUSE 0/C  
THERMISTOR, AS SOME OF THE PRINT MAY HAVE BECOME DEFECTIVE. VIEWING THE PRINT SIDE OF THE CHASSIS, CONNECT A LEAD FROM THE +VE END OF C906 TO PIN 5 OF T901 USING HOT MELT TO SECURE LEAD AS SHOWN IN DIAGRAM ON ATTACHED PAGE. CONNECT A SECOND LEAD FROM ZD901 CATHODE TO THE JUNCTION OF R905/R909, AGAIN USING HOT MELT TO SECURE LEAD.  
P. T. O.  
THE USE OF HOT MELT IS ESSENTIAL, AS IT WILL PREVENT THE LEADS FROM ENCROACHING OVER THE SAFETY BARRIER OF THE POWER SUPPLY, SHOULD THEY COME ADRIFT FROM THEIR SOLDERED CONNECTIONS AT A LATER DATE.  
SEE TECHLINE 628 FOR DRAWING.

Model: CPT2198

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 9 SET TRIPS INTERMITTENTLY  
Symptom: SET TRIPS TO STANDBY  
Cause: OVER CURRENT TRIP TOO SENSITIVE  
Cure: SET TRIP AS PER T/LINE 622.  
IF SET CORRECT CHECK THE FOLLOWING R910, R907, R914, VR901 IN PSU  
R719 OVER VOLTS SENSING IN LINE, THIS IS CRITICAL, 1% TOLLERANCE RESISTOR.

Model: CPT2198

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 10 COMES ON IN STANDBY  
Symptom: SET COMES ON IN STAND BY MODE, BUT WILL THEN OPERATE NORMALLY FROM THE REMOTE HANDSET.  
Cause: POWER SUPPLY STARTS SLOWLY  
Cure: CHECK / REPLACE TH902. START UP RATE CAN ALSO BE IMPROVED BY CHANGING C1500 TO 22uF, REPLACE LINK 579 WITH IN4148. CATHODE TO TRANSIENT SWITCH.

Model: CPT2198

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 75 POOR SPOT SUPPRESSION  
Symptom: AFTERGLOW ON SCREEN WHEN SET





IS SWITCHED OFF  
Cause: INSUFFICIENT SUPPRESSION  
Cure: CHANGE C720 TO 22uF P/NO J0253973

Model: CPT2198 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 86 NO TEXT  
Symptom: NO TELETEXT.  
Cause: MEMORY LOSS.  
Cure: FOLLOW INSTRUCTIONS ON TECH LINE  
620/621, WHICH CAN BE FOUND UNDER THE  
TUNING AND SELECTION SECTION FOR THIS  
MODEL.

Model: CPT2198 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 87 INCORRECT TEXT PAGE No REGISTERED  
Symptom: WHEN IN TELETEXT MODE ANY  
PAGE NUMBER DIALED IN REGISTERS WRONG.  
I. E. 123 BECOMES 234.  
Cause: CORRUPTION TO MEMORY  
Cure: FOLLOW TECH LINE 620/621

Model: CPT2198 COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY SHUTS DOWN/PULSING  
Symptom: SET CUTS OUT INTERMITTANTLY, OR  
PULSES FROM COLD  
Cause: OVER VOLTS UNIT CONDUCTING.  
Cure: CHECK/REPLACE OC941, Q941, ZD941  
(REPLACE WITH HITACHI PARTS ONLY).

Model: CPT2198 COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD DUE TO FAILURE OF Q702  
Cause: INTERACTION BETWEEN L701 & L703  
Cure: ENSURE REPLACEMENT OF Q702 WITH  
HITACHI SPARE PART NUMBER T636041.  
EASE L703 AWAY FROM L701 BY MOVING IT  
TOWARD R707. IT SHOULD THEN BE SECURED  
IN PLACE USING HOT MELT. FURTHER MORE  
ENSURE THAT L703 DOES NOT CROSS THE  
THICK BARRIER LINE MARKED ON THE PCB  
AND THAT L701 IS UPRIGHT.  
YOU SHOULD ALSO CHECK THE FOLLOWING  
FOR DRY JOINTS:  
C711, C712, C710, L703, R707, R724  
SEE TECHLINE BULLETIN NO 631 FOR  
SKETCH

Model: CPT2198 COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT TO STANDBY  
Symptom: SET INTERMITTANTLY GOES INTO STANDBY.  
Cause: RESISTORS VARY IN VALUE.  
Cure: CHECK / REPLACE THE FOLLOWING  
R719 220K 0.24W 1% TOL P/NO R252721  
R910 0.5 OHM 0.5W PART NO R000505  
R907 12 OHM 0.25W PART NO R112330  
R914 33 OHM 0.25W PART NO R313330

Model: CPT2198 COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY PULSES AT SWITCH ON  
Symptom: SET PULSATES FROM SWITCH ON  
Cause: POWER SUPPLY NOT STARTING UP  
Cure: CHECK / REPLACE THE FOLLOWING  
R915 22R (21") 0.25W PART NO R212330  
R915 33R (25") 0.25W PART NO R313330  
C908 470uF 25V PART NUMBER 0800075  
D902 BYD33D PART NUMBER T431112

Model: CPT2198 COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSES IN STANDBY  
Symptom: SET PULSES WHEN IN STANDBY MODE, OR FROM COLD SWITCH ON  
Cause: OVER VOLTS FEEDBACK FAULTY  
Cure: REPLACE THE FOLLOWING COMPONENTS  
R941, VR941, ZD941, OC941.

Model: CPT2198 COLOUR TV

Subject: POWER SUPPLY  
Fault: Q702 FAILS AFTER A FEW HOURS  
Symptom: Q702 FAILS AFTER A FEW HOURS  
Cause: 12V RAIL LOW  
Cure: CHECK / REPLACE R932 OR15 WHICH MAY HAVE RISEN IN VALUE

Model: CPT2198 COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT GOES TO STANDBY  
Symptom: SET CUTS OUT INTERMITTANTLY, THE CHANNEL DISPLAY GOES OUT FULLY FOR A COUPLE OF SECONDS THE COMES BACK ON



**IN STANDBY.**

**Cause:     CRACKS IN PRINT.**

**Cure:** REMOVE OLD SOLDER FROM PINS OF CHOPPER TRANSFORMER, CHECK FOR PRINT CONTINUITY TO PADS. THE RESOLDER.

Model : CPT2198

COLOUR TV

**Subject: POWER SUPPLY**

**Fault: SET PULSES FROM COLD SWITCH ON**

**Symptom:** WHEN SWITCHED ON FROM COLD  
THE SET PULSES SEVERAL TIMES BEFORE  
COMING ON.

**Cause: CAPACITORS DRYING OUT.**

**Cure:** CHECK / REPLACE C908 470uF 25V  
PART NUMBER J0800075, ALSO CHECK D907  
BYV10-40 PART NUMBER T531056 FOR OPEN  
CIRCUIT.

Model : CPT2198

COLOUR TV

**Subject: POWER SUPPLY**

Fault: DEAD SET, CHANNEL INDICATOR "ON"

**Symptom:** NO SOUND OR PICTURE, HT FROM  
POWER SUPPLY CORRECT, BUT 12V SUPPLY  
GONE LOW.

**Cause: OPEN CIRCUIT CAPACITOR**

**Cure: CHECK / REPLACE C933 2200uf 25V  
PART NUMBER C292951**

Model : CPT2198

COLOUR TV

**Subject: POWER SUPPLY**

**Fault: PULSING POWER SUPPLY**

**Symptom:** DEAD SET, POWER SUPPLY PULSES

**Cause:** OPEN CIRCUIT DIODE.

**Cure: CHECK / REPLACE D907 BYV10-40  
PART NUMBER T531056.**

Model : CPT2198

COLOUR TV

**Subject: POWER SUPPLY**

Fault: PULSATING POWER SUPPLY.

**Symptom:** SET DEAD, POWER SUPPLY PULSES APPEARING TO TRY TO START UP.

**Cause: OPEN CIRCUIT RESISTOR.**

**Cure:** CHECK / REPLACE R944 47K 1W  
PART NUMBER R447542

Model : CPT2198

COLOUR TV

**Subject: POWER SUPPLY**



**Fault:** POWER SUPPLY TRIPPING.  
**Symptom:** POWER SUPPLY TRIPPING.  
**Cause:** FAULTY REGULATOR, LOADING SUPPLY  
**Cure:** CHECK/REPLACE IC932.  
 PT. NO. T900326.

Model: CPT2198 COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET DEAD.  
**Symptom:** SET DEAD.  
**Cause:** FAULTY DIODE.  
**Cure:** CHECK/REPLACE D907 LEAKY.  
 PT. NO. T531056.

Model: CPT2198 COLOUR TV

Subject: TUNING SELECTION  
Fault No: 22 PICTURE FLUCTUATES WITH FUNCTION US  
R932 DR15 HIGH-REPLACE PT NO R002551

Model : CPT2198 COLOUR TV

**Subject:** TUNING SELECTION

**Fault No:** 23 NOT RE-PROGRAMMING(R VERSIONS ONLY)

**Symptom:** RE-PROGRAMMING AS PER TECH  
LINE 620/621 CANNOT BE STORED. DOTS IN  
LEFT HAND WINDOW.

**Cause:** MEMORY CORRUPTED.

**Cure:** MEMORY I. C. DESTROYED BEYOND  
RECALL. REPLACE I. C. 1502 P/No E730002

Model : CPT2198 COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** SET IN A. V. /WRONG OP- TECHLINE 620/1

**Symptom:** SET GOES TO STAND BY AFTER 5 MINUTES, OR , TUNING UP/DOWN BUTTONS ACTUATE THE WRONG FUNCTIONS, OR, SET WILL NOT TUNE IN, OR, ODD DOTS OR CHARACTERS IN THE DISPLAY WINDOW. IT IS ALSO POSSIBLE THAT YOU WILL HAVE NO TELETEXT OPERATION, OR BUTTONS REGISTER INCORRECTLY, I. E. 1 BECOMES 2 2 - 3 ETC.

**Cause:** CORRUPTED PROGRAMME IN MEMORY I. C. (I. C. 1502)

**Cure:** REPROGRAMME THE MEMORY I. C. AS FOLLOWS. (OR OBTAIN TECHLINE 620/621 FROM HITACHI SERVICE)

1. YOU WILL NEED THE REMOTE CONTROL HANDSET, IF THIS IS NOT AVAILABLE THEN YOU SHOULD REPLACE I. C. 1502. THE NEW

I. C. IS PRE-PROGRAMMED.  
OPEN THE BACK OF THE REMOTE HANDSET.  
YOU WILL NEED TO FORM A SWITCH ACROSS  
TWO PINS OF THE I. C.  
IF THE I. C. IS TYPE SAA1250 PUT A  
SWITCH ACROSS PINS 15 & 23.  
IN OTHER VERSIONS OF THE 4 BATTERY  
TYPE HANDSET PUT YOUR SWITCH ON PINS  
12 & 20.

CONT. .



Model: CPT2198

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1  
PUSH THE PROGRAMMING SWITCH YOU HAVE  
JUST FITTED ONCE. THE CHANNEL DISPLAY  
SHOULD SHOW : C H  
PUSH THE SWITCH AGAIN AND THE DISPLAY  
SHOULD SHOW : O P  
PRESS NUMBER 1 ON THE HANDSET AND THE  
DISPLAY SHOWS: P 1

CONT. . .

PRESS THE STANDBY BUTTON ON THE HAND  
SET. THE DISPLAY SHOWS : \_ \_  
OPEN THE FRONT FLAP ON THE T. V. AND  
PRESS AND HOLD THE STORE BUTTON, THEN  
PRESS THE NUMBER 9 ON THE REMOTE HAND  
SET, WHILE STILL HOLDING THE STORE. THE  
SET WILL COME ON ON CHANNEL 9 AND THE  
DISPLAY SHOULD SHOW : 9 (IN THE RIGHT  
HAND WINDOW)  
IF THERE IS NOW A DOT IN THE LEFT HAND  
WINDOW OF THE DISPLAY IT MUST BE  
REMOVED AT THIS POINT. ALSO CHECK FOR  
DOTS ON OTHER CHANNELS AND REMOVE THEM  
ALSO. TO REMOVE THE DOT, SELECT A  
CHANNEL WHICH DOES NOT HAVE A DOT LIT,  
AND PRESS THE STORE BUTTON. FOLLOW  
THIS BY PRESSING THE NUMBER OF THE C  
CHANNEL WHICH DOES HAVE A DOT.

CONT. . .

THE DISPLAY FIRST SHOWS TWO FLASHING  
BARS, THEN THE CHANNEL NUMBER YOU HAVE  
JUST PRESSED. REPEAT THE PROCESS FOR  
ALL CHANNELS WITH DOTS.  
IF ALL CHANNELS HAVE DOTS THE MEMORY  
I. C. (IC1502) IS DAMAGED AND MUST BE  
REPLACED.

CONT. . . .

THE NEXT STEP WILL DEPEND UPON WHICH  
MODEL YOU HAVE.  
FOR CPT 1476R & 1646R FOLLOW 1-6  
FOR CPT 2198/2598/2596/2196/2578 7-12  
THE UNIT HAS A SERIES OF OPTION BYTES

AND COMMAND BITS. THE LEFT HAND WINDOW IS THE BYTE NUMBER THE RIGHT HAND HAS THE COMMAND BITS, IT IS THESE YOU SET.

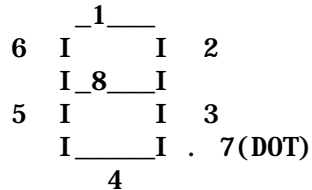


Model: CPT2198

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1  
THE BIT NUMBERS IN THE RIGHT HAND  
DISPLAY WINDOWS ARE AS FOLLOWS



1. PRESS THE PROGRAMMING SWITCH 3 TIMES THE LEFT HAND DISPLAY WINDOW SHOWS THE OPTION BYTE NUMBER 1 IN THE RIGHT HAND WINDOW YOU MUST LIGHT THE FOLLOWING BIT NUMBERS BY PRESSING THE NUMBERS ON THE REMOTE HANDSET. EACH PRESS OF A NUMBER WILL ALTERNATELY LIGHT THEN EXTINGUISH THE BIT.

FOR OPTION BYTE 1 LIGHT BITS 1 & 2

2. PRESS THE PROGRAMMING BUTTON ONCE MORE. THE LEFT HAND DISPLAY WINDOW SHOWS 2. NOW USING THE HANDSET LIGHT BITS 1 & 2 IN THE RIGHT HAND DISPLAY

3. PRESS THE PROGRAMMING BUTTON ONCE, THE LEFT HAND DISPLAY SHOWS 3. NOW USE THE HANDSET TO LIGHT BITS 3 & 5 IN THE RIGHT HAND DISPLAY.

4. PRESS THE PROGRAMMING SWITCH ONCE, SO THAT THE LEFT HAND WINDOW SHOWS 4. NOW USE THE REMOTE HANDSET TO ENSURE THAT NO BITS ARE LIT IN THE RIGHT HAND DISPLAY WINDOW.

5. WHEN ALL ARE CORRECT PRESS THE STAND BY BUTTON ON THE HANDSET TO MEMORISE THESE SETTINGS. SWITCH THE SET BACK ON AND RETUNE.

6. INITIAL VOLUME SHOULD NOW BE RESET. ADJUST THE PRESET VOLUME CONTROL VR1504 TO MID POSITION. ADJUST THE VOLUME TO YOUR DESIRED LEVEL USING THE HANDSET AND PRESS THE STORE BUTTON IMMEDIATELY.

THE FOLLOWING PAGES REFER TO THE LARGE SCREEN MODELS CPT2198 ETC.



Model: CPT2198

COLOUR TV

Subject: TUNING SELECTION



**Fault:** SET IN A. V. /WRONG OP-TECHLINE 620/1

7. PRESS THE PROGRAMMING SWITCH 3 TIMES THE LEFT HAND DISPLAY WINDOW SHOWS 1. NOW USING THE HAND SET LIGHT BITS 1 , 4 , 5 & 7 IN THE RIGHT HAND WINDOW
8. PRESS THE PROGRAMMING SWITCH ONCE SO THE LEFT HAND WINDOW SHOWS 2. NOW USE THE HANDSET TO LIGHT BITS 1, 2, 8 & 7 IN THE RIGHT HAND WINDOW.
9. PRESS THE PROGRAMMING SWITCH ONCE, SO THE LEFT HAND WINDOW SHOWS 3. NOW USE THE HANDSET TO LIGHT BIT 3 ONLY IN THE RIGHT HAND WINDOW.
10. PRESS THE PROGRAMMING SWITCH ONCE, SO THE LEFT HAND WINDOW SHOWS 4. NOW USE THE HANDSET TO LIGHT BIT 6 ONLY IN THE RIGHT HAND WINDOW.
11. NOW PRESS THE STAND BY BUTTON ON THE HANDSET TO MEMORISE THESE SETTING.
12. SWITCH THE SET BACK ON AND TUNE IN

Model: CPT2198 COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** PERSISTANT MEMORY LOSS- TECHLINE 633  
**Symptom:** SET REQUIRES REPROGRAMMING ON  
A REGULAR BASIS (TECHLINE 620 / 621)  
**Cause:** MICRO PROCESSOR CORRUPTS THE  
EEPROM I. C. (IC1502)  
**Cure:** CHANGE IC1501 FOR NEW VERSION  
SAA1293-03 PART NUMBER T900549. A  
REVISED PROGRAMMING SHEET WILL BE SENT  
WITH THE I. C. (TECHLINE 633) .. CONT

Model: CPT2198 COLOUR TV

**Subject: TUNING SELECTION**  
**Fault: PERSISTANT MEMORY LOSS-TECHLINE 633**  
**IT IS RECOMENDED THAT YOU REPLACE THE**  
**MEMORY I. C. 1502 PART NO E730002 AT THE**  
**SAME TIME TO PREVENT TRANSFER OF**  
**CORRUPTED DATA.**

Model: CPT2198 COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** IC1501/2 SAA1293A-03 PROGRAMMING  
**Symptom:** MEMORY LOSS.  
**Cause:** CORRUPTION TO MICRO / EEPROM  
**Cure:** FIT IC1501 TYPE No SAA1293A-03  
P/N T900549 & IC1502 P/N0 E730002  
WHEN FITTED THE PROGRAMMING METHOD  
DIFFERS FROM THAT OF THE ORIGINAL AND

SHOULD BE DONE AS FOLLOWS. .... (CONT)  
 YOU WILL REQUIRE THE REMOTE CONTROL  
 HANDSET (FOUR BATTERY VERSION ONLY)  
 TO EASE PROGRAMMING, A SWITCH CAN BE  
 ADDED TO THE HANDSET.

1) IF IC1 IS TYPE SAA1250, CONNECT THE  
 SWITCH BETWEEN PINS 15 & 23.

..... (CONT)

2) IF IC1 IS TYPE M50467 THEN CONNECT  
 THE SWITCH BETWEEN PINS 12 & 20.

SWITCH THE SET ON.

PUSH THE PROGRAMMING SWITCH ONCE, SO  
 THAT THE CHANNEL INDICATOR DISPLAY  
 READS "CH" , THEN PUSH THE SWITCH A  
 SECOND TIME SO THE DISPLAY NOW SHOWS  
 "OP"..... (CONT).



Model : CPT2198

COLOUR TV

Subject: TUNING SELECTION

Fault: IC1501/2 SAA1293A-03 PROGRAMMING  
 NOW PRESS THE "VOLUME PLUS" BUTTON TO  
 GO TO OPTION BYTE 1. THE CHANNEL  
 INDICATOR DISPLAY WILL SHOW "1" IN THE  
 LEFT HAND DIGIT WINDOW, AND YOU WILL  
 NEED TO SELECT THE CORRECT BITS IN THE  
 RIGHT HAND WINDOW USING THE CHANNEL  
 BUTTONS ON THE HANDSET.

THE BITS ARE NUMBERED THUS ....

..... (CONT)

BIT 1

-----

BIT 6 I I BIT 2  
 I BIT 8 I

-----

BIT 5 I I BIT 3  
 I I

-----

. BIT 7 (DOT)

BIT 4

FOR OPTION BYTE 1 PRESS THE CHANNEL  
 NUMBER BUTTONS ON THE HANDSET TO LIGHT  
 THE FOLLOWING BITS

1, 5, 7, 8. THEN PRESS STORE BUTTON  
 PRESS VOLUME PLUS BUTTON TO PROGRESS  
 TO OPTION BYTE 2 AND LIGHT THE BITS  
 1, 2, 7, 8. THEN PRESS STORE BUTTON  
 PRESS THE VOLUME PLUS BUTTON TO MOVE  
 ON TO OPTION BYTE 3. THEN LIGHT BITS  
 5, 3. THEN PRESS THE STORE BUTTON.  
 (FOR CPT 2598A ALSO LIGHT BIT 7).

PRESS THE VOLUME PLUS BUTTON TO MOVE  
 ON TO OPTION BYTE 4. NOW LIGHT BITS  
 5 ONLY. THEN PRESS THE STORE BUTTON  
 FINALLY SWITCH THE SET TO STANDBY TO



# HITACHI

EXIT THE PROGRAMMING MODE.  
SWITCH THE SET BACK ON AND TUNE IN.

Model: CPT2198 COLOUR TV

Subject: TUNER/IF  
Fault No: 28 DISTORTED SOUND  
CHECK - 10V SUPPLY R934 OPEN CIRCUIT  
PT NO R200551

Model: CPT2198 COLOUR TV

Subject: TUNER/IF  
Fault No: 29 DRIFTING OFF TUNE  
Symptom: DRIFTS OFF TUNE  
Cause: POOR L. T. REGULATION  
Cure: CHECK 33V SUPPLY TO TUNER FOR  
VARIATION. REPLACE IC1503.

Model: CPT2198 COLOUR TV

Subject: TUNER/IF  
Fault: TUNER DRIFT  
VARIATION OF VT30 VOLT RAIL REPLACE  
ZD002 ZTK33B PART NO T536193

Model: CPT2198 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: RESIDUAL SPOT ON SCREEN IN STANDBY  
CHANGE R1541 FROM 10K TO 1K  
CHANGE R1562 FROM 10K TO 1K8

Model: CPT2198 COLOUR TV

Subject: AUDIO  
Fault No: 57 BUZZ ON SOUND  
CHANGE C468 100MFD TO 330MFD 16VW PT  
NO J0252948R

Model: CPT2198 COLOUR TV

Subject: AUDIO  
Fault: SOUND CANNOT BE REDUCED OR MUTED  
Symptom: SOUND CANNOT BE REDUCED TO  
ZERO, OR MUTED.  
Cause: LEAKY DIODE  
Cure: CHECK / REPLACE D701.



COLOUR TV

Subject: VERTICAL STAGE  
64 WEAK SYNC ON CHANNEL CHANGE  
R932 OR15 HIGH - REPLACE PT NO R002551

COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** FRAME TWITCHING.  
**Symptom:** FRAME TWITCHING.  
**Cause:** DRY JOINT.  
**Cure:** CHECK/RE-MAKE DRY JOINT AT C604.

COLOUR TV

Subject: HORIZONTAL STAGE  
74 NO LINE HOLD  
REPLACE IC431 PT NO T900457

COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** SOUND CANNOT BE REDUCED OR MUTED  
**Symptom:** SOUND CANNOT BE REDUCED TO  
 ZERO, OR MUTED.  
**Cause:** LEAKY DIODE  
**Cure:** CHECK / REPLACE D701.

COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** Q702 FAILS AFTER A FEW HOURS  
**Symptom:** Q702 FAILS AFTER A FEW HOURS  
**Cause:** 12V RAIL LOW  
**Cure:** CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE

COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** SET DEAD DUE TO FAILURE OF Q702  
**Symptom:** SET DEAD, L/OP TRANSISTOR  
Q702 HAS FAILED.  
**Cause:** INTERACTION BETWEEN L701, & L703  
**Cure:** REPLACE Q702 PT/No T636041 WITH  
HITACHI PARTS ONLY.  
EASE L703 AWAY FROM L701 TOWARD R707  
AND SECURE WITH HOT MELT. CHECK FOR DRY  
JOINTS, C710/1/2 L703, R707, R724

Model: CPT2198

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: BRIGHT WHITE SCREEN, THEN GOES OFF  
Symptom: BRIGHT WHITE SCREEN THEN SET  
GOES TO STANDBY.  
Cause: LOW 200V SUPPLY DUE TO C720 LOW  
CAPACITANCE OR LEAKED.  
Cure: REPLACE C720 22uF 250V  
PART NUMBER 0253973  
NOTE. IN EARLY PRODUCTION SETS, C720 MAY  
BE 4.7uF 250V.



Model: CPT2198

COLOUR TV

Subject: TELETEXT  
Fault No: 85 NO TEXT - ONLY TOP LINE  
Symptom: NO TEXT, ONLY TOP LINE ON ONE  
OR MORE CHANNELS.  
Cause: MI PULSE ADJUSTMENT POOR  
Cure: REPLACE C2109 P/No C822562.  
REMOVE WIRE LINK IN PLACE OF VR2107.  
(REFERS TO TECH LINE 623)



Model: CPT2198

COLOUR TV

Subject: TELETEXT  
Fault: REPLACEMENT TEXT PCB NOT WORKING  
THE LATER PCB HAS SHORTER SOCKETS THAN  
THE ORIGINAL PCB. PINS 7, 8, 9 AND 10  
OF PL2102 SHOULD BE LINKED. PIN 10  
IS THE PIN NEAREST THE REAR OF THE  
CTV.  
IF SEVERE SMEARING OCCURS IN TEXT  
MODE, THREE 750HM RESISTORS NEED TO BE  
FITTED TO THE RGB OUTPUTS OF PL2102 TO  
CHASSIS EARTH ON MAIN PCB.



Model: CPT2198

COLOUR TV

Subject: TELETEXT  
Fault: WILL NOT OPERATE ON BAMBOOZLE  
Symptom: WILL NOT OPERATE THE HEXI-  
DECIMAL CODED TELETEXT PAGES - E. G:  
BAMBOOZLE  
Cause: SOFTWARE DIFFERENCES.  
Cure: THIS MODELS CANNOT OPERATE ON  
HEXIDECIMAL TEXT PAGES. THEIR TEXT  
SYSTEM WAS DESIGNED PRIOR TO USE OF  
THESE PAGES, AND NO UPDATE AVAILABLE.





Model: CPT2198 COLOUR TV

**Subject:** PART NUMBER CHANGES  
**Fault:** PART NUMBER FOR STAND INSERTS.  
**Symptom:** PART NUMBER FOR STAND INSERTS  
 IS MISSING FROM THE SERVICE MANUAL.  
**Cause:** PRINTING ERROR.  
**Cure:** PART NUMBER IS G878021.

Model: CPT2218 COLOUR TV (GH/TV)

**Subject:** VERTICAL STAGE  
**Fault:** FRAME COLLAPSE  
**Symptom:** FRAME COLLAPSE.  
**Cause:** INTERMITTANT FRAME MODULE / DRY CAPACITOR  
**Cure:** CHANGE FRAME MODULE HM6251. ALSO CHECK C610 220uF 50V CAPACITOR AS THIS MAY HAVE DRIED OUT.

Model: CPT2226 COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SMALL PICTURE IN STANDBY.  
**Symptom:** SET DOESN' T SWITCH TO STANDBY  
PRODUCES SMALL PICTURE INSTEAD.  
**Cause:** FAULTY TRANSISTOR.  
**Cure:** REPLACE Q901, 2SD787, USING  
PT. NO. 2323091.

Model : CPT2228                      COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SMALL PICTURE IN STANDBY.  
**Symptom:** SET DOESN' T SWITCH TO STANDBY  
PRODUCES SMALL PICTURE INSTEAD.  
**Cause:** FAULTY TRANSISTOR.  
**Cure:** REPLACE Q901, 2SD787, USING  
PT. NO. 2323091.

Model: CPT2234                      COLOUR TV (NP83CQ)

Subject: Y/C SIGNAL PROCESSING  
Fault No: 51 NO RASTER  
CHECK SANDCASTLE PULSE IF MISSING  
CHANGE Q551 PT NO T631275 AND Q552 PT  
NO T631276

Model : CPT2234                      COLOUR TV (NP83CQ)

Subject: Y/C SIGNAL PROCESSING  
Fault No: 52 NO RASTER



CHECK VOLTAGE A1 ON CRT BASE IF LOW  
CHECK S9 851 S/C OR C814 C815 PT NO  
E884103 S/C



Model: CPT2234 COLOUR TV (NP83CQ)

Subject: Y/C SIGNAL PROCESSING  
Fault No: 53 BRIGHT PICTURE FLYBACK LINES  
CHECK 200 VOLT SUPPLY TO CRT BASE IF  
LOW CHECK R715 PT NO R200551 HIGH OR  
O/C



Model: CPT2234 COLOUR TV (NP83CQ)

Subject: VERTICAL STAGE  
Fault No: 70 FRAME ROLL  
CHANGE R748 FROM 82KOHM TO 68KOHM



Model: CPT2236 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 51 NO RASTER  
CHECK SANDCASTLE PULSE IF MISSING  
CHANGE Q551 PT NO T631275 AND Q552 PT  
NO T631276



Model: CPT2238 COLOUR TV

Subject: TUNER/IF  
Fault No: 4 TEXT DROP OUT  
CHANGE R217 FROM 330 OHM TO 120 OHM



Model: CPT2238 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 53 BRIGHT PICTURE FLYBACK LINES  
CHECK 200 VOLT SUPPLY TO CRT BASE IF  
LOW CHECK R715 PT NO R200551 HIGH OR  
O/C



Model: CPT2244 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 5 NOT GOING INTO STANDBY  
CHECK D912 PT NO 233459 LEAKY



Model: CPT2244 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 52 NO RASTER

# HITACHI

CHECK VOLTAGE A1 ON CRT BASE IF LOW  
CHECK S9 851 S/C OR C814 C815 PT NO  
E884103 S/C

Model: CPT2246 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 5 NOT GOING INTO STANDBY  
CHECK D912 PT NO 233459 LEAKY

Model: CPT2246 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 20 NOT GOING INTO STANDBY  
CHECK Q1431 PT NO 2324323 D912 PT NO  
2334591 REFER TECHLINE 597

Model: CPT2246 COLOUR TV

Subject: TUNING SELECTION  
Fault No: 26 WRONG DISPLAY AND FUNCTIONS  
CHECK 5V SUPPLY CITAC PCB CHECK FS1401

Model: CPT2246 COLOUR TV

Subject: TUNING SELECTION  
Fault: NO SOUND / PICTURE  
Symptom: THE SET APPEARS TO HAVE SHUT  
DOWN, BUT THE CHANNEL IDENT REMAINS ON  
Cause: ESD DISCHARGE.  
Cure: DELETE DIODES ZD1508 & ZD1509.  
ADD A CAPACITOR 22nF FROM PIN 28 OF IC  
1501 AND GROUND.

Model: CPT2246 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 45 PICTURE GOING DARK  
C850 PT NO 02442155 C851 PT NO  
02442155 LEAKY

Model: CPT2246 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 47 POOR SYNC NO TUNING LOCK  
REPLACE R747 PT NO R120330

Model: CPT2246 COLOUR TV

Subject: Y/C SIGNAL PROCESSING



Fault No: 51 NO RASTER  
CHECK SANDCASTLE PULSE IF MISSING  
CHANGE Q551 PT NO T631275 AND Q552 PT  
NO T631276

Model: CPT2246 COLOUR TV

**Subject: Y/C SIGNAL PROCESSING**

Fault No: 52 NO RASTER  
CHECK VOLTAGE A1 ON CRT BASE IF LOW  
CHECK S9 851 S/C OR C814 C815 PT NO  
E884103 S/C

Model : CPT2248 COLOUR TV

**Subject: POWER SUPPLY**

Fault No: 5 NOT GOING INTO STANDBY  
CHECK D912 PT NO 233459 LEAKY

Model: CPT2248 COLOUR TV

**Subject: POWER SUPPLY**

Fault No: 20 NOT GOING INTO STANDBY  
CHECK Q1431 PT NO 2324323 D912 PT NO  
2334591 REFER TECHLINE 597

Model: CPT2248 COLOUR TV

**Subject: TUNING SELECTION**

**Fault No: 26 WRONG DISPLAY AND FUNCTIONS**  
**CHECK 5V SUPPLY CITAC PCB CHECK FS1401**

Model: CPT2248 COLOUR TV

**Subject: TUNING SELECTION**

**Fault: NO SOUND / PICTURE**

**Symptom:** THE SET APPEARS TO HAVE SHUT  
DOWN, BUT THE CHANNEL IDENT REMAINS ON

**Cause: ESD DISCHARGE.**

**Cure: DELETE DIODES ZD1508 & ZD1509.  
ADD A CAPACITOR 22nF FROM PIN 28 OF IC  
1501 AND GROUND.**

Model : CPT2248 COLOUR TV

**Subject: TUNER/I F**

**Fault t No: 4 TEXT DROP OUT**  
**CHANGE R217 FROM 330 OHM TO 120 OHM**



Model : CPT2248 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 45 PICTURE GOING DARK  
C850 PT NO 02442155 C851 PT NO  
02442155 LEAKY

Model: CPT2248 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 47 POOR SYNC NO TUNING LOCK  
REPLACE R747 PT NO R120330

Model: CPT2248 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 51 NO RASTER  
CHECK SANDCASTLE PULSE IF MISSING  
CHANGE Q551 PT NO T631275 AND Q552 PT  
NO T631276

Model : CPT2248 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 52 NO RASTER  
CHECK VOLTAGE A1 ON CRT BASE IF LOW  
CHECK S9 851 S/C OR C814 C815 PT NO  
E884103 S/C

Model : CPT2248                      COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault No:** 53 BRIGHT PICTURE FLYBACK LINES  
CHECK 200 VOLT SUPPLY TO CRT BASE IF  
LOW CHECK R715 PT NO R200551 HIGH OR  
O/C

Model: CPT2274 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 52 NO RASTER  
CHECK VOLTAGE A1 ON CRT BASE IF LOW  
CHECK S9 851 S/C OR C814 C815 PT NO  
E884103 S/C

Model : CPT2276 COLOUR TV

Subject: TUNING SELECTION  
Fault No: 26 WRONG DISPLAY AND FUNCTIONS  
CHECK 5V SUPPLY CITAC PCB CHECK FS1401





COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 51 NO RASTER  
CHECK SANDCASTLE PULSE IF MISSING  
CHANGE Q551 PT NO T631275 AND Q552 PT  
NO T631276

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 53 BRIGHT PICTURE FLYBACK LINES  
CHECK 200 VOLT SUPPLY TO CRT BASE IF  
LOW CHECK R715 PT NO R200551 HIGH OR  
O/C

COLOUR TV

Subject: TUNING SELECTION  
Fault No: 26 WRONG DISPLAY AND FUNCTIONS  
CHECK 5V SUPPLY CITAC PCB CHECK FS1401

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 51 NO RASTER  
CHECK SANDCASTLE PULSE IF MISSING  
CHANGE Q551 PT NO T631275 AND Q552 PT  
NO T631276

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 52 NO RASTER  
CHECK VOLTAGE A1 ON CRT BASE IF LOW  
CHECK S9 851 S/C OR C814 C815 PT NO  
E884103 S/C

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 53 BRIGHT PICTURE FLYBACK LINES  
CHECK 200 VOLT SUPPLY TO CRT BASE IF  
LOW CHECK R715 PT NO R200551 HIGH OR  
O/C

COLOUR TV

Subj ect: POWER SUPPLY  
Fault No: 12 SCREECH IN STANDBY  
REPLACE C933 33PF WITH 100PF

PT NO C120182

Model: CPT2476

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 13 INTERMITTENT GOES TO STANDBY  
REPLACE IC1101 PT NO 2915081/2915082  
REPLACE Q904 PT NO 2323271  
REPLACE Q905 PT NO 2320596  
REPLACE IC501 PT NO 2913612  
NB1 PT NO 2915081 (M50432-551SP) IS  
NOT INTERCHANGEABLE WITH PT NO  
2915082 (M50432-552SP)  
NB2 THIS FAULT CAN ALSO BE CAUSED BY  
CRT FLASHOVER REFER TO TECH LINE 619

Model: CPT2476

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 15 DEAD  
DISCONNECT L795 TO ISOLATE LINE OUTPUT  
STAGE IF POWER SUPPLY WILL RUN OK  
CHECK T761 ZD752 ZD753

Model: CPT2476

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 59 VOLUME WILL NOT ADJUST  
Q1108 PT NO 2320596

Model: CPT2476

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 66 LACK OF HEIGHT  
CP901 PT NO 2371675  
C611 PT NO 0276835F

Model: CPT2476

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 67 TOP PIC DISTORTED & LIGHT HORIZ BAR  
CP901 PT NO 2371675  
NB HT VOLTAGE IS VERY CRITICAL

Model: CPT2476

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 73 DEAD  
DISCONNECT L795 TO ISOLATE LINE OUTPUT  
STAGE IF POWER SUPPLY WILL RUN OK  
CHECK T761 ZD752 ZD753

Model: CPT2476

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 76 TOP OF PICTURE PULLING ON VCR  
REFER TO TECHLINE 612 MODIFY VALUE OF  
R706 AND R716

Model: CPT2476

COLOUR TV

Subject: POWER SUPPLY  
Fault: WHISTLE FORM POWER SUPPLY  
SECTION: PSU  
CONDITION: 1  
Symptom: 144 NOISEY TRANSFORMER  
DEFECT: A LOW CAPACITANCE  
REPAIR: A REPLACE C909 WITH  
270uF PT. # 0258609

Model: CPT2476

COLOUR TV

Subject: TUNING SELECTION  
Fault No: 21 ON SWITCH ON NORMALISE LEVELS WRONG  
PLEASE REFER TO TECH LINE 607

Model: CPT2476

COLOUR TV

Subject: TUNER/IF  
Fault No: 30 DIFTING  
IF TUNER IS TYPE BY21 BY21A OR BY22  
PLEASE REPLACE WITH PT NO E710019  
NB THIS ONLY APPLIES WHEN MULLARD  
TUNER IS USED  
EARLY TYPE ET568A TUNER AND MULLARD  
TYPE ARE NOT INTERCHANGEABLE

Model: CPT2476

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 33 RED OR GREEN CREEPING FROM SIDE  
IC1104 PT NO 2915091

Model: CPT2476

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 34 FULL BRIGHTNESS RED OR GREEN RASTER  
IC1104 PT NO 2915091  
SEE ALSO TECH LINE 619



Model : CPT2476 COLOUR TV

Subj ect: Y/C SIGNAL PROCESSING  
 Faul t No: 36 WEAK PICTURE LACKS CONTRAST  
 IC1104 2915092  
 Q1112 2320596  
 D1120 T531053

Model: CPT2476 COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault No:** 37 BRIGHT WHITE RASTER  
 Q301 PT NO 2320637  
 Q302 PT NO 2320596

Model: CPT2476 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 38 ON SWITCH ON NORMALISE LEVELS WRONG  
PLEASE REFER TO TECH LINE 607

Model: CPT2476 COLOUR TV

Subj ect: Y/C SIGNAL PROCESSING

Fault No: 42 WEAK PICTURE CAN LOOK LIKE FLAT CRT

IC1104 PT NO 2915091

Q1112 PT NO 2320596

D1120 PT NO T531053

Model : CPT2476 COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault No:** 44 CHROMA OK BUT WEAK OR NO LUMINANCE  
 Q1112 PT NO 2320596  
 D1120 PT NO T531053  
 IC1104 PT NO 2915091 FOR 2176 2476  
 IC1104 PT NO 2915092 FOR 2178 2478

Model: CPT2476 COLOUR TV

**Subject: AUDIO**  
**Fault No: 56 DISTORTED SOUND**  
**CHECK FEEDBACK LOOP R401 C401 AND ASSOCIATED PRINTED CIRCUIT**

Model: CPT2476 COLOUR TV

Subject: AUDIO  
Fault No: 58 BUZZ ON SOUND WHEN USING VCR  
REPLACE R224 68K WITH 18K  
PT NO J0187095M

Model: CPT2476 COLOUR TV

Subject: VERTICAL STAGE  
Fault No: 65 LINES AT BOTTOM OF SCREEN  
C686 PT NO 0274755R

Model: CPT2476 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault No: 72 INTERMITTENT GOES TO STANDBY  
REPLACE IC1101 PT NO 2913561  
REPLACE Q904 PT NO 2323271  
REPLACE Q905 PT NO 2320596  
REPLACE IC501 PT NO 2913612  
NB THIS FAULT CAN ALSO BE CAUSED BY  
CRT FLASHOVER REFER TO TECH LINE 619

Model: CPT2476 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: NO PICTURE, LINE WHISTLES  
Symptom: NO PICTURE ON SCREEN, BUT A  
DISTINCT WHISTLE CAN BE HEARD FROM THE  
LINE STAGE.  
Cause: LEAKY / LOW VALUE CAPACITOR.  
Cure: REPLACE C782.

Model: CPT2476 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: FLARES BRIGHT WHITE, THEN SHUTS OFF  
Symptom: PICTURE FLARES UP BRIGHT  
WHITE, MAY FLASH OVER, THEN SHUTS DOWN  
Cause: INTERMITTENT REGULATOR.  
Cure: CHECK / REPLACE Q791 12V REG  
PART NUMBER : 2324611

Model: CPT2478 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 12 SCREECH IN STANDBY  
REPLACE C933 33PF WITH 100PF  
PT NO C120182

Model: CPT2478 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 13 INTERMITTENT GOES TO STANDBY  
REPLACE IC1101 PT NO 2915081/2915082  
REPLACE Q904 PT NO 2323271  
REPLACE Q905 PT NO 2320596

# HITACHI

REPLACE IC501 PT NO 2913612  
NB1 PT NO 2915081 (M50432-551SP) IS  
NOT INTERCHANGEABLE WITH PT NO  
2915082 (M50432-552SP)  
NB2 THIS FAULT CAN ALSO BE CAUSED BY  
CRT FLASHOVER REFER TO TECH LINE 619

Model: CPT2478 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 15 DEAD  
DISCONNECT L795 TO ISOLATE LINE OUTPUT  
STAGE IF POWER SUPPLY WILL RUN OK  
CHECK T761 ZD752 ZD753

Model: CPT2478 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 59 VOLUME WILL NOT ADJUST  
Q1108 PT NO 2320596

Model: CPT2478 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 66 LACK OF HEIGHT  
CP901 PT NO 2371675  
C611 PT NO 0276835F

Model: CPT2478 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 67 TOP PIC DISTORTED & LIGHT HORIZ BAR  
CP901 PT NO 2371675  
NB HT VOLTAGE IS VERY CRITICAL

Model: CPT2478 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 73 DEAD  
DISCONNECT L795 TO ISOLATE LINE OUTPUT  
STAGE IF POWER SUPPLY WILL RUN OK  
CHECK T761 ZD752 ZD753

Model: CPT2478 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 76 TOP OF PICTURE PULLING ON VCR  
REFER TO TECHLINE 612 MODIFY VALUE OF  
R706 AND R716



Model: CPT2478 COLOUR TV

**Subject: POWER SUPPLY**

Fault No: 80 TOP LINE OK NO OTHER TEXT  
ICZ102 PT NO T900433

Model: CPT2478 COLOUR TV

**Subject: POWER SUPPLY**

**Fault No:** 81 NO SYNC ON TEXT  
ICZ108 PT NO T900438  
ICZ102 PT NO T900433

Model: CPT2478 COLOUR TV

**Subject: POWER SUPPLY**

Fault No: 82 TOP LINE CORRUPT NO OTHER TEXT  
IC Z102 PT NO T900433  
IC Z105 PT NO T900436  
IC Z106 PT NO T900436

Model: CPT2478 COLOUR TV

**Subject: POWER SUPPLY**

Fault No: 83 WILL NOT SELECT TEXT  
IC1101 PT NO 2913561  
ICZ104 PT NO T900443  
ICZ109 PT NO T900439

Model: CPT2478 COLOUR TV

**Subject: POWER SUPPLY**

Fault No: 84 MISSING SUB PAGES  
INCORRECT USAGE OF SYSTEM PLEASE  
REFER TO TECH LINE 616

Model: CPT2478 COLOUR TV

**Subject: POWER SUPPLY**

**Fault: WHISTLE FORM POWER SUPPLY**

SECTION: PSU

**CONDITION: 1**

**Symptom: 144 NOISY TRANSFORMER**

**DEFECT: A LOW CAPACITANCE**

**REPAIR:**      A      REPLACE C909 WITH  
270uF PT. # 0258609

Model: CPT2478 COLOUR TV

**Subject: TUNER/I F**

Fault No: 30 DIFTING

# HITACHI

IF TUNER IS TYPE BY21 BY21A OR BY22  
PLEASE REPLACE WITH PT NO E710019  
NB THIS ONLY APPLIES WHEN MULLARD  
TUNER IS USED  
EARLY TYPE ET568A TUNER AND MULLARD  
TYPE ARE NOT INTERCHANGEABLE

Model: CPT2478

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 35 FULL BRIGHTNESS RED OR GREEN RASTER  
IC1104 PT NO 2915092  
SEE ALSO TECH LINE 619

Model: CPT2478

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 36 WEAK PICTURE LACKS CONTRAST  
IC1104 2915092  
Q1112 2320596  
D1120 T531053

Model: CPT2478

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 37 BRIGHT WHITE RASTER  
Q301 PT NO 2320637  
Q302 PT NO 2320596

Model: CPT2478

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 39 ALTERING GREY SCALE  
IC2107 PT NO T900437  
TEXT PCB

Model: CPT2478

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 43 RED/GREEN CREEPING FROM SIDE OF PIC  
IC1104 PT NO 2915092

Model: CPT2478

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 44 CHROMA OK BUT WEAK OR NO LUMINANCE  
Q1112 PT NO 2320596  
D1120 PT NO T531053  
IC1104 PT NO 2915091 FOR 2176 2476  
IC1104 PT NO 2915092 FOR 2178 2478



Model: CPT2478 COLOUR TV

Subject: AUDIO  
Fault No: 56 DISTORTED SOUND  
CHECK FEEDBACK LOOP R401 C401 AND  
ASSOCIATED PRINTED CIRCUIT

Model: CPT2478 COLOUR TV

Subject: VERTICAL STAGE  
Fault No: 65 LINES AT BOTTOM OF SCREEN  
C686 PT NO 0274755R

Model: CPT2478 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault No: 72 INTERMITTENT GOES TO STANDBY  
REPLACE IC1101 PT NO 2913561  
REPLACE Q904 PT NO 2323271  
REPLACE Q905 PT NO 2320596  
REPLACE IC501 PT NO 2913612  
NB THIS FAULT CAN ALSO BE CAUSED BY  
CRT FLASHOVER REFER TO TECH LINE 619

Model: CPT2478 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: NO PICTURE, LINE WHISTLES  
Symptom: NO PICTURE ON SCREEN, BUT A  
DISTINCT WHISTLE CAN BE HEARD FROM THE  
LINE STAGE.  
Cause: LEAKY / LOW VALUE CAPACITOR.  
Cure: REPLACE C782.

Model: CPT2478 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: FLARES BRIGHT WHITE, THEN SHUTS OFF  
Symptom: PICTURE FLARES UP BRIGHT  
WHITE, MAY FLASH OVER, THEN SHUTS DOWN  
Cause: INTERMITTENT REGULATOR.  
Cure: CHECK / REPLACE Q791 12V REG  
PART NUMBER : 2324611

Model: CPT2478 COLOUR TV

Subject: TELETEXT  
Fault No: 79 ONE COLOUR MISSING ON TEXT  
IC Z103 PT NO T900434  
IC Z107 PT NO T900437

Model: CPT2488 COLOUR TV

Subject: POWER SUPPLY  
Fault: WILL NOT START FROM COLD  
Symptom: SET WILL NOT START FROM COLD  
OR TAKES A WHILE TO COME ON.  
Cause: LEAKY CAPACITOR  
Cure: REPLACE CB604, CB601

Model: CPT2488 COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET  
Symptom: SET DEAD. 8.5V SUPPLY HAS  
REDUCED IN VALUE.  
Cause: LEAKY TRANSISTOR.  
Cure: CHECK / REPLACE TB541. TYPE BC557  
PART NO SAL JMD100

Model: CPT2488 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: INTERMITTANT BLANK PICTURE  
Symptom: PICTURE BLANKS OUT RANDOMLY  
Cause: OXIDATION OF LINKS / FAULTY  
TRANSISTORS  
Cure: REPLACE TINNED COPPER WIRE LINKS  
ON TELETEX PCB WHICH SOLDER ON TOP  
(COMPONENT) SIDE OF BOARD. IF FAULT  
PERSISTS CHECK / REPLACE TG9 AND TG13

Model: CPT2488 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: DEAD SET  
Symptom: SET DEAD. 8.5V SUPPLY HAS  
REDUCED IN VALUE.  
Cause: LEAKY TRANSISTOR.  
Cure: CHECK / REPLACE TB541. TYPE BC557  
PART NO SAL JMD100

Model: CPT2488 COLOUR TV

Subject: TELETEX  
Fault: PICTURE BLANKS OUT INT/WHEN COLD  
Symptom: WHEN SWITCHED ON FROM COLD  
THE PICTURE CAN BE EITHER PARTIALLY OR  
FULLY BLANKED OUT. IT MAY BLANK OUT  
INTERMITTANTLY WHEN WARM ALSO.  
Cause: OXIDISED WIRE LINKS ON TEXT PCB  
Cure: REPLACE WITH NEW TINNED COPPER



WIRE THE FOLLOWING LINKS: J33, J30, J24  
J20, J19, J40, J5. (ON TEXT PCB).

Model: CPT2488 COLOUR TV

Subject: TELETXT  
Fault: NO TEXT.  
Symptom: NO TEXT.  
Cause: FAULTY TRANSISTORS.  
Cure: CHECK/REPLACE TRANSISTORS TG9 &  
TG13. PT. NOS. JM0099.

Model: CPT2508 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 14 DEAD SET  
REPLACE Q901 - CHANGE C914 FROM 2.2MF  
TO 10MF PT NO C170955  
ADD A 2R70HM RESISTOR PT NO R207330 IN  
PARALLEL WITH R906 AND R906A

Model: CPT2508 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 19 INTERMITTENT DEAD  
Symptom: SET INTERMITTANT DEAD.  
Cause: RESISTORS & CAP BREAK DOWN UNDER  
LOAD CONDITIONS  
Cure: REPLACE R919, 920, 931, 932 & C912  
(THESE MAY MEASURE CORRECTLY ON COLD  
CHECKS WITH A METER)  
(SEE ALSO TECHLINE 634)

Model: CPT2508 COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTENT CUT OUT  
Symptom: INTERMITTANT NON OPERATION  
FROM COLD &/OR DEAD SET  
Cause: CAPACITOR GOES O/C  
Cure: REPLACE C912

Model: CPT2508 COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET  
REPLACE Q901 (BUT11AF) PART NO\*T636035  
WITH HITACHI SUPPLIED PARTS ONLY. CHECK  
R901 PART NO 0141175 AND MAIN FUSE  
F5701, PART NO 2721292, FOR OPEN  
CIRCUIT. REPLACE AS NECESSARY.  
ON EARLIER MODELS C914 IS 2.2 UF. THIS

# HITACHI

SHOULD BE UPDATED TO 10 UF PART NO 080018R AND A 2.7 OHM RESISTOR SHOULD BE FITTED IN PARALLEL WITH R906 AND R906A, PART NO R207330.

PLEASE NOTE: BUT11AF SUPPLIED BY HITACHI ARE SPECIALLY SELECTED AND ARE THE ONLY PARTS TO BE USED IN THESE MODELS.

ALTERNATIVELY SOURCED PARTS MAY FAIL WITHIN A SHORT PERIOD OF TIME.

\*PLEASE SEE TECH LINE BULLETIN NO. 627



**Model:** CPT2508                      **COLOUR TV**

**Subject:** POWER SUPPLY

**Fault:** DEAD OR INTERMITTANT DEAD

REPLACE R919, R920, R931, R932, AND C912



**Model:** CPT2508                      **COLOUR TV**

**Subject:** POWER SUPPLY

**Fault:** DEAD SET, C919 PHYSICALLY CRACKED.

**Symptom:** SET DEAD.

**Cause:** C919 PHYSICALLY CRACKED

**Cure:** REPLACE C919 WITH 2 X 2N2F 2.2KV  
WORKING PART NUMBER J0244215



**Model:** CPT2508                      **COLOUR TV**

**Subject:** POWER SUPPLY

**Fault:** DEAD SET, LOW H. T.

**Symptom:** SET DEAD. HT LOW AT ABOUT 35V

**Cause:** O/C / LEAKY CAPACITOR.

**Cure:** CHECK/REPLACE C910.



**Model:** CPT2508                      **COLOUR TV**

**Subject:** TUNING SELECTION

**Fault:** NO REMOTE OPERATION / NO TUNING

**Symptom:** SET WILL NOT RESPOND TO ANY  
REMOTE COMMANDS. SET WILL NOT TUNE IN,  
JUST A SNOW STORM ON SCREEN.

**Cause:** FRAME PULSE TO MICRO REDUCED

**Cure:** REPLACE I. C. 601  
(CHECK FOR V. PULSE TO MICRO SHOULD BE  
APPROX 30V P/P)



**Model:** CPT2508                      **COLOUR TV**

**Subject:** TUNING SELECTION

**Fault:** NO TUNING, NO REMOTE OP



**Symptom:** SET CANNOT BE TUNED IN, OR  
RESPOND TO REMOTE COMMANDS

**Cause:** CORRUPTED FRAME PULSE

**Cure:** CHECK FOR V. PULSE TO MICRO, APROX  
30V P/PK. IF REDUCED REPLACE I. C. 601

COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** PURITY ERROR ON PK WHITE(R VERSION)  
**Symptom:** INTERMITTENT PURITY ERRORS ON  
 PEAK WHITE PICTURE CONTENT. (R VERSION)  
**Cause:** CRT DOMING.  
**Cure:** INPUT COLOUR BARS. SET BRIGHT &  
 COLOUR TO MIN, CONTRAST TO MAX. SCOPE  
 GREEN CATHODE, AND VARY THE VALUE OF  
 R128 BETWEEN 10K & 22K TO GIVE A PK/PK  
 WHITE TO BLACK LEVEL OF 80-90V

COLOUR TV

**Subject:** AUDIO  
**Fault No:** 55 **SIBILANCE**  
**Symptom:** SIBILANCE.  
**Cause:** TOP END EMPHASIS  
**Cure:** CHANGE R402 FROM 100R TO 2K7  
                   CHANGE C406 FROM 47nF TO 22nF  
                   CONNECT THE NON EARTHED END TO R402 AT  
                   THE JUNCTION WITH C315 & C316.  
                   CHANGE C415 & 418 FROM 22nF TO 68nF

COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** WHITE PICTURE AND/OR LOW CONTRAST  
**Symptom:** WHITE PICTURE, AND OR LOW CONTRAST.  
**Cause:** CAPACITOR O/C OR LEAKY  
**Cure:** CHECK / REPLACE C720

COLOUR TV

Subject: TELETEXT  
Fault No: 85 NO TEXT - ONLY TOP LINE  
Symptom: NO TEXT, ONLY TOP LINE ON ONE  
OR MORE CHANNELS.  
Cause: M1 PULSE ADJUSTMENT POOR  
Cure: REPLACE C2109 P/No C822562.  
REMOVE WIRE LINK IN PLACE OF VR2107.  
(REFERS TO TECH LINE 623)

Model: CPT2508

COLOUR TV

Subject: TELETEXT

Fault: REPLACEMENT TEXT PCB NOT WORKING  
THE LATER PCB HAS SHORTER SOCKETS THAN  
THE ORIGINAL PCB. PINS 7, 8, 9 AND 10  
OF PL2102 SHOULD BE LINKED. PIN 10  
IS THE PIN NEAREST THE REAR OF THE  
CTV.  
IF SEVERE SMEARING OCCURS IN TEXT  
MODE, THREE 750HM RESISTORS NEED TO BE  
FITTED TO THE RGB OUTPUTS OF PL2102 TO  
CHASSIS EARTH ON MAIN PCB.



Model: CPT2508

COLOUR TV

Subject: SERVICE INFORMATION

Fault: SCAN COILS CONNECTIONS MISSING  
SCAN COILS CONNECTIONS NOT SHOWN IN  
SERVICE MANUAL.  
CONNECTIONS FOR CRT A66ECF00X01 VIEWED  
FROM BACK OF SET, FROM LEFT ARE  
ORANGE/YELLOW/RED/NO CONNECTION/WHITE.



Model: CPT2508

COLOUR TV

Subject: SERVICE INFORMATION

Fault: REPLACEMENT CRT  
PLEASE NOTE THAT TWO TYPES OF CRT WERE  
USED IN THE CPT2508  
CPT2508 MULLARD TYPE PT/NO T159003  
CPT2508R NOKIA TYPE PT/NO SAL NMD321  
ENSURE THAT YOU FIT THE CORRECT TYPE  
OF CRT AS THE TWO ARE NOT  
INTER-CHANGABLE



Model: CPT2528

COLOUR TV

Subject: POWER SUPPLY

Fault No: 14 DEAD SET  
REPLACE Q901 - CHANGE C914 FROM 2.2MF  
TO 10MF PT NO C170955  
ADD A 2R70HM RESISTOR PT NO R207330 IN  
PARALLEL WITH R906 AND R906A



Model: CPT2528

COLOUR TV

Subject: POWER SUPPLY

Fault No: 19 INTERMITTENT DEAD  
Symptom: SET INTERMITTANT DEAD.  
Cause: RESISTORS & CAP BREAK DOWN UNDER  
LOAD CONDITIONS  
Cure: REPLACE R919, 920, 931, 932 & C912



(THESE MAY MEASURE CORRECTLY ON COLD  
CHECKS WITH A METER)  
(SEE ALSO TECHLINE 634)

Model: CPT2528 COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTENT CUT OUT  
Symptom: INTERMITTANT NON OPERATION  
FROM COLD &/OR DEAD SET  
Cause: CAPACITOR GOES O/C  
Cure: REPLACE C912

Model: CPT2528 COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD OR INTERMITTANT DEAD  
REPLACE R919, R920, R931, R932, AND  
C912

Model: CPT2528 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: NO EHT. LOW HT VOLTS  
CHANGE T702 FBT. PART NO 2435013

Model: CPT2538 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 14 DEAD SET  
REPLACE Q901 - CHANGE C914 FROM 2.2MF  
TO 10MF PT NO C170955  
ADD A 2R70HM RESISTOR PT NO R207330 IN  
PARALLEL WITH R906 AND R906A

Model: CPT2538 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 19 INTERMITTENT DEAD  
Symptom: SET INTERMITTANT DEAD.  
Cause: RESISTORS & CAP BREAK DOWN UNDER  
LOAD CONDITIONS  
Cure: REPLACE R919, 920, 931, 932 & C912  
(THESE MAY MEASURE CORRECTLY ON COLD  
CHECKS WITH A METER)  
(SEE ALSO TECHLINE 634)

Model: CPT2538 COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTENT CUT OUT

# HITACHI

CHECK C912 FOR DRY JOINT OR OPEN  
CIRCUIT

Model: CPT2538

COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD OR INTERMITTANT DEAD  
REPLACE R919, R920, R931, R932, AND  
C912

Model: CPT2538

COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD SET, C919 PHYSICALLY CRACKED.

Symptom: SET DEAD.

Cause: C919 PHYSICALLY CRACKED

Cure: REPLACE C919 WITH 2 X 2N2F 2.2KV  
WORKING PART NUMBER J0244215

Model: CPT2538

COLOUR TV

Subject: TUNER/IF

Fault: TUNER DRIFT

VARIATION OF VT30 VOLT RAIL REPLACE  
ZD002 ZTK33B PART NO T536193

Model: CPT2538

COLOUR TV

Subject: AUDIO

Fault No: 55 SIBILANCE

Symptom: SIBILANCE.

Cause: TOP END EMPHASIS

Cure: CHANGE R402 FROM 100R TO 2K7

CHANGE C406 FROM 47nF TO 22nF

CONNECT THE NON EARTHED END TO R402 AT  
THE JUNCTION WITH C315 & C316.

CHANGE C415 & 418 FROM 22nF TO 68nF

Model: CPT2568

COLOUR TV

Subject: POWER SUPPLY

Fault No: 16 SET GOES INTO STANDBY AFTER 5 MINS  
IC1101 PT NO 2913241 OR Q1142 PT NO  
T631275 OR IN AREA OF D1141 D1142

Model: CPT2568

COLOUR TV

Subject: POWER SUPPLY

Fault No: 17 SET TRIPS OR DEAD  
R945 R946 DRY JOINT OR HIGH RESISTANCE



Model: CPT2568 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 68 NO SYNC IN TEXT OR TV MODE  
IC 2203 PT NO T900380

Model: CPT2568 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 77 POOR PICTURE SYNC IN TRICK PLAYBACK  
FIT 12K RES BETWEEN 12V LINE AND PIN  
22 IC201. ALSO FIT 4700HM RES FROM  
PIN 22 TO EARTH.

Model: CPT2568 COLOUR TV

Subject: TUNER/IF  
Fault No: 27 WEAK AFC  
CHECK TECH LINE 618. NB ONLY 4Y  
VERSION AVAILABLE WITH MODIFICATION  
KIT OF SPARES PART NO T900440, THIS  
CONVERTS THE 2Y VERSIONS TO ALLOW  
THE 4Y VERSION TO BE FITTED>

Model: CPT2568 COLOUR TV

Subject: TUNER/IF  
Fault No: 31 CHANNEL DRIFT  
SEE TECH LINE 618. ONLY 4Y VERSION NOW  
AVAILABLE. ENSURE MODIFICATION IS  
CARRIED OUT.

Model: CPT2568 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 48 HORIZONTAL BARS IN BACKGROUND  
REMOVE LONG GREEN LEAD THAT RUNS FROM  
PSU EARTH RIGHT ACROSS COMPONENT SIDE  
OF PCB TO IF EARTH

Model: CPT2568 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 49 VERTICAL LINES (ROPING) 1.5IN APART  
SHORT CCT. THE EARTH PRINTS OF THE  
TUNER AND TEXT BOARD. AN IDEAL  
POSITION IS ON THE CORNER OF THE PCB  
UNDER THE TUNER



Model : CPT2568 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault No: 50 HORIZONTAL BLACK LINES WHEN COLD  
IC1301 FAULTY

Model : CPT2568 COLOUR TV

Subject: AUDIO  
Fault No: 61 BUZZ ON SOUND  
FRAME PICK-UP. FIT SHORTING LINK FROM  
PIN 1 IC601 TO -VE SIDE OF C713.

Model : CPT2568 COLOUR TV

Subject: AUDIO  
Fault No: 63 LOW FRAME  
SEE TECH LINE 618. NB ONLY 4Y VERSION  
AVAILABLE. MODIFICATION REQUIRED WHEN  
REPLACING WITH DIFFERENT TYPE.

Model : CPT2568                      COLOUR TV

Subject: VERTICAL STAGE  
Fault No: 63 LOW FRAME  
SEE TECH LINE 618. NB ONLY 4Y VERSION  
AVAILABLE. MODIFICATION REQUIRED WHEN  
REPLACING WITH DIFFERENT TYPE.

Model : CPT2568                      COLOUR TV

**Subject: VERTICAL STAGE**  
**Fault: FRAME COLLAPSE**  
**Symptom: FRAME COLLAPSE**  
**Cause: LEAKY CAPACITOR**  
**Cure: CHECK / REPLACE C607 47nF**  
**PART NUMBER C447715**

Model: CPT2568 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault No: 71 NO SYNC IN TEXT OR TV MODE  
IC 2203 PT NO T900380

Model: CPT2568 COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** LINE PULLING AT TOP ON VCR PLAY  
**Symptom:** LINE PULLING AT TOP OF  
 PICTURE WHILE PLAYING VIDEO TAPES.  
**Cause:** LOW / OPEN CIRCUIT CAPACITOR.

# HITACHI

Cure: CHECK / REPLACE C202 1uF 50V  
PART NUMBER 0253085, FROM PIN 22 OF  
IC201 - COINCIDENCE DETECTOR

Model: CPT2568

COLOUR TV

Subject: TELETEXT  
Fault No: 78 TEXT CORRUPTION (EARLY MODELS)  
SEE TECH LINE 604  
REMOVE L205 AND L007. S/C C010  
ADD 68PFD CAP AND 10M COIL (BOTH IN  
SERIES) ACROSS (IN PARALLEL) R222 ADJ.  
IF CORE FOR BEST TEXT (NORMALLY THIS  
IS JUST BEYOND THREE TURNS FROM THE  
BOTTOM  
PT NOS 68MF CAP 02486803  
10M COIL L420130

Model: CPT2578

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 6 SET COMES ON IN STANDBY MODE.  
Symptom: WHEN SWITCHED ON FROM COLD,  
THE SET COMES ON IN STANDBY. WILL WORK  
OK WHEN OPERATED BY REMOTE CONTROL.  
Cause: TH902 GOES HIGH RESISTANCE  
Cure: REPLACE TH902. (THIS SHOULD READ  
4K7 WHEN COLD)

Model: CPT2578

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 7 DEAD- FUSE OK  
CHECK ZD901 FOR SHORT OR OPEN. IF  
FAULTY, REPLACE TH902 (REGARDLESS OF  
ANY METER READINGS). REPLACE ZD901.  
CHECK ZD902 - IF FAULTY, REPLACE  
ZD902, IC901.  
CHECK C908 (S/C OR ANY SIGN OF BULGE  
OR OVERLOAD). REPLACE C908 IF  
NECESSARY. SEE TECHLINE BULLETIN 628.  
CHECK Q903 & D906 FOR SHORT OR OPEN.  
REPLACE Q903 OR D906 AS REQUIRED.

Model: CPT2578

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 8 DEAD - FUSE O/C  
REPLACE ALL FOLLOWING PARTS  
(REGARDLESS OF ANY METER READINGS):  
TH902, Q901, D905, D907, IC901, ZD902,  
Q902.  
CHECK R910 FOR OPEN CIRCUIT - REPLACE

AS NECESSARY.

CHECK C908, Q903, D906 - REPLACE AS NECESSARY.

THE FOLLOWING PROCEDURE SHOULD ALSO BE CARRIED OUT WHEN REPLACING THE THERMISTOR, AS SOME OF THE PRINT MAY HAVE BECOME DEFECTIVE. VIEWING THE PRINT SIDE OF THE CHASSIS, CONNECT A LEAD FROM THE +VE END OF C906 TO PIN 5 OF T901 USING HOT MELT TO SECURE LEAD AS SHOWN IN DIAGRAM ON ATTACHED PAGE. CONNECT A SECOND LEAD FROM ZD901 CATHODE TO THE JUNCTION OF R905/R909, AGAIN USING HOT MELT TO SECURE LEAD.

P. T. O.

THE USE OF HOT MELT IS ESSENTIAL, AS IT WILL PREVENT THE LEADS FROM ENCROACHING OVER THE SAFETY BARRIER OF THE POWER SUPPLY, SHOULD THEY COME ADRIFT FROM THEIR SOLDERED CONNECTIONS AT A LATER DATE.

SEE TECHLINE 628 FOR DRAWING.



## Model: CPT2578 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 9 SET TRIPS INTERMITTENTLY  
Symptom: SET TRIPS TO STANDBY  
Cause: OVER CURRENT TRIP TOO SENSITIVE  
Cure: SET TRIP AS PER T/LINE 622.  
IF SET CORRECT CHECK THE FOLLOWING  
R910, R907, R914, VR901 IN PSU  
R719 OVER VOLTS SENSING IN LINE, THIS  
IS CRITICAL, 1% TOLLERANCE RESISTOR.



## Model: CPT2578 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 10 COMES ON IN STANDBY  
Symptom: SET COMES ON IN STAND BY MODE,  
BUT WILL THEN OPERATE NORMALLY FROM  
THE REMOTE HANDSET.  
Cause: POWER SUPPLY STARTS SLOWLY  
Cure: CHECK / REPLACE TH902. START UP  
RATE CAN ALSO BE IMPROVED BY CHANGING  
C1500 TO 22uF , REPLACE LINK 579 WITH  
IN4148. CATHODE TO TRANSIENT SWITCH.



## Model: CPT2578 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 11 DEAD- INTERMITTENT DEAD  
Symptom: SET DEAD OR CUTS OUT

# HITACHI

Cause: DRY JOINTS OR CRACKED PRINT  
Cure: CHECK FOR DRY JOINTS AROUND THE  
CHOPPER TRANSFORMER T901. REMOVE OLD  
SOLDER FROM PADS AND CHECK OR CRACKED  
PRINT CLOSE TO PAD  
CHECK D933, T702 FOR DRY JOINTS

Model: CPT2578 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 75 POOR SPOT SUPPRESSION  
Symptom: AFTERGLOW ON SCREEN WHEN SET  
IS SWITCHED OFF  
Cause: INSUFFICIENT SUPPRESSION  
Cure: CHANGE C720 TO 22uF P/N0 J0253973

Model: CPT2578 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 86 NO TEXT  
Symptom: NO TELETEXT.  
Cause: MEMORY LOSS.  
Cure: FOLLOW INSTRUCTIONS ON TECH LINE  
620/621, WHICH CAN BE FOUND UNDER THE  
TUNING AND SELECTION SECTION FOR THIS  
MODEL.

Model: CPT2578 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 87 INCORRECT TEXT PAGE No REGISTERED  
Symptom: WHEN IN TELETEXT MODE ANY  
PAGE NUMBER DIALED IN REGISTERS WRONG.  
I. E. 123 BECOMES 234.  
Cause: CORRUPTION TO MEMORY  
Cure: FOLLOW TECH LINE 620/621

Model: CPT2578 COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD DUE TO FAILURE OF Q702  
Cause: INTERACTION BETWEEN L701 & L703  
Cure: ENSURE REPLACEMENT OF Q702 WITH  
HITACHI SPARE PART NUMBER T636041.  
EASE L703 AWAY FROM L701 BY MOVING IT  
TOWARD R707. IT SHOULD THEN BE SECURED  
IN PLACE USING HOT MELT. FURTHER MORE  
ENSURE THAT L703 DOES NOT CROSS THE  
THICK BARRIER LINE MARKED ON THE PCB  
AND THAT L701 IS UPRIGHT.  
YOU SHOULD ALSO CHECK THE FOLLOWING



Model : CPT2578

COLOUR TV

**Subject: POWER SUPPLY**

**Fault: SET DEAD DUE TO FAILURE OF Q702  
FOR DRY JOINTS:**

**C711, C712, C710, L703, R707, R724  
SEE TECHLINE BULLETIN NO 631 FOR  
SKETCH**

Model : CPT2578

COLOUR TV

**Subject: POWER SUPPLY**

**Fault: INTERMITTANT TO STANDBY**

**Symptom:** SET INTERMITTANTLY GOES INTO  
STANDBY.

**Cause: RESISTORS VARY IN VALUE.**

**Cure:** CHECK / REPLACE THE FOLLOWING

**R719 220K 0.24W 1% TOL P/NO R252721**

**R910 0.5 OHM 0.5W PART NO R000505**

**R907 12 OHM 0.25W PART NO R112330**

**R914 33 OHM 0.25W PART NO R313330**

Model : CPT2578

COLOUR TV

**Subject: POWER SUPPLY**

**Fault: POWER SUPPLY PULSES AT SWITCH ON**

**Symptom:** SET PULSATES FROM SWITCH ON

**Cause: POWER SUPPLY NOT STARTING UP**

**Cure:** CHECK / REPLACE THE FOLLOWING

**R915 22R (21") 0.25W PART NO R212330**

**R915 33R (25") 0.25W PART NO R313330**

**C908 470uF 25V PART NUMBER 0800075**

**D902 BYD33D PART NUMBER T431112**

Model : CPT2578

COLOUR TV

**Subject: POWER SUPPLY**

**Fault: SET PULSES IN STANDBY**

**Symptom:** SET PULSES WHEN IN STANDBY  
MODE, OR FROM COLD SWITCH ON

**Cause: OVER VOLTS FEEDBACK FAULTY**

**Cure: REPLACE THE FOLLOWING COMPONENTS**

**R941, VR941, ZD941, 0C941.**

Model : CPT2578

COLOUR TV

**Subject: POWER SUPPLY**

**Fault: Q702 FAILS AFTER A FEW HOURS**

**Symptom: Q702 FAILS AFTER A FEW HOURS**

**Cause:** 12V RAIL LOW

**Cure: CHECK / REPLACE R932 OR15 WHICH MAY HAVE RISEN IN VALUE**

# HITACHI

Model : CPT2578

COLOUR TV

**Subject: POWER SUPPLY**

**Fault: INTERMITTANT GOES TO STANDBY**

**Symptom:** SET CUTS OUT INTERMITTANTLY,  
THE CHANNEL DISPLAY GOES OUT FULLY FOR  
A COUPLE OF SECONDS THE COMES BACK ON  
IN STANDBY.

**Cause: CRACKS IN PRINT.**

**Cure:** REMOVE OLD SOLDER FROM PINS OF CHOPPER TRANSFORMER, CHECK FOR PRINT CONTINUITY TO PADS, THE RESOLDER.

Model : CPT2578

COLOUR TV

**Subject: POWER SUPPLY**

**Fault: SET PULSES FROM COLD SWITCH ON**

**Symptom:** WHEN SWITCHED ON FROM COLD  
THE SET PULSES SEVERAL TIMES BEFORE  
COMING ON.

**Cause: CAPACITORS DRYING OUT.**

**Cure:** CHECK / REPLACE C908 470uF 25V  
PART NUMBER J0800075, ALSO CHECK D907  
BYV10-40 PART NUMBER T531056 FOR OPEN  
CIRCUIT.

Model : CPT2578

COLOUR TV

**Subject: POWER SUPPLY**

Fault: DEAD SET, CHANNEL INDICATOR "ON"

**Symptom:** NO SOUND OR PICTURE, HT FROM  
POWER SUPPLY CORRECT, BUT 12V SUPPLY  
GONE LOW.

**Cause: OPEN CIRCUIT CAPACITOR**

**Cure: CHECK / REPLACE C933 2200uf 25V  
PART NUMBER C292951**

Model : CPT2578

COLOUR TV

**Subject: POWER SUPPLY**

**Fault: PULSING POWER SUPPLY**

**Symptom: DEAD SET, POWER SUPPLY PULSES**

**Cause:** OPEN CIRCUIT DIODE.

**Cure: CHECK / REPLACE D907 BYV10-40  
PART NUMBER T531056.**

Model : CPT2578

COLOUR TV

**Subject: POWER SUPPLY**

**Fault: PULSATING POWER SUPPLY.**

**Symptom:** SET DEAD, POWER SUPPLY PULSES APPEARING TO TRY TO START UP.

**Cause:** OPEN CIRCUIT RESISTOR.

Cure: CHECK / REPLACE R944 47K 1W  
PART NUMBER R447542

Model: CPT2578 COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY TRIPPING.  
Symptom: POWER SUPPLY TRIPPING.  
Cause: FAULTY REGULATOR, LOADING SUPPLY  
Cure: CHECK/REPLACE IC932.  
PT. NO. T900326.

Model: CPT2578 COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.  
Cause: FAULTY DIODE.  
Cure: CHECK/REPLACE D907 LEAKY.  
PT. NO. T531056.

Model: CPT2578 COLOUR TV

Subject: TUNING SELECTION  
Fault No: 22 PICTURE FLUCTUATES WITH FUNCTION US  
R932 DR15 HIGH-REPLACE PT NO R002551

Model: CPT2578 COLOUR TV

Subject: TUNING SELECTION  
Fault No: 23 NOT RE-PROGRAMMING(R VERSIONS ONLY)  
Symptom: RE-PROGRAMMING AS PER TECH  
LINE 620/621 CANNOT BE STORED. DOTS IN  
LEFT HAND WINDOW.  
Cause: MEMORY CORRUPTED.  
Cure: MEMORY I. C. DESTROYED BEYOND  
RECALL. REPLACE I. C. 1502 P/No E730002

Model: CPT2578 COLOUR TV

Subject: TUNING SELECTION  
Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1  
Symptom: SET GOES TO STAND BY AFTER 5  
MINUTES, OR , TUNING UP/DOWN BUTTONS  
ACTUATE THE WRONG FUNCTIONS, OR, SET  
WILL NOT TUNE IN, OR, ODD DOTS OR  
CHARACTERS IN THE DISPLAY WINDOW.  
IT IS ALSO POSSIBLE THAT YOU WILL HAVE  
NO TELETEXT OPERATION, OR BUTTONS  
REGISTER INCORRECTLY, I. E. 1 BECOMES 2  
2 - 3 ETC.



Model: CPT2578

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1

Cause: CORRUPTED PROGRAMME IN MEMORY

I. C. (I. C. 1502)

Cure: REPROGRAMME THE MEMORY I. C. AS  
FOLLOWS. (OR OBTAIN TECHLINE 620/621  
FROM HITACHI SERVICE)

1. YOU WILL NEED THE REMOTE CONTROL  
HANDSET, IF THIS IS NOT AVAILABLE THEN  
YOU SHOULD REPLACE I. C. 1502. THE NEW  
I. C. IS PRE-PROGRAMMED.

OPEN THE BACK OF THE REMOTE HANDSET.  
YOU WILL NEED TO FORM A SWITCH ACROSS  
TWO PINS OF THE I. C.

IF THE I. C. IS TYPE SAA1250 PUT A  
SWITCH ACROSS PINS 15 & 23.

IN OTHER VERSIONS OF THE 4 BATTERY  
TYPE HANDSET PUT YOUR SWITCH ON PINS  
12 & 20.

CONT. .

PUSH THE PROGRAMMING SWITCH YOU HAVE  
JUST FITTED ONCE. THE CHANNEL DISPLAY  
SHOULD SHOW : C H

PUSH THE SWITCH AGAIN AND THE DISPLAY  
SHOULD SHOW : O P

PRESS NUMBER 1 ON THE HANDSET AND THE  
DISPLAY SHOWS: P 1

CONT. . .

PRESS THE STANDBY BUTTON ON THE HAND  
SET. THE DISPLAY SHOWS : \_ \_

OPEN THE FRONT FLAP ON THE T. V. AND  
PRESS AND HOLD THE STORE BUTTON, THEN  
PRESS THE NUMBER 9 ON THE REMOTE HAND  
SET, WHILE STILL HOLDING THE STORE. THE  
SET WILL COME ON ON CHANNEL 9 AND THE  
DISPLAY SHOULD SHOW : 9 (IN THE RIGHT  
HAND WINDOW)

IF THERE IS NOW A DOT IN THE LEFT HAND  
WINDOW OF THE DISPLAY IT MUST BE  
REMOVED AT THIS POINT. ALSO CHECK FOR  
DOTS ON OTHER CHANNELS AND REMOVE THEM  
ALSO. TO REMOVE THE DOT, SELECT A  
CHANNEL WHICH DOES NOT HAVE A DOT LIT,  
AND PRESS THE STORE BUTTON. FOLLOW  
THIS BY PRESSING THE NUMBER OF THE C  
CHANNEL WHICH DOES HAVE A DOT.

CONT. . .

Model: CPT2578

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1



THE DISPLAY FIRST SHOWS TWO FLASHING BARS, THEN THE CHANNEL NUMBER YOU HAVE JUST PRESSED. REPEAT THE PROCESS FOR ALL CHANNELS WITH DOTS.

**IF ALL CHANNELS HAVE DOTS THE MEMORY I. C. (IC1502) IS DAMAGED AND MUST BE REPLACED.**

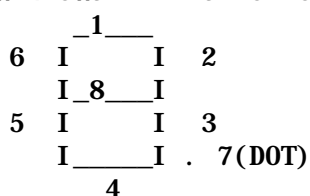
**CONT. . . .**

**THE NEXT STEP WILL DEPEND UPON WHICH MODEL YOU HAVE.**

FOR CPT 1476R & 1646R FOLLOW 1-6

FOR CPT 2198/2598/2596/2196/2578 7-12

THE UNIT HAS A SERIES OF OPTION BYTES AND COMMAND BITS. THE LEFT HAND WINDOW IS THE BYTE NUMBER THE RIGHT HAND HAS THE COMMAND BITS, IT IS THESE YOU SET. THE BIT NUMBERS IN THE RIGHT HAND DISPLAY WINDOWS ARE AS FOLLOWS



**1. PRESS THE PROGRAMMING SWITCH 3 TIMES  
THE LEFT HAND DISPLAY WINDOW SHOWS THE  
OPTION BYTE NUMBER 1 IN THE RIGHT HAND  
WINDOW YOU MUST LIGHT THE FOLLOWING  
BIT NUMBERS BY PRESSING THE NUMBERS ON  
THE REMOTE HANDSET. EACH PRESS OF A  
NUMBER WILL ALTERNATELY LIGHT THEN  
EXTINGUISH THE BIT.**

**FOR OPTION BYTE 1 LIGHT BITS 1 & 2**

## 2. PRESS THE PROGRAMMING BUTTON ONCE

**MORE. THE LEFT HAND DISPLAY WINDOW  
SHOWS 2. NOW USING THE HANDSET LIGHT  
BITS 1 & 2 IN THE RIGHT HAND DISPLAY**

**3. PRESS THE PROGRAMMING BUTTON ONCE, THE LEFT HAND DISPLAY SHOWS 3. NOW USE THE HANDSET TO LIGHT BITS 3 & 5 IN THE RIGHT HAND DISPLAY.**



Model : CPT2578

COLOUR TV

**Subject: TUNING SELECTION**

Fault t: SET IN A. V. /WRONG OP-TECHLINE 620/1

**4. PRESS THE PROGRAMMING SWITCH ONCE, SO THAT THE LEFT HAND WINDOW SHOWS 4. NOW USE THE REMOTE HANDSET TO ENSURE THAT NO BITS ARE LIT IN THE RIGHT HAND DISPLAY WINDOW.**

**5. WHEN ALL ARE CORRECT PRESS THE STAND BY BUTTON ON THE HANDSET TO MEMORISE THESE SETTINGS. SWITCH THE SET BACK ON AND RETUNE.**

6. INITIAL VOLUME SHOULD NOW BE RESET. ADJUST THE PRESET VOLUME CONTROL VR1504 TO MID POSITION. ADJUST THE VOLUME TO YOUR DESIRED LEVEL USING THE HANDSET AND PRESS THE STORE BUTTON IMMEDIATELY.

THE FOLLOWING PAGES REFER TO THE LARGE SCREEN MODELS CPT2198 ETC.

7. PRESS THE PROGRAMMING SWITCH 3 TIMES THE LEFT HAND DISPLAY WINDOW SHOWS 1. NOW USING THE HAND SET LIGHT BITS

1 , 4 , 5 & 7 IN THE RIGHT HAND WINDOW

8. PRESS THE PROGRAMMING SWITCH ONCE SO THE LEFT HAND WINDOW SHOWS 2. NOW USE THE HANDSET TO LIGHT BITS 1, 2, 8 & 7 IN THE RIGHT HAND WINDOW.

9. PRESS THE PROGRAMMING SWITCH ONCE, SO THE LEFT HAND WINDOW SHOWS 3. NOW USE THE HANDSET TO LIGHT BIT 3 ONLY IN THE RIGHT HAND WINDOW.

10. PRESS THE PROGRAMMING SWITCH ONCE, SO THE LEFT HAND WINDOW SHOWS 4. NOW USE THE HANDSET TO LIGHT BIT 6 ONLY IN THE RIGHT HAND WINDOW.

11. NOW PRESS THE STAND BY BUTTON ON THE HANDSET TO MEMORISE THESE SETTING.

12. SWITCH THE SET BACK ON AND TUNE IN



**Model:** CPT2578

**COLOUR TV**

**Subject:** TUNING SELECTION

**Fault:** PERSISTANT MEMORY LOSS-TECHLINE 633

**Symptom:** SET REQUIRES REPROGRAMMING ON A REGULAR BASIS (TECHLINE 620 / 621)

**Cause:** MICRO PROCESSOR CORRUPTS THE EEPROM I. C. (IC1502)

**Cure:** CHANGE IC1501 FOR NEW VERSION SAA1293-03 PART NUMBER T900549. A REVISED PROGRAMMING SHEET WILL BE SENT WITH THE I. C. (TECHLINE 633) .. CONT IT IS RECOMENDED THAT YOU REPLACE THE MEMORY I. C. 1502 PART NO E730002 AT THE SAME TIME TO PREVENT TRANSFER OF CORRUPTED DATA.



**Model:** CPT2578

**COLOUR TV**

**Subject:** TUNING SELECTION

**Fault:** IC1501/2 SAA1293A-03 PROGRAMMING

**Symptom:** MEMORY LOSS.

**Cause:** CORRUPTION TO MICRO / EEPROM

**Cure:** FIT IC1501 TYPE No SAA1293A-03 P/N T900549 & IC1502 P/NO E730002 WHEN FITTED THE PROGRAMMING METHOD



DIFFERS FROM THAT OF THE ORIGINAL AND SHOULD BE DONE AS FOLLOWS. . . . (CONT)  
YOU WILL REQUIRE THE REMOTE CONTROL HANDSET (FOUR BATTERY VERSION ONLY) TO EASE PROGRAMMING, A SWITCH CAN BE ADDED TO THE HANDSET.

1) IF IC1 IS TYPE SAA1250, CONNECT THE SWITCH BETWEEN PINS 15 & 23.

. . . . . (CONT)



Model: CPT2578

COLOUR TV

Subject: TUNING SELECTION

Fault: IC1501/2 SAA1293A-03 PROGRAMMING

2) IF IC1 IS TYPE M50467 THEN CONNECT THE SWITCH BETWEEN PINS 12 & 20. SWITCH THE SET ON.

PUSH THE PROGRAMMING SWITCH ONCE, SO THAT THE CHANNEL INDICATOR DISPLAY READS "CH", THEN PUSH THE SWITCH A SECOND TIME SO THE DISPLAY NOW SHOWS "OP". . . . . (CONT).

NOW PRESS THE "VOLUME PLUS" BUTTON TO GO TO OPTION BYTE 1. THE CHANNEL INDICATOR DISPLAY WILL SHOW "1" IN THE LEFT HAND DIGIT WINDOW, AND YOU WILL NEED TO SELECT THE CORRECT BITS IN THE RIGHT HAND WINDOW USING THE CHANNEL BUTTONS ON THE HANDSET.

THE BITS ARE NUMBERED THUS . . . .

. . . . . (CONT)

BIT 1

-----

BIT 6 I                      I BIT 2  
I BIT 8 I

-----

BIT 5 I                      I BIT 3  
I                              I

-----

. BIT 7 (DOT)

BIT 4

FOR OPTION BYTE 1 PRESS THE CHANNEL NUMBER BUTTONS ON THE HANDSET TO LIGHT THE FOLLOWING BITS

1, 5, 7, 8. THEN PRESS STORE BUTTON  
PRESS VOLUME PLUS BUTTON TO PROGRESS TO OPTION BYTE 2 AND LIGHT THE BITS 1, 2, 7, 8. THEN PRESS STORE BUTTON  
PRESS THE VOLUME PLUS BUTTON TO MOVE ON TO OPTION BYTE 3. THEN LIGHT BITS 5, 3. THEN PRESS THE STORE BUTTON.  
(FOR CPT 2598A ALSO LIGHT BIT 7).  
PRESS THE VOLUME PLUS BUTTON TO MOVE ON TO OPTION BYTE 4. NOW LIGHT BITS 5 ONLY. THEN PRESS THE STORE BUTTON

Model: CPT2578

COLOUR TV

Subject: TUNING SELECTION

Fault: IC1501/2 SAA1293A-03 PROGRAMMING  
FINALLY SWITCH THE SET TO STANDBY TO  
EXIT THE PROGRAMMING MODE.  
SWITCH THE SET BACK ON AND TUNE IN.

Model: CPT2578

COLOUR TV

Subject: TUNER/IF

Fault No: 28 DISTORTED SOUND  
CHECK -10V SUPPLY R934 OPEN CIRCUIT  
PT NO R200551

Model: CPT2578

COLOUR TV

Subject: TUNER/IF

Fault No: 29 DRIFTING OFF TUNE  
Symptom: DRIFTS OFF TUNE  
Cause: POOR L. T. REGULATION  
Cure: CHECK 33V SUPPLY TO TUNER FOR  
VARIATION. REPLACE IC1503.

Model: CPT2578

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault No: 41 FLASHES BLUE WHEN CHANNEL CHANGED  
CHANGE R708 TO 6K8 PT NO R638330  
FIT 33PF PT NO J024867ZR ACROSS R708  
IC701 MUST BE MULLARD DEVICE

Model: CPT2578

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: RESIDUAL SPOT ON SCREEN IN STANDBY  
CHANGE R1541 FROM 10K TO 1K  
CHANGE R1562 FROM 10K TO 1K8

Model: CPT2578

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: TWO HORIZONTAL LINES ON PEAK WHITE  
Symptom: TWO HORIZONTAL LINES AT HIGH  
BRIGHTNESS / CONTRAST ON WHITE PICTURE  
CONTENT.  
Cause: A CAPACITOR NEEDS TO BE ADDED.  
Cure: ADD A 47uF 50V CAP. ON THE BACK  
OF THE PSU/TIMEBASE PCB. THE +VE LEG  
CONNECTS TO THE +VE OF C718, -VE TO



- VE LEG OF C720.

Model: CPT2578 COLOUR TV

Subject: AUDIO  
Fault No: 57 BUZZ ON SOUND  
CHANGE C468 100MFD TO 330MFD 16VW PT  
NO J0252948R

Model: CPT2578 COLOUR TV

Subject: AUDIO  
Fault: SOUND CANNOT BE REDUCED OR MUTED  
Symptom: SOUND CANNOT BE REDUCED TO  
ZERO, OR MUTED.  
Cause: LEAKY DIODE  
Cure: CHECK / REPLACE D701.

Model: CPT2578 COLOUR TV

Subject: VERTICAL STAGE  
Fault No: 64 WEAK SYNC ON CHANNEL CHANGE  
R932 OR15 HIGH - REPLACE PT NO R002551

Model: CPT2578 COLOUR TV

Subject: VERTICAL STAGE  
Fault: SERVICE INFORMATION  
SERVICE MANUAL X830550 SHOWS C718  
INCORRECTLY. SHOULD BE 3300MFD  
(PT NO. J0253935)

Model: CPT2578 COLOUR TV

Subject: VERTICAL STAGE  
Fault: FRAME TWITCHING.  
Symptom: FRAME TWITCHING.  
Cause: DRY JOINT.  
Cure: CHECK/RE-MAKE DRY JOINT AT C604.

Model: CPT2578 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault No: 74 NO LINE HOLD  
REPLACE IC431 PT NO T900457

Model: CPT2578 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: SOUND CANNOT BE REDUCED OR MUTED



**Symptom:** SOUND CANNOT BE REDUCED TO ZERO, OR MUTED.  
**Cause:** LEAKY DIODE  
**Cure:** CHECK / REPLACE D701.

COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** Q702 FAILS AFTER A FEW HOURS  
**Symptom:** Q702 FAILS AFTER A FEW HOURS  
**Cause:** 12V RAIL LOW  
**Cure:** CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE

COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** SET DEAD DUE TO FAILURE OF Q702  
**Symptom:** SET DEAD, L/OP TRANSISTOR  
Q702 HAS FAILED.  
**Cause:** INTERACTION BETWEEN L701, & L703  
**Cure:** REPLACE Q702 PT/No T636041 WITH  
HITACHI PARTS ONLY.  
EASE L703 AWAY FROM L701 TOWARD R707  
AND SECURE WITH HOT MELT. CHECK FOR DRY  
JOINTS. C710/1/2 L703, R707, R724

COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** TWO HORIZONTAL LINES ON PEAK WHITE  
**Symptom:** TWO HORIZONTAL LINES AT HIGH  
 BRIGHTNESS / CONTRAST ON WHITE PICTURE  
 CONTENT.  
**Cause:** A CAPACITOR NEEDS TO BE ADDED.  
**Cure:** ADD A 47uF 50V CAP. ON THE BACK  
 OF THE PSU/TIMEBASE PCB. THE +VE LEG  
 CONNECTS TO THE +VE OF C718, -VE TO  
 -VE LEG OF C720.

COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** BRIGHT WHITE SCREEN, THEN GOES OFF  
**Symptom:** BRIGHT WHITE SCREEN THEN SET  
GOES TO STANDBY.  
**Cause:** LOW 200V SUPPLY DUE TO C720 LOW  
CAPACITANCE OR LEAKED.  
**Cure:** REPLACE C720 22uF 250V  
PART NUMBER 0253973  
NOTE. IN EARLY PRODUCTION SETS, C720 MAY  
BE 4.7uF 250V.

Model: CPT2578 COLOUR TV

Subject: TELETEXT  
Fault No: 85 NO TEXT - ONLY TOP LINE  
Symptom: NO TEXT, ONLY TOP LINE ON ONE  
OR MORE CHANNELS.  
Cause: M1 PULSE ADJUSTMENT POOR  
Cure: REPLACE C2109 P/No C822562.  
REMOVE WIRE LINK IN PLACE OF VR2107.  
(REFERS TO TECH LINE 623)

Model: CPT2578 COLOUR TV

Subject: TELETEXT  
Fault: WILL NOT OPERATE ON BAMBOOZLE  
Symptom: WILL NOT OPERATE THE HEXI-  
DECIMAL CODED TELETEXT PAGES - E. G:  
BAMBOOZLE  
Cause: SOFTWARE DIFFERENCES.  
Cure: THIS MODELS CANNOT OPERATE ON  
HEXIDECIMAL TEXT PAGES. THEIR TEXT  
SYSTEM WAS DESIGNED PRIOR TO USE OF  
THESE PAGES, AND NO UPDATE AVAILABLE.

Model: CPT2596 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 6 SET COMES ON IN STANDBY MODE.  
Symptom: WHEN SWITCHED ON FROM COLD,  
THE SET COMES ON IN STANDBY. WILL WORK  
OK WHEN OPERATED BY REMOTE CONTROL.  
Cause: TH902 GOES HIGH RESISTANCE  
Cure: REPLACE TH902. (THIS SHOULD READ  
4K7 WHEN COLD)

Model: CPT2596 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 7 DEAD- FUSE OK  
CHECK ZD901 FOR SHORT OR OPEN. IF  
FAULTY, REPLACE TH902 (REGARDLESS OF  
ANY METER READINGS). REPLACE ZD901.  
CHECK ZD902 - IF FAULTY, REPLACE  
ZD902, IC901.  
CHECK C908 (S/C OR ANY SIGN OF BULGE  
OR OVERLOAD). REPLACE C908 IF  
NECESSARY. SEE TECHLINE BULLETIN 628.  
CHECK Q903 & D906 FOR SHORT OR OPEN.  
REPLACE Q903 OR D906 AS REQUIRED.



Model: CPT2596

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 8 DEAD - FUSE O/C  
REPLACE ALL FOLLOWING PARTS  
(REGARDLESS OF ANY METER READINGS):  
TH902, Q901, D905, D907, IC901, ZD902,  
Q902.  
CHECK R910 FOR OPEN CIRCUIT - REPLACE  
AS NECESSARY.  
CHECK C908, Q903, D906 - REPLACE AS  
NECESSARY.  
THE FOLLOWING PROCEDURE SHOULD ALSO BE  
CARRIED OUT WHEN REPLACING THE  
THERMISTOR, AS SOME OF THE PRINT MAY  
HAVE BECOME DEFECTIVE. VIEWING THE  
PRINT SIDE OF THE CHASSIS, CONNECT A  
LEAD FROM THE +VE END OF C906 TO PIN 5  
OF T901 USING HOT MELT TO SECURE LEAD  
AS SHOWN IN DIAGRAM ON ATTACHED PAGE.  
CONNECT A SECOND LEAD FROM ZD901  
CATHODE TO THE JUNCTION OF R905/R909,  
AGAIN USING HOT MELT TO SECURE LEAD.  
P. T. O.  
THE USE OF HOT MELT IS ESSENTIAL, AS  
IT WILL PREVENT THE LEADS FROM  
ENCROACHING OVER THE SAFETY BARRIER  
OF THE POWER SUPPLY, SHOULD THEY COME  
ADRIFT FROM THEIR SOLDERED CONNECTIONS  
AT A LATER DATE.  
SEE TECHLINE 628 FOR DRAWING.



Model: CPT2596

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 9 SET TRIPS INTERMITTENTLY  
Symptom: SET TRIPS TO STANDBY  
Cause: OVER CURRENT TRIP TOO SENSITIVE  
Cure: SET TRIP AS PER T/LINE 622.  
IF SET CORRECT CHECK THE FOLLOWING  
R910, R907, R914, VR901 IN PSU  
R719 OVER VOLTS SENSING IN LINE, THIS  
IS CRITICAL, 1% TOLLERANCE RESISTOR.



Model: CPT2596

COLOUR TV

Subject: POWER SUPPLY  
Fault No: 11 DEAD-INTERMITTENT DEAD  
Symptom: SET DEAD OR CUTS OUT  
Cause: DRY JOINTS OR CRACKED PRINT  
Cure: CHECK FOR DRY JOINTS AROUND THE  
CHOPPER TRANSFORMER T901. REMOVE OLD  
SOLDER FROM PADS AND CHECK OR CRACKED  
PRINT CLOSE TO PAD  
CHECK D933, T702 FOR DRY JOINTS

Model : CPT2596

COLOUR TV

Subject: POWER SUPPLY

Fault: SET DEAD DUE TO FAILURE OF Q702

Cause: INTERACTION BETWEEN L701 & L703

Cure: ENSURE REPLACEMENT OF Q702 WITH  
HITACHI SPARE PART NUMBER T636041.  
EASE L703 AWAY FROM L701 BY MOVING IT  
TOWARD R707. IT SHOULD THEN BE SECURED  
IN PLACE USING HOT MELT. FURTHER MORE  
ENSURE THAT L703 DOES NOT CROSS THE  
THICK BARRIER LINE MARKED ON THE PCB  
AND THAT L701 IS UPRIGHT.  
YOU SHOULD ALSO CHECK THE FOLLOWING  
FOR DRY JOINTS:  
C711, C712, C710, L703, R707, R724  
SEE TECHLINE BULLETIN NO 631 FOR  
SKETCH

Model : CPT2596

COLOUR TV

Subject: POWER SUPPLY

Fault: INTERMITTANT TO STANDBY

Symptom: SET INTERMITTANTLY GOES INTO  
STANDBY.

Cause: RESISTORS VARY IN VALUE.

Cure: CHECK / REPLACE THE FOLLOWING  
R719 220K 0.24W 1% TOL P/NO R252721  
R910 0.5 OHM 0.5W PART NO R000505  
R907 12 OHM 0.25W PART NO R112330  
R914 33 OHM 0.25W PART NO R313330

Model : CPT2596

COLOUR TV

Subject: POWER SUPPLY

Fault: POWER SUPPLY PULSES AT SWITCH ON

Symptom: SET PULSATES FROM SWITCH ON

Cause: POWER SUPPLY NOT STARTING UP

Cure: CHECK / REPLACE THE FOLLOWING  
R915 22R (21") 0.25W PART NO R212330  
R915 33R (25") 0.25W PART NO R313330  
C908 470uF 25V PART NUMBER 0800075  
D902 BYD33D PART NUMBER T431112

Model : CPT2596

COLOUR TV

Subject: POWER SUPPLY

Fault: SET PULSES IN STANDBY

Symptom: SET PULSES WHEN IN STANDBY  
MODE, OR FROM COLD SWITCH ON

Cause: OVER VOLTS FEEDBACK FAULTY

Cure: REPLACE THE FOLLOWING COMPONENTS

R941, VR941, ZD941, OC941.

Model: CPT2596 COLOUR TV

Subject: POWER SUPPLY  
Fault: Q702 FAILS AFTER A FEW HOURS  
Symptom: Q702 FAILS AFTER A FEW HOURS  
Cause: 12V RAIL LOW  
Cure: CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE

Model: CPT2596 COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT GOES TO STANDBY  
Symptom: SET CUTS OUT INTERMITTANTLY,  
THE CHANNEL DISPLAY GOES OUT FULLY FOR  
A COUPLE OF SECONDS THE COMES BACK ON  
IN STANDBY.  
Cause: CRACKS IN PRINT.  
Cure: REMOVE OLD SOLDER FROM PINS OF  
CHOPPER TRANSFORMER, CHECK FOR PRINT  
CONTINUITY TO PADS, THE RESOLDER.

Model: CPT2596 COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSES FROM COLD SWITCH ON  
Symptom: WHEN SWITCHED ON FROM COLD  
THE SET PULSES SEVERAL TIMES BEFORE  
COMING ON.  
Cause: CAPACITORS DRYING OUT.  
Cure: CHECK / REPLACE C908 470uF 25V  
PART NUMBER J0800075, ALSO CHECK D907  
BYV10-40 PART NUMBER T531056 FOR OPEN  
CIRCUIT.

Model: CPT2596 COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET, CHANNEL INDICATOR "ON"  
Symptom: NO SOUND OR PICTURE, HT FROM  
POWER SUPPLY CORRECT, BUT 12V SUPPLY  
GONE LOW.  
Cause: OPEN CIRCUIT CAPACITOR  
Cure: CHECK / REPLACE C933 2200uf 25V  
PART NUMBER C292951

Model: CPT2596 COLOUR TV

Subject: POWER SUPPLY  
Fault: PULSING POWER SUPPLY



**Symptom:** DEAD SET, POWER SUPPLY PULSES  
**Cause:** OPEN CIRCUIT DIODE.  
**Cure:** CHECK / REPLACE D907 BYV10- 40  
 PART NUMBER T531056.

Model: CPT2596 COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** PULSATING POWER SUPPLY.  
**Symptom:** SET DEAD, POWER SUPPLY PULSES  
 APPEARING TO TRY TO START UP.  
**Cause:** OPEN CIRCUIT RESISTOR.  
**Cure:** CHECK / REPLACE R944 47K 1W  
 PART NUMBER R447542

Model: CPT2596 COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: POWER SUPPLY TRIPPING.**  
**Symptom: POWER SUPPLY TRIPPING.**  
**Cause: FAULTY REGULATOR, LOADING SUPPLY**  
**Cure: CHECK/REPLACE IC932.**  
**PT. NO. T900326.**

Model : CPT2596                      COLOUR TV

Subject: TUNING SELECTION  
Fault No: 22 PICTURE FLUCTUATES WITH FUNCTION US  
R932 DR15 HIGH-REPLACE PT NO R002551

Model: CPT2596 COLOUR TV

**Subject:** TUNING SELECTION

**Fault No:** 23 NOT RE-PROGRAMMING(R VERSIONS ONLY)

**Symptom:** RE-PROGRAMMING AS PER TECH  
LINE 620/621 CANNOT BE STORED. DOTS IN  
LEFT HAND WINDOW.

**Cause:** MEMORY CORRUPTED.

**Cure:** MEMORY I. C. DESTROYED BEYOND  
RECALL. REPLACE I. C. 1502 P/No E730002

Model: CPT2596 COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** SET IN A. V. /WRONG OP-TECHLINE 620/1

**Symptom:** SET GOES TO STAND BY AFTER 5 MINUTES, OR , TUNING UP/DOWN BUTTONS ACTUATE THE WRONG FUNCTIONS, OR, SET WILL NOT TUNE IN, OR, ODD DOTS OR CHARACTERS IN THE DISPLAY WINDOW. IT IS ALSO POSSIBLE THAT YOU WILL HAVE NO TELETEXT OPERATION, OR BUTTONS

REGISTER INCORRECTLY, I. E. 1 BECOMES 2  
2 - 3 ETC.

Cause: CORRUPTED PROGRAMME IN MEMORY  
I. C. (I. C. 1502)

Cure: REPROGRAMME THE MEMORY I. C. AS  
FOLLOWS. (OR OBTAIN TECHLINE 620/621  
FROM HITACHI SERVICE)

1. YOU WILL NEED THE REMOTE CONTROL  
HANDSET, IF THIS IS NOT AVAILABLE THEN  
YOU SHOULD REPLACE I. C. 1502. THE NEW  
I. C. IS PRE-PROGRAMMED.  
OPEN THE BACK OF THE REMOTE HANDSET.  
YOU WILL NEED TO FORM A SWITCH ACROSS  
TWO PINS OF THE I. C.  
IF THE I. C. IS TYPE SAA1250 PUT A  
SWITCH ACROSS PINS 15 & 23.  
IN OTHER VERSIONS OF THE 4 BATTERY  
TYPE HANDSET PUT YOUR SWITCH ON PINS  
12 & 20.

CONT. .

PUSH THE PROGRAMMING SWITCH YOU HAVE  
JUST FITTED ONCE. THE CHANNEL DISPLAY  
SHOULD SHOW : C H  
PUSH THE SWITCH AGAIN AND THE DISPLAY  
SHOULD SHOW : 0 P  
PRESS NUMBER 1 ON THE HANDSET AND THE  
DISPLAY SHOWS: P 1

CONT. . .



Model: CPT2596

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1  
PRESS THE STANDBY BUTTON ON THE HAND  
SET. THE DISPLAY SHOWS : \_ \_  
OPEN THE FRONT FLAP ON THE T. V. AND  
PRESS AND HOLD THE STORE BUTTON, THEN  
PRESS THE NUMBER 9 ON THE REMOTE HAND  
SET, WHILE STILL HOLDING THE STORE. THE  
SET WILL COME ON ON CHANNEL 9 AND THE  
DISPLAY SHOULD SHOW : 9 (IN THE RIGHT  
HAND WINDOW)  
IF THERE IS NOW A DOT IN THE LEFT HAND  
WINDOW OF THE DISPLAY IT MUST BE  
REMOVED AT THIS POINT. ALSO CHECK FOR  
DOTS ON OTHER CHANNELS AND REMOVE THEM  
ALSO. TO REMOVE THE DOT, SELECT A  
CHANNEL WHICH DOES NOT HAVE A DOT LIT,  
AND PRESS THE STORE BUTTON. FOLLOW  
THIS BY PRESSING THE NUMBER OF THE C  
CHANNEL WHICH DOES HAVE A DOT.

CONT. . .

THE DISPLAY FIRST SHOWS TWO FLASHING  
BARS, THEN THE CHANNEL NUMBER YOU HAVE  
JUST PRESSED. REPEAT THE PROCESS FOR

ALL CHANNELS WITH DOTS.  
IF ALL CHANNELS HAVE DOTS THE MEMORY  
I. C. (IC1502) IS DAMAGED AND MUST BE  
REPLACED.

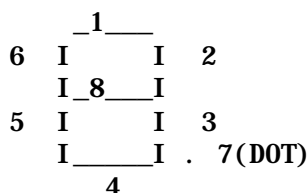
CONT. . . .

THE NEXT STEP WILL DEPEND UPON WHICH  
MODEL YOU HAVE.

FOR CPT 1476R & 1646R FOLLOW 1-6

FOR CPT 2198/2598/2596/2196/2578 7-12

THE UNIT HAS A SERIES OF OPTION BYTES  
AND COMMAND BITS. THE LEFT HAND WINDOW  
IS THE BYTE NUMBER THE RIGHT HAND HAS  
THE COMMAND BITS, IT IS THESE YOU SET.  
THE BIT NUMBERS IN THE RIGHT HAND  
DISPLAY WINDOWS ARE AS FOLLOWS



Model: CPT2596

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1

1. PRESS THE PROGRAMMING SWITCH 3 TIMES  
THE LEFT HAND DISPLAY WINDOW SHOWS THE  
OPTION BYTE NUMBER 1 IN THE RIGHT HAND  
WINDOW YOU MUST LIGHT THE FOLLOWING  
BIT NUMBERS BY PRESSING THE NUMBERS ON  
THE REMOTE HANDSET. EACH PRESS OF A  
NUMBER WILL ALTERNATELY LIGHT THEN  
EXTINGUISH THE BIT.

FOR OPTION BYTE 1 LIGHT BITS 1 & 2

2. PRESS THE PROGRAMMING BUTTON ONCE  
MORE. THE LEFT HAND DISPLAY WINDOW  
SHOWS 2. NOW USING THE HANDSET LIGHT  
BITS 1 & 2 IN THE RIGHT HAND DISPLAY

3. PRESS THE PROGRAMMING BUTTON ONCE,  
THE LEFT HAND DISPLAY SHOWS 3. NOW USE  
THE HANDSET TO LIGHT BITS 3 & 5 IN THE  
RIGHT HAND DISPLAY.

4. PRESS THE PROGRAMMING SWITCH ONCE, SO  
THAT THE LEFT HAND WINDOW SHOWS 4. NOW  
USE THE REMOTE HANDSET TO ENSURE THAT  
NO BITS ARE LIT IN THE RIGHT HAND  
DISPLAY WINDOW.

5. WHEN ALL ARE CORRECT PRESS THE STAND  
BY BUTTON ON THE HANDSET TO MEMORISE  
THESE SETTINGS. SWITCH THE SET BACK ON  
AND RETUNE.

6. INITIAL VOLUME SHOULD NOW BE RESET.  
ADJUST THE PRESET VOLUME CONTROL  
VR1504 TO MID POSITION. ADJUST THE

VOLUME TO YOUR DESIRED LEVEL USING THE HANDSET AND PRESS THE STORE BUTTON IMMEDIATELY.

THE FOLLOWING PAGES REFER TO THE LARGE SCREEN MODELS CPT2198 ETC.

7. PRESS THE PROGRAMMING SWITCH 3 TIMES THE LEFT HAND DISPLAY WINDOW SHOWS 1. NOW USING THE HAND SET LIGHT BITS 1 , 4 , 5 & 7 IN THE RIGHT HAND WINDOW  
8. PRESS THE PROGRAMMING SWITCH ONCE SO THE LEFT HAND WINDOW SHOWS 2. NOW USE THE HANDSET TO LIGHT BITS 1, 2, 8 & 7 IN THE RIGHT HAND WINDOW.



**Model: CPT2596**                      **COLOUR TV**

**Subject:** TUNING SELECTION

**Fault:** SET IN A. V. /WRONG OP-TECHLINE 620/1  
9. PRESS THE PROGRAMMING SWITCH ONCE, SO THE LEFT HAND WINDOW SHOWS 3. NOW USE THE HANDSET TO LIGHT BIT 3 ONLY IN THE RIGHT HAND WINDOW.  
10. PRESS THE PROGRAMMING SWITCH ONCE, SO THE LEFT HAND WINDOW SHOWS 4. NOW USE THE HANDSET TO LIGHT BIT 6 ONLY IN THE RIGHT HAND WINDOW.  
11. NOW PRESS THE STAND BY BUTTON ON THE HANDSET TO MEMORISE THESE SETTING.  
12. SWITCH THE SET BACK ON AND TUNE IN



**Model: CPT2596**                      **COLOUR TV**

**Subject:** TUNING SELECTION

**Fault:** PERSISTANT MEMORY LOSS-TECHLINE 633  
**Symptom:** SET REQUIRES REPROGRAMMING ON A REGULAR BASIS (TECHLINE 620 / 621)  
**Cause:** MICRO PROCESSOR CORRUPTS THE EEPROM I. C. (IC1502)  
**Cure:** CHANGE IC1501 FOR NEW VERSION SAA1293-03 PART NUMBER T900549. A REVISED PROGRAMMING SHEET WILL BE SENT WITH THE I. C. (TECHLINE 633) .. CONT IT IS RECOMENDED THAT YOU REPLACE THE MEMORY I. C. 1502 PART NO E730002 AT THE SAME TIME TO PREVENT TRANSFER OF CORRUPTED DATA.



**Model: CPT2596**                      **COLOUR TV**

**Subject:** TUNING SELECTION

**Fault:** IC1501/2 SAA1293A-03 PROGRAMMING  
**Symptom:** MEMORY LOSS.  
**Cause:** CORRUPTION TO MICRO / EEPROM

**Cure:** FIT IC1501 TYPE No SAA1293A-03  
P/N T900549 & IC1502 P/NO E730002  
**WHEN FITTED THE PROGRAMMING METHOD  
DIFFERS FROM THAT OF THE ORIGINAL AND  
SHOULD BE DONE AS FOLLOWS. .... (CONT)**  
**YOU WILL REQUIRE THE REMOTE CONTROL  
HANDSET (FOUR BATTERY VERSION ONLY)  
TO EASE PROGRAMMING, A SWITCH CAN BE  
ADDED TO THE HANDSET.**  
**1) IF IC1 IS TYPE SAA1250, CONNECT THE  
SWITCH BETWEEN PINS 15 & 23.**  
..... (CONT)  
**2) IF IC1 IS TYPE M50467 THEN CONNECT  
THE SWITCH BETWEEN PINS 12 & 20.**  
**SWITCH THE SET ON.**  
**PUSH THE PROGRAMMING SWITCH ONCE, SO  
THAT THE CHANNEL INDICATOR DISPLAY  
READS "CH" , THEN PUSH THE SWITCH A  
SECOND TIME SO THE DISPLAY NOW SHOWS  
"OP"..... (CONT).**  
**NOW PRESS THE "VOLUME PLUS" BUTTON TO  
GO TO OPTION BYTE 1. THE CHANNEL  
INDICATOR DISPLAY WILL SHOW "1" IN THE  
LEFT HAND DIGIT WINDOW, AND YOU WILL  
NEED TO SELECT THE CORRECT BITS IN THE  
RIGHT HAND WINDOW USING THE CHANNEL  
BUTTONS ON THE HANDSET.**  
**THE BITS ARE NUMBERED THUS ....**  
..... (CONT)

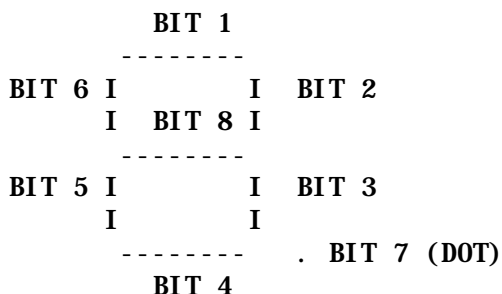


**Model: CPT2596**

**COLOUR TV**

**Subject: TUNING SELECTION**

**Fault: IC1501/2 SAA1293A-03 PROGRAMMING**



**FOR OPTION BYTE 1 PRESS THE CHANNEL  
NUMBER BUTTONS ON THE HANDSET TO LIGHT  
THE FOLLOWING BITS**  
**1, 5, 7, 8. THEN PRESS STORE BUTTON  
PRESS VOLUME PLUS BUTTON TO PROGRESS  
TO OPTION BYTE 2 AND LIGHT THE BITS  
1, 2, 7, 8. THEN PRESS STORE BUTTON  
PRESS THE VOLUME PLUS BUTTON TO MOVE  
ON TO OPTION BYTE 3. THEN LIGHT BITS  
5, 3. THEN PRESS THE STORE BUTTON.**  
**(FOR CPT 2598A ALSO LIGHT BIT 7).**





PRESS THE VOLUME PLUS BUTTON TO MOVE  
ON TO OPTION BYTE 4. NOW LIGHT BITS  
5 ONLY. THEN PRESS THE STORE BUTTON  
FINALLY SWITCH THE SET TO STANDBY TO  
EXIT THE PROGRAMMING MODE.  
SWITCH THE SET BACK ON AND TUNE IN.



**Model:** CPT2596                      **COLOUR TV**

**Subject:** TUNER/IF  
**Fault No:** 28 DISTORTED SOUND  
CHECK - 10V SUPPLY R934 OPEN CIRCUIT  
PT NO R200551



**Model:** CPT2596                      **COLOUR TV**

**Subject:** TUNER/IF  
**Fault No:** 29 DRIFTING OFF TUNE  
**Symptom:** DRIFTS OFF TUNE  
**Cause:** POOR L. T. REGULATION  
**Cure:** CHECK 33V SUPPLY TO TUNER FOR  
VARIATION. REPLACE IC1503.



**Model:** CPT2596                      **COLOUR TV**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault No:** 41 FLASHES BLUE WHEN CHANNEL CHANGED  
CHANGE R708 TO 6K8 PT NO R638330  
FIT 33PF PT NO J024867ZR ACROSS R708  
IC701 MUST BE MULLARD DEVICE



**Model:** CPT2596                      **COLOUR TV**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** TWO HORIZONTAL LINES ON PEAK WHITE  
**Symptom:** TWO HORIZONTAL LINES AT HIGH  
BRIGHTNESS / CONTRAST ON WHITE PICTURE  
CONTENT.  
**Cause:** A CAPACITOR NEEDS TO BE ADDED.  
**Cure:** ADD A 47uF 50V CAP. ON THE BACK  
OF THE PSU/TIMEBASE PCB. THE +VE LEG  
CONNECTS TO THE +VE OF C718, -VE TO  
-VE LEG OF C720.



**Model:** CPT2596                      **COLOUR TV**

**Subject:** AUDIO  
**Fault No:** 57 BUZZ ON SOUND  
CHANGE C468 100MFD TO 330MFD 16VW PT  
NO J0252948R







CONNECTS TO THE +VE OF C718, -VE TO  
-VE LEG OF C720.

Model: CPT2596

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: BRIGHT WHITE SCREEN, THEN GOES OFF

Symptom: BRIGHT WHITE SCREEN THEN SET  
GOES TO STANDBY.

Cause: LOW 200V SUPPLY DUE TO C720 LOW  
CAPACITANCE OR LEAKED.

Cure: REPLACE C720 22uF 250V

PART NUMBER 0253973

NOTE. IN EARLY PRODUCTION SETS, C720 MAY  
BE 4.7uF 250V.

Model: CPT2598

COLOUR TV

Subject: POWER SUPPLY

Fault No: 6 SET COMES ON IN STANDBY MODE.

Symptom: WHEN SWITCHED ON FROM COLD,  
THE SET COMES ON IN STANDBY. WILL WORK  
OK WHEN OPERATED BY REMOTE CONTROL.

Cause: TH902 GOES HIGH RESISTANCE

Cure: REPLACE TH902. (THIS SHOULD READ  
4K7 WHEN COLD)

Model: CPT2598

COLOUR TV

Subject: POWER SUPPLY

Fault No: 9 SET TRIPS INTERMITTENTLY

Symptom: SET TRIPS TO STANDBY

Cause: OVER CURRENT TRIP TOO SENSITIVE

Cure: SET TRIP AS PER T/LINE 622.

IF SET CORRECT CHECK THE FOLLOWING

R910, R907, R914, VR901 IN PSU

R719 OVER VOLTS SENSING IN LINE, THIS

IS CRITICAL, 1% TOLLERANCE RESISTOR.

Model: CPT2598

COLOUR TV

Subject: POWER SUPPLY

Fault No: 11 DEAD-INTERMITTENT DEAD

Symptom: SET DEAD OR CUTS OUT

Cause: DRY JOINTS OR CRACKED PRINT

Cure: CHECK FOR DRY JOINTS AROUND THE  
CHOPPER TRANSFORMER T901. REMOVE OLD  
SOLDER FROM PADS AND CHECK OR CRACKED  
PRINT CLOSE TO PAD

CHECK D933, T702 FOR DRY JOINTS



Model : CPT2598                      COLOUR TV

**Subject:** POWER SUPPLY  
**Fault No:** 87 **INCORRECT TEXT PAGE No REGISTERED**  
**Symptom:** WHEN IN TELETEXT MODE ANY  
PAGE NUMBER DIALED IN REGISTERS WRONG.  
I. E. 123 BECOMES 234.  
**Cause:** CORRUPTION TO MEMORY  
**Cure:** FOLLOW TECH LINE 620/621



Model: CPT2598 COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: SET DEAD DUE TO FAILURE OF Q702**  
**Cause: INTERACTION BETWEEN L701 & L703**  
**Cure: ENSURE REPLACEMENT OF Q702 WITH**  
**HITACHI SPARE PART NUMBER T636041.**  
**EASE L703 AWAY FROM L701 BY MOVING IT**  
**TOWARD R707. IT SHOULD THEN BE SECURED**  
**IN PLACE USING HOT MELT. FURTHER MORE**  
**ENSURE THAT L703 DOES NOT CROSS THE**  
**THICK BARRIER LINE MARKED ON THE PCB**  
**AND THAT L701 IS UPRIGHT.**  
**YOU SHOULD ALSO CHECK THE FOLLOWING**  
**FOR DRY JOINTS:**  
**C711, C712, C710, L703, R707, R724**  
**SEE TECHLINE BULLETIN NO 631 FOR**  
**SKETCH**



Model: CPT2598 COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** INTERMITTANT TO STANDBY  
**Symptom:** SET INTERMITTANTLY GOES INTO STANDBY.  
**Cause:** RESISTORS VARY IN VALUE.  
**Cure:** CHECK / REPLACE THE FOLLOWING  
R719 220K 0.24W 1% TOL P/N0 R252721  
R910 0.5 OHM 0.5W PART NO R000505  
R907 12 OHM 0.25W PART NO R112330  
R914 33 OHM 0.25W PART NO R313330



Model: CPT2598 COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** POWER SUPPLY PULSES AT SWITCH ON  
**Symptom:** SET PULSATES FROM SWITCH ON  
**Cause:** POWER SUPPLY NOT STARTING UP  
**Cure:** CHECK / REPLACE THE FOLLOWING  
R915 22R (21") 0.25W PART NO R212330  
R915 33R (25") 0.25W PART NO R313330  
C908 470uF 25V PART NUMBER 0800075  
D902 BYD33D PART NUMBER T431112





Model : CPT2598                      COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: SET PULSES IN STANDBY**  
**Symptom: SET PULSES WHEN IN STANDBY**  
**MODE, OR FROM COLD SWITCH ON**  
**Cause: OVER VOLTS FEEDBACK FAULTY**  
**Cure: REPLACE THE FOLLOWING COMPONENTS**  
**R941, VR941, ZD941, OC941.**

Model : CPT2598 COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: Q702 FAILS AFTER A FEW HOURS**  
**Symptom: Q702 FAILS AFTER A FEW HOURS**  
**Cause: 12V RAIL LOW**  
**Cure: CHECK / REPLACE R932 OR15 WHICH**  
**MAY HAVE RISEN IN VALUE**

Model: CPT2598 COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** INTERMITTANT GOES TO STANDBY  
**Symptom:** SET CUTS OUT INTERMITTANTLY,  
THE CHANNEL DISPLAY GOES OUT FULLY FOR  
A COUPLE OF SECONDS THE COMES BACK ON  
IN STANDBY.  
**Cause:** CRACKS IN PRINT.  
**Cure:** REMOVE OLD SOLDER FROM PINS OF  
CHOPPER TRANSFORMER, CHECK FOR PRINT  
CONTINUITY TO PADS, THE RESOLDER.

Model: CPT2598 COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET PULSES FROM COLD SWITCH ON  
**Symptom:** WHEN SWITCHED ON FROM COLD  
THE SET PULSES SEVERAL TIMES BEFORE  
COMING ON.  
**Cause:** CAPACITORS DRYING OUT.  
**Cure:** CHECK / REPLACE C908 470uF 25V  
PART NUMBER J0800075, ALSO CHECK D907  
BYV10-40 PART NUMBER T531056 FOR OPEN  
CIRCUIT.

Model: CPT2598 COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** DEAD SET, CHANNEL INDICATOR "ON"  
**Symptom:** NO SOUND OR PICTURE, HT FROM  
 POWER SUPPLY CORRECT, BUT 12V SUPPLY  
 GONE LOW  
**Cause:** OPEN CIRCUIT CAPACITOR

Cure: CHECK / REPLACE C933 2200uf 25V  
PART NUMBER C292951

Model: CPT2598 COLOUR TV

Subject: POWER SUPPLY  
Fault: PULSING POWER SUPPLY  
Symptom: DEAD SET, POWER SUPPLY PULSES  
Cause: OPEN CIRCUIT DIODE.  
Cure: CHECK / REPLACE D907 BYV10-40  
PART NUMBER T531056.

Model: CPT2598 COLOUR TV

Subject: POWER SUPPLY  
Fault: PULSATING POWER SUPPLY.  
Symptom: SET DEAD, POWER SUPPLY PULSES  
APPEARING TO TRY TO START UP.  
Cause: OPEN CIRCUIT RESISTOR.  
Cure: CHECK / REPLACE R944 47K 1W  
PART NUMBER R447542

Model: CPT2598 COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY TRIPPING.  
Symptom: POWER SUPPLY TRIPPING.  
Cause: FAULTY REGULATOR, LOADING SUPPLY  
Cure: CHECK/REPLACE IC932.  
PT. NO. T900326.

Model: CPT2598 COLOUR TV

Subject: TUNING SELECTION  
Fault No: 22 PICTURE FLUCTUATES WITH FUNCTION US  
R932 DR15 HIGH-REPLACE PT NO R002551

Model: CPT2598 COLOUR TV

Subject: TUNING SELECTION  
Fault No: 23 NOT RE-PROGRAMMING(R VERSIONS ONLY)  
Symptom: RE-PROGRAMMING AS PER TECH  
LINE 620/621 CANNOT BE STORED. DOTS IN  
LEFT HAND WINDOW.  
Cause: MEMORY CORRUPTED.  
Cure: MEMORY I. C. DESTROYED BEYOND  
RECALL. REPLACE I. C. 1502 P/No E730002

Model: CPT2598 COLOUR TV

Subject: TUNING SELECTION

**Fault:** SET IN A. V. /WRONG OP-TECHLINE 620/1

**Symptom:** SET GOES TO STAND BY AFTER 5 MINUTES, OR , TUNING UP/DOWN BUTTONS ACTUATE THE WRONG FUNCTIONS, OR, SET WILL NOT TUNE IN, OR, ODD DOTS OR CHARACTERS IN THE DISPLAY WINDOW. IT IS ALSO POSSIBLE THAT YOU WILL HAVE NO TELETEXT OPERATION, OR BUTTONS REGISTER INCORRECTLY, I. E. 1 BECOMES 2 2 - 3 ETC.

**Cause:** CORRUPTED PROGRAMME IN MEMORY I. C. (I. C. 1502)

**Cure:** REPROGRAMME THE MEMORY I. C. AS FOLLOWS. (OR OBTAIN TECHLINE 620/621 FROM HITACHI SERVICE)

1. YOU WILL NEED THE REMOTE CONTROL HANDSET, IF THIS IS NOT AVAILABLE THEN YOU SHOULD REPLACE I. C. 1502. THE NEW I. C. IS PRE-PROGRAMMED.

OPEN THE BACK OF THE REMOTE HANDSET. YOU WILL NEED TO FORM A SWITCH ACROSS TWO PINS OF THE I. C.

IF THE I. C. IS TYPE SAA1250 PUT A SWITCH ACROSS PINS 15 & 23.

IN OTHER VERSIONS OF THE 4 BATTERY TYPE HANDSET PUT YOUR SWITCH ON PINS 12 & 20.

CONT. .

PUSH THE PROGRAMMING SWITCH YOU HAVE JUST FITTED ONCE. THE CHANNEL DISPLAY SHOULD SHOW : C H

PUSH THE SWITCH AGAIN AND THE DISPLAY SHOULD SHOW : O P

PRESS NUMBER 1 ON THE HANDSET AND THE DISPLAY SHOWS: P 1

CONT. . .

Model: CPT2598

COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** SET IN A. V. /WRONG OP-TECHLINE 620/1

PRESS THE STANDBY BUTTON ON THE HANDSET. THE DISPLAY SHOWS : \_ \_

OPEN THE FRONT FLAP ON THE T. V. AND PRESS AND HOLD THE STORE BUTTON, THEN PRESS THE NUMBER 9 ON THE REMOTE HANDSET, WHILE STILL HOLDING THE STORE. THE SET WILL COME ON ON CHANNEL 9 AND THE DISPLAY SHOULD SHOW : 9 (IN THE RIGHT HAND WINDOW)

IF THERE IS NOW A DOT IN THE LEFT HAND WINDOW OF THE DISPLAY IT MUST BE REMOVED AT THIS POINT. ALSO CHECK FOR DOTS ON OTHER CHANNELS AND REMOVE THEM ALSO. TO REMOVE THE DOT, SELECT A



CHANNEL WHICH DOES NOT HAVE A DOT LIT, AND PRESS THE STORE BUTTON. FOLLOW THIS BY PRESSING THE NUMBER OF THE CHANNEL WHICH DOES HAVE A DOT.

CONT. . .

THE DISPLAY FIRST SHOWS TWO FLASHING BARS, THEN THE CHANNEL NUMBER YOU HAVE JUST PRESSED. REPEAT THE PROCESS FOR ALL CHANNELS WITH DOTS.

IF ALL CHANNELS HAVE DOTS THE MEMORY I. C. (IC1502) IS DAMAGED AND MUST BE REPLACED.

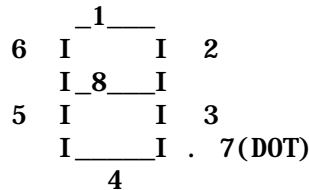
CONT. . . .

THE NEXT STEP WILL DEPEND UPON WHICH MODEL YOU HAVE.

FOR CPT 1476R & 1646R FOLLOW 1-6

FOR CPT 2198/2598/2596/2196/2578 7-12

THE UNIT HAS A SERIES OF OPTION BYTES AND COMMAND BITS. THE LEFT HAND WINDOW IS THE BYTE NUMBER THE RIGHT HAND HAS THE COMMAND BITS, IT IS THESE YOU SET. THE BIT NUMBERS IN THE RIGHT HAND DISPLAY WINDOWS ARE AS FOLLOWS



Model: CPT2598

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1

1. PRESS THE PROGRAMMING SWITCH 3 TIMES THE LEFT HAND DISPLAY WINDOW SHOWS THE OPTION BYTE NUMBER 1 IN THE RIGHT HAND WINDOW YOU MUST LIGHT THE FOLLOWING BIT NUMBERS BY PRESSING THE NUMBERS ON THE REMOTE HANDSET. EACH PRESS OF A NUMBER WILL ALTERNATELY LIGHT THEN EXTINGUISH THE BIT.

FOR OPTION BYTE 1 LIGHT BITS 1 & 2

2. PRESS THE PROGRAMMING BUTTON ONCE MORE. THE LEFT HAND DISPLAY WINDOW SHOWS 2. NOW USING THE HANDSET LIGHT

BITS 1 & 2 IN THE RIGHT HAND DISPLAY

3. PRESS THE PROGRAMMING BUTTON ONCE, THE LEFT HAND DISPLAY SHOWS 3. NOW USE THE HANDSET TO LIGHT BITS 3 & 5 IN THE RIGHT HAND DISPLAY.

4. PRESS THE PROGRAMMING SWITCH ONCE, SO THAT THE LEFT HAND WINDOW SHOWS 4. NOW USE THE REMOTE HANDSET TO ENSURE THAT NO BITS ARE LIT IN THE RIGHT HAND



## DISPLAY WINDOW.

5. WHEN ALL ARE CORRECT PRESS THE STAND BY BUTTON ON THE HANDSET TO MEMORISE THESE SETTINGS. SWITCH THE SET BACK ON AND RETUNE.

6. INITIAL VOLUME SHOULD NOW BE RESET. ADJUST THE PRESET VOLUME CONTROL VR1504 TO MID POSITION. ADJUST THE VOLUME TO YOUR DESIRED LEVEL USING THE HANDSET AND PRESS THE STORE BUTTON IMMEDIATELY.

THE FOLLOWING PAGES REFER TO THE LARGE SCREEN MODELS CPT2198 ETC.

7. PRESS THE PROGRAMMING SWITCH 3 TIMES THE LEFT HAND DISPLAY WINDOW SHOWS 1. NOW USING THE HAND SET LIGHT BITS

1 , 4 , 5 & 7 IN THE RIGHT HAND WINDOW

8. PRESS THE PROGRAMMING SWITCH ONCE SO THE LEFT HAND WINDOW SHOWS 2. NOW USE THE HANDSET TO LIGHT BITS 1, 2, 8 & 7 IN THE RIGHT HAND WINDOW.



Model : CPT2598

COLOUR TV

Subject: TUNING SELECTION

Fault: SET IN A. V. /WRONG OP-TECHLINE 620/1

9. PRESS THE PROGRAMMING SWITCH ONCE, SO THE LEFT HAND WINDOW SHOWS 3. NOW USE THE HANDSET TO LIGHT BIT 3 ONLY IN THE RIGHT HAND WINDOW.

10. PRESS THE PROGRAMMING SWITCH ONCE, SO THE LEFT HAND WINDOW SHOWS 4. NOW USE THE HANDSET TO LIGHT BIT 6 ONLY IN THE RIGHT HAND WINDOW.

11. NOW PRESS THE STAND BY BUTTON ON THE HANDSET TO MEMORISE THESE SETTING.

12. SWITCH THE SET BACK ON AND TUNE IN



Model : CPT2598

COLOUR TV

Subject: TUNING SELECTION

Fault: PERSISTANT MEMORY LOSS- TECHLINE 633

Symptom: SET REQUIRES REPROGRAMMING ON A REGULAR BASIS (TECHLINE 620 / 621)

Cause: MICRO PROCESSOR CORRUPTS THE EEPROM I. C. (IC1502)

Cure: CHANGE IC1501 FOR NEW VERSION SAA1293-03 PART NUMBER T900549. A REVISED PROGRAMMING SHEET WILL BE SENT WITH THE I. C. (TECHLINE 633) .. CONT IT IS RECOMENDED THAT YOU REPLACE THE MEMORY I. C. 1502 PART NO E730002 AT THE SAME TIME TO PREVENT TRANSFER OF CORRUPTED DATA.

**Model: CPT2598**

**COLOUR TV**

**Subject: TUNING SELECTION**

**Fault: IC1501/2 SAA1293A-03 PROGRAMMING**

**Symptom: MEMORY LOSS.**

**Cause: CORRUPTION TO MICRO / EEPROM**

**Cure: FIT IC1501 TYPE No SAA1293A-03**

**P/N T900549 & IC1502 P/N0 E730002**

**WHEN FITTED THE PROGRAMMING METHOD**

**DIFFERS FROM THAT OF THE ORIGINAL AND**

**SHOULD BE DONE AS FOLLOWS. .... (CONT)**

**YOU WILL REQUIRE THE REMOTE CONTROL**

**HANDSET (FOUR BATTERY VERSION ONLY)**

**TO EASE PROGRAMMING, A SWITCH CAN BE**

**ADDED TO THE HANDSET.**

**1) IF IC1 IS TYPE SAA1250, CONNECT THE SWITCH BETWEEN PINS 15 & 23.**

**..... (CONT)**

**2) IF IC1 IS TYPE M50467 THEN CONNECT THE SWITCH BETWEEN PINS 12 & 20.**

**SWITCH THE SET ON.**

**PUSH THE PROGRAMMING SWITCH ONCE, SO**

**THAT THE CHANNEL INDICATOR DISPLAY**

**READS "CH" , THEN PUSH THE SWITCH A**

**SECOND TIME SO THE DISPLAY NOW SHOWS**

**"OP"..... (CONT).**

**NOW PRESS THE "VOLUME PLUS" BUTTON TO**

**GO TO OPTION BYTE 1. THE CHANNEL**

**INDICATOR DISPLAY WILL SHOW "1" IN THE**

**LEFT HAND DIGIT WINDOW, AND YOU WILL**

**NEED TO SELECT THE CORRECT BITS IN THE**

**RIGHT HAND WINDOW USING THE CHANNEL**

**BUTTONS ON THE HANDSET.**

**THE BITS ARE NUMBERED THUS ....**

**..... (CONT)**

**Model: CPT2598**

**COLOUR TV**

**Subject: TUNING SELECTION**

**Fault: IC1501/2 SAA1293A-03 PROGRAMMING**

**BIT 1**

-----

**BIT 6 I I BIT 2**

**I BIT 8 I**

-----

**BIT 5 I I BIT 3**

**I I**

-----

**. BIT 7 (DOT)**

**BIT 4**

**FOR OPTION BYTE 1 PRESS THE CHANNEL**

**NUMBER BUTTONS ON THE HANDSET TO LIGHT**

**THE FOLLOWING BITS**

1, 5, 7, 8. THEN PRESS STORE BUTTON  
PRESS VOLUME PLUS BUTTON TO PROGRESS  
TO OPTION BYTE 2 AND LIGHT THE BITS  
1, 2, 7, 8. THEN PRESS STORE BUTTON  
PRESS THE VOLUME PLUS BUTTON TO MOVE  
ON TO OPTION BYTE 3. THEN LIGHT BITS  
5, 3. THEN PRESS THE STORE BUTTON.  
(FOR CPT 2598A ALSO LIGHT BIT 7).  
PRESS THE VOLUME PLUS BUTTON TO MOVE  
ON TO OPTION BYTE 4. NOW LIGHT BITS  
5 ONLY. THEN PRESS THE STORE BUTTON  
FINALLY SWITCH THE SET TO STANDBY TO  
EXIT THE PROGRAMMING MODE.  
SWITCH THE SET BACK ON AND TUNE IN.



**Model:** CPT2598                      **COLOUR TV**

**Subject:** TUNER/IF  
**Fault No:** 28 DISTORTED SOUND  
CHECK - 10V SUPPLY R934 OPEN CIRCUIT  
PT NO R200551



**Model:** CPT2598                      **COLOUR TV**

**Subject:** TUNER/IF  
**Fault No:** 29 DRIFTING OFF TUNE  
**Symptom:** DRIFTS OFF TUNE  
**Cause:** POOR L. T. REGULATION  
**Cure:** CHECK 33V SUPPLY TO TUNER FOR  
VARIATION. REPLACE IC1503.



**Model:** CPT2598                      **COLOUR TV**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault No:** 41 FLASHES BLUE WHEN CHANNEL CHANGED  
CHANGE R708 TO 6K8 PT NO R638330  
FIT 33PF PT NO J024867ZR ACROSS R708  
IC701 MUST BE MULLARD DEVICE



**Model:** CPT2598                      **COLOUR TV**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** TWO HORIZONTAL LINES ON PEAK WHITE  
**Symptom:** TWO HORIZONTAL LINES AT HIGH  
BRIGHTNESS / CONTRAST ON WHITE PICTURE  
CONTENT.  
**Cause:** A CAPACITOR NEEDS TO BE ADDED.  
**Cure:** ADD A 47uF 50V CAP. ON THE BACK  
OF THE PSU/TIMEBASE PCB. THE +VE LEG  
CONNECTS TO THE +VE OF C718, -VE TO  
-VE LEG OF C720.





Model : CPT2598 COLOUR TV

Subject: AUDIO  
Fault No: 57 BUZZ ON SOUND  
CHANGE C468 100MFD TO 330MFD 16VW PT  
NO .J0252948R

Model: CPT2598 COLOUR TV

**Subject:** AUDIO  
**Fault:** SOUND CANNOT BE REDUCED OR MUTED  
**Symptom:** SOUND CANNOT BE REDUCED TO  
 ZERO, OR MUTED.  
**Cause:** LEAKY DIODE  
**Cure:** CHECK / REPLACE D701.

Model: CPT2598 COLOUR TV

Subject: VERTICAL STAGE  
Fault No: 64 WEAK SYNC ON CHANNEL CHANGE  
R932 OR15 HIGH - REPLACE PT NO R002551

Model : CPT2598                      COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** FRAME TWITCHING.  
**Symptom:** FRAME TWITCHING.  
**Cause:** DRY JOINT.  
**Cure:** CHECK/RE-MAKE DRY JOINT AT C604.

Model: CPT2598 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault No: 74 NO LINE HOLD  
REPLACE IC431 PT NO T900457

Model: CPT2598 COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** POOR SPOT SUPPRESSION  
**Symptom:** AFTERGLOW ON SCREEN WHEN SET  
IS SWITCHED OFF.  
**Cause:** POOR SPOT SUPPRESSION.  
**Cure:** CHANGE C720 TO 47uF

Model: CPT2598 COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** SOUND CANNOT BE REDUCED OR MUTED  
**Symptom:** SOUND CANNOT BE REDUCED TO  
ZERO. OR MUTED.

Cause: LEAKY DIODE  
Cure: CHECK / REPLACE D701.

Model: CPT2598 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: Q702 FAILS AFTER A FEW HOURS  
Symptom: Q702 FAILS AFTER A FEW HOURS  
Cause: 12V RAIL LOW  
Cure: CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE

Model: CPT2598 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: SET DEAD DUE TO FAILURE OF Q702  
Symptom: SET DEAD, L/OP TRANSISTOR  
Q702 HAS FAILED.  
Cause: INTERACTION BETWEEN L701, & L703  
Cure: REPLACE Q702 PT/No T636041 WITH  
HITACHI PARTS ONLY.  
EASE L703 AWAY FROM L701 TOWARD R707  
AND SECURE WITH HOT MELT. CHECK FOR DRY  
JOINTS, C710/1/2 L703, R707, R724

Model: CPT2598 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: TWO HORIZONTAL LINES ON PEAK WHITE  
Symptom: TWO HORIZONTAL LINES AT HIGH  
BRIGHTNESS / CONTRAST ON WHITE PICTURE  
CONTENT.  
Cause: A CAPACITOR NEEDS TO BE ADDED.  
Cure: ADD A 47uF 50V CAP. ON THE BACK  
OF THE PSU/TIMEBASE PCB. THE +VE LEG  
CONNECTS TO THE +VE OF C718, -VE TO  
-VE LEG OF C720.

Model: CPT2598 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: BRIGHT WHITE SCREEN, THEN GOES OFF  
Symptom: BRIGHT WHITE SCREEN THEN SET  
GOES TO STANDBY.  
Cause: LOW 200V SUPPLY DUE TO C720 LOW  
CAPACITANCE OR LEAKED.  
Cure: REPLACE C720 22uF 250V  
PART NUMBER 0253973  
NOTE. IN EARLY PRODUCTION SETS, C720 MAY  
BE 4.7uF 250V.



Model: CPT2598 COLOUR TV

Subject: TELETEXT  
Fault No: 86 NO TEXT  
Symptom: NO TELETEXT.  
Cause: MEMORY LOSS.  
Cure: FOLLOW INSTRUCTIONS ON TECH LINE  
620/621, WHICH CAN BE FOUND UNDER THE  
TUNING AND SELECTION SECTION FOR THIS  
MODEL.



Model : CPT2598                      COLOUR TV

**Subject: TELETEXT**

**Fault: REPLACEMENT TEXT PCB NOT WORKING**

**THE LATER PCB HAS SHORTER SOCKETS THAN THE ORIGINAL PCB. PINS 7, 8, 9 AND 10 OF PL2102 SHOULD BE LINKED. PIN 10 IS THE PIN NEAREST THE REAR OF THE CTV.**

**IF SEVERE SMEARING OCCURS IN TEXT MODE, THREE 750HM RESISTORS NEED TO BE FITTED TO THE RGB OUTPUTS OF PL2102 TO CHASSIS EARTH ON MAIN PCB.**



Model: CPT2598 COLOUR TV

Subject: TELETEXT  
Fault: WILL NOT OPERATE ON BAMBOOZLE  
Symptom: WILL NOT OPERATE THE HEXI-  
DECIMAL CODED TELETEXT PAGES - E. G:  
BAMBOOZLE  
Cause: SOFTWARE DIFFERENCES.  
Cure: THIS MODELS CANNOT OPERATE ON  
HEXIDECIMAL TEXT PAGES. THEIR TEXT  
SYSTEM WAS DESIGNED PRIOR TO USE OF  
THESE PAGES. AND NO UPDATE AVAILABLE.



Model: CPT2598A COLOUR TV

Subject: POWER SUPPLY

Fault No: 7 DEAD-FUSE OK

CHECK ZD901 FOR SHORT OR OPEN. IF FAULTY, REPLACE TH902 (REGARDLESS OF ANY METER READINGS). REPLACE ZD901. CHECK ZD902 - IF FAULTY, REPLACE ZD902, IC901.

CHECK C908 (S/C OR ANY SIGN OF BULGE OR OVERLOAD). REPLACE C908 IF NECESSARY. SEE TECHLINE BULLETIN 628. CHECK Q903 & D906 FOR SHORT OR OPEN. REPLACE Q903 OR D906 AS REQUIRED.



**Model : CPT2598A                      COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** SET DEAD DUE TO FAILURE OF Q702  
**Cause:** INTERACTION BETWEEN L701 & L703  
**Cure:** ENSURE REPLACEMENT OF Q702 WITH  
HITACHI SPARE PART NUMBER T636041.  
EASE L703 AWAY FROM L701 BY MOVING IT  
TOWARD R707. IT SHOULD THEN BE SECURED  
IN PLACE USING HOT MELT. FURTHER MORE  
ENSURE THAT L703 DOES NOT CROSS THE  
THICK BARRIER LINE MARKED ON THE PCB  
AND THAT L701 IS UPRIGHT.  
YOU SHOULD ALSO CHECK THE FOLLOWING  
FOR DRY JOINTS:  
C711, C712, C710, L703, R707, R724  
SEE TECHLINE BULLETIN NO 631 FOR  
SKETCH



**Model : CPT2598A                      COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** SET PULSES IN STANDBY  
**Symptom:** SET PULSES WHEN IN STANDBY  
MODE, OR FROM COLD SWITCH ON  
**Cause:** OVER VOLTS FEEDBACK FAULTY  
**Cure:** REPLACE THE FOLLOWING COMPONENTS  
R941, VR941, ZD941, OC941.



**Model : CPT2598A                      COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** Q702 FAILS AFTER A FEW HOURS  
**Symptom:** Q702 FAILS AFTER A FEW HOURS  
**Cause:** 12V RAIL LOW  
**Cure:** CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE



**Model : CPT2598A                      COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** INTERMITTANT GOES TO STANDBY  
**Symptom:** SET CUTS OUT INTERMITTANTLY,  
THE CHANNEL DISPLAY GOES OUT FULLY FOR  
A COUPLE OF SECONDS THE COMES BACK ON  
IN STANDBY.  
**Cause:** CRACKS IN PRINT.  
**Cure:** REMOVE OLD SOLDER FROM PINS OF  
CHOPPER TRANSFORMER, CHECK FOR PRINT  
CONTINUITY TO PADS, THE RESOLDER.





**Model : CPT2598A                      COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** SET PULSES FROM COLD SWITCH ON  
**Symptom:** WHEN SWITCHED ON FROM COLD  
THE SET PULSES SEVERAL TIMES BEFORE  
COMING ON.  
**Cause:** CAPACITORS DRYING OUT.  
**Cure:** CHECK / REPLACE C908 470uF 25V  
PART NUMBER J0800075, ALSO CHECK D907  
BYV10-40 PART NUMBER T531056 FOR OPEN  
CIRCUIT.



**Model : CPT2598A                      COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** PULSING POWER SUPPLY  
**Symptom:** DEAD SET, POWER SUPPLY PULSES  
**Cause:** OPEN CIRCUIT DIODE.  
**Cure:** CHECK / REPLACE D907 BYV10- 40  
 PART NUMBER T531056.



**Model: CPT2598A COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** PULSATING POWER SUPPLY.  
**Symptom:** SET DEAD, POWER SUPPLY PULSES  
 APPEARING TO TRY TO START UP.  
**Cause:** OPEN CIRCUIT RESISTOR.  
**Cure:** CHECK / REPLACE R944 47K 1W  
 PART NUMBER R447542



Model: CPT2598A COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** PERSISTANT MEMORY LOSS- TECHLINE 633

**Symptom:** SET REQUIRES REPROGRAMMING ON  
A REGULAR BASIS (TECHLINE 620 / 621)

**Cause:** MICRO PROCESSOR CORRUPTS THE  
EEPROM I. C. (IC1502)

**Cure:** CHANGE IC1501 FOR NEW VERSION  
SAA1293- 03 PART NUMBER T900549. A  
REVISED PROGRAMMING SHEET WILL BE SENT  
WITH THE I. C. (TECHLINE 633) . . CONT  
IT IS RECOMENDED THAT YOU REPLACE THE  
MEMORY I. C. 1502 PART NO E730002 AT THE  
SAME TIME TO PREVENT TRANSFER OF  
CORRUPTED DATA.



**Model: CPT2598A                      COLOUR TV**

**Subject: TUNING SELECTION**  
**Fault: IC1501/2 SAA1293A-03 PROGRAMMING**

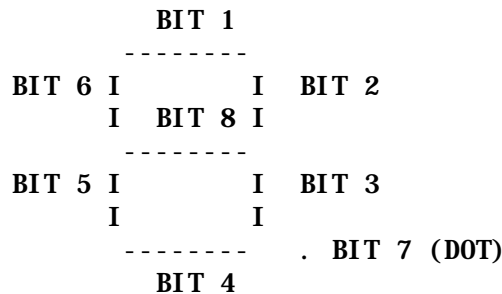


**Symptom:** MEMORY LOSS.  
**Cause:** CORRUPTION TO MICRO / EEPROM  
**Cure:** FIT IC1501 TYPE No SAA1293A-03  
 P/N T900549 & IC1502 P/NO E730002  
 WHEN FITTED THE PROGRAMMING METHOD  
 DIFFERS FROM THAT OF THE ORIGINAL AND  
 SHOULD BE DONE AS FOLLOWS. .... (CONT)  
 YOU WILL REQUIRE THE REMOTE CONTROL  
 HANDSET (FOUR BATTERY VERSION ONLY)  
 TO EASE PROGRAMMING, A SWITCH CAN BE  
 ADDED TO THE HANDSET.  
 1) IF IC1 IS TYPE SAA1250, CONNECT THE  
 SWITCH BETWEEN PINS 15 & 23.  
 .... (CONT)



## Model: CPT2598A COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** IC1501/2 SAA1293A-03 PROGRAMMING  
 2) IF IC1 IS TYPE M50467 THEN CONNECT  
 THE SWITCH BETWEEN PINS 12 & 20.  
 SWITCH THE SET ON.  
 PUSH THE PROGRAMMING SWITCH ONCE, SO  
 THAT THE CHANNEL INDICATOR DISPLAY  
 READS "CH", THEN PUSH THE SWITCH A  
 SECOND TIME SO THE DISPLAY NOW SHOWS  
 "OP"..... (CONT).  
 NOW PRESS THE "VOLUME PLUS" BUTTON TO  
 GO TO OPTION BYTE 1. THE CHANNEL  
 INDICATOR DISPLAY WILL SHOW "1" IN THE  
 LEFT HAND DIGIT WINDOW, AND YOU WILL  
 NEED TO SELECT THE CORRECT BITS IN THE  
 RIGHT HAND WINDOW USING THE CHANNEL  
 BUTTONS ON THE HANDSET.  
 THE BITS ARE NUMBERED THUS ....  
 .... (CONT)



FOR OPTION BYTE 1 PRESS THE CHANNEL  
 NUMBER BUTTONS ON THE HANDSET TO LIGHT  
 THE FOLLOWING BITS  
 1, 5, 7, 8. THEN PRESS STORE BUTTON  
 PRESS VOLUME PLUS BUTTON TO PROGRESS  
 TO OPTION BYTE 2 AND LIGHT THE BITS  
 1, 2, 7, 8. THEN PRESS STORE BUTTON  
 PRESS THE VOLUME PLUS BUTTON TO MOVE  
 ON TO OPTION BYTE 3. THEN LIGHT BITS



5. 3. THEN PRESS THE STORE BUTTON.  
(FOR CPT 2598A ALSO LIGHT BIT 7).  
PRESS THE VOLUME PLUS BUTTON TO MOVE  
ON TO OPTION BYTE 4. NOW LIGHT BITS  
5 ONLY. THEN PRESS THE STORE BUTTON

Model: CPT2598A COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** IC1501/2 SAA1293A-03 PROGRAMMING  
FINALLY SWITCH THE SET TO STANDBY TO  
EXIT THE PROGRAMMING MODE.  
SWITCH THE SET BACK ON AND TUNE IN.

Model : CPT2598A COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING

**Fault:** TWO HORIZONTAL LINES ON PEAK WHITE

**Symptom:** TWO HORIZONTAL LINES AT HIGH  
BRIGHTNESS / CONTRAST ON WHITE PICTURE  
CONTENT.

**Cause:** A CAPACITOR NEEDS TO BE ADDED.

**Cure:** ADD A 47uF 50V CAP. ON THE BACK  
OF THE PSU/TIMEBASE PCB. THE +VE LEG  
CONNECTS TO THE +VE OF C718, -VE TO  
-VE LEG OF C720.

Model: CPT2598A COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** Q702 FAILS AFTER A FEW HOURS  
**Symptom:** Q702 FAILS AFTER A FEW HOURS  
**Cause:** 12V RAIL LOW  
**Cure:** CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE

Model: CPT2598A COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** SET DEAD DUE TO FAILURE OF Q702  
**Symptom:** SET DEAD, L/OP TRANSISTOR  
Q702 HAS FAILED.  
**Cause:** INTERACTION BETWEEN L701, & L703  
**Cure:** REPLACE Q702 PT/No T636041 WITH  
HITACHI PARTS ONLY.  
EASE L703 AWAY FROM L701 TOWARD R707  
AND SECURE WITH HOT MELT. CHECK FOR DRY  
JOINTS. C710/1/2 L703, R707, R724

Model: CPT2598A COLOUR TV

**Subject: HORIZONTAL STAGE**

# HITACHI

Fault: TWO HORIZONTAL LINES ON PEAK WHITE  
Symptom: TWO HORIZONTAL LINES AT HIGH  
BRIGHTNESS / CONTRAST ON WHITE PICTURE  
CONTENT.  
Cause: A CAPACITOR NEEDS TO BE ADDED.  
Cure: ADD A 47uF 50V CAP. ON THE BACK  
OF THE PSU/TIMEBASE PCB. THE +VE LEG  
CONNECTS TO THE +VE OF C718, -VE TO  
-VE LEG OF C720.



## Model: CPT2598A COLOUR TV

Subject: TELETEXT  
Fault: WILL NOT OPERATE ON BAMBOOZLE  
Symptom: WILL NOT OPERATE THE HEXI -  
DECIMAL CODED TELETEXT PAGES - E. G:  
BAMBOOZLE  
Cause: SOFTWARE DIFFERENCES.  
Cure: THIS MODELS CANNOT OPERATE ON  
HEXIDECIMAL TEXT PAGES. THEIR TEXT  
SYSTEM WAS DESIGNED PRIOR TO USE OF  
THESE PAGES, AND NO UPDATE AVAILABLE.



## Model: CPT2656 COLOUR TV

Subject: POWER SUPPLY  
Fault: WILL NOT START FROM COLD  
Symptom: SET WILL NOT START FROM COLD  
OR TAKES A WHILE TO COME ON.  
Cause: LEAKY CAPACITOR  
Cure: REPLACE CB604, CB601



## Model: CPT2656 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: TDA4505 2Y TO 4Y & E MODIFICATION  
Symptom: TDA4505 2Y REPLACED WITH A 4Y  
OR E VERSION GIVES LINEARITY FAULT.  
Cause: ORIGINAL I. C. TDA4505 2Y IS NO  
LONGER AVAILABLE AND HAS BEEN UPDATED.  
Cure: WHEN FITTING ICB101 IS IMPORTANT  
TO NOTE WHICH TYPE THE ORIGINALLY  
FITTED COMPONENT WAS. IF 2Y VERSION  
WAS FITTED, CARRY OUT THE FOLLOWING  
CHANGE RB122 TO 220K PART No AA0729  
RB123 TO 220K PART No AA0729  
RB110 TO 1M5 PART No AA0749  
RB587 TO 3K3 PART No AA0685  
RB117 TO 1M2 0.25W  
RB155 TO 18K PART No AA0703  
RB134 TO 2K2 PART No AA0681  
CB114 TO 220nF PART No CK2704  
CB132 TO 22nF PART No CK2464

Model: CPT2656

COLOUR TV

Subject: VERTICAL STAGE  
Fault: TDA4505 2Y TO 4Y & E MODIFICATION  
Symptom: TDA4505 2Y REPLACED WITH A 4Y  
OR E VERSION GIVES LINEARITY FAULT.  
Cause: ORIGINAL I. C. TDA4505 2Y IS NO  
LONGER AVAILABLE AND HAS BEEN UPDATED.  
Cure: WHEN FITTING ICB101 IS IMPORTANT  
TO NOTE WHICH TYPE THE ORIGINALLY  
FITTED COMPONENT WAS. IF 2Y VERSION  
WAS FITTED, CARRY OUT THE FOLLOWING  
CHANGE RB122 TO 220K PART No AA0729  
RB123 TO 220K PART No AA0729  
RB110 TO 1M5 PART No AA0749  
RB587 TO 3K3 PART No AA0685  
RB117 TO 1M2 0.25W  
RB155 TO 18K PART No AA0703  
RB134 TO 2K2 PART No AA0681  
CB114 TO 220nF PART No CK2704  
CB132 TO 22nF PART No CK2464  
CB149 TO 2n2 PART No CC0242

Model: CPT2656

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: E/W MODULE RUNS VERY HOT  
Symptom: E/W TRANSISTORS BLOW, THEN  
WHEN REPLACED RUN VERY HOT.  
Cause: LEAKY CAPACITORS.  
Cure: REPLACE THE FOLLOWING CAPACITORS  
CB511, CB507, CB512, CB513, CB515.

Model: CPT2658

COLOUR TV

Subject: POWER SUPPLY  
Fault: WILL NOT START FROM COLD  
Symptom: SET WILL NOT START FROM COLD  
OR TAKES A WHILE TO COME ON.  
Cause: LEAKY CAPACITOR  
Cure: REPLACE CB604, CB601

Model: CPT2658

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: INTERMITTANT BLANK PICTURE  
Symptom: PICTURE BLANKS OUT RANDOMLY  
Cause: OXIDATION OF LINKS / FAULTY  
TRANSISTORS  
Cure: REPLACE TINNED COPPER WIRE LINKS  
ON TELETEX PCB WHICH SOLDER ON TOP



(COMPONENT) SIDE OF BOARD. IF FAULT  
PERSISTS CHECK / REPLACE TG9 AND TG13

Model: CPT2658

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: TDA4505 2Y TO 4Y & E MODIFICATION  
Symptom: TDA4505 2Y REPLACED WITH A 4Y  
OR E VERSION GIVES LINEARITY FAULT.  
Cause: ORIGINAL I. C. TDA4505 2Y IS NO  
LONGER AVAILABLE AND HAS BEEN UPDATED.  
Cure: WHEN FITTING ICB101 IS IMPORTANT  
TO NOTE WHICH TYPE THE ORIGINALLY  
FITTED COMPONENT WAS. IF 2Y VERSION  
WAS FITTED, CARRY OUT THE FOLLOWING

Model: CPT2658

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: TDA4505 2Y TO 4Y & E MODIFICATION  
CHANGE RB122 TO 220K PART No AA0729  
RB123 TO 220K PART No AA0729  
RB110 TO 1M5 PART No AA0749  
RB587 TO 3K3 PART No AA0685  
RB117 TO 1M2 0.25W  
RB155 TO 18K PART No AA0703  
RB134 TO 2K2 PART No AA0681  
CB114 TO 220nF PART No CK2704  
CB132 TO 22nF PART No CK2464  
CB149 TO 2n2 PART No CC0242

Model: CPT2658

COLOUR TV

Subject: VERTICAL STAGE  
Fault: TDA4505 2Y TO 4Y & E MODIFICATION  
Symptom: TDA4505 2Y REPLACED WITH A 4Y  
OR E VERSION GIVES LINEARITY FAULT.  
Cause: ORIGINAL I. C. TDA4505 2Y IS NO  
LONGER AVAILABLE AND HAS BEEN UPDATED.  
Cure: WHEN FITTING ICB101 IS IMPORTANT  
TO NOTE WHICH TYPE THE ORIGINALLY  
FITTED COMPONENT WAS. IF 2Y VERSION  
WAS FITTED, CARRY OUT THE FOLLOWING  
CHANGE RB122 TO 220K PART No AA0729  
RB123 TO 220K PART No AA0729  
RB110 TO 1M5 PART No AA0749  
RB587 TO 3K3 PART No AA0685  
RB117 TO 1M2 0.25W  
RB155 TO 18K PART No AA0703  
RB134 TO 2K2 PART No AA0681  
CB114 TO 220nF PART No CK2704  
CB132 TO 22nF PART No CK2464  
CB149 TO 2n2 PART No CC0242

Model: CPT2658

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: E/W MODULE RUNS VERY HOT

Symptom: E/W TRANSISTORS BLOW, THEN  
WHEN REPLACED RUN VERY HOT.

Cause: LEAKY CAPACITORS.

Cure: REPLACE THE FOLLOWING CAPACITORS  
CB511, CB507, CB512, CB513, CB515.

Model: CPT2658

COLOUR TV

Subject: TELETEXT

Fault: PICTURE BLANKS OUT INT/WHEN COLD

Symptom: WHEN SWITCHED ON FROM COLD  
THE PICTURE CAN BE EITHER PARTIALLY OR  
FULLY BLANKED OUT. IT MAY BLANK OUT  
INTERMITTANTLY WHEN WARM ALSO.

Cause: OXIDISED WIRE LINKS ON TEXT PCB

Cure: REPLACE WITH NEW TINNED COPPER  
WIRE THE FOLLOWING LINKS: J33, J30, J24  
J20, J19, J40, J5. (ON TEXT PCB).

Model: CPT2808

COLOUR TV

Subject: POWER SUPPLY

Fault No: 14 DEAD SET

REPLACE Q901 - CHANGE C914 FROM 2.2MF  
TO 10MF PT NO C170955

ADD A 2R70HM RESISTOR PT NO R207330 IN  
PARALLEL WITH R906 AND R906A

Model: CPT2808

COLOUR TV

Subject: POWER SUPPLY

Fault No: 19 INTERMITTENT DEAD

Symptom: SET INTERMITTANT DEAD.

Cause: RESISTORS & CAP BREAK DOWN UNDER  
LOAD CONDITIONS

Cure: REPLACE R919, 920, 931, 932 & C912  
(THESE MAY MEASURE CORRECTLY ON COLD  
CHECKS WITH A METER)  
(SEE ALSO TECHLINE 634)

Model: CPT2808

COLOUR TV

Subject: POWER SUPPLY

Fault: INTERMITTENT CUT OUT

CHECK C912 FOR DRY JOINT OR OPEN  
CIRCUIT

Model: CPT2808

COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD SET

REPLACE Q901 (BUT11AF) PART NO\*T636035 WITH HITACHI SUPPLIED PARTS ONLY. CHECK R901 PART NO 0141175 AND MAIN FUSE F5701, PART NO 2721292, FOR OPEN CIRCUIT. REPLACE AS NECESSARY.

ON EARLIER MODELS C914 IS 2.2 UF. THIS SHOULD BE UPDATED TO 10 UF PART NO 080018R AND A 2.7 OHM RESISTOR SHOULD BE FITTED IN PARALLEL WITH R906 AND R906A, PART NO R207330.

PLEASE NOTE: BUT11AF SUPPLIED BY HITACHI ARE SPECIALLY SELECTED AND ARE THE ONLY PARTS TO BE USED IN THESE MODELS.

ALTERNATIVELY SOURCED PARTS MAY FAIL WITHIN A SHORT PERIOD OF TIME.

\*PLEASE SEE TECH LINE BULLETIN NO. 627

Model: CPT2808

COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD SET, C919 PHYSICALLY CRACKED.

Symptom: SET DEAD.

Cause: C919 PHYSICALLY CRACKED

Cure: REPLACE C919 WITH 2 X 2N2F 2.2KV WORKING PART NUMBER J0244215

Model: CPT2808

COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD SET, LOW H. T.

Symptom: SET DEAD. HT LOW AT ABOUT 35V

Cause: O/C / LEAKY CAPACITOR.

Cure: CHECK/REPLACE C910.

Model: CPT2808

COLOUR TV

Subject: TUNING SELECTION

Fault: NO REMOTE OPERATION / NO TUNING

Symptom: SET WILL NOT RESPOND TO ANY REOTE COMANDS. SET WILL NOT TUNE IN, JUST A SNOW STORM ON SCREEN.

Cause: FRAME PULSE TO MICRO REDUCED

Cure: REPLACE I. C. 601  
(CHECK FOR V. PULSE TO MICRO SHOULD BE APPROX 30V P/P)



Model : CPT2808 COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** NO TUNING, NO REMOTE OP  
**Symptom:** SET CANNOT BE TUNED IN, OR  
RESPOND TO REMOTE COMMANDS  
**Cause:** CORRUPTED FRAME PULSE  
**Cure:** CHECK FOR V. PULSE TO MICRO, APPROX  
30V P/PK. IF REDUCED REPLACE I. C. 601



Model: CPT2808 COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** PURITY ERROR ON PK WHITE(R VERSION)  
**Symptom:** INTERMITTENT PURITY ERRORS ON  
 PEAK WHITE PICTURE CONTENT. (R VERSION)  
**Cause:** CRT DOMING.  
**Cure:** INPUT COLOUR BARS. SET BRIGHT &  
 COLOUR TO MIN, CONTRAST TO MAX. SCOPE  
 GREEN CATHODE, AND VARY THE VALUE OF  
 R128 BETWEEN 10K & 22K TO GIVE A PK/PK  
 WHITE TO BLACK LEVEL OF 80-90V



Model: CPT2808 COLOUR TV

**Subject:** AUDIO  
**Fault No:** 55 SIBILANCE  
**Symptom:** SIBILANCE.  
**Cause:** TOP END EMPHASIS  
**Cure:** CHANGE R402 FROM 100R TO 2K7  
CHANGE C406 FROM 47nF TO 22nF  
CONNECT THE NON EARTHED END TO R402 AT  
THE JUNCTION WITH C315 & C316.  
CHANGE C415 & 418 FROM 22nF TO 68nF



Model: CPT2808 COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** WHITE PICTURE AND/OR LOW CONTRAST  
**Symptom:** WHITE PICTURE, AND OR LOW CONTRAST.  
**Cause:** CAPACITOR 0/C OR LEAKY  
**Cure:** CHECK / REPLACE C720



Model : CPT2808                      COLOUR TV

Subject: TELETEXT

Fault No: 85 NO TEXT - ONLY TOP LINE

Symptom: NO TEXT, ONLY TOP LINE ON ONE  
OR MORE CHANNELS.

Cause: M1 PULSE ADJUSTMENT POOR

Cure: REPLACE C2109 P/No C822562.  
REMOVE WIRE LINK IN PLACE OF VR2107.





(REFERS TO TECH LINE 623)

Model: CPT2808 COLOUR TV

Subject: TELETEXT

Fault: REPLACEMENT TEXT PCB NOT WORKING  
THE LATER PCB HAS SHORTER SOCKETS THAN  
THE ORIGINAL PCB. PINS 7, 8, 9 AND 10  
OF PL2102 SHOULD BE LINKED. PIN 10  
IS THE PIN NEAREST THE REAR OF THE  
CTV.  
IF SEVERE SMEARING OCCURS IN TEXT  
MODE, THREE 750HM RESISTORS NEED TO BE  
FITTED TO THE RGB OUTPUTS OF PL2102 TO  
CHASSIS EARTH ON MAIN PCB.

Model: CPT2808 COLOUR TV

Subject: SERVICE INFORMATION

Fault: REPLACEMENT CRT (MULLARD/NOKIA)  
PLEASE NOTE THAT TWO TYPES OF CRT WERE  
USED IN THE CPT2808  
CPT2808 MULLARD TYPE P/NO T170002  
CPT2808R NOKIA TYPE P/NO T170003  
ENSURE YOU FIT THE CORRECT TYPE OF CRT  
AS THE TWO ARE NOT INTER-CHANGABLE

Model: CPT2888 COLOUR TV

Subject: POWER SUPPLY

Fault: WILL NOT START FROM COLD  
Symptom: SET WILL NOT START FROM COLD  
OR TAKES A WHILE TO COME ON.  
Cause: LEAKY CAPACITOR  
Cure: REPLACE CB604, CB601

Model: CPT2888 COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD SET  
Symptom: SET DEAD. 8.5V SUPPLY HAS  
REDUCED IN VALUE.  
Cause: LEAKY TRANSISTOR.  
Cure: CHECK / REPLACE TB541. TYPE BC557  
PART NO SAL JMD100

Model: CPT2888 COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: INTERMITTANT BLANK PICTURE  
Symptom: PICTURE BLANKS OUT RANDOMLY  
Cause: OXIDATION OF LINKS / FAULTY

## TRANSISTORS

Cure: REPLACE TINNED COPPER WIRE LINKS  
ON TELETEX PCB WHICH SOLDER ON TOP  
(COMPONENT) SIDE OF BOARD. IF FAULT  
PERSISTS CHECK / REPLACE TG9 AND TG13

Model: CPT2888 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: DEAD SET  
Symptom: SET DEAD. 8.5V SUPPLY HAS  
REDUCED IN VALUE.  
Cause: LEAKY TRANSISTOR.  
Cure: CHECK / REPLACE TB541. TYPE BC557  
PART NO SAL JMD100

Model: CPT2888 COLOUR TV

Subject: TELETEX  
Fault: PICTURE BLANKS OUT INT/WHEN COLD  
Symptom: WHEN SWITCHED ON FROM COLD  
THE PICTURE CAN BE EITHER PARTIALLY OR  
FULLY BLANKED OUT. IT MAY BLANK OUT  
INTERMITTANTLY WHEN WARM ALSO.  
Cause: OXIDISED WIRE LINKS ON TEXT PCB  
Cure: REPLACE WITH NEW TINNED COPPER  
WIRE THE FOLLOWING LINKS: J33, J30, J24  
J20, J19, J40, J5. (ON TEXT PCB).

Model: CPT2888 COLOUR TV

Subject: TELETEX  
Fault: NO TEXT.  
Symptom: NO TEXT.  
Cause: FAULTY TRANSISTORS.  
Cure: CHECK/REPLACE TRANSISTORS TG9 &  
TG13. PT. NOS. JMD099.

Model: CPT2898 COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET  
Symptom: SET DEAD. 8.5V SUPPLY HAS  
REDUCED IN VALUE.  
Cause: LEAKY TRANSISTOR.  
Cure: CHECK / REPLACE TB541. TYPE BC557  
PART NO SAL JMD100

Model: CPT2898 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: DEAD SET

Symptom: SET DEAD. 8.5V SUPPLY HAS  
REDUCED IN VALUE.  
Cause: LEAKY TRANSISTOR.  
Cure: CHECK / REPLACE TB541. TYPE BC557  
PART NO SAL JMD100

Model: CPT2898 COLOUR TV

Subject: TELETEXT  
Fault: NO TEXT.  
Symptom: NO TEXT.  
Cause: FAULTY TRANSISTORS.  
Cure: CHECK/REPLACE TRANSISTORS TG9 &  
TG13. PT. NOS. JMD099.

Model: CPT3308 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 6 SET COMES ON IN STANDBY MODE.  
Symptom: WHEN SWITCHED ON FROM COLD,  
THE SET COMES ON IN STANDBY. WILL WORK  
OK WHEN OPERATED BY REMOTE CONTROL.  
Cause: TH902 GOES HIGH RESISTANCE  
Cure: REPLACE TH902. (THIS SHOULD READ  
4K7 WHEN COLD)

Model: CPT3308 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 7 DEAD- FUSE OK  
CHECK ZD901 FOR SHORT OR OPEN. IF  
FAULTY, REPLACE TH902 (REGARDLESS OF  
ANY METER READINGS). REPLACE ZD901.  
CHECK ZD902 - IF FAULTY, REPLACE  
ZD902, IC901.  
CHECK C908 (S/C OR ANY SIGN OF BULGE  
OR OVERLOAD). REPLACE C908 IF  
NECESSARY. SEE TECHLINE BULLETIN 628.  
CHECK Q903 & D906 FOR SHORT OR OPEN.  
REPLACE Q903 OR D906 AS REQUIRED.

Model: CPT3308 COLOUR TV

Subject: POWER SUPPLY  
Fault No: 9 SET TRIPS INTERMITTENTLY  
Symptom: SET TRIPS TO STANDBY  
Cause: OVER CURRENT TRIP TOO SENSITIVE  
Cure: SET TRIP AS PER T/LINE 622.  
IF SET CORRECT CHECK THE FOLLOWING  
R910, R907, R914, VR901 IN PSU  
R719 OVER VOLTS SENSING IN LINE, THIS  
IS CRITICAL, 1% TOLLERANCE RESISTOR.

Model: CPT5908

COLOUR TV

Subject: POWER SUPPLY

Fault: SET DEAD

CHECK FOR SHORT CIRCUIT TB701, DB709  
AND OPEN CIRCUIT RB701.

Model: CPT5908

COLOUR TV

Subject: POWER SUPPLY

Fault: SOUND REMAINS MUTED AT SWITCH ON

Symptom: THE SOUND REMAINS MUTED FOR  
A LONG PERIOD OF TIME AFTER THE SET IS  
SWITCHED ON FROM COLD.

Cause: CAPACITORS DRYING OUT.

Cure: CHECK THE -4.5V RAIL FOR RIPPLE  
REPLACE CB624 220uF 16V AND CB523 ALSO  
220uF 16V PART NUMBER 0800058R

Model: CPT5908

COLOUR TV

Subject: AUDIO

Fault: SOUND REMAINS MUTED AT SWITCH ON

Symptom: THE SOUND REMAINS MUTED FOR  
A LONG PERIOD OF TIME AFTER THE SET IS  
SWITCHED ON FROM COLD.

Cause: CAPACITORS DRYING OUT.

Cure: CHECK THE -4.5V RAIL FOR RIPPLE  
REPLACE CB624 220uF 16V AND CB523 ALSO  
220uF 16V PART NUMBER 0800058R

Model: CPT5908

COLOUR TV

Subject: VERTICAL STAGE

Fault: FRAME FOLDOVER AND FLYBACK LINES

Symptom: FRAME FOLDOVER, WITH FLYBACK  
LINES

Cause: O/C RESISTOR

Cure: CHECK / REPLACE RB577

Model: CPT5908

COLOUR TV

Subject: VERTICAL STAGE

Fault: DEAD SET CHANNEL LED DIM &/OR FLASH

Symptom: SET DEAD, CHANNEL No LED DIM

Cause: LEAKY DIODE / FAULTY I. C.

Cure: CHECK / REPLACE DB525 AND ICB570  
(TDA8172)

Model : CPT5908 COLOUR TV

Subject: VERTICAL STAGE

Fault: INTERMITTENT/PERMANENT NON-OPERATION  
RE-MAKE JOINTS AROUND LOPT C528, C617,  
C524, C531, C614, C525 AND C527 BY:  
1. REMOVING SOLDER FROM JOINTS  
2. BENDING COMPONENT LEADS OVER TO  
PROVIDE GOOD MECHANICAL CONNECTION  
3. RE-SOLDER JOINTS



Model : CPT5908 COLOUR TV

Subject: VERTICAL STAGE

Fault: LOW HT , COLOURED PATCHES ON SCREEN  
CHECK / REPLACE FRAME I. C. IBC570



Model : CPT5908 COLOUR TV

Subject: VERTICAL STAGE

Fault: BENT VERTICALS / PICTURE SHAKE  
REPLACE ICB501



Model : CPT5908 COLOUR TV

Subject: VERTICAL STAGE

Fault: TB526 FAILS REGULARLY  
DB525 GOES LEAKY. CHECK/REPLACE



Model : CPT5908 COLOUR TV

Subject: HORIZONTAL STAGE

Fault: ARCING  
REPLACE CB527



Model : CPT5908 COLOUR TV

Subject: HORIZONTAL STAGE

Fault: INTERMITTENT/PERMANENT NON-OPERATION  
RE-MAKE JOINTS AROUND LOPT C528, C617,  
C524, C531, C614, C525 AND C527 BY:  
1. REMOVING SOLDER FROM JOINTS  
2. BENDING COMPONENT LEADS OVER TO  
PROVIDE GOOD MECHANICAL CONNECTION  
3. RE-SOLDER JOINTS



Model : CPT5908 COLOUR TV

Subject: HORIZONTAL STAGE

Fault: SET DEAD  
CHECK DB525 FOR SHORT CIRCUIT AND

REPLACE RB538.

Model: CPT5908

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: DEAD SET, TB525 BLOWS

Symptom: SET DEAD, BLOWS TB525 LINE  
OUTPUT TRANSISTOR AFTER SHORT PERIOD  
OF TIME.

Cause: RESISTORS GO HIGH.

Cure: CHECK / REPLACE RB532, 533, 535/6  
ALL ARE 1 OHM RESISTORS. (NOTE: D. C.  
VOLTS ON BASE OF TB525 SHOULD BE FROM  
- 1.4V TO - 1.7V )

Model: CPT5908

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: DEAD, BUZZ FROM SPEAKERS

Symptom: NO PICTURE OR SOUND, BUT A  
BUZZ CAN BE HEARD FROM THE SPEAKERS

Cause: LEAKY TRANSISTOR

Cure: CHECK / REPLACE TB522

Model: CPT5908

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: CHANGE OF COMBI-TRANSFORMER

Symptom: POOR CONTRAST AND/OR FOCUS

Cause: COMBI TRANSFORMER

Cure: REPLACE COMBI TRANSFORMER MB601  
WITH NEW VERSION, PART No FMD530.  
CARRY OUT THE FOLLOWING CHANGES;  
CHANGE HB701 TO PART No SAL LF0115  
CHANGE CB524 TO 7nF PART No CE2326  
CHANGE CB715 TO 270pF PT/No SAL CE2034

Model: CPT5908

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: EXCESSIVE WIDTH

Symptom: PICTURE TOO WIDE.

Cause: DRY JOINTS / FAULTY F. E. T.

Cure: REPLACE TB526. CHECK MB521 FOR  
DRY JOINTS OR HEAT DAMAGE, REPLACE AS  
NECESSARY. REMOVE SOLDER FROM AND BEND  
LEGS TO MAKE MECHANICAL CONTACT WITH T  
HE PCB ON C524, 525, 527, 528, 531, 614, 617  
REPLACE ANY SHOWING HEAT DAMAGE.

Model: CPT5908

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: RAGGED VERTICALS  
Symptom: RAGGED VERTICALS AFTER 1 HOUR  
APPRX. FREEZING AROUND FRAME STAGE MAY  
CURE FAULT.  
Cause: D522 FAULTY  
Cure: REPLACE D522. PART NUMBER JF0025.  
PLEASE NOTE D522 IS MOUNTED UNDER HEAT  
SINK.



Model: CPT5908

COLOUR TV

Subject: TELETEXT  
Fault: POOR TELETEXT ON BB1 & BBC2 ONLY  
REPLACE ICI CCUSAL007 WITH CCUSAL012  
PART NO LMD775 AND IC250 TPU2734  
WITH TPU2735 PART NO LMD770  
PLEASE RETURN THE OLD ICS WITH YOUR  
GUARANTEE CLAIMS



Model: CPT5908

COLOUR TV

Subject: TELETEXT  
Fault: DIFFICULTY IN SELECTING SOME CEEFAX  
TELETEXT PAGES PLUS INTERMITTENT  
FLICKERING VERTICAL LINES  
REPLACE ICI CCUSAL007 WITH CCUSAL012  
PART NO LMD775 PLUS IC250 TPU2734 WITH  
TPU2735 PART NO LMD770



Model: CPT5908

COLOUR TV

Subject: TELETEXT  
Fault: CORRUPTED TELETEXT  
Symptom: CORRUPTED TEXT / DROP OUT OF  
TELETEXT  
Cause: MISSING LINKS / POOR CONTINUITY  
Cure: CHECK CONTINUITY OF TRACK & LINK  
FOR DIGITAL DATA LINES FROM VCU TO TPU  
(ICB201 THRO' TO ICB250 PINS 1 TO 4  
& PINS 39 TO 40)



Model: CPT5908

COLOUR TV

Subject: SERVICE INFORMATION  
Fault: SERVICE MANUAL ERROR  
THE SERVICE MANUAL AND PARTS LIST  
SHOWS ICB501 TO BE TYPE DPU2543. IF  
ORDERED TYPE DPU2553 (PT NO LMD723)  
WILL BE RECEIVED. THIS IS THE CORRECT  
IC FOR USE IN THE ABOVE RECEIVERS.

Model: CPT5908 COLOUR TV

Subject: PART NUMBER CHANGES

Fault: TB526 & TB531 - "M" CHASSIS  
IN THE ABOVE CHASSIS, WHEN REPLACING  
EITHER OF OR BOTH OF THE ABOVE  
TRANSISTORS, THE ORIGINAL TYPE SHOULD  
BE FITTED WITHOUT MODIFICATION. THE  
PART NUMBER IS JS0017

Model: CPT6608 COLOUR TV

Subject: POWER SUPPLY

Fault: SET DEAD  
CHECK FOR SHORT CIRCUIT TB701, DB709  
AND OPEN CIRCUIT RB701.

Model: CPT6608 COLOUR TV

Subject: POWER SUPPLY

Fault: SOUND REMAINS MUTED AT SWITCH ON  
Symptom: THE SOUND REMAINS MUTED FOR  
A LONG PERIOD OF TIME AFTER THE SET IS  
SWITCHED ON FROM COLD.  
Cause: CAPACITORS DRYING OUT.  
Cure: CHECK THE -4.5V RAIL FOR RIPPLE  
REPLACE CB624 220uF 16V AND CB523 ALSO  
220uF 16V PART NUMBER 0800058R

Model: CPT6608 COLOUR TV

Subject: AUDIO

Fault: SOUND REMAINS MUTED AT SWITCH ON  
Symptom: THE SOUND REMAINS MUTED FOR  
A LONG PERIOD OF TIME AFTER THE SET IS  
SWITCHED ON FROM COLD.  
Cause: CAPACITORS DRYING OUT.  
Cure: CHECK THE -4.5V RAIL FOR RIPPLE  
REPLACE CB624 220uF 16V AND CB523 ALSO  
220uF 16V PART NUMBER 0800058R

Model: CPT6608 COLOUR TV

Subject: VERTICAL STAGE

Fault: FRAME FOLDOVER AND FLYBACK LINES  
Symptom: FRAME FOLDOVER, WITH FLYBACK  
LINES  
Cause: O/C RESISTOR  
Cure: CHECK / REPLACE RB577





Model : CPT6608                      COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** DEAD SET CHANNEL LED DIM &/OR FLASH  
**Symptom:** SET DEAD, CHANNEL No LED DIM  
**Cause:** LEAKY DIODE / FAULTY I. C.  
**Cure:** CHECK / REPLACE DB525 AND ICB570  
 (TDA8172)

Model: CPT6608 COLOUR TV

**Subject: VERTICAL STAGE**  
**Fault: INTERMITTENT/PERMANENT NON- OPERATION**  
**RE-MAKE JOINTS AROUND LOPT C528, C617,**  
**C524, C531, C614, C525 AND C527 BY:**

- 1. REMOVING SOLDER FROM JOINTS**
- 2. BENDING COMPONENT LEADS OVER TO**  
**PROVIDE GOOD MECHANICAL CONNECTION**
- 3. RE- SOLDER JOINTS**

Model: CPT6608 COLOUR TV

Subject: VERTICAL STAGE  
Fault: LOW HT , COLOURED PATCHES ON SCREEN  
CHECK / REPLACE FRAME I. C. IBC570

Model: CPT6608 COLOUR TV

Subject: VERTICAL STAGE  
Fault: BENT VERTICLES / PICTURE SHAKE  
REPLACE ICB501

Model : CPT6608 COLOUR TV

**Subject: VERTICAL STAGE**  
**Fault: TB526 FAILS REGULARLY**  
**DB525 GOES LEAKY. CHECK/REPLACE**

Model: CPT6608 COLOUR TV

**Subject: HORIZONTAL STAGE**  
**Fault: INTERMITTENT/PERMANENT NON-OPERATIO**  
**RE-MAKE JOINTS AROUND LOPT C528, C617,**  
**C524, C531, C614, C525 AND C527 BY:**  
**1. REMOVING SOLDER FROM JOINTS**  
**2. BENDING COMPONENT LEADS OVER TO**  
**PROVIDE GOOD MECHANICAL CONNECTION**  
**3. RE-SOLDER JOINTS**



Model : CPT6608                      COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** SET DEAD  
CHECK DB525 FOR SHORT CIRCUIT AND  
REPLACE RB538.

Model: CPT6608 COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** DEAD SET, TB525 BLOWS  
**Symptom:** SET DEAD, BLOWS TB525 LINE  
OUTPUT TRANSISTOR AFTER SHORT PERIOD  
OF TIME.  
**Cause:** RESISTORS GO HIGH.  
**Cure:** CHECK / REPLACE RB532, 533, 535/6  
ALL ARE 1 OHM RESISTORS. (NOTE: D. C.  
VOLTS ON BASE OF TB525 SHOULD BE FROM  
- 1.4V TO - 1.7V )

Model: CPT6608 COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** DEAD, BUZZ FROM SPEAKERS  
**Symptom:** NO PICTURE OR SOUND, BUT A BUZZ CAN BE HEARD FROM THE SPEAKERS  
**Cause:** LEAKY TRANSISTOR  
**Cure:** CHECK / REPLACE TB522

Model: CPT6608 COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** CHANGE OF COMBI-TRANSFORMER  
**Symptom:** POOR CONTRAST AND/OR FOCUS  
**Cause:** COMBI TRANSFORMER  
**Cure:** REPLACE COMBI TRANSFORMER MB601  
WITH NEW VERSION, PART No FMD530.  
CARRY OUT THE FOLLOWING CHANGES;  
CHANGE HB701 TO PART No SAL LF0115  
CHANGE CB524 TO 7nF PART No CE2326  
CHANGE CB715 TO 270pF PT/No SAL CE2034

Model : CPT6608 COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** EXCESSIVE WIDTH  
**Symptom:** PICTURE TOO WIDE.  
**Cause:** DRY JOINTS / FAULTY F. E. T.  
**Cure:** REPLACE TB526. CHECK MB521 FOR  
 DRY JOINTS OR HEAT DAMAGE, REPLACE AS  
 NECESSARY. REMOVE SOLDER FROM AND BEND  
 LEGS TO MAKE MECHANICAL CONTACT WITH T  
 HE PCB ON C524, 525, 527, 528, 531, 614, 617



REPLACE ANY SHOWING HEAT DAMAGE.

Model: CPT6608

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: RAGGED VERTICALS

Symptom: RAGGED VERTICALS AFTER 1 HOUR  
APPRX. FREEZING AROUND FRAME STAGE MAY  
CURE FAULT.

Cause: D522 FAULTY

Cure: REPLACE D522. PART NUMBER JF0025.  
PLEASE NOTE D522 IS MOUNTED UNDER HEAT  
SINK.

Model: CPT6608

COLOUR TV

Subject: TELETEXT

Fault: POOR TELETEXT ON BB1 & BBC2 ONLY  
REPLACE ICI CCUSAL007 WITH CCUSAL012  
PART NO LMD775 AND IC250 TPU2734  
WITH TPU2735 PART NO LMD770  
PLEASE RETURN THE OLD ICS WITH YOUR  
GUARANTEE CLAIMS

Model: CPT6608

COLOUR TV

Subject: TELETEXT

Fault: DIFFICULTY IN SELECTING SOME CEEFAX  
TELETEXT PAGES PLUS INTERMITTENT  
FLICKERING VERTICAL LINES  
REPLACE ICI CCUSAL007 WITH CCUSAL012  
PART NO LMD775 PLUS IC250 TPU2734 WITH  
TPU2735 PART NO LMD770

Model: CPT6608

COLOUR TV

Subject: TELETEXT

Fault: CORRUPTED TELETEXT

Symptom: CORRUPTED TEXT / DROP OUT OF  
TELETEXT

Cause: MISSING LINKS / POOR CONTINUITY

Cure: CHECK CONTINUITY OF TRACK & LINK  
FOR DIGITAL DATA LINES FROM VCU TO TPU  
(ICB201 THRO' TO ICB250 PINS 1 TO 4  
& PINS 39 TO 40)

Model: CPT6608

COLOUR TV

Subject: SERVICE INFORMATION

Fault: SERVICE MANUAL ERROR  
THE SERVICE MANUAL AND PARTS LIST  
SHOWS ICB501 TO BE TYPE DPU2543. IF



ORDERED TYPE DPU2553 (PT NO LMD723)  
WILL BE RECEIVED. THIS IS THE CORRECT  
IC FOR USE IN THE ABOVE RECEIVERS.

Model: CPT6608

COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: TB526 & TB531 - 'M' CHASSIS  
IN THE ABOVE CHASSIS, WHEN REPLACING  
EITHER OF OR BOTH OF THE ABOVE  
TRANSISTORS, THE ORIGINAL TYPE SHOULD  
BE FITTED WITHOUT MODIFICATION. THE  
PART NUMBER IS JS0017

Model: CP1411T

COLOUR TELEVISION

Subject: TUNING SELECTION  
Fault: CHANGE OF MICRO PROCESSOR.  
Symptom: CHANGE OF MICRO PROCESSOR  
Cause: ADDITION OF FRENCH LANGUAGE OSD  
Cure: NEW MICRO PROCESSOR VERSION  
DW167MN05 IS INTERCHANGABLE WITH  
ORIGINAL DW167MN04.  
TYPE DW167MN05: PART No DE1DW167MN05

Model: CP1415RE

14" (not UK)

Subject: POWER SUPPLY  
Fault: PULSING FROM COLD  
Symptom: WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.  
Cause: UNSTABLE 5V(D) RAIL  
Cure: THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.  
..... (CONT)  
YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:  
BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF  
10V CAPACITOR.  
THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.  
FIT THEM AS FOLLOWS:  
..... CONT..  
1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.  
2. FIT A 1K0 RESISTOR IN PLACE OF R957  
3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097  
- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.  
..... CONT...

4. CONNECT THE 220V 10V CAPACITOR AND THE 5V6 ZENNER IN PARALLEL WITH THE POSITIVE SIDE OF EACH COMPONENT TO THE JUNCTION OF R957 AND THE BASE OF THE NEW BC548C THAT YOU HAVE PREVIOUSLY FITTED, AND THE NEGATIVE TO A SUITABLE GROUND SUCH AS THE -VE CONNECTION OF C035.



Model: CP1415TE                      14" (not UK)

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

Symptom: WHEN SET IS SWITCHED ON FROM COLD IT PULSES. AFTER SOME WHILE THE SET WILL COME ON.

Cause: UNSTABLE 5V(D) RAIL

Cure: THE FOLLOWING CHANGES SHOULD BE MADE TO THE POWER SUPPLY TO OVERCOME THIS CONDITION.

..... (CONT)

YOU WILL REQUIRE THE FOLLOWING PARTS FOR THIS CHANGE:

BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF 10V CAPACITOR.

THESE PARTS ARE AVAILABLE IN TWO PACKS PART NUMBERS A525646 AND A525647.

FIT THEM AS FOLLOWS:

..... CONT..

1. REMOVE THE FOLLOWING : R097, R957, ZD001, C005.

2. FIT A 1K0 RESISTOR IN PLACE OF R957

3. FIT A BC548C WITH THE EMITTER AND BASE USING THE HOLES VACATED BY R097 - THE BASE SHOULD LOCATE IN THE HOLE AT THE JUNCTION WITH R957.

..... CONT...

4. CONNECT THE 220V 10V CAPACITOR AND THE 5V6 ZENNER IN PARALLEL WITH THE POSITIVE SIDE OF EACH COMPONENT TO THE JUNCTION OF R957 AND THE BASE OF THE NEW BC548C THAT YOU HAVE PREVIOUSLY FITTED, AND THE NEGATIVE TO A SUITABLE GROUND SUCH AS THE -VE CONNECTION OF C035.



Model: CP1714RE                      17" (not UK)

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

Symptom: WHEN SET IS SWITCHED ON FROM COLD IT PULSES. AFTER SOME WHILE THE SET WILL COME ON.

Cause: UNSTABLE 5V(D) RAIL

Cure: THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.  
..... (CONT)  
YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:  
BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF  
10V CAPACITOR.  
THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.  
FIT THEM AS FOLLOWS:  
..... CONT. .  
1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.  
2. FIT A 1K0 RESISTOR IN PLACE OF R957  
3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097  
- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.  
..... CONT. . .  
4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE  
POSITIVE SIDE OF EACH COMPONENT TO THE  
JUNCTION OF R957 AND THE BASE OF THE  
NEW BC548C THAT YOU HAVE PREVIOUSLY  
FITTED, AND THE NEGATIVE TO A SUITABLE  
GROUND SUCH AS THE -VE CONNECTION OF  
C035.

Model: CP1714RE 17" (not UK)  
Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PART NUMBER  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: A  
REPAIR: A PART NUMBER FOR L901 IS  
L210065

Model: CP1714RE 17" (not UK)  
Subject: TUNER/IF  
Fault: CHANGE OF IC201 MASK  
Symptom: CHANGE OF IC201  
Cause: IMPROVEMENT  
Cure: WHEN REPLACING IC201 FROM TYPE  
TDA8361-N3 TO TDA8361-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
PART NUMBERS. IC201 T900623  
R523 J070053M

Model: CP1714RE 17" (not UK)

Subject: TUNER/IF  
Fault: POOR PLAYBACK OF MACROVISION TAPES  
Symptom: POOR PLAYBACK OF MACRO VISION  
TAPES.  
Cause: CAPACITOR C104 AND C205 VALUES  
Cure: TO CURE SKEW CHANGE C205 TO 4u7  
50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R

Model: CP1714RE 17" (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: CP1714RE 17" (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF LINE DRIVER TRANSISTOR  
Symptom: CHANGE OF LINE DRIVER  
TRANSISTOR Q701.  
Cause: CHANGE OF SUPPLIER  
Cure: LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: CP1714RE 17" (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER FOR FUSE F901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 CHANGE OF FUSE F901  
CERAMIC FUSE  
NOT REQUIRED  
DEFECT: R OPEN CIRCUIT

Model: CP1714RE 17" (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER FOR FUSE F901  
REPAIR: A NEW PT# IS E882368  
T3. 15A

Model: CP1714RE 17" (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019



Model: CP1714TE 17" (not UK)

Subject: POWER SUPPLY  
Fault: PULSING FROM COLD  
Symptom: WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.  
Cause: UNSTABLE 5V(D) RAIL  
Cure: THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.  
..... (CONT)  
YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:  
BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF  
10V CAPACITOR.  
THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.  
FIT THEM AS FOLLOWS:  
..... CONT..



Model: CP1714TE 17" (not UK)

Subject: POWER SUPPLY  
Fault: PULSING FROM COLD  
1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.  
2. FIT A 1K0 RESISTOR IN PLACE OF R957  
3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097  
- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.  
..... CONT...  
4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE  
POSITIVE SIDE OF EACH COMPONENT TO THE  
JUNCTION OF R957 AND THE BASE OF THE  
NEW BC548C THAT YOU HAVE PREVIOUSLY  
FITTED, AND THE NEGATIVE TO A SUITABLE  
GROUND SUCH AS THE -VE CONNECTION OF  
C035.







**Model:** CP1714TE      17" (not UK)

**Subject: POWER SUPPLY**  
**Fault: CHANGE OF L901 PART NUMBER**  
**SECTION: PSU**  
**CONDITION: 1**  
**Symptom: 185 RUNNING CHANGE**  
**DEFECT: A**  
**REPAIR: A PART NUMBER FOR L901 IS**  
**L210065**

Model: CP1714TE 17" (not UK)

**Subject:** TUNER/IF  
**Fault:** CHANGE OF IC201 MASK  
**Symptom:** CHANGE OF IC201  
**Cause:** IMPROVEMENT  
**Cure:** WHEN REPLACING IC201 FROM TYPE  
 TDA8361-N3 TO TDA8361-N5, CHANGE THE  
 VALUE OF R523 FROM 47K TO 8K2  
 PART NUMBERS. IC201 T900623  
 R523 J070053M

Model: CP1714TE 17" (not UK)

**Subject:** TUNER/IF  
**Fault:** POOR PLAYBACK OF MACROVISION TAPES  
**Symptom:** POOR PLAYBACK OF MACRO VISION  
 TAPES.  
**Cause:** CAPACITOR C104 AND C205 VALUES  
**Cure:** TO CURE SKEW CHANGE C205 TO 4u7  
 50V  
 TO CURE HORIZONTAL SHADED BAR AT TOP  
 OF SCREEN CHANGE C104 TO 22uF 16V  
 PART NUMBERS: C205 J0800012R  
 C104 J0800023R

**Model:** CP1714TE      17" (not UK)

**Subject:** PART NUMBER CHANGES  
**Fault:** CHANGE OF VARIABLE RESISTORS  
**Symptom:** CHANGE OF VARIABLE RESISTORS  
**Cause:** CHANGE OF SUPPLIER  
**Cure:** NEW PART NUMBERS ARE:  
 VR701 PART NUMBER J0160215R  
 VR601 PART NUMBER J0160421R  
 VR951 PART NUMBER J0160211R

**Model:** CP1714TE      17" (not UK)

**Subject:** PART NUMBER CHANGES  
**Fault:** CHANGE OF LINE DRIVER TRANSISTOR  
**Symptom:** CHANGE OF LINE DRIVER



TRANSISTOR Q701.  
Cause: CHANGE OF SUPPLIER  
Cure: LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: CP1714TE 17" (not UK)  
Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER FOR FUSE F901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 CHANGE OF FUSE F901  
CERAMIC FUSE  
NOT REQUIRED  
DEFECT: R OPEN CIRCUIT  
REPAIR: A NEW PT# IS E882368  
T3. 15A

Model: CP1714TE 17" (not UK)  
Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CP2011T COLOUR TELEVISION  
Subject: TUNING SELECTION  
Fault: CHANGE OF MICRO PROCESSOR.  
Symptom: CHANGE OF MICRO PROCESSOR  
Cause: ADDITION OF FRENCH LANGUAGE OSD  
Cure: NEW MICRO PROCESSOR VERSION  
DW167MN05 IS INTERCHANGABLE WITH  
ORIGINAL DW167MN04.  
TYPE DW167MN05: PART No DE1DW167MN05

Model: CP2011T COLOUR TELEVISION  
Subject: Y/C SIGNAL PROCESSING  
Fault: CHANGE OF I701 (TDA8362)  
Symptom: CHANGE OF I701, TDA8362  
Cause: MASK CHANGE  
Cure: WHEN REPLACING I701 FROM TYPE  
TDA8362-3Y TO TDA8362-5Y VERSION,  
CHANGE THE VALUE OF R501 FROM 47K TO  
8K2

**Model: CP2111T                      COLOUR TELEVISION**

**Subject:** TUNING SELECTION  
**Fault:** CHANGE OF MICRO PROCESSOR.  
**Symptom:** CHANGE OF MICRO PROCESSOR  
**Cause:** ADDITION OF FRENCH LANGUAGE OSD  
**Cure:** NEW MICRO PROCESSOR VERSION  
DW167MN05 IS INTERCHANGABLE WITH  
ORIGINAL DW167MN04.  
TYPE DW167MN05: PART No DE1DW167MN05



**Model: CP2114RE                      51cm (not UK)**

**Subject:** POWER SUPPLY  
**Fault:** PULSING FROM COLD  
**Symptom:** WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.  
**Cause:** UNSTABLE 5V(D) RAIL  
**Cure:** THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.  
..... (CONT)  
YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:  
BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF  
10V CAPACITOR.  
THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.  
FIT THEM AS FOLLOWS:  
..... CONT..  
1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.  
2. FIT A 1K0 RESISTOR IN PLACE OF R957  
3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097  
- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.  
..... CONT..  
4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE  
POSITIVE SIDE OF EACH COMPONENT TO THE  
JUNCTION OF R957 AND THE BASE OF THE  
NEW BC548C THAT YOU HAVE PREVIOUSLY  
FITTED, AND THE NEGATIVE TO A SUITABLE  
GROUND SUCH AS THE -VE CONNECTION OF  
C035.



**Model: CP2114RE                      51cm (not UK)**

**Subject:** POWER SUPPLY  
**Fault:** CHANGE OF L901 PART NUMBER  
SECTION: PSU  
CONDITION: 1  
**Symptom:** 185 RUNNING CHANGE



DEFECT: A  
REPAIR: A PART NUMBER FOR L901 IS  
L210065

Model: CP2114RE 51cm (not UK)

Subject: TUNER/IF  
Fault: CHANGE OF IC201 MASK  
Symptom: CHANGE OF IC201  
Cause: IMPROVEMENT  
Cure: WHEN REPLACING IC201 FROM TYPE  
TDA8361-N3 TO TDA8361-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
PART NUMBERS. IC201 T900623  
R523 J070053M

Model: CP2114RE 51cm (not UK)

Subject: TUNER/IF  
Fault: POOR PLAYBACK OF MACROVISION TAPES  
Symptom: POOR PLAYBACK OF MACRO VISION  
TAPES.  
Cause: CAPACITOR C104 AND C205 VALUES  
Cure: TO CURE SKEW CHANGE C205 TO 4u7  
50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R

Model: CP2114RE 51cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: CP2114RE 51cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER FOR FUSE F901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 CHANGE OF FUSE F901  
CERAMIC FUSE  
NOT REQUIRED  
DEFECT: R OPEN CIRCUIT  
REPAIR: A NEW PT# IS E882368  
T3. 15A

Model: CP2114RE 51cm (not UK)

Subject: PART NUMBER CHANGES

Fault: CHANGE OF U001 PART NUMBER

SECTION: REM

CONDITION: 1

Symptom: 185 T549012 DISCONTINUED

DEFECT: A

REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CP2114TE 51cm (not UK)

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

Symptom: WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.

Cause: UNSTABLE 5V(D) RAIL

Cure: THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.

..... (CONT)

YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:

BC548C, 1KΩ RESISTOR, 5V6 ZENER, 220μF  
10V CAPACITOR.

THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.

FIT THEM AS FOLLOWS:

..... CONT..

1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.

2. FIT A 1KΩ RESISTOR IN PLACE OF R957

3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097

- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.

..... CONT...

Model: CP2114TE 51cm (not UK)

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE  
POSITIVE SIDE OF EACH COMPONENT TO THE  
JUNCTION OF R957 AND THE BASE OF THE  
NEW BC548C THAT YOU HAVE PREVIOUSLY  
FITTED, AND THE NEGATIVE TO A SUITABLE  
GROUND SUCH AS THE -VE CONNECTION OF  
C035.

Model: CP2114TE 51cm (not UK)

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PART NUMBER  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: A  
REPAIR: A PART NUMBER FOR L901 IS  
L210065

Model: CP2114TE 51cm (not UK)

Subject: TUNING SELECTION  
Fault: CHANGE OF MICROPROCESSOR IC001  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF  
MICROPROCESSOR  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A NEW PART No FOR IC001  
SAA5296ZP IS T900763

Model: CP2114TE 51cm (not UK)

Subject: TUNER/IF  
Fault: CHANGE OF IC201 MASK  
Symptom: CHANGE OF IC201  
Cause: IMPROVEMENT  
Cure: WHEN REPLACING IC201 FROM TYPE  
TDA8361-N3 TO TDA8361-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
PART NUMBERS. IC201 T900623  
R523 J070053M

Model: CP2114TE 51cm (not UK)

Subject: TUNER/IF  
Fault: POOR PLAYBACK OF MACROVISION TAPES  
Symptom: POOR PLAYBACK OF MACRO VISION  
TAPES.  
Cause: CAPACITOR C104 AND C205 VALUES  
Cure: TO CURE SKEW CHANGE C205 TO 4u7  
50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R

Model: CP2114TE 51cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: CP2114TE 51cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER FOR FUSE F901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 CHANGE OF FUSE F901  
CERAMIC FUSE  
NOT REQUIRED  
DEFECT: R OPEN CIRCUIT  
REPAIR: A NEW PT# IS E882368  
T3. 15A

Model: CP2114TE 51cm (not UK)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CP2133TA 21" CTV (Nokia)

Subject: HORIZONTAL STAGE  
Fault: STUCK IN STANDBY VK22 FAULTY  
Symptom: VK22 BLOWS AT SWITCH ON. SET  
STUCK IN STANDBY.  
Cause: FAULTY TRANSISTORS.  
Cure: REPLACE TRANSISTORS VK11, VK16  
AND VK22. NOTE: TRANSISTORS MAY CHECK  
OK.  
VK11/16 PART NO. SAL 36145422  
VK22 PART NO. SAL 36147138

Model: CP2133TAN 21" CTV (Nokia)

Subject: HORIZONTAL STAGE  
Fault: STUCK IN STANDBY VK22 FAULTY  
Symptom: VK22 BLOWS AT SWITCH ON. SET



STUCK IN STANDBY.  
Cause: FAULTY TRANSISTORS.  
Cure: REPLACE TRANSISTORS VK11, VK16  
AND VK22. NOTE: TRANSISTORS MAY CHECK  
OK.  
VK11/16 PART NO. SAL 36145422  
VK22 PART NO. SAL 36147138

Model: CP2156TA 21" STEREO FOR GERMANY

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: CP2156TA 21" STEREO FOR GERMANY

Subject: VERTICAL STAGE  
Fault: IC601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 11B/316  
DEFECT: Q IC601 SHORT CIRCUIT  
REPAIR: A CHECK IF R616 68K IS FITTED  
TO PCB. IF NOT FITTED, CONNECT ACROSS  
ZD603 ON THE PRINT SIDE.  
PART # IC601 T900642  
68K RESISTOR J0700065M

Model: CP2156TA 21" STEREO FOR GERMANY

Subject: HORIZONTAL STAGE  
Fault: INCORRECT EW WIDTH  
SECTION: DFL  
CONDITION: 1  
Symptom: 33A INCORRECT WIDTH  
DEFECT: Y WRONG CAPACITANCE  
REPAIR: A REPLACE C707 WITH 470pF 2KV  
PART # JAJ00129

Model: CP2156TA 21" STEREO FOR GERMANY

Subject: TELETEXT  
Fault: TELETEXT TOO BRIGHT  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 TELETEXT TOO BRIGHT  
DEFECT: 1  
REPAIR: A DELETE R817, R818, R819, C805  
C806, C807. CHANGE C881, C882 AND C883





FROM 220pF TO 180pF.  
C881, C882, C883 PART # J0890077R

Model: CP2156TA 21" STEREO FOR GERMANY

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF T701 PART NUMBER  
SECTION: DFL  
CONDITION: 1  
Symptom: 185 CHANGE OF T701 PT#  
DEFECT: Q  
REPAIR: A PART # FOR T701 IS JBW01011

Model: CP2156TAN 21" NICAM

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: CP2156TAN 21" NICAM

Subject: TUNING SELECTION  
Fault: CHANGE OF IC002(GREEK MODELS ONLY)  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A PT # E730189

Model: CP2156TAN 21" NICAM

Subject: VERTICAL STAGE  
Fault: IC601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 11B/316  
DEFECT: Q IC601 SHORT CIRCUIT  
REPAIR: A CHECK IF R616 68K IS FITTED  
TO PCB. IF NOT FITTED, CONNECT ACROSS

Model: CP2156TAN 21" NICAM

Subject: VERTICAL STAGE  
Fault: IC601 FAILURE  
ZD603 ON THE PRINT SIDE.  
PART # IC601 T900642  
68K RESISTOR J0700065M

Model: CP2156TAN 21" NICAM

Subject: TELETEXT

Fault: TELETEXT TOO BRIGHT

SECTION: TXT

CONDITION: 1

Symptom: 286 TELETEXT TOO BRIGHT

DEFECT: 1

REPAIR: A DELETE R817, R818, R819, C805

C806, C807. CHANGE C881, C882 AND C883

FROM 220pF TO 180pF.

C881, C882, C883 PART # J0890077R

Model: CP2156TAN 21" NICAM

Subject: PART NUMBER CHANGES

Fault: CHANGE OF T701 PART NUMBER

SECTION: DFL

CONDITION: 1

Symptom: 185 CHANGE OF T701 PT#

DEFECT: Q

REPAIR: A PART # FOR T701 IS JBW01011

Model: CP2514RE 59cm remote

Subject: POWER SUPPLY

Fault: CHANGE OF TRANSFORMER T901

SECTION: PSU

CONDITION: 1

Symptom: 185 RUNNING CHANGE

DEFECT: I

REPAIR A PART # FOR T901 L380131

Model: CP2514RE 59cm remote

Subject: POWER SUPPLY

Fault: CHANGE OF L901 PT#

SECTION: PSU

CONDITION: 1

Symptom: 185

DEFECT: A

REPAIR: A NEW PART # FOR L901 IS

L210065

Model: CP2514RE 59cm remote

Subject: TUNER/IF

Fault: POOR PLAYBACK OF MACROVISION TAPES

Symptom: POOR PLAYBACK OF MACRO VISION  
TAPES.

Cause: CAPACITOR C104 AND C205 VALUES



Cure: TO CURE SKEW CHANGE C205 TO 4u7  
50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R

Model: CP2514RE 59cm remote

Subject: AUDIO  
Fault: CHANGE OF PART # R491  
SECTION: APA AUDIO PROCESSING  
CONDITION: 1  
Symptom: 185 PART DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART # FOR R491 IS  
R000618

Model: CP2514RE 59cm remote

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF FLYBACK TUNING CAPACITOR  
Symptom: CHANGE OF FLYBACK TUNING  
CAPACITOR C725  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR C725 IS  
C142755

Model: CP2514RE 59cm remote

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: CP2514RE 59cm remote

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF LINE DRIVER TRANSISTOR  
Symptom: CHANGE OF LINE DRIVER  
TRANSISTOR Q701.  
Cause: CHANGE OF SUPPLIER  
Cure: LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: CP2514RE 59cm remote

Subject: PART NUMBER CHANGES

# HITACHI

Fault: CHANGE OF D601 PART NUMBER  
Symptom: CHANGE OF PART NUMBER FOR  
D601  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR D601 IS  
T531063 TYPE IN4002/GI

Model: CP2514RE 59cm remote

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER FOR FUSE F901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 CHANGE OF FUSE F901  
CERAMIC FUSE  
NOT REQUIRED  
DEFECT: R OPEN CIRCUIT

Model: CP2514RE 59cm remote

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER FOR FUSE F901  
REPAIR: A NEW PT# IS E882368  
T3. 15A

Model: CP2514RE 59cm remote

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF CRT PART NUMBER  
SECTION: CRT  
CONDITION: 1 CHANGE OF PART NUMBER  
Symptom: 185 OLD TUBE DISCONTINUED  
DEFECT: A  
REPAIR: A PART NUMBER FOR NEW CRT IS  
T159021

Model: CP2514RE 59cm remote

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CP2514TE 59cm FST CE marked

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.

# HITACHI

Cause: FAULTY ZENER & POTENTIOMETER.  
Cure: CHECK/REPLACE ZD952 & VR951.  
ZENER PT. NO. IS 2344122M FOR 25" MODELS  
& PT. NO. IS 2344121M FOR 14", 17" & 21"  
MODELS.  
POTENTIOMETER PT. NO. IS E311076.

Model: CP2514TE 59cm FST CE marked

Subject: POWER SUPPLY  
Fault: CHANGE OF TRANSFORMER T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: I  
REPAIR A PART # FOR T901 L380131

Model: CP2514TE 59cm FST CE marked

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PT#  
SECTION: PSU  
CONDITION: 1  
Symptom: 185  
DEFECT: A  
REPAIR: A NEW PART # FOR L901 IS  
L210065

Model: CP2514TE 59cm FST CE marked

Subject: TUNING SELECTION  
Fault: CHANGE OF MICROPROCESSOR IC001  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF  
MICROPROCESSOR  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A NEW PART No FOR IC001  
SAA5296ZP IS T900763

Model: CP2514TE 59cm FST CE marked

Subject: TUNER/IF  
Fault: POOR PLAYBACK OF MACROVISION TAPES  
Symptom: POOR PLAYBACK OF MACRO VISION  
TAPES.  
Cause: CAPACITOR C104 AND C205 VALUES  
Cure: TO CURE SKEW CHANGE C205 TO 4u7  
50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R

Model: CP2514TE 59cm FST CE marked

Subject: Y/C SIGNAL PROCESSING  
Fault: CHANGE OF IC201 MASK  
Symptom: CHANGE OF IC201  
Cause: IMPROVEMENT  
Cure: WHEN REPLACING IC201 FROM TYPE  
TDA8361-N3 TO TDA8361-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
PART NUMBERS. IC201 T900623  
R523 J070053M

Model: CP2514TE 59cm FST CE marked

Subject: AUDIO  
Fault: CHANGE OF PART # R491  
SECTION: APA AUDIO PROCESSING  
CONDITION: 1  
Symptom: 185 PART DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART # FOR R491 IS  
R000618

Model: CP2514TE 59cm FST CE marked

Subject: AUDIO  
Fault: CHANGE OF AUDIO OUTPUT IC401  
SECTION: APA  
CONDITION: 1  
Symptom: 185 CHANGE OF AUDIO IC TYPE  
DEFECT: A  
REPAIR: A THERE ARE TWO TYPES OF AUDIO  
OUTPUT IC'S USED ON THIS MODEL  
THESE AUDIO OUTPUT IC'S ARE NOT INTER-  
CHANGEABLE.  
PART # TDA2824S J2004451  
TDA1519B T900754  
PLEASE REFER TO SERVICE MANUAL SMD0013  
FOR THE CIRCUIT DIAGRAM OF THE TDA1519

Model: CP2514TE 59cm FST CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF FLYBACK TUNING CAPACITOR  
Symptom: CHANGE OF FLYBACK TUNING  
CAPACITOR C725  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR C725 IS  
C142755

Model: CP2514TE 59cm FST CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: CP2514TE 59cm FST CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF LINE DRIVER TRANSISTOR  
Symptom: CHANGE OF LINE DRIVER  
TRANSISTOR Q701.  
Cause: CHANGE OF SUPPLIER  
Cure: LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: CP2514TE 59cm FST CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF D601 PART NUMBER  
Symptom: CHANGE OF PART NUMBER FOR  
D601  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR D601 IS  
T531063 TYPE IN4002/GI

Model: CP2514TE 59cm FST CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER FOR FUSE F901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 CHANGE OF FUSE F901  
CERAMIC FUSE  
NOT REQUIRED  
DEFECT: R OPEN CIRCUIT  
REPAIR: A NEW PT# IS E882368  
T3. 15A

Model: CP2514TE 59cm FST CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART # FOR D601  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 CHANGE OF PT#  
DEFECT: A  
REPAIR: A PT# FOR D601 IS

T531063

Model: CP2514TE 59cm FST CE marked

Subject: PART NUMBER CHANGES

Fault: CHANGE OF U001 PART NUMBER

SECTION: REM

CONDITION: 1

Symptom: 185 T549012 DISCONTINUED

DEFECT: A

REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CP2546TA COLOUR TELEVISION

Subject: Y/C SIGNAL PROCESSING

Fault: SPOT BURN-IMPROVEMENT

SECTION: APR LUMINANCE PROCESSING

CONDITION: 1

Symptom: 385 IMPROVEMENT OF SPOT BURN

DEFECT: Y

REPAIR: A TO IMPROVE SPOT BURN, R593  
IS CHANGED FROM 10K TO 22K

Model: CP2546TA COLOUR TELEVISION

Subject: PART NUMBER CHANGES

Fault: CHANGE OF CPT SOCKET

Symptom: CHANGE OF TUBE SOCKET

Cause: ORIGINAL PART DISCONTINUED

Cure: NEW PART NUMBER FOR TUBE SOCKET  
IS E822925

Model: CP2548TAN 25" 3D surround sound

Subject: POWER SUPPLY

Fault: STUCK IN STANDBY.

Symptom: STUCK IN STANDBY.

Cause: DRY JOINTS.

Cure: CHECK PRINT AROUND PINS 9&10 OF  
L. O. P. T. (T701) FOR DRY JOINTS.  
NB: IN THIS CONDITION POWER GOOD LINE  
IS LOW AS, ALTHOUGH 14V IS PRESENT,  
VOLTAGE APPLIED TO PIN 5 OF IC954 IS  
LOWER THAN NORMAL, OWING TO PSU MODE.

Model: CP2548TAN 25" 3D surround sound

Subject: PART NUMBER CHANGES

Fault: CHANGE OF RESISTORS R2203 AND R2204

Symptom: CHANGE OF TOLERANCE OF R2203  
AND R2204



# HITACHI

Cause: IMPROVEMENT  
Cure: CHANGE R2203(2K2) AND R2204  
(560R) TO 1% TOLERANCE.  
PART NUMBERS R2203 R232725  
R2204 R526725

Model: CP2548TAN 25" 3D surround sound

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER , T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 T901 PT# CHANGED  
DEFECT: A  
REPAIR: A NEW PART # FOR T901 IS  
L380119

Model: CP2548TAN 25" 3D surround sound

Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR NOISE ON SECAM RECEPTION  
Symptom: COLOUR NOISE ON SECAM  
RECEPTION.  
Cause: LOW CHROMA SIGNAL  
Cure: REPLACE R356 WITH WIRE LINK

Model: CP2556TA 25" NICAM FOR GERMANY

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: CP2556TA 25" NICAM FOR GERMANY

Subject: Y/C SIGNAL PROCESSING  
Fault: IMPROVEMENT OF PICTURE SATURATION  
SECTION: CPA  
CONDITION: 1  
Symptom: 185 IMPROVEMENT OF SATURATION  
DEFECT: Y  
REPAIR: A CHANGE ZD501, ZD502 AND ZD503  
FROM 5V1 TO 8V2 ZENER PT# T536186

Model: CP2556TA 25" NICAM FOR GERMANY

Subject: VERTICAL STAGE  
Fault: IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION



CONDITION: 1  
Symptom: 316 HORIZONTAL LINE  
DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J

Model: CP2556TA 25" NICAM FOR GERMANY

Subject: TELETEXT  
Fault: IMPROVEMENT OF TEXT BREATHING  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 IMPROVEMENT OF TEXT  
BREATHING  
DEFECT: Y  
REPAIR: A REPLACE WIRE LINK IN  
POSITION R5 WITH 220R PT# J0700032M

Model: CP2556TA 25" NICAM FOR GERMANY

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART #, IR LED LENS  
SECTION: REM REMOTE SECTION  
CONDITION: 1  
Symptom: 185 MODIFIED IR LENS  
DEFECT: Y  
REPAIR: A PART # FOR MODIFIED IR LENS  
ISX425144

Model: CP2556TAN 25" NICAM

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A PT# E730188

Model: CP2556TAN 25" NICAM

Subject: TUNING SELECTION  
Fault: CHANGE OF IC002(GREEK MODELS ONLY)  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A PT # E730189



**Model : CP2556TAN                      25" NI CAM**

**Subject: Y/C SIGNAL PROCESSING**  
**Fault: IMPROVEMENT OF PICTURE SATURATION**  
**SECTION: CPA**  
**CONDITION: 1**  
**Symptom: 185 IMPROVEMENT OF SATURATION**  
**DEFECT: Y**  
**REPAIR: A CHANGE ZD501, ZD502 AND ZD503**  
**FROM 5V1 TO 8V2 ZENER PT# T536186**

**Model : CP2556TAN 25" NI CAM**

**Subject:** VERTICAL STAGE  
**Fault:** IC 601 FAILURE  
**SECTION:** DFL FRAME DEFLECTION  
**CONDITION:** 1  
**Symptom:** 316 HORIZONTAL LINE  
**DEFECT:** A  
**REPAIR:** A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
**PT#** T431113 **TYPE** BYD33J

**Model : CP2556TAN      25" NI CAM**

**Subject: PART NUMBER CHANGES**  
**Fault: CHANGE OF PART #, IR LED LENS**  
**SECTION: REM REMOTE SECTION**  
**CONDITION: 1**  
**Symptom: 185 MODIFIED IR LENS**  
**DEFECT: Y**  
**REPAIR: A PART # FOR MODIFIED IR LENS**  
**ISX425144**

Model: CP2565TA 25" mono ctv

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** LOW CONTRAST- POSSIBLE TRIPPING.  
**Symptom:** LOW CONTRAST. POSSIBLE  
 TRIPPING. CHANGES WITH PICTURE CONTENT.  
**Cause:** FAULTY RESISTOR.  
**Cure:** CHECK/REPLACE R728, 68K, 0. 25W.  
 PT. NO. R648330.

Model: CP2565TA 25" mono ctv

**Subject:** AUDIO  
**Fault:** DISTORTED / LOW SOUND. ALL CHANNELS.  
**Symptom:** DISTORTED / LOW SOUND ALL CHANNELS.  
**Cause:** FAULTY TRANSISTOR.  
**Cure:** CHECK/REPLACE Q443. TYPE BC558B.  
PT. NO. T631276. CAUSING PARTIAL MUTE.

Model: CP2574TAN 25" Dol by Tel evi si on

Subj ect: TUNING SELECTION  
Fault: STUCK IN STANDBY  
Symptom: SET GETS STUCK IN STANDBY  
MODE.  
Cause: FAULTY I. R. RECEIVER  
Cure: CHECK INPUT TO PIN 17 OF IC001.  
IF NO GO REPLACE IR RECEIVER. U001  
PART NUMBER: T549010

Model: CP2574TAN 25" Dol by Tel evi si on

Subj ect: AUDI O  
Fault: DISTORTED / LOW SOUND. ALL CHANNELS.  
Symptom: DISTORTED / LOW SOUND ALL  
CHANNELS.  
Cause: FAULTY TRANSISTOR.  
Cure: CHECK/REPLACE Q443. TYPE BC558B.  
PT. NO. T631276. CAUSING PARTIAL MUTE.

Model: CP2574TAN 25" Dol by Tel evi si on

Subj ect: VERTI CAL STAGE  
Fault: LOW HEI GHT.  
Symptom: LOW HEI GHT.  
Cause: FAULTY CAPACITOR.  
Cure: CHECK/REPLACE C701, 100MF, 200V.  
PT. NO. 0253491.

Model: CP2574TAN 25" Dol by Tel evi si on

Subj ect: HORIZONTAL STAGE  
Fault: E/W CIRCUIT FAILED.  
Symptom: E/W CIRCUIT FAILED, CONTROL  
ACTS MORE LIKE WIDTH CONTROL.  
Cause: LEAKY TRANSISTORS.  
Cure: CHECK/REPLACE Q601 PT. NO. T631288  
AND Q603 PT. NO. T631275.  
ALSO CHECK FOR DRY JOINTS IN FRAME  
STAGE.

Model: CP2575TN 25" Tel evi si on

Subj ect: POWER SUPPLY  
Fault: STUCK IN STANDBY  
Symptom: STUCK IN STANDBY.  
Cause: FAULTY IC AND DIODES.  
Cure: CHECK/REPLACE IC601, PT. NO. T900642  
AND D718 AND D719, PT. NO. T431113.

Model: CP2576TAN 59cm txt/A2 & Ni cam/Prologic

Subject: Y/C SIGNAL PROCESSING

Fault: PHOSPHOR BURN ON CRT

Symptom: PHOSPHOR BURN ON CRT.

Cause: SPOT TOO BRIGHT

Cure: CHANGE C880 FROM 10nF TO 1nF AND

DELETE TRANSISTOR Q510. C880 PART NO.  
J0244211F

Model: CP2576TAN 59cm txt/A2 & Ni cam/Prologic

Subject: AUDIO

Fault: INTERMITTENT SOUND MUTE/NOISE

Symptom: INTERMITTENT SOUND MUTE

NOISE ON CHANNEL CHANGE

REMOTE CONTROL DIGIT 1 IS

INTERPRETED AS DIGIT 8

GOES OFF INTERMITTENTLY

Cause: ELECTROSTATIC NOISE

Cure: (1) ADD 10nF 50V CAPACITOR FROM

PIN 2 OF IC4400 TO GROUND

Model: CP2576TAN 59cm txt/A2 & Ni cam/Prologic

Subject: AUDIO

Fault: INTERMITTENT SOUND MUTE/NOISE

(2) ADD 10nF 50V CAPACITOR FROM

PIN 31 OF IC4400 TO GROUND

(3) REPLACE JUMPER LINK J4426 WITH

100R RESISTOR

(4) ADD 12K RESISTOR IN PARALLEL

WITH D4400 AND D4402 (PINS 16

AND 17 OF IC4400)

100R RESISTOR PART NO. J0700054M

12K RESISTOR PART NO. J0700055M

10nF CAPACITOR PART NO. 0880044

Model: CP28WD2TAN 28" WIDE 50HZ PRO-LOGIC

Subject: TUNING SELECTION

Fault: CHANGE OF IC002 (GREEK MODELS ONLY)

SECTION: SYS

CONDITION: 1

Symptom: 185 CHANGE OF IC002

DEFECT: 1 UPDATED SOFTWARE

REPAIR: A PT # E730189

Model: CP28WD2TAN 28" WIDE 50HZ PRO-LOGIC

Subject: HORIZONTAL STAGE

# HITACHI

Fault: IMPROVEMENT OF ABL CIRCUIT  
SECTION: DFL  
CONDITION: 1  
Symptom: 320 IMPROVEMENT OF ABL  
DEFECT: Y  
REPAIR: A CHANGE R730 AND R766  
FROM 0R5 2W TO 0R5 5W PT# R000619  
CHANGE C724 FROM 47uF 50V TO 22uF 50V  
PT# J0800303R. CHANGE R736 FROM 5K1 TO  
6K8 PT# R638330

Model: CP28WD2TAN 28" WIDE 50HZ PRO-LOGIC

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART # , R602  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 OLD PART DISCONTINUED  
DEFECT: R  
REPAIR: A NEW PART # FOR R602 IS  
R108736

Model: CP2840TAN 28" Nicam Nordic

Subject: Y/C SIGNAL PROCESSING  
Fault: IMPROVEMENT OF PICTURE SATURATION  
SECTION: CPA  
CONDITION: 1  
Symptom: 185 IMPROVEMENT OF SATURATION  
DEFECT: Y  
REPAIR: A CHANGE ZD501, ZD502 AND ZD503  
FROM 5V1 TO 8V2 ZENER PT# T536186

Model: CP2846TA COLOUR TELEVISION

Subject: Y/C SIGNAL PROCESSING  
Fault: SPOT BURN-IMPROVEMENT  
SECTION: APR LUMINANCE PROCESSING  
CONDITION: 1  
Symptom: 385 IMPROVEMENT OF SPOT BURN  
DEFECT: Y  
REPAIR: A TO IMPROVE SPOT BURN, R593  
IS CHANGED FROM 10K TO 22K

Model: CP2846TA COLOUR TELEVISION

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF CPT SOCKET  
Symptom: CHANGE OF TUBE SOCKET  
Cause: ORIGINAL PART DISCONTINUED  
Cure: NEW PART NUMBER FOR TUBE SOCKET  
IS E822925

Model: CP2846TAN COLOUR TELEVISION

Subject: Y/C SIGNAL PROCESSING  
Fault: SPOT BURN-IMPROVEMENT  
SECTION: APR LUMINANCE PROCESSING  
CONDITION: 1  
Symptom: 385 IMPROVEMENT OF SPOT BURN  
DEFECT: Y  
REPAIR: A TO IMPROVE SPOT BURN, R593  
IS CHANGED FROM 10K TO 22K

Model: CP2846TAN COLOUR TELEVISION

Subject: HORIZONTAL STAGE  
Fault: VALUE OF R705 INCORRECT IN MANUAL.  
Symptom: VALUE OF R705 INCORRECT IN  
SERVICE MANUAL.  
Cause: PRINTING ERROR.  
Cure: THE CORRECT VALUE FOR R705 IS  
1 OHM 2W.  
PT. NO. IS R100549.

Model: CP2846TAN COLOUR TELEVISION

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER , T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 T901 PT# CHANGED  
DEFECT: A  
REPAIR: A NEW PART # FOR T901 IS  
L380119

Model: CP2848TAN 28" 3D surround sound

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY.  
Symptom: STUCK IN STANDBY.  
Cause: DRY JOINTS.  
Cure: CHECK PRINT AROUND PINS 9&10 OF  
L. O. P. T. (T701) FOR DRY JOINTS.  
NB: IN THIS CONDITION POWER GOOD LINE  
IS LOW AS, ALTHOUGH 14V IS PRESENT,  
VOLTAGE APPLIED TO PIN 5 OF IC954 IS  
LOWER THAN NORMAL, OWING TO PSU MODE.

Model: CP2848TAN 28" 3D surround sound

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF RESISTORS R2203 AND R2204  
Symptom: CHANGE OF TOLERANCE OF R2203



AND R2204  
Cause: IMPROVEMENT  
Cure: CHANGE R2203(2K2) AND R2204  
(560R) TO 1% TOLERANCE.  
PART NUMBERS R2203 R232725  
R2204 R526725

Model: CP2848TAN 28" 3D surround sound

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER , T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 T901 PT# CHANGED  
DEFECT: A  
REPAIR: A NEW PART # FOR T901 IS  
L380119

Model: CP2848TAN 28" 3D surround sound

Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR NOISE ON SECAM RECEPTION  
Symptom: COLOUR NOISE ON SECAM  
RECEPTION.  
Cause: LOW CHROMA SIGNAL  
Cure: REPLACE R356 WITH WIRE LINK

Model: CP2849TAN 28" A2 Ni cam Spain

Subject: Y/C SIGNAL PROCESSING  
Fault: IMPROVEMENT OF PICTURE SATURATION  
SECTION: CPA  
CONDITION: 1  
Symptom: 185 IMPROVEMENT OF SATURATION  
DEFECT: Y  
REPAIR: A CHANGE ZD501, ZD502 AND ZD503  
FROM 5V1 TO 8V2 ZENER PT# T536186

Model: CP2851TA 28" A2 Stereo Italy

Subject: Y/C SIGNAL PROCESSING  
Fault: IMPROVEMENT OF PICTURE SATURATION  
SECTION: CPA  
CONDITION: 1  
Symptom: 185 IMPROVEMENT OF SATURATION  
DEFECT: Y  
REPAIR: A CHANGE ZD501, ZD502 AND ZD503  
FROM 5V1 TO 8V2 ZENER PT# T536186

Model: CP2851TA 28" A2 Stereo Italy

Subject: PART NUMBER CHANGES



# HITACHI

Fault: CHANGE OF PART #, IR LED LENS  
SECTION: REM REMOTE SECTION  
CONDITION: 1  
Symptom: 185 MODIFIED IR LENS  
DEFECT: Y  
REPAIR: A PART # FOR MODIFIED IR LENS  
ISX425144

Model: CP2851TAN 28" Ni cam Nordi c

Subject: Y/C SIGNAL PROCESSING  
Fault: IMPROVEMENT OF PICTURE SATURATION  
SECTION: CPA  
CONDITION: 1  
Symptom: 185 IMPROVEMENT OF SATURATION  
DEFECT: Y  
REPAIR: A CHANGE ZD501, ZD502 AND ZD503  
FROM 5V1 TO 8V2 ZENER PT# T536186

Model: CP2851TAN 28" Ni cam Nordi c

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART #, IR LED LENS  
SECTION: REM REMOTE SECTION  
CONDITION: 1  
Symptom: 185 MODIFIED IR LENS  
DEFECT: Y  
REPAIR: A PART # FOR MODIFIED IR LENS  
ISX425144

Model: CP2856TA 25" NICAM FOR GERMANY/ITALY

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: CP2856TA 25" NICAM FOR GERMANY/ITALY

Subject: VERTICAL STAGE  
Fault: IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316 HORIZONTAL LINE  
DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J



Model: CP2856TAN 28" NI CAM

Subject: VERTICAL STAGE  
Fault: IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316 HORIZONTAL LINE  
DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J

Model: CP2856TAN 28" NI CAM

Subject: TELETEXT  
Fault: IMPROVEMENT OF TEXT BREATHING  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 IMPROVEMENT OF TEXT  
BREATHING  
DEFECT: Y  
REPAIR: A REPLACE WIRE LINK IN  
POSITION R5 WITH 220R PT# J0700032M

Model: CP2856TAN 28" NI CAM

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART #, IR LED LENS  
SECTION: REM REMOTE SECTION  
CONDITION: 1  
Symptom: 185 MODIFIED IR LENS  
DEFECT: Y  
REPAIR: A PART # FOR MODIFIED IR LENS  
ISX425144

Model: CP2865TA 28" mono ctv

Subject: Y/C SIGNAL PROCESSING  
Fault: LOW CONTRAST- POSSIBLE TRIPPING.  
Symptom: LOW CONTRAST. POSSIBLE  
TRIPPING. CHANGES WITH PICTURE CONTENT.  
Cause: FAULTY RESISTOR.  
Cure: CHECK/REPLACE R728, 68K, 0. 25W.  
PT. NO. R648330.

Model: CP2865TA 28" mono ctv

Subject: AUDIO  
Fault: DISTORTED / LOW SOUND. ALL CHANNELS.  
Symptom: DISTORTED / LOW SOUND ALL  
CHANNELS.





ALSO CHECK FOR DRY JOINTS IN FRAME  
STAGE.

Model: CP2875TN 28" Television

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY  
Symptom: STUCK IN STANDBY.  
Cause: FAULTY IC AND DIODES.  
Cure: CHECK/REPLACE IC601, PT. NO. T900642  
AND D718 AND D719, PT. NO. T431113.

Model: CP2875TN 28" Television

Subject: TUNING SELECTION  
Fault: LOCKS UP IN TEXT MODE & OSD CORRUPT  
Symptom: WHEN SWITCHING IN AND OUT OF  
TELETEXT MODE THE SET LOCKS UP. THE OSD  
CORRUPTS INTERMITTANT. CAN ONLY BE  
RESET BY SWITCH OFF AT MAINS SWITCH  
Cause: CORRUPTED MEMORY.  
Cure: REPLACE IC002 WITH NEW VERSION  
SCANDINAVIA: E730160  
EUROPEAN: E730138

Model: CP2886TAN 28" PRO-LOGIC FOR SPAIN

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: CP2886TAN 28" PRO-LOGIC FOR SPAIN

Subject: TUNING SELECTION  
Fault: CHANGE OF IC002(GREEK MODELS ONLY)  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A PT # E730189

Model: CP2886TAN 28" PRO-LOGIC FOR SPAIN

Subject: VERTICAL STAGE  
Fault: IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316 HORIZONTAL LINE

# HITACHI

DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J

Model: CP2886TAN 28" PRO-LOGIC FOR SPAIN

Subject: TELETXT  
Fault: IMPROVEMENT OF TEXT BREATHING  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 IMPROVEMENT OF TEXT  
BREATHING  
DEFECT: Y  
REPAIR: A REPLACE WIRE LINK IN  
POSITION R5 WITH 220R PT# J0700032M

Model: CP2893TAN 28" 100HZ for Europe

Subject: TUNING SELECTION  
Fault: CHANGE OF IC001 (SWEDISH VERSION)  
Symptom: IC001 DIFFERS FROM THAT GIVEN  
IN THE SERVICE MANUAL.  
Cause: CHANGED FOR SWEDISH MARKET  
Cure: IC001 HAS CHANGED MASK TYPE FOR  
THE SWEDISH VERSION OF THIS SET  
ORIG: M37270EFSP V1.95X PT No E730127  
SWEDISH: M37270EFSP V1.95Y P# E730133

Model: CP2893TAN 28" 100HZ for Europe

Subject: TUNING SELECTION  
Fault: NO REMOTE FUNCTIONS  
Symptom: NO REMOTE FUNCTIONS AND IN  
TEXT MODE REVERTS TO TV MODE  
Cause: MEMORY IC SOFTWARE  
Cure: REPLACE MEMORY IC 002  
PART NUMBER E7300160  
NOTE. THIS APPLIES TO SCANDINAVIA ONLY

Model: CP2893TAN 28" 100HZ for Europe

Subject: TUNING SELECTION  
Fault: SET STUCK IN STANDBY, IN VCR USE  
Symptom: SET STUCK IN STANDBY, OR NO  
FUNCTIONS FROM R/C  
Cause: LOCK UP OF MICRO PROCESSOR  
Cure: ADD TWO IN4531 DIODES WITH ANODE  
END OF ONE FROM R058 AT THE OPPOSITE  
END TO PIN 5, ONE FROM R057 OPPOSITE  
END TO PIN 6. BOTH CATHODES GO TO THE  
ANODE OF DV04 USING A JUMP LEAD.

Model: CP2893TAN 28" 100HZ for Europe

Subject: TUNING SELECTION  
Fault: SET LOCKS UP IN S/BY MODE ON VCR PB  
Symptom: SET LOCKS UP WHILST IN S/BY  
MODE AND VCR PLAY MODE IS SELECTED  
BEFORE SET IS BROUGHT OUT OF STANDBY  
MODE WITH HAND SET.  
NOTE: TO REPRODUCE FAULT SYMPTOM THE  
FOLLOWING PROCEDURE SHOULD BE FOLLOWED  
(1) PUT TV IN STANDBY MODE  
(2) SELECT PLAY ON VCR  
(3) SWITCH TV OFF AT ON/OFF SWITCH  
(4) SWITCH TV ON WITH ON/OFF SWITCH  
AFTER THE ABOVE PROCEDURE , SET IS IN  
STANDBY MODE BUT NO RESPONSE TO HAND  
SET,  
Cause: MICROPROCESSOR INPUT FROM PIN 8  
OF SCART SOCKET IS PULLED LOW IN S/BY  
Cure: CONNECT CATHODES OF TWO DIODES  
TOGETHER. CONNECT ANODE OF ONE DIODE TO  
JUNCTION OF R1A8 AND R058. CONNECT THE  
ANODE OF THE OTHER DIODE TO THE  
JUNCTION OF R057 AND R1B1. USING A LONG  
JUMPER LEAD, CONNECT THE CATHODES OF  
THE TWO DIODES TO THE ANODE OF DV04.

Model: CP2893TAN 28" 100HZ for Europe

Subject: HORIZONTAL STAGE  
Fault: PICTURE JITTER AT TOP ON PEAK WHITE  
Symptom: IN SOME EXTREME CONDITIONS A  
'JITTER' MAY OCCUR AT THE TOP OF THE  
PICTURE  
Cause: COMPONENT TOLERANCES  
Cure: CHANGE R335 TO 100 OHM  
PART NUMBER 0195875R

Model: CP2893TAN 28" 100HZ for Europe

Subject: SERVICE INFORMATION  
Fault: UPDATED IC001 SOFTWARE.  
Symptom: CHANGE OF SOFTWARE  
Cause: IMPROVEMENT  
Cure: REPLACE IC001 WITH PART NUMBER  
E730142

Model: CP2893TAN 28" 100HZ for Europe

Subject: SERVICE INFORMATION  
Fault: IMPROVEMENT OF ACL OPERATION  
Symptom: IMPROVEMENT OF ACL CIRCUIT

# HITACHI

Cause: IMPROVEMENT  
Cure: CHANGE D801, D802 AND D803 FROM  
4V7 ZENER DIODE TO 5V6 PART NUMBER  
T536224

Model: CP2894 28" 100HZ SEMI TECH

Subject: VERTICAL STAGE  
Fault: ADDITION OF CAP TO FRAME IC  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 CAPACITOR ADDED TO  
FRAME O/P IC  
DEFECT: Z MISSING COMPONENT  
REPAIR: A FIT CAPACITOR BETWEEN  
PINS 8 AND 9 OF ICs1

Model: CP2894 28" 100HZ SEMI TECH

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF MEMORY ICF1 PART NUMBER  
SECTION: SYS SYSTEM CONTROL  
CONDITION: 1  
Symptom: 185 CHANGE OF MEMORY IC  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A NEW PT# FOR ICF1 IS  
SAL 37792333

Model: CP2894 28" 100HZ SEMI TECH

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF MAINS FILTER CAP  
SECTION: PSU POWER SUPPLY  
CONDITION: 1  
Symptom: 18X PART CHANGE  
DEFECT: 185 CIRCUIT CHANGE  
REPAIR: A CAPACITORS C06 TO C09  
ARE CHANGED TO 1n5 2KV  
PT# SAL32670976

Model: CP2894 28" 100HZ SEMI TECH

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF FBT  
SECTION: DFL  
CONDITION: 1  
Symptom: 18X FLYBACK TRANSFORMER  
DEFECT: A  
REPAIR: A PT# SAL 45360034  
NOTE: SUPPLY TO FRAME O/P IC IS  
REDUCED FROM 16V TO 14V





**Model:** CP2975TAN      **29" CTV**

**Subject:** AUDIO

**Fault:** INTERMITTENT SOUND MUTE/NOISE

**Symptom:** INTERMITTENT SOUND MUTE

NOISE ON CHANNEL CHANGE

REMOTE CONTROL DIGIT 1 IS

INTERPRETED AS DIGIT 8

GOES OFF INTERMITTENTLY

**Cause:** ELECTROSTATIC NOISE

**Cure:** (1) ADD 10nF 50V CAPACITOR FROM

PIN 2 OF IC4400 TO GROUND

(2) ADD 10nF 50V CAPACITOR FROM

PIN 31 OF IC4400 TO GROUND

(3) REPLACE JUMPER LINK J4426 WITH  
100R RESISTOR

(4) ADD 12K RESISTOR IN PARALLEL  
WITH D4400 AND D4402 (PINS 16  
AND 17 OF IC4400)

100R RESISTOR PART NO. J0700054M

12K RESISTOR PART NO. J0700055M

10nF CAPACITOR PART NO. 0880044



**Model:** CP2975TAN      **29" CTV**

**Subject:** SERVICE INFORMATION

**Fault:** 'C\*\*\*76TN-311' OSD APPEARS ON SCREEN

**Symptom:** THE OSD PROMPT 'C\*\*\*76TN-311'

APPEARS ON SCREEN ON SWITCH ON

**Cause:** SET IS IN SERVICE MODE

**Cure:** PRESS THE ESC BUTTON UNDER THE  
BOTTOM FLAP OF THE REMOTE CONTROL. THEN  
GO TO STANDBY. WHEN THE SET IS BROUGHT  
OUT OF STANDBY THE PROMPT WILL HAVE  
BEEN REMOVED.



**Model:** CP2975TAN      **29" CTV**

**Subject:** Y/C SIGNAL PROCESSING

**Fault:** BENT HORIZONTAL LINES

**Symptom:** BENT HORIZONTAL LINES WHEN  
BACK CABINET IS FITTED.

**Cause:** POOR MAGNETIC SHIELDING OF  
SPEAKER.

**Cure:** REPLACE SPEAKER WITH NEW TYPE.  
PART NUMBER E511131



**Model:** CP2975TN      **29" Television**

**Subject:** POWER SUPPLY

**Fault:** STUCK IN STANDBY

**Symptom:** STUCK IN STANDBY.

**Cause:** FAULTY IC AND DIODES.

**Cure:** CHECK/REPLACE IC601, PT. NO. T900642

AND D718 AND D719, PT. NO. T431113.

Model: CP2975TN 29" Television

Subject: TUNING SELECTION  
Fault: NO REMOTE FUNCTIONS  
Symptom: NO REMOTE FUNCTIONS AND IN  
TEXT MODE REVERTS TO TV MODE  
Cause: MEMORY IC SOFTWARE  
Cure: REPLACE MEMORY IC 002  
PART NUMBER E7300160  
NOTE. THIS APPLIES TO SCANDINAVIA ONLY

Model: CP2976TAN 29" pro-logic

Subject: POWER SUPPLY  
Fault: INTERMITTENT CUT OUT.  
Symptom: INTERMITTENT CUT OUT.  
Cause: DAMAGED PRINT.  
Cure: CHECK/REPAIR DAMAGED PRINT AT  
CATHODE OF DIODE PACK D512, ENSURING  
THAT TRACK IS CONTINUOUS FROM R563  
(NOT IC501 PIN 14 END) TO D512 CATHODE.

Model: CP2976TAN 29" pro-logic

Subject: TUNING SELECTION  
Fault: STUCK IN STANDBY  
Symptom: SET STUCK IN STANDBY, WILL  
NOT COME ON FROM REMOTE CONTROL OR  
FRONT BUTTONS.  
Cause: DRY JOINTS.  
Cure: CHECK / RESOLDER DRY JOINTS ON  
C015 BETWEEN PIN 18 AND 15 OF IC001.  
ALSO CHECK FOR DRY JOINTS ON SHIELD  
PLATE OF IC201.

Model: CP2976TAN 29" pro-logic

Subject: TUNING SELECTION  
Fault: PART NUMBER FOR I. C. 002  
Symptom: THE PART NUMBER FOR I. C. 002  
GIVEN IN THE PRELIMINARY MANUAL IS  
INCORRECT.  
Cause: PRINTING ERROR.  
Cure: DELETE PART NUMBER T900668. THE  
CORRECT PART NUMBER FOR I. C. 002 IS  
SCANDINAVIA: E730160  
EUROPE & UK: E730138



## GOES OFF INTERMITTENTLY

Cause: ELECTROSTATIC NOISE

Cure: (1) ADD 10nF 50V CAPACITOR FROM

PIN 2 OF IC4400 TO GROUND

(2) ADD 10nF 50V CAPACITOR FROM

PIN 31 OF IC4400 TO GROUND

(3) REPLACE JUMPER LINK J4426 WITH

100R RESISTOR

(4) ADD 12K RESISTOR IN PARALLEL

WITH D4400 AND D4402(PINS 16

AND 17 OF IC4400)

100R RESISTOR PART NO. J0700054M

12K RESISTOR PART NO. J0700055M

10nF CAPACITOR PART NO. 0880044

Model: CP2976TAN 29" pro-logic

Subject: HORIZONTAL STAGE

Fault: STUCK IN STANDBY

Symptom: SET STUCK IN STANDBY, WILL  
NOT COME ON FROM HANDSET OR FRONT PUSH  
BUTTONS.

Cause: SCREEN VOLTS TOO HIGH.

Cure: REDUCE SCREEN VOLTS USING  
CONTROL ON LOPTX. ONCE SET COMES ON  
RESET TO CORRECT LEVEL.

Model: CP2976TAN 29" pro-logic

Subject: TELETEXT

Fault: SET 'LOCKS UP' AND/OR TEXT MOVES LEFT

Symptom: WHEN IN TELETEXT MODE THE SET  
MAY 'LOCK UP' (FREEZE) AND THE TEXT  
PICTURE MOVE TO THE LEFT.

Cause: TOLERANCES IN COIL.

Cure: REPLACE COIL L591 WITH 22uH PART  
NUMBER JBH00032R. - THIS CHANGE HAS  
BEEN MADE IN ALL PRODUCTION FROM SERIAL  
NUMBERS U6B\*\*\*\*\*

Model: CP2976TAN 29" pro-logic

Subject: TELETEXT

Fault: SET LOCKS UP IN THE TOP TEXT MODE.

Symptom: SET LOCKS IN THE TOP TEXT  
MODE

Cause: FAULTY I.C.

Cure: CHANGE IC006. PT. NO. E730099.

Model: CP2976TAN 29" pro-logic

Subject: SERVICE INFORMATION

Fault: SERVICE MODE ADJUSTMENTS

**Symptom:** SET REQUIRES ADJUSTMENT.  
**Cause:** POOR ADJUSTMENT.  
**Cure:** ADJUSTMENTS FOR HEIGHT, E/W ,  
 GREY SCALE ARE ALL ACHIEVED BY THE  
 SERVICE MODE AND REMOTE HANDSET.  
 FOLLOW THIS METHOD:

..... CONT.

- 1) PRESS AND HOLD THE VOLUME + & -  
 BUTTONS INSIDE THE FRONT FLAP ON THE  
 T. V. SET, WHILE SWITCHING ON THE SET  
 FROM THE MAINS ON/OFF SWITCH.
- 2) WHEN THE SET COMES ON RELEASE THE  
 VOLUME CONTROLS. AFTER A SHORT WHILE  
 THE MODEL NUMBER WILL BE DISPLAYED ON  
 SCREEN.

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\* . . CONTINUED ON NEXT PAGE \*\*\*\*\*  
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 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

- 3) PULL DOWN THE COVER ON THE REMOTE  
 HANDSET. PRESS THE 'ESC' BUTTON TO  
 DISPLAY THE SERVICE MODE MENU.

GEOM	REG.	00
GEOM	VALUE	00
GREY	REG	00
GREY	VALUE	00

ETC.



**Model :** CP2976TAN      **29" pro-logi c**

**Subject:** SERVICE INFORMATION

**Fault:** SERVICE MODE ADJUSTMENTS

- 4) USE THE < AND > CURSOR BUTTONS ON  
 THE HANDSET TO SELECT THE ADJUSTMENT  
 MODE YOU REQUIRE. FOR PICTURE ADJUST  
 SUCH AS HEIGHT, WIDTH THESE ARE IN THE  
 GEOM REG ADJUSTMENTS.  
 FOR GREY SCALE ADJUST THESE ARE IN THE  
 GREY REG. MENUS

..... CONT.

A FULL TABLE FOR GEOMETRY ADJUSTMENTS  
 FOLLOWS:

GOEM REG 00	HORIZONTAL SHI FT
GEOM REG 01	EAST WEST WIDTH
GEOM REG 02	EAST WEST PARABOLA WIDTH
GEOM REG 03	EAST WEST CORNER PARABOLA
GEOM REG 04	EAST WEST TRAPEZIUM
GEOM REG 05	VERTICLE SLOPE
GEOM REG 06	VERTICLE AMPLITUDE

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GEOM REG 07 S CORRECTION  
GEOM REG 08 VERTICLE SHIFT.  
SO IF FOR EXAMPLE WE REQUIRE TO ADJUST  
THE PICTURE HEIGHT: ALIGN THE CUSOR  
ARROWS ON GEOM REG. USING THE CURSOR  
UP AND DOWN BUTTONS ON THE REMOTE.  
USE THE CURSOR < &> BUTTONS TO SELECT  
GEOM REG. 06. CURSOR DOWN TO GEOM  
VALUE AND USE THE < & > BUTTONS ON THE  
HANDSET TO REDUCE OR INCREASE AS REQ'D  
GREY SCALE IS ACHEIVED IN THE SAME  
MANNER USING THE GREY REG. AND GREY  
VALUE MENU AS FOLLOWS:  
GREY REG 00 RED GAIN  
GREY REG 01 GREEN GAIN  
GREY REG 02 BLUE GAIN  
GREY REG 03 RED LEVEL  
GREY REG 04 GREEN LEVEL  
GREY REG 05 BLUE LEVEL  
ONCE ALL ADJUSTMENTS HAVE BEEN MADE GO  
TO STANDBY TO MEMORISE AND EXIT THE  
SERVICE MODE.

Model: CP2976TAN 29" pro-logic

Subject: SERVICE INFORMATION  
Fault: 'C\*\*\*76TN-311' OSD APPEARS ON SCREEN  
Symptom: THE OSD PROMPT 'C\*\*\*76TN-311'  
APPEARS ON SCREEN ON SWITCH ON  
Cause: SET IS IN SERVICE MODE  
Cure: PRESS THE ESC BUTTON UNDER THE  
BOTTOM FLAP OF THE REMOTE CONTROL. THEN  
GO TO STANDBY. WHEN THE SET IS BROUGHT  
OUT OF STANDBY THE PROMPT WILL HAVE  
BEEN REMOVED.

Model: CP2976TAN 29" pro-logic

Subject: PART NUMBER CHANGES  
Fault: PART NUMBER FOR I. C. 002  
Symptom: THE PART NUMBER FOR I. C. 002  
GIVEN IN THE PRELIMINARY MANUAL IS  
INCORRECT.  
Cause: PRINTING ERROR.  
Cure: DELETE PART NUMBER T900668. THE  
CORRECT PART NUMBER FOR I. C. 002 IS  
SCANDINAVIA: E730160  
EUROPE & UK: E730138

Model: CP2994 29" 100HZ SEMI TECH

Subject: VERTICAL STAGE  
Fault: ADDITION OF CAP TO FRAME IC

SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 CAPACITOR ADDED TO  
FRAME O/P IC  
DEFECT: Z MISSING COMPONENT  
REPAIR: A FIT CAPACITOR BETWEEN  
PINS 8 AND 9 OF ICs1

Model: CP2994 29" 100HZ SEMI TECH

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF MEMORY ICF1 PART NUMBER  
SECTION: SYS SYSTEM CONTROL  
CONDITION: 1  
Symptom: 185 CHANGE OF MEMORY IC  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A NEW PT# FOR ICF1 IS  
SAL 37792333

Model: CP2994 29" 100HZ SEMI TECH

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF MAINS FILTER CAP  
SECTION: PSU POWER SUPPLY  
CONDITION: 1  
Symptom: 18X PART CHANGE  
DEFECT: 185 CIRCUIT CHANGE  
REPAIR: A CAPACITORS C06 TO C09  
ARE CHANGED TO 1n5 2KV  
PT# SAL32670976

Model: CP2994 29" 100HZ SEMI TECH

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF FBT  
SECTION: DFL  
CONDITION: 1  
Symptom: 18X FLYBACK TRANSFORMER  
DEFECT: A  
REPAIR: A PT# SAL 45360034  
NOTE: SUPPLY TO FRAME O/P IC IS  
REDUCED FROM 16V TO 14V

Model: CP32WD2TAN PAL BG 32" WIDE FOR EUROPE

Subject: TUNING SELECTION  
Fault: CHANGE OF IC002(GREEK MODELS ONLY)  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A PT # E730189



Model: CS1714RE 43cm remote CTV

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PART NUMBER  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: A  
REPAIR: A PART NUMBER FOR L901 IS  
L210065

Model: CS1714RE 43cm remote CTV

Subject: TUNER/IF  
Fault: CHANGE OF IC201 MASK  
Symptom: CHANGE OF IC201 MASK  
Cause: IMPRVEMENT  
Cure: WHEN REPLACING IC201 FROM TYPE  
TDA8362-N3 TO TDA8362-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
PART NUMBERS: IC201 T900624  
R523 J0700053M

Model: CS1714RE 43cm remote CTV

Subject: TUNER/IF  
Fault: POOR PLAYBACK OF MACROVISION TAPES  
Symptom: POOR PLAYBACK OF MACRO VISION  
TAPES.  
Cause: CAPACITOR C104 AND C205 VALUES  
Cure: TO CURE SKEW CHANGE C205 TO 4u7  
50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R

Model: CS1714RE 43cm remote CTV

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF LINE DRIVER TRANSISTOR  
Symptom: CHANGE OF LINE DRIVER  
TRANSISTOR Q701.  
Cause: CHANGE OF SUPPLIER  
Cure: LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: CS1714RE 43cm remote CTV

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER

SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CS2114RE 21" remote CTV (Russia)

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PART NUMBER  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: A  
REPAIR: A PART NUMBER FOR L901 IS  
L210065

Model: CS2114RE 21" remote CTV (Russia)

Subject: TUNER/IF  
Fault: CHANGE OF IC201 MASK  
Symptom: CHANGE OF IC201 MASK  
Cause: IMPRVEMENT  
Cure: WHEN REPLACING IC201 FROM TYPE  
TDA8362-N3 TO TDA8362-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
PART NUMBERS: IC201 T900624  
R523 J0700053M

Model: CS2114RE 21" remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: CS2114RE 21" remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019



Model: CS2514RE 59cm remote CTV (Russia)

**Subject:** POWER SUPPLY  
**Fault:** CHANGE OF TRANSFORMER T901  
 SECTION: PSU  
 CONDITION: 1  
**Symptom:** 185 RUNNING CHANGE  
 DEFECT: I  
 REPAIR A PART # FOR T901 L380131

Model: CS2514RE 59cm remote CTV (Russia)

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PT#  
SECTION: PSU  
CONDITION: 1  
Symptom: 185  
DEFECT: A  
REPAIR: A NEW PART # FOR L901 IS  
L210065

Model: CS2514RE 59cm remote CTV (Russia)

**Subject:** TUNER/IF  
**Fault:** CHANGE OF IC201 MASK  
**Symptom:** CHANGE OF IC201 MASK  
**Cause:** IMPRIVEMENT  
**Cure:** WHEN REPLACING IC201 FROM TYPE  
TDA8362-N3 TO TDA8362-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
**PART NUMBERS:** IC201 T900624  
R523 J0700053M

Model: CS2514RE 59cm remote CTV (Russia)

**Subject:** TUNER/IF  
**Fault:** POOR PLAYBACK OF MACROVISION TAPES  
**Symptom:** POOR PLAYBACK OF MACRO VISION  
 TAPES.  
**Cause:** CAPACITOR C104 AND C205 VALUES  
**Cure:** TO CURE SKEW CHANGE C205 TO 4u7  
 50V  
 TO CURE HORIZONTAL SHADED BAR AT TOP  
 OF SCREEN CHANGE C104 TO 22uF 16V  
 PART NUMBERS: C205 J0800012R  
 C104 J0800023R

Model: CS2514RE 59cm remote CTV (Russia)

**Subject: AUDIO**  
**Fault: CHANGE OF PART # R491**  
**SECTION: APA AUDIO PROCESSING**  
**CONDITION: 1**



Symptom: 185 PART DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART # FOR R491 IS  
R000618

Model: CS2514RE 59cm remote CTV (Russia)

Subject: AUDIO  
Fault: CHANGE OF AUDIO OUTPUT IC401  
SECTION: APA  
CONDITION: 1  
Symptom: 185 CHANGE OF AUDIO IC TYPE  
DEFECT: A  
REPAIR: A THERE ARE TWO TYPES OF AUDIO  
OUTPUT IC'S USED ON THIS MODEL  
THESE AUDIO OUTPUT IC'S ARE NOT INTER-  
CHANGEABLE.  
PART # TDA2824S J2004451  
TDA1519B T900754  
PLEASE REFER TO SERVICE MANUAL SMD0013  
FOR THE CIRCUIT DIAGRAM OF THE TDA1519

Model: CS2514RE 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF FLYBACK TUNING CAPACITOR  
Symptom: CHANGE OF FLYBACK TUNING  
CAPACITOR C725  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR C725 IS  
C142755

Model: CS2514RE 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: CS2514RE 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF LINE DRIVER TRANSISTOR  
Symptom: CHANGE OF LINE DRIVER  
TRANSISTOR Q701.  
Cause: CHANGE OF SUPPLIER  
Cure: LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: CS2514RE 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF D601 PART NUMBER  
Symptom: CHANGE OF PART NUMBER FOR  
D601  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR D601 IS  
T531063 TYPE IN4002/GI

Model: CS2514RE 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART # FOR D601  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 CHANGE OF PT#  
DEFECT: A  
REPAIR: A PT# FOR D601 IS  
T531063

Model: CS2514RE 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CS2515R 59cm remote CTV (Russia)

Subject: POWER SUPPLY  
Fault: CHANGE OF TRANSFORMER T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: I  
REPAIR A PART # FOR T901 L380131

Model: CS2515R 59cm remote CTV (Russia)

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PT#  
SECTION: PSU  
CONDITION: 1  
Symptom: 185  
DEFECT: A  
REPAIR: A NEW PART # FOR L901 IS

L210065

Model: CS2515R 59cm remote CTV (Russia)

Subject: TUNER/IF  
Fault: CHANGE OF IC201 MASK  
Symptom: CHANGE OF IC201 MASK  
Cause: IMPROVEMENT  
Cure: WHEN REPLACING IC201 FROM TYPE  
TDA8362-N3 TO TDA8362-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
PART NUMBERS: IC201 T900624  
R523 J0700053M

Model: CS2515R 59cm remote CTV (Russia)

Subject: TUNER/IF  
Fault: POOR PLAYBACK OF MACROVISION TAPES  
Symptom: POOR PLAYBACK OF MACRO VISION  
TAPES.  
Cause: CAPACITOR C104 AND C205 VALUES  
Cure: TO CURE SKEW CHANGE C205 TO 4u7  
50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R

Model: CS2515R 59cm remote CTV (Russia)

Subject: AUDIO  
Fault: CHANGE OF PART # R491  
SECTION: APA AUDIO PROCESSING  
CONDITION: 1  
Symptom: 185 PART DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART # FOR R491 IS  
R000618

Model: CS2515R 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF FLYBACK TUNING CAPACITOR  
Symptom: CHANGE OF FLYBACK TUNING  
CAPACITOR C725  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR C725 IS  
C142755

Model: CS2515R 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES



Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: CS2515R 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF LINE DRIVER TRANSISTOR  
Symptom: CHANGE OF LINE DRIVER  
TRANSISTOR Q701.  
Cause: CHANGE OF SUPPLIER  
Cure: LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: CS2515R 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF D601 PART NUMBER  
Symptom: CHANGE OF PART NUMBER FOR  
D601  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR D601 IS  
T531063 TYPE IN4002/GI

Model: CS2515R 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART # FOR D601  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 CHANGE OF PT#  
DEFECT: A  
REPAIR: A PT# FOR D601 IS  
T531063

Model: CS2515R 59cm remote CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CS2515T 59cm CTV (Russia)

Subject: POWER SUPPLY  
Fault: CHANGE OF TRANSFORMER T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: I  
REPAIR A PART # FOR T901 L380131

Model: CS2515T 59cm CTV (Russia)

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PT#  
SECTION: PSU  
CONDITION: 1  
Symptom: 185  
DEFECT: A  
REPAIR: A NEW PART # FOR L901 IS  
L210065

Model: CS2515T 59cm CTV (Russia)

Subject: TUNING SELECTION  
Fault: CHANGE OF MICROPROCESSOR IC001  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF  
MICROPROCESSOR  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A NEW PART No FOR IC001  
SAA5296ZP IS T900763

Model: CS2515T 59cm CTV (Russia)

Subject: TUNER/IF  
Fault: CHANGE OF IC201 MASK  
Symptom: CHANGE OF IC201 MASK  
Cause: IMPRVEMENT  
Cure: WHEN REPLACING IC201 FROM TYPE  
TDA8362-N3 TO TDA8362-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
PART NUMBERS: IC201 T900624  
R523 J0700053M

Model: CS2515T 59cm CTV (Russia)

Subject: TUNER/IF  
Fault: POOR PLAYBACK OF MACROVISION TAPES  
Symptom: POOR PLAYBACK OF MACRO VISION  
TAPES.  
Cause: CAPACITOR C104 AND C205 VALUES  
Cure: TO CURE SKEW CHANGE C205 TO 4u7



50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R

Model: CS2515T 59cm CTV (Russia)

Subject: AUDIO  
Fault: CHANGE OF PART # R491  
SECTION: APA AUDIO PROCESSING  
CONDITION: 1  
Symptom: 185 PART DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART # FOR R491 IS  
R000618

Model: CS2515T 59cm CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF FLYBACK TUNING CAPACITOR  
Symptom: CHANGE OF FLYBACK TUNING  
CAPACITOR C725  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR C725 IS  
C142755

Model: CS2515T 59cm CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: CS2515T 59cm CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF LINE DRIVER TRANSISTOR  
Symptom: CHANGE OF LINE DRIVER  
TRANSISTOR Q701.  
Cause: CHANGE OF SUPPLIER  
Cure: LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: CS2515T 59cm CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF D601 PART NUMBER

Symptom: CHANGE OF PART NUMBER FOR  
D601  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR D601 IS  
T531063 TYPE IN4002/GI

Model: CS2515T 59cm CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART # FOR D601  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 CHANGE OF PT#  
DEFECT: A  
REPAIR: A PT# FOR D601 IS  
T531063

Model: CS2515T 59cm CTV (Russia)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: CS2546TA COLOUR TELEVISION

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER , T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 T901 PT# CHANGED  
DEFECT: A  
REPAIR: A NEW PART # FOR T901 IS  
L380119

Model: CS2547TA TELEVISION

Subject: Y/C SIGNAL PROCESSING  
Fault: SPOT BURN-IMPROVEMENT  
SECTION: APR LUMINANCE PROCESSING  
CONDITION: 1  
Symptom: 385 IMPROVEMENT OF SPOT BURN  
DEFECT: Y  
REPAIR: A TO IMPROVE SPOT BURN, R593  
IS CHANGED FROM 10K TO 22K





YOKE & REPLACE WITH 220R, 0.5W, PT. NO.  
3153 4230 & 330R, 0.5W, PT. NO. 1221 3706  
IN PARALLEL. SEE OVER.

Model: CS2992TAN Widescreen from Nokia Germany

Subject: SERVICE INFORMATION

Fault: CHANGE OF ICs1

NEW IC TYPE TDA8350Q-N3/S6 IS MARKED  
IN THE SAME WAY AS THE PREVIOUS TYPE  
TDA8350Q-N3. THAT IS THEY LOOK  
TOTALLY IDENTICAL. THEY ARE ONLY  
DISTINGUISHABLE BY PART NO.

Model: C14P216 COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD SET (HT TOO HIGH)

CHECK HT IS AS STATED IN SERVICE  
MANUAL. (21" 112V. 14" 103V)  
IF TOO HIGH, SET IS SHUTTING DOWN DUE  
TO OVER VOLTS PROTECTION.  
CHECK R909 GOING HIGH RESISTANCE  
R909 39K 0.5WATT PART NO. R349319

Model: C14P216 COLOUR TV

Subject: TUNING SELECTION

Fault: I. R. AMP ASSY. NEW VERSION FITTING

Symptom: I. R. ASSY WILL NOT PHYSICALLY  
FIT.

Cause: PART HAS BEEN UPDATED.

Cure: TO FIT THE NEW VERSION OF THE  
I. R. AMP ASSY THE FOLLOWING SHOULD BE  
CARRIED OUT. IT WILL BE NECESSARY TO  
BEND THE EARTH LUGS FLAT, THEN INSERT  
THE PINS INTO ORIGINAL HOLES.  
BEND THE LUGS FLAT, AND FIT THE NEW  
ASSY INTO THE EXISTING SIGNAL HOLES.  
SOLDER TWO PIECES OF WIRE TO THE NOW  
FLAT LUGS, PASS THEM THRU' THE OLD  
EARTH LUG HOLES AND SOLDER IN PLACE.  
IT IS NOW NECESSARY TO REVERSE TWO  
PINS ON THE AMP ASSY. THIS CAN BE  
ACHIEVED IN THE FOLLOWING MANNER.  
REMOVE THE EXISTING RESISTORS R058 &  
R091. YOU WILL NEED TWO NEW 100R  
RESISTORS. WHEN FITTING THESE YOU WILL  
REVERSE THE TWO ENDS OF THE RESISTORS  
WHICH ARE IN CLOSEST PROXIMITY  
FROM THIS I\_R058\_I I\_R091\_I

TO THIS I\_R091\_I  
TO THIS I\_R058\_I



I \_\_\_\_R058\_\_\_\_I

BE SURE TO BEND THE RESISTOR SO THAT  
THE TWO CANNOT SHORT CIRCUIT.



**Model:** C14P216                      **COLOUR TV**

**Subject:** TUNER/IF  
**Fault:** TUNER DRIFT  
VARIATION OF VT30 VOLT RAIL REPLACE  
ZD002 ZTK33B PART NO T536193



**Model:** C14P216                      **COLOUR TV**

**Subject:** TUNER/IF  
**Fault:** "GHOSTING" POOR RESPONSE  
CHANGE CP201 SAW FILTER PART NO  
E518022



**Model:** C14P216                      **COLOUR TV**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** BRIGHT WHITE PICTURE, THEN SHUT OFF  
**Symptom:** THE SCREEN FLARES UP BRIGHT  
WHITE THEN THE SET SHUTS OFF.  
**Cause:** DRY JOINT CAPACITOR.  
**Cure:** CHECK / RESOLDER C711. CHECK THE  
BACK CABINET, C711 IS SOMETIMES FORCED  
OUT OF THE PCB BY A PLASTIC PROTRUSION  
WHICH SHOULD BE CUT OFF.



**Model:** C14P216                      **COLOUR TV**

**Subject:** AUDIO  
**Fault:** LOUD BUZZ ON SOUND (50HZ BETWEEN 50  
150 MV. PP)  
THIS PHENOMENON HAS BEEN ISOLATED TO  
EARLY BATCHES OF THE TOSHIBA IC TA8691N  
WITH MASK CODES OF 929, 932, AND 942.  
REPLACE IC201 TA8691N (PART NO.  
T900486).  
RECEIVERS PRODUCED AFTER THE FOLLOWING  
SERIAL NUMBERS ARE NOT LIKELY TO  
EXHIBIT THE ABOVE PHENOMENON.  
MODEL NO. C14-P216  
SERIAL NO. U9L021696  
MODEL NO. C14-P218  
SERIAL NO. U9L003938  
SEE TECHLINE BULLETIN NO 629



**Model:** C14P216                      **COLOUR TV**

**Subject:** AUDIO

Fault: BUZZ ON SOUND  
Symptom: BUZZ ON SOUND  
Cause: LEAKY CAPACITOR.  
Cure: CHECK / REPLACE C410 10nF  
PT/No 0244172

Model: C14P216 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: FLASHING BRIGHT AND GOES OFF  
DRY JOINT C711 CAUSED BY BACK COVER  
PUSHING AGAINST C711  
RESOLDER C711 AND REMOVE A SMALL PIECE  
OF THE OFFENDING BACK COVER

Model: C14P216 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: FAILURE OF Q702 2SD 1876  
REPLACE ABOVE WITH CORRECT TYPE PART  
NO 2327504  
CHECK R711 AND R712 SHOULD BE A TOTAL  
OF 6.8K

Model: C14P216 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: BRIGHT WHITE PICTURE, THEN SHUT OFF  
Symptom: THE SCREEN FLARES UP BRIGHT  
WHITE THEN THE SET SHUTS OFF.  
Cause: DRY JOINT CAPACITOR.  
Cure: CHECK / RESOLDER C711. CHECK THE  
BACK CABINET, C711 IS SOMETIMES FORCED  
OUT OF THE PCB BY A PLASTIC PROTRUSION  
WHICH SHOULD BE CUT OFF.

Model: C14P216 COLOUR TV

Subject: SERVICE INFORMATION  
Fault: CHANGE OF CRT  
NEW CRT INTRODUCED IN PRODUCTION,  
TYPE A34KPU12XX, PART NO T137008.

Model: C14P216 COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: CTV RECEIVERS IC2202  
THE SERVICE MANUAL HAS A NOTE FOR AT  
THE BOTTOM OF PAGE 15 CONCERNING  
IC2202.  
IF A REPAIR REQUIRES REPLACEMENT OF  
IC2202, PART NO T900479 TYPE CF72301

SHOULD BE FITTED. IF THE FAULTY IC IS OF THE TYPE CF72305 AND TYPE CF72301 IS FITTED, THE 100NF CAPACITOR BETWEEN PIN 4 & 6 OF THE IC SHOULD BE REMOVED. ALSO C2134 SHOULD BE 2.2NF 10% 63V PART NO C23715 AND R2213 SHOULD BE 6K8 5% 1/16W, PART NO 0700052.

Model: C14P218

COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD SET (HT TOO HIGH)

CHECK HT IS AS STATED IN SERVICE MANUAL. (21" 112V. 14" 103V)

IF TOO HIGH, SET IS SHUTTING DOWN DUE TO OVER VOLTS PROTECTION.

CHECK R909 GOING HIGH RESISTANCE R909 39K 0.5WATT PART NO. R349319

Model: C14P218

COLOUR TV

Subject: TUNING SELECTION

Fault: I. R. AMP ASSY. NEW VERSION FITTING

Symptom: I. R. ASSY WILL NOT PHYSICALLY FIT.

Cause: PART HAS BEEN UPDATED.

Cure: TO FIT THE NEW VERSION OF THE I. R. AMP ASSY THE FOLLOWING SHOULD BE CARRIED OUT. IT WILL BE NECESSARY TO BEND THE EARTH LUGS FLAT, THEN INSERT THE PINS INTO ORIGINAL HOLES. BEND THE LUGS FLAT, AND FIT THE NEW ASSY INTO THE EXISTING SIGNAL HOLES. SOLDER TWO PIECES OF WIRE TO THE NOW FLAT LUGS, PASS THEM THRU' THE OLD EARTH LUG HOLES AND SOLDER IN PLACE. IT IS NOW NECESSARY TO REVERSE TWO PINS ON THE AMP ASSY. THIS CAN BE ACHIEVED IN THE FOLLOWING MANNER. REMOVE THE EXISTING RESISTORS R058 & R091. YOU WILL NEED TWO NEW 100R RESISTORS. WHEN FITTING THESE YOU WILL REVERSE THE TWO ENDS OF THE RESISTORS WHICH ARE IN CLOSEST PROXIMITY FROM THIS

I\_R058\_I I\_R091\_I  
\_\_\_\_R091\_\_\_\_  
TO THIS I I  
I\_\_\_\_R058\_\_\_\_I

Model: C14P218

COLOUR TV

Subject: TUNING SELECTION

Fault: I. R. AMP ASSY. NEW VERSION FITTING

BE SURE TO BEND THE RESISTOR SO THAT  
THE TWO CANNOT SHORT CIRCUIT.

Model: C14P218 COLOUR TV

Subject: TUNER/IF  
Fault: TUNER DRIFT  
VARIATION OF VT30 VOLT RAIL REPLACE  
ZD002 ZTK33B PART NO T536193

Model: C14P218 COLOUR TV

Subject: TUNER/IF  
Fault: "GHOSTING" POOR RESPONSE  
CHANGE CP201 SAW FILTER PART NO  
E518022

Model: C14P218 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: BRIGHT WHITE PICTURE, THEN SHUT OFF  
Symptom: THE SCREEN FLARES UP BRIGHT  
WHITE THEN THE SET SHUTS OFF.  
Cause: DRY JOINT CAPACITOR.  
Cure: CHECK / RESOLDER C711. CHECK THE  
BACK CABINET, C711 IS SOMETIMES FORCED  
OUT OF THE PCB BY A PLASTIC PROTRUSION  
WHICH SHOULD BE CUT OFF.

Model: C14P218 COLOUR TV

Subject: AUDIO  
Fault: LOUD BUZZ ON SOUND (50HZ BETWEEN 50  
150 MV. PP)  
THIS PHENOMENON HAS BEEN ISOLATED TO  
EARLY BATCHES OF THE TOSHIBA IC TA8691N  
WITH MASK CODES OF 929, 932, AND 942.  
REPLACE IC201 TA8691N (PART NO.  
T900486).  
RECEIVERS PRODUCED AFTER THE FOLLOWING  
SERIAL NUMBERS ARE NOT LIKELY TO  
EXHIBIT THE ABOVE PHENOMENON.  
MODEL NO. C14-P216  
SERIAL NO. U9L021696  
MODEL NO. C14-P218  
SERIAL NO. U9L003938  
SEE TECHLINE BULLETIN NO 629

Model: C14P218 COLOUR TV

Subject: AUDIO  
Fault: BUZZ ON SOUND



Symptom: BUZZ ON SOUND  
Cause: LEAKY CAPACITOR.  
Cure: CHECK / REPLACE C410 10nF  
PT/No 0244172

Model: C14P218 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: FLASHING BRIGHT AND GOES OFF  
DRY JOINT C711 CAUSED BY BACK COVER  
PUSHING AGAINST C711  
RESOLDER C711 AND REMOVE A SMALL PIECE  
OF THE OFFENDING BACK COVER

Model: C14P218 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: FAILURE OF Q702 2SD 1876  
REPLACE ABOVE WITH CORRECT TYPE PART  
NO 2327504  
CHECK R711 AND R712 SHOULD BE A TOTAL  
OF 6.8K

Model: C14P218 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: BRIGHT WHITE PICTURE, THEN SHUT OFF  
Symptom: THE SCREEN FLARES UP BRIGHT  
WHITE THEN THE SET SHUTS OFF.  
Cause: DRY JOINT CAPACITOR.  
Cure: CHECK / RESOLDER C711. CHECK THE  
BACK CABINET, C711 IS SOMETIMES FORCED  
OUT OF THE PCB BY A PLASTIC PROTRUSION  
WHICH SHOULD BE CUT OFF.

Model: C14P218 COLOUR TV

Subject: SERVICE INFORMATION  
Fault: CHANGE OF CRT  
NEW CRT INTRODUCED IN PRODUCTION,  
TYPE A34KPU12XX, PART NO T137008.

Model: C14P218 COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: CTV RECEIVERS IC2202  
THE SERVICE MANUAL HAS A NOTE FOR AT  
THE BOTTOM OF PAGE 15 CONCERNING  
IC2202.  
IF A REPAIR REQUIRES REPLACEMENT OF  
IC2202, PART NO T900479 TYPE CF72301  
SHOULD BE FITTED. IF THE FAULTY IC IS

# HITACHI

OF THE TYPE CF72305 AND TYPE CF72301  
IS FITTED, THE 100NF CAPACITOR BETWEEN  
PIN 4 & 6 OF THE IC SHOULD BE REMOVED.

Model: C14P218

COLOUR TV

Subject: PART NUMBER CHANGES

Fault: CTV RECEIVERS IC2202

ALSO C2134 SHOULD BE 2.2NF 10% 63V

PART NO C23715 AND R2213 SHOULD BE 6K8

5% 1/16W, PART NO 0700052.

Model: C1405R

Colour tv

Subject: TUNING SELECTION

Fault: NO ON SCREEN DISPLAYS.

Symptom: MISSING ON SCREEN DISPLAYS.

Cause: DISTORTED SANDCASTLE PULSE.

Cure: REPLACE D703 TYPE IN4531.

P#J2348921M

Model: C1405T

COLOUR TV

Subject: TUNING SELECTION

Fault: NO ON SCREEN DISPLAYS.

Symptom: MISSING ON SCREEN DISPLAYS.

Cause: DISTORTED SANDCASTLE PULSE.

Cure: REPLACE D703 TYPE IN4531.

P#J2348921M

Model: C1408T

COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD SET (HT TOO HIGH)

CHECK HT IS AS STATED IN SERVICE

MANUAL. (21" 112V. 14" 103V)

IF TOO HIGH, SET IS SHUTTING DOWN DUE  
TO OVER VOLTS PROTECTION.

CHECK R909 GOING HIGH RESISTANCE

R909 39K 0.5WATT PART NO. R349319

Model: C1408T

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: NO COLOUR.

Symptom: NO COLOUR.

Cause: FAULTY CAPACITOR.

Cure: CHECK/REPLACE OPEN CIRCUIT

CAPACITOR, C519, 10NF. 50V.

PT. NO. 0880044R.



PT. NO. 3656 1009.

Model: C1410R Colour tv

Subject: TUNING SELECTION  
Fault: NOT TUNING  
Symptom: NOT TUNING.  
Cause: FAULTY TRANSISTOR.  
Cure: CHECK/REPLACE TRANSISTORS:  
VF03, VF04, VF05.

Model: C1410R Colour tv

Subject: TUNER/IF  
Fault: NOT TUNING  
Symptom: NOT TUNING.  
Cause: FAULTY TRANSISTOR.  
Cure: CHECK/REPLACE TRANSISTORS:  
VF03, VF04, VF05.

Model: C1410R Colour tv

Subject: HORIZONTAL STAGE  
Fault: RESIDUAL SPOT SUPPRESSION  
Symptom: WHEN SWITCHED OFF EITHER BY  
REMOTE OR ON/OFF SWITCH A STRONG AFTER  
GLOW IS PRESENT ON SCREEN.  
Cause: POOR SPOT SUPPRESSION  
Cure: CHANGE CAPACITOR CH01 TO 1nF. IF  
THIS IS STILL INSUFFICIENT TO RESOLVE  
THE PROBLEM YOU CAN ADDITIONALLY CHANGE  
CH10 TO 47uF

Model: C1410R Colour tv

Subject: HORIZONTAL STAGE  
Fault: REDUCED PICTURE WIDTH  
Symptom: REDUCED PICTURE WIDTH.  
Cause: LEAKY CAPACITOR  
Cure: REPLACE CK12, 6. 2NF.  
PART NO. SAL 33241046.

Model: C1410R Colour tv

Subject: HORIZONTAL STAGE  
Fault: FAILURE OF LINE DRIVE TRANSISTOR  
Symptom: LINE DRIVER TRANSISTOR VK01  
FAILS AND MELTS.  
Cause: POOR DRIVE SIGNALS  
Cure: CHECK RK01, 02, 03, 04 FOR VALUE &  
DRY JOINTS. AND REPLACE THE FOLLOWING:  
VK01-SAL 36144209, VK02 - SAL 36147109



CK02- SAL 34229784, CK03 - SAL 34227054  
CK04- 0235641 VK51- SAL 36145322, (CONT)  
VK52- SAL 36145423.

IT IS IMPORTANT THAT +8V TO PIN 36 OF  
IC DD01 IS CORRECT. IF HIGH (12- 14V)  
CHECK V037, V036 AND THE HT ADJUSTMENT  
R048.

Model: C1410R

Colour tv

Subject: SERVICE INFORMATION

Fault: CRT AND CHASSIS MATCH/PART No- TL638

Symptom: TWO DIFFERENT TYPES OF CRT  
HAVE BEEN FITTED TO THIS SET. THE TWO  
CRTS ARE NOT INTERCHANGEABLE.

Cause: PRODUCTION CHANGES.

Cure: REFER TO THE TABLES THAT FOLLOW  
TO MATCH UP THE CRT AND CHASSIS  
BEFORE ORDERING ANY REPLACEMENT PARTS.  
THE CRT AND CHASSIS TYPE CAN BE FOUND  
BY THE SETS I. D. No WHICH CAN BE SEEN  
ON THE SETS RATING LABEL ON THE BACK  
CABINET.  
FOR EXAMPLE WE WILL SEE THAT IF THE  
I. D. No IS 5436 7150 WE CAN SEE THAT  
THIS C1410R IS FITTED WITH CRT TYPE  
SAL 43641401, CRT SOCKET SAL 58582058  
AND CHASSIS SAL 58640110.

Model: C1410R

Colour tv

Subject: SERVICE INFORMATION

Fault: CRT AND CHASSIS MATCH/PART No- TL638  
I. D. No - 5436 7150

CRT TYPE NUMBER : A34EFU13X01

CRT PART NUMBER : SAL 43641401

CRT BASE/Socket PT No: SAL 58582058

CHASSIS PART NUMBER: SAL 58640110

CHECK THE SETS I. D. NO AND MATCH IT  
AGAINST THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS

I. D. No - 5436 7152

CRT TYPE NUMBER : A34KQV42X01

CRT PART NUMBER : SAL 43621484

CRT BASE/Socket PT No: SAL 58582057

CHASSIS PART NUMBER : SAL 58640111

CHECK THE SETS I. D. No AND MATCH IT  
AGAINST THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.

Model: C1410R

Colour tv

Subject: PART NUMBER CHANGES

**Fault:** CRT AND CHASSIS MATCH/PART No- TL638  
**Symptom:** TWO DIFFERENT TYPES OF CRT  
HAVE BEEN FITTED TO THIS SET. THE TWO  
CRTS ARE NOT INTERCHANGEABLE.  
**Cause:** PRODUCTION CHANGES.  
**Cure:** REFER TO THE TABLES THAT FOLLOW  
TO MATCH UP THE CRT AND CHASSIS  
BEFORE ORDERING ANY REPLACEMENT PARTS.  
THE CRT AND CHASSIS TYPE CAN BE FOUND  
BY THE SETS I. D. No WHICH CAN BE SEEN  
ON THE SETS RATING LABEL ON THE BACK  
CABINET.  
FOR EXAMPLE WE WILL SEE THAT IF THE  
I. D. No IS 5436 7150 WE CAN SEE THAT  
THIS C1410R IS FITTED WITH CRT TYPE  
SAL 43641401, CRT SOCKET SAL 58582058  
AND CHASSIS SAL 58640110.



**Model: C1410R**                      **Colour tv**

**Subject:** PART NUMBER CHANGES  
**Fault:** CRT AND CHASSIS MATCH/PART No- TL638  
I. D. No - 5436 7150  
CRT TYPE NUMBER :            A34EFU13X01  
CRT PART NUMBER :            SAL 43641401  
CRT BASE/Socket PT No: SAL 58582058  
CHASSIS PART NUMBER:        SAL 58640110  
CHECK THE SETS I. D. NO AND MATCH IT  
AGAINST THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS  
I. D. No - 5436 7152  
CRT TYPE NUMBER :            A34KQV42X01  
CRT PART NUMBER :            SAL 43621484  
CRT BASE/Socket PT No: SAL 58582057  
CHASSIS PART NUMBER :        SAL 58640111  
CHECK THE SETS I. D. No AND MATCH IT  
AGAINST THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.



**Model: C1410T**                      **Colour tv**

**Subject:** POWER SUPPLY  
**Fault:** PSU TRIPPING OR PULSING. .  
**Symptom:** PSU TRIPPING OR PULSING.  
**Cause:** LEAKY TRANSISTORS.  
**Cure:** CHECK/REPLACE VF14.  
PT. NO. 36145423.  
CHECK/REPLACE VF15.  
PT. NO. 36145322.



**Model: C1410T**                      **Colour tv**

**Subject:** POWER SUPPLY



FAILS AND SELTS.  
Cause: POOR DRIVE SIGNALS  
Cure: CHECK RK01, 02, 03, 04 FOR VALUE &  
DRY JOINTS. AND REPLACE THE FOLLOWING:  
VK01- SAL 36144209, VK02 - SAL 36147109  
CK02- SAL 34229784, CK03 - SAL 34227054  
CK04- 0235641 VK51- SAL 36145322, (CONT)  
VK52- SAL 36145423.  
IT IS IMPORTANT THAT +8V TO PIN 36 OF  
IC DD01 IS CORRECT. IF HIGH (12- 14V)  
CHECK V037, V036 AND THE HT ADJUSTMENT  
R048.



Model: C1410T

Colour tv

Subject: SERVICE INFORMATION  
Fault: CRT AND CHASSIS MATCH/PART No- TL638  
Symptom: TWO DIFFERENT TYPES OF CRT  
HAVE BEEN USED IN THIS SET. THE TWO  
CRT'S ARE NOT INTERCHANGABLE.  
Cause: PRODUCTION CHANGES.  
Cure: BEFORE ORDERING A REPLACEMENT  
PART REFER TO THE TABLE THAT FOLLOWS  
TO MATCH THE CORRECT CRT WITH CHASSIS.  
THE CRT AND CHASSIS CAN BE FOUND BY  
THE SETS I. D. NO WHICH YOU WILL FIND  
ON THE SETS RATING LABEL ON THE BACK  
CABINET.  
FOR EXAMPLE WE WILL SEE THAT IF THE  
I. D. NO IS 5436 7160 THEN THIS C1410T  
IS FITTED WITH CRT TYPE A34EFU13X01,  
CRT BASE / SOCKET SAL 58582058 AND  
CHASSIS SAL 58640100.  
I. D. No - 5436 7160  
CRT TYPE NUMBER : A34EFU13X01  
CRT PART NUMBER : SAL 43641401  
CRT BASE/SOCKET PT No: SAL 58582058  
CHASSIS PART NUMBER: SAL 58640100  
CHECK THE SETS I. D. NO AND MATCH IT  
AGAINST THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.  
I. D. No - 5436 7162  
CRT TYPE NUMBER: A34KQV42X01  
CRT PART NUMBER: SAL 43621484  
CRT BASE/SOCKET PT No: SAL 58582057  
CHASSIS PART NUMBER: SAL 58640101  
CHECK THE SETS I. D. NO AND MATCH IT  
AGAINST THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.



Model: C1410T

Colour tv

Subject: PART NUMBER CHANGES  
Fault: CRT AND CHASSIS MATCH/PART No- TL638



**Symptom:** TWO DIFFERENT TYPES OF CRT  
HAVE BEEN USED IN THIS SET. THE TWO  
CRT' S ARE NOT INTERCHANGABLE.

**Cause:** PRODUCTION CHANGES.

**Cure:** BEFORE ORDERING A REPLACEMENT  
PART REFER TO THE TABLE THAT FOLLOWS  
TO MATCH THE CORRECT CRT WITH CHASSIS.  
THE CRT AND CHASSIS CAN BE FOUND BY  
THE SETS I. D. NO WHICH YOU WILL FIND  
ON THE SETS RATING LABEL ON THE BACK  
CABINET.  
FOR EXAMPLE WE WILL SEE THAT IF THE  
I. D. NO IS 5436 7160 THEN THIS C1410T  
IS FITTED WITH CRT TYPE A34EFU13X01,  
CRT BASE / SOCKET SAL 58582058 AND  
CHASSIS SAL 58640100.  
I. D. No - 5436 7160  
CRT TYPE NUMBER : A34EFU13X01  
CRT PART NUMBER : SAL 43641401  
CRT BASE/SOCKET PT No: SAL 58582058  
CHASSIS PART NUMBER: SAL 58640100  
CHECK THE SETS I. D. NO AND MATCH IT  
AGAINST THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.  
I. D. No - 5436 7162  
CRT TYPE NUMBER: A34KQV42X01  
CRT PART NUMBER: SAL 43621484  
CRT BASE/SOCKET PT No: SAL 58582057  
CHASSIS PART NUMBER: SAL 58640101  
CHECK THE SETS I. D. NO AND MATCH IT  
AGAINST THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.

Model: C1411R 14" remote portable

**Subject:** TUNING SELECTION  
**Fault:** TUNING DRIFT  
SECTION: TUN  
CONDITION: 3  
**Symptom:** 251 TUNING DRIFT  
DEFECT: A FAULTY CAPACITOR  
REPAIR: A REPLACE CV01 0.22uF  
35V PT# DECTXD1V228K

Model: C1411R 14" remote portable

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** CHANGE OF I701 (TDA8362)  
**Symptom:** CHANGE OF I701, TDA8362  
**Cause:** MASK CHANGE  
**Cure:** WHEN REPLACING I701 FROM TYPE  
TDA8362-3Y TO TDA8362-5Y VERSION,  
CHANGE THE VALUE OF R501 FROM 47K TO  
8K2

Model: C1411T 14" text television

Subject: TUNING SELECTION  
Fault: CHANGE OF MICRO PROCESSOR.  
Symptom: CHANGE OF MICRO PROCESSOR  
Cause: ADDITION OF FRENCH LANGUAGE OSD  
Cure: NEW MICRO PROCESSOR VERSION  
DW167MN05 IS INTERCHANGABLE WITH  
ORIGINAL DW167MN04.  
TYPE DW167MN05: PART No DE1DW167MN05

Model: C1411T 14" text television

Subject: TUNING SELECTION  
Fault: TUNING DRIFT  
SECTION: TUN  
CONDITION: 3  
Symptom: 251 TUNING DRIFT  
DEFECT: A FAULTY CAPACITOR  
REPAIR: A REPLACE CV01 0.22uF  
35V PT# DECTXD1V228K

Model: C1411T 14" text television

Subject: Y/C SIGNAL PROCESSING  
Fault: CHANGE OF I701 (TDA8362)  
Symptom: CHANGE OF I701, TDA8362  
Cause: MASK CHANGE  
Cure: WHEN REPLACING I701 FROM TYPE  
TDA8362-3Y TO TDA8362-5Y VERSION,  
CHANGE THE VALUE OF R501 FROM 47K TO  
8K2

Model: C1414R COLOUR TV

Subject: POWER SUPPLY  
Fault: WRONG H. T. ON CIRCUIT DIAGRAM  
THE H. T. VOLTAGE IS INCORRECTLY SHOWN  
AS 150V ON THE CIRCUIT DIAGRAM  
THE CORRECT VALUE SHOULD BE 106V

Model: C1414R COLOUR TV

Subject: POWER SUPPLY  
Fault: CHANGE OF CRT  
THE CRT HAS BEEN CHANGED TO TYPE NO  
A34EAC01X06. THE NEW PART NO IS  
J2470781.  
HOWEVER THIS DOES NOT HAVE THE PRE  
SOLDERED PLUG ON THE SCAN COILS. IT IS  
NECESSARY TO ALSO USE PART NO J2667921



AT THE SAME TIME  
THIS PLUG SHOULD BE CONNECTED AS BELOW

----- PLUG      CONNECT: -  
1 2 3 4 5 6      A TO 2 ORANGE  
                         C TO 4 PINK  
                         D TO 6 WHITE  
A B C D E F      F TO 1 RED

----- COILS  
CHANGE THE FOLLOWING CAPACITORS ALSO  
C727 TO 330NF PART NO: 0299932  
C727A TO 270NF PART NO: 0299931

Model: C1414R      COLOUR TV

Subject: POWER SUPPLY  
Fault: SET STUCK IN STANDBY  
Symptom: SET WILL NOT COME OUT OF THE  
                 STANDBY MODE.  
Cause: POOR REGULATION OF +5V SUPPLY  
         TO MICRO PROCESSOR.  
Cure: CHECK +5V TO MICRO PROCESSOR, IT  
         MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE  
         ZD001 5.1V ZENER , PT NO T536201

Model: C1414R      COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT TRIPPING  
Symptom: SET CUTS OUT INTERMITTANTLY  
Cause: POOR RIVET CONNECTION TO THE  
         SMOOTHING CAPACITOR  
Cure: REPLACE C509 PT/No 0800048

Model: C1414R      COLOUR TV

Subject: POWER SUPPLY  
Fault: STAYS ON IN STANDBY.  
Symptom: STAYS ON IN STANDBY.  
Cause: FAULTY ZENER DIODE.  
Cure: CHECK/REPLACE ZD702A, 6.2V.  
         PT. NO. T536225.

Model: C1414R      COLOUR TV

Subject: POWER SUPPLY  
Fault: FAILURE OF TRANSISTOR BUT12AF.  
Symptom: FAILURE OF TRANSISTOR, BUT12AF  
Cause: HITACHI APPROVED DEVICE NOT  
         USED.  
Cure: HITACHI APPROVED BUT12AF ONLY  
         SHOULD BE USED. PT. NO. 2314791.  
         A FURTHER IMPROVEMENT CAN BE EFFECTED



BY CHANGING D907 TO TYPE MP606M  
PT. NO. T431123.

Model: C1414R COLOUR TV  
Subject: TUNING SELECTION  
Fault: VERTICLE JITTER  
CHANGE THE VALUE OF C604 FROM 270PF  
TO 100PF PART NO J0890074R

Model: C1414R COLOUR TV  
Subject: TUNING SELECTION  
Fault: SET STUCK IN STANDBY  
Symptom: SET WILL NOT COME OUT OF THE  
STANDBY MODE.  
Cause: POOR REGULATION OF +5V SUPPLY  
TO MICRO PROCESSOR.  
Cure: CHECK +5V TO MICRO PROCESSOR, IT  
MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE  
ZD001 5.1V ZENER , PT NO T536201

Model: C1414R COLOUR TV  
Subject: TUNING SELECTION  
Fault: NO ON SCREEN DISPLAY  
Symptom: NO ON SCREEN DISPLAY, (CHAN NO  
VOL/COL/ETC LEVELS  
Cause: O/C DIODE  
Cure: CHECK / REPLACE D703 / D704  
PART NUMBER J2348921M TYPE IN4531

Model: C1414R COLOUR TV  
Subject: TUNING SELECTION  
Fault: NO ON SCREEN DISPLAYS.  
Symptom: MISSING ON SCREEN DISPLAYS.  
Cause: DISTORTED SANDCASTLE PULSE.  
Cure: REPLACE D703 TYPE IN4531.  
P#J2348921M

Model: C1414R COLOUR TV  
Subject: Y/C SIGNAL PROCESSING  
Fault: INTERMITTANT TRIPPING  
Symptom: SET CUTS OUT INTERMITTANTLY  
Cause: POOR RIVET CONNECTION TO THE  
SMOOTHING CAPACITOR  
Cure: REPLACE C509 PT/No 0800048



COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** COLOUR LOSS WITH MACRO VIDEO TAPES  
**Symptom:** COLOUR LOSS ON HIGH CHROMA SATURATION, THIN DARK AREA AT BOTTOM OF PICTURE WHEN USING MACRO TAPES.  
**Cause:** MACRO PROTECTION.  
**Cure:** REPLACE I. C. 201 PT/No T900623 TYPE TDA8362-N4. IF ORIGINAL IC201 IS TYPE TDA8361, CHECK R523 IS 8K2 AND FIT AS NECESSARY, PART No 0700053

COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** VERTICLE JITTER  
**Symptom:** A NOTICEABLE VERTICLE FRAME  
JITTER.  
**Cause:** CAPACITOR TOLLERANCES.  
**Cure:** CHANGE C604 FROM 270pF TO 100pF  
PART No 0890074

COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** NO ON SCREEN DISPLAY  
**Symptom:** NO ON SCREEN DISPLAY, (CHAN NO  
VOL/COL/ETC LEVELS  
**Cause:** O/C DIODE  
**Cure:** CHECK / REPLACE D703 / D704  
PART NUMBER J2348921M TYPE IN4531

COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** PCB LAYOUT CHANGE- R732/6, C731, L702  
**Symptom:** LAYOUT CHANGE TO PCB, CAUSING  
DIFFICULTY IN LOCATING COMPONENTS - R732  
R736, C731, L702  
**Cause:** CIRCUIT CHANGES / IMPROVEMENTS  
**Cure:** ONE END OF R732 IS LOCATED IN  
THE CENTRE HOLE OF THE LINK J719, THE  
OTHER END TO THE HOLE FOR C733 NEAREST  
TO MARKING R471.

COLOUR TV

**Subject: HORIZONTAL STAGE**  
**Fault: PCB LAYOUT CHANGE-R732/6, C731, L702**  
**C731 IS LOCATED IN HOLES MARKED FOR**  
**R471.**  
**L702 AND R736 ARE CONNECTED IN SERIES**

AND ARE BOTH IN THE HOLES MARKED FOR L702.

ALL THESE COMPONENTS ARE LOCATED IN THE VICINITY OF E701, THE SCAN COIL CONNECTOR.

Model: C1414R COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: PICTURE SHIFTS RIGHT-LINE FOLDOVER  
Symptom: THE PICTURE IS SHIFTED TO THE RIGHT WITH SOME LINE FOLDOVER FROM THE LEFT OF THE PICTURE. SOME MINOR ADJUST CAN BE ACHEIVED WITH HORIZONTAL SHIFT.  
Cause: LEAKY DIODE.  
Cure: CHECK / REPLACE D704 TYPE IN4531  
PART NUMBER : J2348921M

Model: C1414R COLOUR TV

Subject: SERVICE INFORMATION  
Fault: PCB LAYOUT CHANGE- R732/6, C731, L702  
Symptom: LAYOUT CHANGE TO PCB, CAUSING DIFICULTY IN LOCATING COMPONENTS - R732 R736, C731, L702  
Cause: CIRCUIT CHANGES / IMPROVEMENTS  
Cure: ONE END OF R732 IS LOCATED IN THE CENTRE HOLE OF THE LINK J719, THE OTHER END TO THE HOLE FOR C733 NEAREST TO MARKING R471.  
C731 IS LOCATED IN HOLES MARKED FOR R471.  
L702 AND R736 ARE CONNECTED IN SERIES AND ARE BOTH IN THE HOLES MARKED FOR L702.  
ALL THESE COMPONENTS ARE LOCATED IN THE VICINITY OF E701, THE SCAN COIL CONNECTOR.

Model: C1414R COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: UPDATED I. C. 201 - TDA8362-N4  
Symptom: IC201 HAS BEEN CHANGED TO AN ISSUE 4 MASK.  
Cause: MASK CHANGE BY IC MANUFACTURER  
Cure: WHEN ORDERING THIS NEW VERSION OF IC201 USE PART NUMBER T900623. IF THIS IS TO REPLACE TYPE TDA8361, CHECK R523 IS 8K2 AND REPLACE AS NECESSARY.  
PART No 0700053.



Model: C1414T COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET STUCK IN STANDBY  
**Symptom:** SET WILL NOT COME OUT OF THE STANDBY MODE.  
**Cause:** POOR REGULATION OF +5V SUPPLY TO MICRO PROCESSOR.  
**Cure:** CHECK +5V TO MICRO PROCESSOR, IT MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE ZD001 5.1V ZENER . PT NO T536201

**Model : C1414T                      COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** INTERMITTANT TRIPPING  
**Symptom:** SET CUTS OUT INTERMITTANTLY  
**Cause:** POOR RIVET CONNECTION TO THE SMOOTHING CAPACITOR  
**Cure:** REPLACE C509 PT/No 0800048

Model : C1414T                      COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** STAYS ON IN STANDBY.  
**Symptom:** STAYS ON IN STANDBY.  
**Cause:** FAULTY ZENER DIODE.  
**Cure:** CHECK/REPLACE ZD702A, 6. 2V.  
 PT. NO. T536225.

Model : C1414T COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: FAILURE OF TRANSISTOR BUT12AF.**  
**Symptom: FAILURE OF TRANSISTOR, BUT12AF**  
**Cause: HITACHI APPROVED DEVICE NOT**  
**USED.**  
**Cure: HITACHI APPROVED BUT12AF ONLY**  
**SHOULD BE USED. PT. NO. 2314791.**  
**A FURTHER IMPROVEMENT CAN BE EFFECTED**  
**BY CHANGING D907 TO TYPE MP606M**  
**PT. NO. T431123.**

**Model : C1414T                      COLOUR TV**

**Subject: TUNING SELECTION**  
**Fault: VERTICLE JITTER**  
**CHANGE THE VALUE OF C604 FROM 270PF**  
**TO 100PF PART NO J0890074R**



Model : C1414T

COLOUR TV

**Subject: TUNING SELECTION**

**Fault: SET STUCK IN STANDBY**

**Symptom:** SET WILL NOT COME OUT OF THE  
STANDBY MODE.

**Cause: POOR REGULATION OF +5V SUPPLY TO MICRO PROCESSOR.**

**Cure: CHECK +5V TO MICRO PROCESSOR, IT MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE ZD001 5.1V ZENER , PT NO T536201**



Model : C1414T

COLOUR TV

**Subject: TUNING SELECTION**

**Fault: NO ON SCREEN DISPLAY**

**Symptom:** NO ON SCREEN DISPLAY, (CHAN NO  
VOL/COL/ETC LEVELS

**Cause: 0/C DIODE**

**Cure: CHECK / REPLACE D703 / D704**  
**PART NUMBER J2348921M TYPE IN4531**



Model : C1414T

COLOUR TV

**Subject: TUNING SELECTION**

**Fault: NO ON SCREEN DISPLAYS.**

**Symptom:** MISSING ON SCREEN DISPLAYS.

**Cause: DISTORTED SANDCASTLE PULSE.**

**Cure: REPLACE D703 TYPE IN4531.**

**P#J2348921M**



Model : C1414T

COLOUR TV

**Subject: Y/C SIGNAL PROCESSING**

**Fault: INTERMITTANT TRIPPING**

**Symptom:** SET CUTS OUT INTERMITTANTLY

**Cause: POOR RIVET CONNECTION TO THE SMOOTHING CAPACITOR**

**Cure: REPLACE C509 PT/No 0800048**



Model : C1414T

COLOUR TV

**Subject: Y/C SIGNAL PROCESSING**

### Fault: COLOUR LOSS WITH MACRO VIDEO TAPES

**Symptom:** COLOUR LOSS ON HIGH CHROMA SATURATION, THIN DARK AREA AT BOTTOM OF PICTURE WHEN USING MACRO TAPES.

**Cause:     MACRO PROTECTION.**

**Cure:** REPLACE I. C. 201 PT/No T900623  
TYPE TDA8362-N4. IF ORIGINAL IC201 IS  
TYPE TDA8361, CHECK R523 IS 8K2 AND  
FIT AS NECESSARY, PART No 0700053







Model : C1414T                      COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** VERTICLE JITTER  
**Symptom:** A NOTICEABLE VERTICLE FRAME  
JITTER.  
**Cause:** CAPACITOR TOLLERANCES.  
**Cure:** CHANGE C604 FROM 270pF TO 100pF  
PART No 0890074

Model: C1414T COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** NO ON SCREEN DISPLAY  
**Symptom:** NO ON SCREEN DISPLAY, (CHAN NO  
VOL/COL/ETC LEVELS  
**Cause:** O/C DIODE  
**Cure:** CHECK / REPLACE D703 / D704  
PART NUMBER J2348921M TYPE IN4531

Model: C1414T COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** PCB LAYOUT CHANGE- R732/6, C731, L702  
**Symptom:** LAYOUT CHANGE TO PCB, CAUSING  
DIFFICULTY IN LOCATING COMPONENTS - R732  
R736, C731, L702  
**Cause:** CIRCUIT CHANGES / IMPROVEMENTS  
**Cure:** ONE END OF R732 IS LOCATED IN  
THE CENTRE HOLE OF THE LINK J719, THE  
OTHER END TO THE HOLE FOR C733 NEAREST  
TO MARKING R471.  
C731 IS LOCATED IN HOLES MARKED FOR  
R471.  
L702 AND R736 ARE CONNECTED IN SERIES  
AND ARE BOTH IN THE HOLES MARKED FOR  
L702.  
ALL THESE COMPONENTS ARE LOCATED IN  
THE VICINITY OF E701, THE SCAN COIL  
CONNECTOR.

Model: C1414T COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** PICTURE SHIFTS RIGHT-LINE FOLDOVER  
**Symptom:** THE PICTURE IS SHIFTED TO THE  
RIGHT WITH SOME LINE FOLDOVER FROM THE  
LEFT OF THE PICTURE. SOME MINOR ADJUST  
CAN BE ACHEIVED WITH HORIZONTAL SHIF T.  
**Cause:** LEAKY DIODE.  
**Cure:** CHECK / REPLACE D704 TYPE IN4531  
PART NUMBER : J2348921M

Model: C1414T

COLOUR TV

Subject: SERVICE INFORMATION  
Fault: PCB LAYOUT CHANGE- R732/6, C731, L702  
Symptom: LAYOUT CHANGE TO PCB, CAUSING  
DIFFICULTY IN LOCATING COMPONENTS - R732  
R736, C731, L702  
Cause: CIRCUIT CHANGES / IMPROVEMENTS  
Cure: ONE END OF R732 IS LOCATED IN  
THE CENTRE HOLE OF THE LINK J719, THE  
OTHER END TO THE HOLE FOR C733 NEAREST  
TO MARKING R471.  
C731 IS LOCATED IN HOLES MARKED FOR  
R471.  
L702 AND R736 ARE CONNECTED IN SERIES  
AND ARE BOTH IN THE HOLES MARKED FOR  
L702.  
ALL THESE COMPONENTS ARE LOCATED IN  
THE VICINITY OF E701, THE SCAN COIL  
CONNECTOR.

Model: C1414T

COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: UPDATED I. C. 201 - TDA8362-N4  
Symptom: IC201 HAS BEEN CHANGED TO AN  
ISSUE 4 MASK.  
Cause: MASK CHANGE BY IC MANUFACTURER  
Cure: WHEN ORDERING THIS NEW VERSION  
OF IC201 USE PART NUMBER T900623. IF  
THIS IS TO REPLACE TYPE TDA8361, CHECK  
R523 IS 8K2 AND REPLACE AS NECESSARY.  
PART No 0700053.

Model: C1414T

COLOUR TV

Subject: SERVICE INFORMATION  
Fault: WRONG H. T. ON CIRCUIT DIAGRAM  
THE H. T. VOLTAGE IS INCORRECTLY SHOWN  
AS 150V ON THE CIRCUIT DIAGRAM  
THE CORRECT VALUE SHOULD BE 106V

Model: C1414T

COLOUR TV

Subject: SERVICE INFORMATION  
Fault: CHANGE OF CRT  
THE CRT HAS BEEN CHANGED TO TYPE NO  
A34EAC01X06. THE NEW PART NO IS  
J2470781.  
HOWEVER THIS DOES NOT HAVE THE PRE  
SOLDERED PLUG ON THE SCAN COILS. IT IS  
NECESSARY TO ALSO USE PART NO J2667921  
AT THE SAME TIME

Model: C1414T

COLOUR TV

Subject: SERVICE INFORMATION

Fault: CHANGE OF CRT

THIS PLUG SHOULD BE CONNECTED AS BELOW

-----

-----PLUG	CONNECT: -
1 2 3 4 5 6	A TO 2 ORANGE
	C TO 4 PINK
	D TO 6 WHITE
A B C D E F	F TO 1 RED

----- COILS

CHANGE THE FOLLOWING CAPACITORS ALSO

C727 TO 330NF PART NO: 0299932

C727A TO 270NF PART NO: 0299931



Model: C1415R

COLOUR TV

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

Symptom: WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.

Cause: UNSTABLE 5V(D) RAIL

Cure: THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.

..... (CONT)

YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:

BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF  
10V CAPACITOR.

THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.

FIT THEM AS FOLLOWS:

..... CONT..



Model: C1415R

COLOUR TV

Subject: POWER SUPPLY

Fault: PULSING FROM COLD

1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.

2. FIT A 1K0 RESISTOR IN PLACE OF R957

3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097  
- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.

..... CONT...

4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE  
POSITIVE SIDE OF EACH COMPONENT TO THE  
JUNCTION OF R957 AND THE BASE OF THE  
NEW BC548C THAT YOU HAVE PREVIOUSLY  
FITTED, AND THE NEGATIVE TO A SUITABLE

GROUND SUCH AS THE -VE CONNECTION OF C035.

Model: C1415R COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.  
Cause: FAULTY ZENER & POTENTIOMETER.  
Cure: CHECK/REPLACE ZD952 & VR951.  
ZENER PT. NO. IS 2344122M FOR 25" MODELS  
& PT. NO. IS 2344121M FOR 14", 17" & 21"  
MODELS.  
POTENTIOMETER PT. NO. IS E311076.

Model: C1415R COLOUR TV

Subject: POWER SUPPLY  
Fault: FAILURE OF TRANSISTOR BUT12AF.  
Symptom: FAILURE OF TRANSISTOR, BUT12AF  
Cause: HITACHI APPROVED DEVICE NOT  
USED.  
Cure: HITACHI APPROVED BUT12AF ONLY  
SHOULD BE USED. PT. NO. 2314791.  
A FURTHER IMPROVEMENT CAN BE EFFECTED  
BY CHANGING D907 TO TYPE MP606M  
PT. NO. T431123.

Model: C1415R COLOUR TV

Subject: TUNING SELECTION  
Fault: SET WILL NOT ENTER TUNING MODE  
Symptom: SET WILL NOT ENTER THE TUNING  
MENU.  
Cause: SET IS IN HOTEL MODE:  
Cure: TO EXIT HOTEL MODE PRESS BUTTONS  
4, 4, STATUS, MUTE, TV. SELECT HOTEL MODE  
USING CURSOR BUTTONS (REV/EXP). CHANGE  
STATUS USING VOL+/- . GO TO STANDBY  
TO STORE.

Model: C1415R COLOUR TV

Subject: SERVICE INFORMATION  
Fault: HOTEL MODE  
Symptom: USE OF HOTEL MODE.  
Cause: SET STUCK IN HOTEL MODE, OR THE  
HOTEL MODE NEEDS TO BE ACTIVATED  
Cure: IF USING REMOTE CONTROL TYPE  
CLE876H ENTER THE SERVICE MODE BY THE  
BUTTON SEQUENCE 4, 4, STATUS, MUTE, TV.  
IF USING REMOTE CONTROL TYPE CLE922A  
THEN PRESS 4, 4, RECALL, MUTE, TV

SELECT THE HOTEL MODE USING THE CURSOR  
UP / DOWN BUTTONS (REV/EXP) AND CHANGE  
THE STATUS BY USING THE VOL +/- BUTTON  
GO TO STANDBY TO STORE YOUR SETTINGS.

**Model: C1415T**

**COLOUR TV**

**Subject:** POWER SUPPLY

**Fault:** PULSING FROM COLD

**Symptom:** WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.

**Cause:** UNSTABLE 5V(D) RAIL

**Cure:** THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.

..... (CONT)

YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:

BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF  
10V CAPACITOR.

THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.

FIT THEM AS FOLLOWS:

..... CONT..

1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.

2. FIT A 1K0 RESISTOR IN PLACE OF R957

3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097

- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.

..... CONT...

4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE  
POSITIVE SIDE OF EACH COMPONENT TO THE  
JUNCTION OF R957 AND THE BASE OF THE  
NEW BC548C THAT YOU HAVE PREVIOUSLY  
FITTED, AND THE NEGATIVE TO A SUITABLE  
GROUND SUCH AS THE -VE CONNECTION OF  
C035.

**Model: C1415T**

**COLOUR TV**

**Subject:** TUNING SELECTION

**Fault:** SET WILL NOT ENTER TUNING MODE

**Symptom:** SET WILL NOT ENTER THE TUNING  
MENU.

**Cause:** SET IS IN HOTEL MODE:

**Cure:** TO EXIT HOTEL MODE PRESS BUTTONS  
4, 4, STATUS, MUTE, TV. SELECT HOTEL MODE  
USING CURSOR BUTTONS(REV/EXP). CHANGE  
STATUS USING VOL+/- . GO TO STANDBY  
TO STORE.

Model: C1415T COLOUR TV

Subject: SERVICE INFORMATION  
Fault: HOTEL MODE  
Symptom: USE OF HOTEL MODE.  
Cause: SET STUCK IN HOTEL MODE, OR THE  
HOTEL MODE NEEDS TO BE ACTIVATED  
Cure: IF USING REMOTE CONTROL TYPE  
CLE876H ENTER THE SERVICE MODE BY THE  
BUTTON SEQUENCE 4, 4, STATUS, MUTE, TV.  
IF USING REMOTE CONTROL TYPE CLE922A  
THEN PRESS 4, 4, RECALL, MUTE, TV  
SELECT THE HOTEL MODE USING THE CURSOR  
UP / DOWN BUTTONS (REV/EXP) AND CHANGE  
THE STATUS BY USING THE VOL +/- BUTTON  
GO TO STANDBY TO STORE YOUR SETTINGS.

Model: C1420VT 14" combination CTV/VCR

Subject: POWER SUPPLY  
Fault: AUDIBLE NOISE IN STANDBY  
Symptom: AUDIBLE NOISE IN STANDBY MODE  
Cause: TRANSFORMER 5330 OSCILLATING  
Cure: REPLACE LEBL MODULE PART NUMBER  
R482221412173

Model: C1420VT 14" combination CTV/VCR

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF HEAD AMPLIFIER  
Symptom: CHANGE OF PART NUMBER  
Cause: PRODUCTION CHANGE  
Cure: NEW PART NUMBER FOR HEAD AMP IS  
R442221412135.  
PLEASE NOTE THIS HEAD AMP IS NOT COMP-  
ATIBLE WITH THE OLD CYLINDER. THE PLUG  
AND SOCKETS HAVE BEEN CHANGED FROM  
S/NO. E710- - - - . PLEASE CONTACT HITACHI  
TECHNICAL FOR FURTHER INFORMATION.

Model: C1421R 14" Remote

Subject: VERTICAL STAGE  
Fault: FAILURE OF FRAME OUTPUT IC I301  
SECTION: DFL VERTICAL OUTPUT  
CONDITION: 1  
Symptom: 316 OR 11X NO POWER/ VERTICAL  
DEFLECTION  
DEFECT: Q  
REPAIR: A REPLACE I301. CHANGE C309  
FROM 47uF 160V TO 22uF 160V. REPLACE  
WIRE LINK IN POSITION R420 WITH 2R2 1W



METAL OXIDE RESISTOR.  
ON ISSUE 11 AND 12 PCB'S REPLACE C313  
WITH 100nF 100V MYLAR CAPACITOR AND  
REPLACE R422 WITH A WIRE LINK  
PART NO. I301 DE1TDA8356  
C309 DECEYF2C220V  
R420 DERS01Y229J  
C313 DECMKM2A104J

Model: C1421T 34cm Text

Subject: VERTICAL STAGE  
Fault: FAILURE OF FRAME OUTPUT IC I301  
SECTION: DFL VERTICAL OUTPUT  
CONDITION: 1  
Symptom: 316 OR 11X NO POWER/ VERTICAL  
DEFLECTION

DEFECT: Q  
REPAIR: A REPLACE I301. CHANGE C309  
FROM 47uF 160V TO 22uF 160V. REPLACE  
WIRE LINK IN POSITION R420 WITH 2R2 1W  
METAL OXIDE RESISTOR.  
ON ISSUE 11 AND 12 PCB'S REPLACE C313  
WITH 100nF 100V MYLAR CAPACITOR AND  
REPLACE R422 WITH A WIRE LINK  
PART NO. I301 DE1TDA8356  
C309 DECEYF2C220V  
R420 DERS01Y229J  
C313 DECMKM2A104J

Model: C15P108 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: POOR / LOW CONTRAST  
CHECK PF01 FOR O/C

Model: C1709T COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: IC201 TA8690 SUPERCEDED  
REPLACE WITH PART NO. A777814.  
THIS KIT INCLUDES IC TYPE TA8690AN  
AND THE FOLLOWING PARTS, WHICH SHOULD  
BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

R532 AND C526 ARE NEW COMPONENTS AND  
SHOULD BE FITTED AS FOLLOWS. CONNECT  
R532 AND C526 IN SERIES. ATTACH THE

FREE END OF R532 TO THE JUNCTION OF  
X501 AND C517. ATTACH THE FREE END OF  
C526 TO THE JUNCTION OF C517 AND C519.

**Model: C1709T COLOUR TV**

**Subject:** AUDIO  
**Fault:** AUDIO DISTORTION VIA SCART SOCKET  
CHANGE R1406 TO 820 OHMS  
(PT. NO. J0700039M). R1406 IS BETWEEN  
Q1401 EMITTER AND CHASSIS. ADJUST  
R1421 AUDIO INPUT LEVEL TO EQUALISE  
SCART AND RF AUDIO LEVELS.

**Model: C1709T COLOUR TV**

**Subject:** PART NUMBER CHANGES  
**Fault:** IC201 TA8690 SUPERCEDED  
REPLACE WITH PART NO. A777814.  
THIS KIT INCLUDES IC TYPE TA8690AN  
AND THE FOLLOWING PARTS, WHICH SHOULD  
BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

R532 AND C526 ARE NEW COMPONENTS AND  
SHOULD BE FITTED AS FOLLOWS. CONNECT  
R532 AND C526 IN SERIES. ATTACH THE  
FREE END OF R532 TO THE JUNCTION OF  
X501 AND C517. ATTACH THE FREE END OF  
C526 TO THE JUNCTION OF C517 AND C519.

**Model: C1714T 41CM TELETXT**

**Subject:** POWER SUPPLY  
**Fault:** SET STUCK IN STANDBY  
**Symptom:** SET WILL NOT COME OUT OF THE  
STANDBY MODE.  
**Cause:** POOR REGULATION OF +5V SUPPLY  
TO MICRO PROCESSOR.  
**Cure:** CHECK +5V TO MICRO PROCESSOR, IT  
MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE  
ZD001 5.1V ZENER , PT NO T536201

**Model: C1714T 41CM TELETXT**

**Subject:** POWER SUPPLY  
**Fault:** STAYS ON IN STANDBY.  
**Symptom:** STAYS ON IN STANDBY.  
**Cause:** FAULTY ZENER DIODE.





Cure: CHECK/REPLACE ZD702A, 6. 2V.  
PT. NO. T536225.

Model: C1714T 41CM TELETEXT

Subject: POWER SUPPLY  
Fault: FAILURE OF TRANSISTOR BUT12AF.  
Symptom: FAILURE OF TRANSISTOR, BUT12AF  
Cause: HITACHI APPROVED DEVICE NOT USED.  
Cure: HITACHI APPROVED BUT12AF ONLY SHOULD BE USED. PT. NO. 2314791.  
A FURTHER IMPROVEMENT CAN BE EFFECTED BY CHANGING D907 TO TYPE MP606M PT. NO. T431123.

Model: C1714T 41CM TELETEXT

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PART NUMBER  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: A  
REPAIR: A PART NUMBER FOR L901 IS L210065

Model: C1714T 41CM TELETEXT

Subject: TUNING SELECTION  
Fault: SET STUCK IN STANDBY  
Symptom: SET WILL NOT COME OUT OF THE STANDBY MODE.  
Cause: POOR REGULATION OF +5V SUPPLY TO MICRO PROCESSOR.  
Cure: CHECK +5V TO MICRO PROCESSOR, IT MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE ZD001 5.1V ZENER , PT NO T536201

Model: C1714T 41CM TELETEXT

Subject: TUNING SELECTION  
Fault: NO ON SCREEN DISPLAY  
Symptom: NO ON SCREEN DISPLAY, (CHAN NO VOL/COL/ETC LEVELS  
Cause: O/C DIODE  
Cure: CHECK / REPLACE D703 / D704  
PART NUMBER J2348921M TYPE IN4531

Model: C1714T 41CM TELETEXT

Subject: TUNING SELECTION



Model: C1714T 41CM TELETEXT

Subject: HORIZONTAL STAGE  
Fault: PICTURE SHIFTS RIGHT-LINE FOLDOVER  
Symptom: THE PICTURE IS SHIFTED TO THE  
RIGHT WITH SOME LINE FOLDOVER FROM THE  
LEFT OF THE PICTURE. SOME MINOR ADJUST  
CAN BE ACHEIVED WITH HORIZONTAL SHIFT.  
Cause: LEAKY DIODE.  
Cure: CHECK / REPLACE D704 TYPE IN4531  
PART NUMBER : J2348921M

Model: C1714T 41CM TELETEXT

Subject: HORIZONTAL STAGE  
Fault: TRIPS IN TEXT/AV MODE-TZ MODEL ONLY  
Symptom: SET TRIPS TO STANDBY WHEN AV  
OR TELETEXT MODE ARE SELECTED. THIS  
MAY BE INTERMITTANT  
Cause: R716A MISSING-TZ VERSIONS ONLY  
Cure: CHECK/ FIT R716A IS FITTED THIS  
SHOULD BE 220K.  
\*\*THIS AFFECTS TZ VERSIONS ONLY\*\*

Model: C1714T 41CM TELETEXT

Subject: TELETEXT  
Fault: TRIPS IN TEXT/AV MODE-TZ MODEL ONLY  
Symptom: SET TRIPS TO STANDBY WHEN AV  
OR TELETEXT MODE ARE SELECTED. THIS  
MAY BE INTERMITTANT  
Cause: R716A MISSING-TZ VERSIONS ONLY  
Cure: CHECK/ FIT R716A IS FITTED THIS  
SHOULD BE 220K.  
\*\*THIS AFFECTS TZ VERSIONS ONLY\*\*

Model: C1714T 41CM TELETEXT

Subject: PART NUMBER CHANGES  
Fault: UPDATED I. C. 201 - TDA8362-N4  
Symptom: IC201 HAS BEEN CHANGED TO AN  
ISSUE 4 MASK.  
Cause: MASK CHANGE BY IC MANUFACTURER  
Cure: WHEN ORDERING THIS NEW VERSION  
OF IC201 USE PART NUMBER T900623. IF  
THIS IS TO REPLACE TYPE TDA8361, CHECK  
R523 IS 8K2 AND REPLACE AS NECESSARY.  
PART No 0700053.



Model: C1714T 41CM TELETXT

**Subject:** PART NUMBER CHANGES  
**Fault:** CHANGE OF VARIABLE RESISTORS  
**Symptom:** CHANGE OF VARIABLE RESISTORS  
**Cause:** CHANGE OF SUPPLIER  
**Cure:** NEW PART NUMBERS ARE:  
 VR701 PART NUMBER J0160215R  
 VR601 PART NUMBER J0160421R  
 VR951 PART NUMBER J0160211R

Model: C1714T 41CM TELETXT

**Subject:** PART NUMBER CHANGES  
**Fault:** CHANGE OF LINE DRIVER TRANSISTOR  
**Symptom:** CHANGE OF LINE DRIVER  
TRANSISTOR Q701.  
**Cause:** CHANGE OF SUPPLIER  
**Cure:** LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: C1714T 41CM TELETXT

**Subject: SERVICE INFORMATION**  
**Fault: WRONG H. T. ON CIRCUIT DIAGRAM**  
**THE H. T. VOLTAGE IS INCORRECTLY SHOWN**  
**AS 150V ON THE CIRCUIT DIAGRAM**  
**THE CORRECT VALUE SHOULD BE 106V**

Model: C1714TCK 17" TELETXT WITH CLOCK TIMER

**Subject:** PART NUMBER CHANGES  
**Fault:** CHANGE OF U001 PART NUMBER  
 SECTION: REM  
 CONDITION: 1  
**Symptom:** 185 T549012 DISCONTINUED  
 DEFECT: A  
 REPAIR: A NEW PART NUMBER FOR U001 IS  
 T549019

Model: C1714TE 41CM TELETXT CE MARKED

**Subject:** POWER SUPPLY  
**Fault:** PULSING FROM COLD  
**Symptom:** WHEN SET IS SWITCHED ON FROM COLD IT PULSES. AFTER SOME WHILE THE SET WILL COME ON.  
**Cause:** UNSTABLE 5V(D) RAIL  
**Cure:** THE FOLLOWING CHANGES SHOULD BE MADE TO THE POWER SUPPLY TO OVERCOME THIS CONDITION.

..... (CONT)  
 YOU WILL REQUIRE THE FOLLOWING PARTS



FOR THIS CHANGE:

BC548C, 1KΩ RESISTOR, 5V6 ZENER, 220μF  
10V CAPACITOR.

THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.

FIT THEM AS FOLLOWS:

..... CONT. .

1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.

2. FIT A 1KΩ RESISTOR IN PLACE OF R957

3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097

- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.

..... CONT. . .



**Model: C1714TE**                      **41CM TELETXT CE MARKED**

**Subject: POWER SUPPLY**

**Fault: PULSING FROM COLD**

4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE  
POSITIVE SIDE OF EACH COMPONENT TO THE  
JUNCTION OF R957 AND THE BASE OF THE  
NEW BC548C THAT YOU HAVE PREVIOUSLY  
FITTED, AND THE NEGATIVE TO A SUITABLE  
GROUND SUCH AS THE -VE CONNECTION OF  
C035.



**Model: C1714TE**                      **41CM TELETXT CE MARKED**

**Subject: POWER SUPPLY**

**Fault: SET DEAD.**

**Symptom: SET DEAD.**

**Cause: FAULTY ZENER & POTENTIOMETER.**

**Cure: CHECK/REPLACE ZD952 & VR951.**

ZENER PT. NO. IS 2344122M FOR 25" MODELS  
& PT. NO. IS 2344121M FOR 14", 17" & 21"  
MODELS.

POTENTIOMETER PT. NO. IS E311076.



**Model: C1714TE**                      **41CM TELETXT CE MARKED**

**Subject: POWER SUPPLY**

**Fault: CHANGE OF L901 PART NUMBER**

**SECTION: PSU**

**CONDITION: 1**

**Symptom: 185 RUNNING CHANGE**

**DEFECT: A**

**REPAIR: A PART NUMBER FOR L901 IS  
L210065**







# HITACHI

Fault: VERTICLE JITTER ON TELETEXT  
Symptom: A VERTICLE JITTER WHEN IN THE  
TELETEXT MODE  
Cause: TOLERANCES IN FRAME SYNC  
Cure: CHANGE C605 TO 4.7uF 50V  
PART NUMBER J0800012R

Model: C2011T 20" text television

Subject: TUNING SELECTION  
Fault: CHANGE OF MICRO PROCESSOR.  
Symptom: CHANGE OF MICRO PROCESSOR  
Cause: ADDITION OF FRENCH LANGUAGE OSD  
Cure: NEW MICRO PROCESSOR VERSION  
DW167MN05 IS INTERCHANGABLE WITH  
ORIGINAL DW167MN04.  
TYPE DW167MN05: PART No DE1DW167MN05

Model: C21P226 COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT TO STANDBY  
Symptom: SET INTERMITTANTLY GOES INTO  
STANDBY.  
Cause: RESISTORS VARY IN VALUE.  
Cure: CHECK / REPLACE THE FOLLOWING  
R719 220K 0.24W 1% TOL P/NO R252721  
R910 0.5 OHM 0.5W PART NO R000505  
R907 12 OHM 0.25W PART NO R112330  
R914 33 OHM 0.25W PART NO R313330

Model: C21P226 COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY PULSES AT SWITCH ON  
Symptom: SET PULSATES FROM SWITCH ON  
Cause: POWER SUPPLY NOT STARTING UP  
Cure: CHECK / REPLACE THE FOLLOWING  
R915 22R (21") 0.25W PART NO R212330  
R915 33R (25") 0.25W PART NO R313330  
C908 470uF 25V PART NUMBER 0800075  
D902 BYD33D PART NUMBER T431112

Model: C21P226 COLOUR TV

Subject: POWER SUPPLY  
Fault: Q702 FAILS AFTER A FEW HOURS  
Symptom: Q702 FAILS AFTER A FEW HOURS  
Cause: 12V RAIL LOW  
Cure: CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE





AND THAT L701 IS UPRIGHT.  
YOU SHOULD ALSO CHECK THE FOLLOWING  
FOR DRY JOINTS:  
C711, C712, C710, L703, R707, R724  
SEE TECHLINE BULLETIN NO 631 FOR  
SKETCH

Model: C21P226

COLOUR TV

Subject: TUNING SELECTION  
Fault: SET COMES ON IN STANDBY.  
Symptom: WHEN SWITCHED ON THE SET IS  
IN STANDBY. FROM STANDBY THE CONTROL  
LEVELS ARE ALL AT ZERO, AND TELETEXT  
IS INOPERATIVE. LEVELS NOT STORING  
Cause: OPEN CIRCUIT REGULATOR.  
Cure: CHECK / REPLACE IC2110 5V REG. ON  
TELETEXT PCB. PART NUMBER T900345

Model: C21P226

COLOUR TV

Subject: TUNING SELECTION  
Fault: PATTERNING / UNSTABLE I. F.  
Symptom: TUNING IS LOCKED BUT APPEARS  
TO BE UNSTABLE. INTERFERENCE ON SCREEN  
Cause: RESISTOR GONE HIGH  
Cure: CHECK / REPLACE R001 22K 0.25W  
PT NO. R242330

Model: C21P226

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: NO RASTER OR ALL ONE COLOUR  
Symptom: NO RASTER AT ALL, OR JUST ONE  
COLOUR VISIBLE OF PICTURE CONTENT.  
Cause: FAULTY I. C.  
Cure: REPLACE I. C. 501 TDA3566  
PART NUMBER T900491

Model: C21P226

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: SCREEN BLANK IN VCR SEARCH MODE  
Symptom: WHEN USING TWO HEAD VCR'S IN  
VISUAL SEARCH MODE THE SCREEN BLANKS  
Cause: BLANKING CUTS IN DUE TO LACK OF  
SYNC INFORMATION.  
Cure: REMOVE Q1507 & R1539. ADD TWO  
DIODES IN4148, P/NO T531053. CATHODES  
OF BOTH TO FREE END OF R1522. ONE ANODE  
TO EMITTER Q1509, ONE TO EMITTER Q1508



Model: C21P228

COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY PULSES AT SWITCH ON  
Symptom: SET PULSATES FROM SWITCH ON  
Cause: POWER SUPPLY NOT STARTING UP  
Cure: CHECK / REPLACE THE FOLLOWING  
R915 22R (21") 0.25W PART NO R212330  
R915 33R (25") 0.25W PART NO R313330  
C908 470uF 25V PART NUMBER 0800075  
D902 BYD33D PART NUMBER T431112



Model: C21P228

COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSES IN STANDBY  
Symptom: SET PULSES WHEN IN STANDBY  
MODE, OR FROM COLD SWITCH ON  
Cause: OVER VOLTS FEEDBACK FAULTY  
Cure: REPLACE THE FOLLOWING COMPONENTS  
R941, VR941, ZD941, OC941.



Model: C21P228

COLOUR TV

Subject: POWER SUPPLY  
Fault: Q702 FAILS AFTER A FEW HOURS  
Symptom: Q702 FAILS AFTER A FEW HOURS  
Cause: 12V RAIL LOW  
Cure: CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE



Model: C21P228

COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSES FROM COLD SWITCH ON  
Symptom: WHEN SWITCHED ON FROM COLD  
THE SET PULSES SEVERAL TIMES BEFORE  
COMING ON.  
Cause: CAPACITORS DRYING OUT.  
Cure: CHECK / REPLACE C908 470uF 25V  
PART NUMBER J0800075, ALSO CHECK D907  
BYV10-40 PART NUMBER T531056 FOR OPEN  
CIRCUIT.



Model: C21P228

COLOUR TV

Subject: POWER SUPPLY  
Fault: PULSATING POWER SUPPLY.  
Symptom: SET DEAD, POWER SUPPLY PULSES  
APPEARING TO TRY TO START UP.  
Cause: OPEN CIRCUIT RESISTOR.  
Cure: CHECK / REPLACE R944 47K 1W  
PART NUMBER R447542

Model: C21P228 COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY TRIPPING.  
Symptom: POWER SUPPLY TRIPPING.  
Cause: FAULTY REGULATOR, LOADING SUPPLY  
Cure: CHECK/REPLACE IC932.  
PT. NO. T900326.

Model: C21P228 COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.  
Cause: FAULTY DIODE.  
Cure: CHECK/REPLACE D907 LEAKY.  
PT. NO. T531056.

Model: C21P228 COLOUR TV

Subject: TUNING SELECTION  
Fault: SET DEAD DUE TO FAILURE OF Q702  
Cause: INTERACTION BETWEEN L701 & L703  
Cure: ENSURE REPLACEMENT OF Q702 WITH  
HITACHI SPARE PART NUMBER T636041.  
EASE L703 AWAY FROM L701 BY MOVING IT  
TOWARD R707. IT SHOULD THEN BE SECURED  
IN PLACE USING HOT MELT. FURTHER MORE  
ENSURE THAT L703 DOES NOT CROSS THE  
THICK BARRIER LINE MARKED ON THE PCB  
AND THAT L701 IS UPRIGHT.  
YOU SHOULD ALSO CHECK THE FOLLOWING  
FOR DRY JOINTS:  
C711, C712, C710, L703, R707, R724  
SEE TECHLINE BULLETIN NO 631 FOR  
SKETCH

Model: C21P228 COLOUR TV

Subject: TUNING SELECTION  
Fault: NO PICTURE/ SOUND - STUCK IN AV  
Symptom: NO PICTURE OR SOUND, BLANK  
RASTER.  
Cause: SET LOCKED IN A. V. MODE  
Cure: REPLACE IC1501, & IC 1502 AS A  
PAIR, TO ENSURE NO CORRUPT DATA IS  
TRANSFERED FROM ORIGINAL I. C. 'S

Model: C21P228 COLOUR TV

Subject: TUNING SELECTION



Model: C21P228

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: Q702 FAILS AFTER A FEW HOURS  
Symptom: Q702 FAILS AFTER A FEW HOURS  
Cause: 12V RAIL LOW  
Cure: CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE

Model: C21P228

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: SET DEAD DUE TO FAILURE OF Q702  
Symptom: SET DEAD, L/OP TRANSISTOR  
Q702 HAS FAILED.  
Cause: INTERACTION BETWEEN L701, & L703  
Cure: REPLACE Q702 PT/No T636041 WITH  
HITACHI PARTS ONLY.  
EASE L703 AWAY FROM L701 TOWARD R707  
AND SECURE WITH HOT MELT. CHECK FOR DRY  
JOINTS, C710/1/2 L703, R707, R724

Model: C21P228

COLOUR TV

Subject: TELETEXT  
Fault: REPLACEMENT TEXT PCB NOT WORKING  
THE LATER PCB HAS SHORTER SOCKETS THAN  
THE ORIGINAL PCB. PINS 7, 8, 9 AND 10  
OF PL2102 SHOULD BE LINKED. PIN 10  
IS THE PIN NEAREST THE REAR OF THE  
CTV.  
IF SEVERE SMEARING OCCURS IN TEXT  
MODE, THREE 750HM RESISTORS NEED TO BE  
FITTED TO THE RGB OUTPUTS OF PL2102 TO  
CHASSIS EARTH ON MAIN PCB.

Model: C21P818

COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY SHUTS DOWN/PULSING  
Symptom: SET CUTS OUT INTERMITTANTLY, OR  
PULSES FROM COLD  
Cause: OVER VOLTS UNIT CONDUCTING.  
Cure: CHECK/REPLACE OC941, Q941, ZD941  
(REPLACE WITH HITACHI PARTS ONLY).

Model: C21P818

COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT TO STANDBY  
Symptom: SET INTERMITTANTLY GOES INTO  
STANDBY.  
Cause: RESISTORS VARY IN VALUE.













Cure: CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE

Model: C21P819 COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSES FROM COLD SWITCH ON  
Symptom: WHEN SWITCHED ON FROM COLD  
THE SET PULSES SEVERAL TIMES BEFORE  
COMING ON.  
Cause: CAPACITORS DRYING OUT.  
Cure: CHECK / REPLACE C908 470uF 25V  
PART NUMBER J0800075, ALSO CHECK D907  
BYV10-40 PART NUMBER T531056 FOR OPEN  
CIRCUIT.

Model: C21P819 COLOUR TV

Subject: POWER SUPPLY  
Fault: PULSATING POWER SUPPLY.  
Symptom: SET DEAD, POWER SUPPLY PULSES  
APPEARING TO TRY TO START UP.  
Cause: OPEN CIRCUIT RESISTOR.  
Cure: CHECK / REPLACE R944 47K 1W  
PART NUMBER R447542

Model: C21P819 COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY TRIPPING.  
Symptom: POWER SUPPLY TRIPPING.  
Cause: FAULTY REGULATOR, LOADING SUPPLY  
Cure: CHECK/REPLACE IC932.  
PT. NO. T900326.

Model: C21P819 COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.  
Cause: FAULTY DIODE.  
Cure: CHECK/REPLACE D907 LEAKY.  
PT. NO. T531056.

Model: C21P819 COLOUR TV

Subject: TUNING SELECTION  
Fault: SET DEAD DUE TO FAILURE OF Q702  
Cause: INTERACTION BETWEEN L701 & L703  
Cure: ENSURE REPLACEMENT OF Q702 WITH  
HITACHI SPARE PART NUMBER T636041.  
EASE L703 AWAY FROM L701 BY MOVING IT

TOWARD R707. IT SHOULD THEN BE SECURED  
IN PLACE USING HOT MELT. FURTHER MORE  
ENSURE THAT L703 DOES NOT CROSS THE  
THICK BARRIER LINE MARKED ON THE PCB  
AND THAT L701 IS UPRIGHT.  
YOU SHOULD ALSO CHECK THE FOLLOWING

Model: C21P819

COLOUR TV

Subject: TUNING SELECTION

Fault: SET DEAD DUE TO FAILURE OF Q702  
FOR DRY JOINTS:

C711, C712, C710, L703, R707, R724  
SEE TECHLINE BULLETIN NO 631 FOR  
SKETCH

Model: C21P819

COLOUR TV

Subject: TUNING SELECTION

Fault: NO PICTURE/ SOUND - STUCK IN AV

Symptom: NO PICTURE OR SOUND, BLANK  
RASTER.

Cause: SET LOCKED IN A. V. MODE

Cure: REPLACE IC1501, & IC 1502 AS A  
PAIR, TO ENSURE NO CORRUPT DATA IS  
TRANSFERED FROM ORIGINAL I. C. 'S

Model: C21P819

COLOUR TV

Subject: TUNING SELECTION

Fault: SET COMES ON IN STANDBY.

Symptom: WHEN SWITCHED ON THE SET IS  
IN STANDBY. FROM STANDBY THE CONTROL  
LEVELS ARE ALL AT ZERO, AND TELETEXT  
IS INOPERATIVE. LEVELS NOT STORING

Cause: OPEN CIRCUIT REGULATOR.

Cure: CHECK / REPLACE IC2110 5V REG. ON  
TELETEXT PCB. PART NUMBER T900345

Model: C21P819

COLOUR TV

Subject: TUNER/IF

Fault: PATTERNING AFTER TUNER REPLACEMENT  
SECTION: TUN  
CONDITION: 1

Symptom: 345 LINES ON PICTURE

DEFECT: Y

REPAIR: A REPLACE WIRE LINK IN VT  
LINE TO TUNER WITH A 47K RESISTOR

**Model: C21P819 COLOUR TV**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** RESIDUAL SPOT ON SCREEN IN STANDBY  
CHANGE R1541 FROM 10K TO 1K  
CHANGE R1562 FROM 10K TO 1K8



**Model: C21P819 COLOUR TV**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** FLASHING BLUE  
**Symptom:** INTERMITTANT FLASHING BLUE  
**Cause:** CORRUPTED SANDCASTLE PULSE  
**Cure:** ZD1502 GOES LEAKY.



**Model: C21P819 COLOUR TV**

**Subject:** AUDIO  
**Fault:** NO SOUND WHEN SWITCHED TO NICAM  
R4063 4R70HM 0/C



**Model: C21P819 COLOUR TV**

**Subject:** AUDIO  
**Fault:** ONE OR BOTH CHANNELS NOT WORKING  
CHECK IC451. CHANGE IF NECESSARY.  
CHECK THAT AN 8K2 RESISTOR IS ADDED IN  
SERIES WITH BOTH C4055 AND C4056 ON  
NICAM PWB ASSEMBLY.  
THESE RESISTORS HAVE BEEN ADDED IN  
PRODUCTION AFTER SERIAL NO U1J.....



**Model: C21P819 COLOUR TV**

**Subject:** AUDIO  
**Fault:** CRACKLE ON NICAM WHEN WARM  
**Symptom:** CRACKLE ON NICAM WHEN WARM  
**Cause:** FAULTY VARICAP DIODE IC(CD) 4007  
**Cure:** CHECK/REPLACE IC(CD) 4007  
PT. NO. T532016.



**Model: C21P819 COLOUR TV**

**Subject:** VERTICAL STAGE  
**Fault:** POOR SPOT SUPPRESSION  
**Symptom:** AFTERGLOW ON SCREEN WHEN SET  
IS SWITCHED OFF.  
**Cause:** POOR SPOT SUPPRESSION.  
**Cure:** CHANGE C720 TO 47uF







R904 NEW PART NO: 0700042 1K2  
R907 NEW PART NO: 0700049 4K7  
R908 NEW PART NO 0700029 150R

Model: C2114R COLOUR TV

Subject: POWER SUPPLY  
Fault: SOUND ON VISION  
R910 NEW PART NO: J0114014M 10R  
C909 NEW PART NO: 0880035 2N2  
L903 NEW PART NO: J2125593 470UH

Model: C2114R COLOUR TV

Subject: POWER SUPPLY  
Fault: SET STUCK IN STANDBY  
Symptom: SET WILL NOT COME OUT OF THE  
STANDBY MODE.  
Cause: POOR REGULATION OF +5V SUPPLY  
TO MICRO PROCESSOR.  
Cure: CHECK +5V TO MICRO PROCESSOR, IT  
MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE  
ZD001 5.1V ZENER , PT NO T536201

Model: C2114R COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET - POWER SUPPLY SHUT DOWN.  
Symptom: POWER SUPPLY SHUT DOWN. NO  
9V SUPPLY HENCE NO 8V SUPPLY TO IC201.  
Cause: S/C FRAME IC, IC601.  
Cure: CHECK/REPLACE IC601, PT. NO. 2003951

Model: C2114R COLOUR TV

Subject: POWER SUPPLY  
Fault: STAYS ON IN STANDBY.  
Symptom: STAYS ON IN STANDBY.  
Cause: FAULTY ZENER DIODE.  
Cure: CHECK/REPLACE ZD702A, 6.2V.  
PT. NO. T536225.

Model: C2114R COLOUR TV

Subject: POWER SUPPLY  
Fault: SET TRIPS THEN COMES ON.  
Symptom: SET TRIPS THEN COMES BACK ON.  
Cause: TUBE BASE SOCKET ARCING.  
Cure: REPLACE TUBE BASE SOCKET.  
PT. NO. J2698351.



Model : C2114R COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: FAILURE OF TRANSISTOR BUT12AF.**  
**Symptom: FAILURE OF TRANSISTOR, BUT12AF**  
**Cause: HITACHI APPROVED DEVICE NOT**  
**USED.**  
**Cure: HITACHI APPROVED BUT12AF ONLY**  
**SHOULD BE USED. PT. NO. 2314791.**  
**A FURTHER IMPROVEMENT CAN BE EFFECTED**  
**BY CHANGING D907 TO TYPE MP606M**  
**PT. NO. T431123.**



Model : C2114R COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** SET STUCK IN STANDBY  
**Symptom:** SET WILL NOT COME OUT OF THE STANDBY MODE.  
**Cause:** POOR REGULATION OF +5V SUPPLY TO MICRO PROCESSOR.  
**Cure:** CHECK +5V TO MICRO PROCESSOR, IT MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE ZD001 5.1V ZENER , PT NO T536201



Model : C2114R COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** HUM ON PICTURE  
**Symptom:** HUM BAR ON PICTURE WHEN SET  
IS FIRST SWITCHED ON FROM NEW.  
**Cause:** IF THE SET IS STORED IN COLD OR  
DAMP CONDITIONS IT MAY CAUSE SOME HUM  
INTERFERENCE TO TUNING.  
**Cure:** CHANGE CAPACITOR C102 TO 220nF  
PART NUMBER 0880062,



Model : C2114R COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** TUNING NOT STOPPING.  
**Symptom:** TUNING NOT STOPPING.  
**Cause:** DRY JOINT.  
**Cure:** RE-SOLDER DRY JOINT ON AFC COIL,  
 L202. PT. NO. 2145877.



Model: C2114R COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** COLOUR LOSS WITH MACRO VIDEO TAPES  
**Symptom:** COLOUR LOSS ON HIGH CHROMA  
 SATURATION, THIN DARK AREA AT BOTTOM OF  
 PICTURE WHEN USING MACRO TAPES.



**Cause:** MACRO PROTECTION.  
**Cure:** REPLACE I. C. 201 PT/No T900623  
 TYPE TDA8362-N4. IF ORIGINAL IC201 IS  
 TYPE TDA8361, CHECK R523 IS 8K2 AND  
 FIT AS NECESSARY, PART No 0700053

Model: C2114R COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** NO COLOUR.  
**Symptom:** NO COLOUR.  
**Cause:** FAULTY CAPACITOR.  
**Cure:** CHECK/REPLACE C503, 100NF, 50V.  
**PT. NO.** 0880057R

Model: C2114R COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** VERTICLE JITTER  
**Symptom:** A NOTICEABLE VERTICLE FRAME  
JITTER.  
**Cause:** CAPACITOR TOLLERANCES.  
**Cure:** CHANGE C604 FROM 270pF TO 100pF  
PART No 0890074

Model: C2114R COLOUR TV

**Subject: VERTICAL STAGE**  
**Fault: FAILURE OF IC601**  
**Symptom: REPEATED FAILURE OF IC601**  
**Cause: STATIC DISCHARGE FROM CRT**  
**Cure: FIT 10nF 50V CAPACITOR ACROSS**  
**FRAME O/P PLUG E701 FIT CAPACITOR ON**  
**PRINT SIDE OF PCB AND SECURE WITH HOT**  
**MELT. CAPACITOR PART NO. 0880044**  
**REMOVE R613 FROM COMPONENT SIDE AND**  
**FIT ON PRINT SIDE BETWEEN PIN 1 OF IC**  
**601 AND JUNCTION OF R612 AND HOLE**  
**VACATED BY R613.**

Model: C2114R COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** REPEATED FAILURE OF FRAME O/P IC601  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
**Symptom:** 316  
DEFECT: Q  
REPAIR: A REPLACE IC 601. CONNECT TWO  
33V ZENER DIODES IN SERIES. CONNECT THE  
ANODE TO PIN 1 OF IC601 AND CATHODE TO  
PIN 2 OF IC601. SECURE WITH HOT MELT.  
PART # ZENER DIODE PACK A531213

Model: C2114R COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: PICTURE SHIFTS RIGHT-LINE FOLDOVER  
Symptom: THE PICTURE IS SHIFTED TO THE  
RIGHT WITH SOME LINE FOLDOVER FROM THE  
LEFT OF THE PICTURE. SOME MINOR ADJUST  
CAN BE ACHEIVED WITH HORIZONTAL SHIFT.  
Cause: LEAKY DIODE.  
Cure: CHECK / REPLACE D704 TYPE IN4531  
PART NUMBER : J2348921M

Model: C2114R COLOUR TV

Subject: SERVICE INFORMATION  
Fault: OSD PROMPT NA APPEARS  
Symptom: WHEN SWITCHED ON THE O. S. D.  
SHOWS THE PROMPT N. A.  
Cause: THE SET IS IN FACTORY SET UP  
MODE.  
Cure: ONCE SWITCHED ON, PUT THE SET IN  
THE STANDBY MODE WITH THE REMOTE HAND  
SET. WHEN SWITHED ON AGAIN THE PROMPT  
WILL BE REMOVED.

Model: C2114R COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: UPDATED I. C. 201 - TDA8362-N4  
Symptom: IC201 HAS BEEN CHANGED TO AN  
ISSUE 4 MASK.  
Cause: MASK CHANGE BY IC MANUFACTURER  
Cure: WHEN ORDERING THIS NEW VERSION  
OF IC201 USE PART NUMBER T900623. IF  
THIS IS TO REPLACE TYPE TDA8361, CHECK  
R523 IS 8K2 AND REPLACE AS NECESSARY.  
PART No 0700053.

Model: C2114RE COLOUR TELEVISION

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.  
Cause: FAULTY ZENER & POTENTIOMETER.  
Cure: CHECK/REPLACE ZD952 & VR951.  
ZENER PT. NO. IS 2344122M FOR 25" MODELS  
& PT. NO. IS 2344121M FOR 14", 17" & 21"  
MODELS.  
POTENTIOMETER PT. NO. IS E311076.

**Model: C2114RE COLOUR TELEVISION**

**Subject:** POWER SUPPLY  
**Fault:** CHANGE OF L901 PART NUMBER  
**SECTION:** PSU  
**CONDITION:** 1  
**Symptom:** 185 RUNNING CHANGE  
**DEFECT:** A  
**REPAIR:** A PART NUMBER FOR L901 IS  
L210065

**Model: C2114RE COLOUR TELEVISION**

**Subject:** TUNING SELECTION  
**Fault:** NO ON SCREEN DISPLAY  
**Symptom:** NO ON SCREEN DISPLAY, (CHAN NO  
VOL/COL/ETC LEVELS  
**Cause:** O/C DIODE  
**Cure:** CHECK / REPLACE D703 / D704  
PART NUMBER J2348921M TYPE IN4531

**Model: C2114RE COLOUR TELEVISION**

**Subject:** TUNING SELECTION  
**Fault:** SET WILL NOT ENTER TUNING MODE  
**Symptom:** SET WILL NOT ENTER THE TUNING  
MENU.  
**Cause:** SET IS IN HOTEL MODE:  
**Cure:** TO EXIT HOTEL MODE PRESS BUTTONS  
4, 4, STATUS, MUTE, TV. SELECT HOTEL MODE  
USING CURSOR BUTTONS(REV/EXP). CHANGE  
STATUS USING VOL+/- . GO TO STANDBY  
TO STORE.

**Model: C2114RE COLOUR TELEVISION**

**Subject:** TUNER/IF  
**Fault:** CHANGE OF IC201 MASK  
**Symptom:** CHANGE OF IC201  
**Cause:** IMPROVEMENT  
**Cure:** WHEN REPLACING IC201 FROM TYPE  
TDA8361-N3 TO TDA8361-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
PART NUMBERS. IC201 T900623  
R523 J070053M

**Model: C2114RE COLOUR TELEVISION**

**Subject:** TUNER/IF  
**Fault:** POOR PLAYBACK OF MACROVISION TAPES  
**Symptom:** POOR PLAYBACK OF MACRO VISION  
TAPES.  
**Cause:** CAPACITOR C104 AND C205 VALUES

Cure: TO CURE SKEW CHANGE C205 TO 4u7  
50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R

Model: C2114RE COLOUR TELEVISION

Subject: Y/C SIGNAL PROCESSING  
Fault: BUZZ ON SPEAKERS AND NO PICTURE.  
Symptom: LOW FREQUENCY BUZZ ON  
SPEAKERS AND NO PICTURE.  
Cause: DAMAGED PRINT.  
Cure: RE-MAKE PRINT BETWEEN 5V RAIL  
AND L2101. THE BREAK IS ADJACENT TO  
THE TUNER LEG.

Model: C2114RE COLOUR TELEVISION

Subject: AUDIO  
Fault: BUZZ ON SPEAKERS AND NO PICTURE.  
Symptom: LOW FREQUENCY BUZZ ON  
SPEAKERS AND NO PICTURE.  
Cause: DAMAGED PRINT.  
Cure: RE-MAKE PRINT BETWEEN 5V RAIL  
AND L2101. THE BREAK IS ADJACENT TO  
THE TUNER LEG.

Model: C2114RE COLOUR TELEVISION

Subject: VERTICAL STAGE  
Fault: LOSS OF SYNC.  
Symptom: LOSS OF LINE & FIELD SYNC.  
Cause: FAULTY IC.  
Cure: CHECK/REPLACE IC201.  
PT. NO. T900567.

Model: C2114RE COLOUR TELEVISION

Subject: HORIZONTAL STAGE  
Fault: NO ON SCREEN DISPLAY  
Symptom: NO ON SCREEN DISPLAY, (CHAN NO  
VOL/COL/ETC LEVELS  
Cause: O/C DIODE  
Cure: CHECK / REPLACE D703 / D704  
PART NUMBER J2348921M TYPE IN4531

Model: C2114RE COLOUR TELEVISION

Subject: HORIZONTAL STAGE  
Fault: LOSS OF SYNC.

# HITACHI

Symptom: LOSS OF LINE & FIELD SYNC.  
Cause: FAULTY I.C.  
Cure: CHECK/REPLACE IC201.  
PT. NO. T900567.

Model: C2114RE COLOUR TELEVISION

Subject: SERVICE INFORMATION  
Fault: HOTEL MODE  
Symptom: USE OF HOTEL MODE.  
Cause: SET STUCK IN HOTEL MODE, OR THE  
HOTEL MODE NEEDS TO BE ACTIVATED  
Cure: IF USING REMOTE CONTROL TYPE  
CLE876H ENTER THE SERVICE MODE BY THE  
BUTTON SEQUENCE 4, 4, STATUS, MUTE, TV.  
IF USING REMOTE CONTROL TYPE CLE922A  
THEN PRESS 4, 4, RECALL, MUTE, TV

Model: C2114RE COLOUR TELEVISION

Subject: SERVICE INFORMATION  
Fault: HOTEL MODE  
SELECT THE HOTEL MODE USING THE CURSOR  
UP / DOWN BUTTONS (REV/EXP) AND CHANGE  
THE STATUS BY USING THE VOL +/- BUTTON  
GO TO STANDBY TO STORE YOUR SETTINGS.

Model: C2114RE COLOUR TELEVISION

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: C2114RE COLOUR TELEVISION

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: C2114T COLOUR TV

Subject: POWER SUPPLY

**Fault:** SOUND ON VISION

IT IS POSSIBLE THAT SHOULD THE MAINS  
SUPPLY VOLTAGE DROP, SOUND ON VISION  
MAY OCCUR. SHOULD THIS HAPPEN THEN THE  
FOLLOWING CHANGES SHOULD BE MADE

R902 NEW PART NO: 0110229 220R

R903 NEW PART NO: 0110225 150R

R904 NEW PART NO: 0700042 1K2

R907 NEW PART NO: 0700049 4K7

R908 NEW PART NO 0700029 150R

R910 NEW PART NO: J0114014M 10R

C909 NEW PART NO: 0880035 2N2

L903 NEW PART NO: J2125593 470UH



**Model:** C2114T

**COLOUR TV**

**Subject:** POWER SUPPLY

**Fault:** SET STUCK IN STANDBY

**Symptom:** SET WILL NOT COME OUT OF THE  
STANDBY MODE.

**Cause:** POOR REGULATION OF +5V SUPPLY  
TO MICRO PROCESSOR.

**Cure:** CHECK +5V TO MICRO PROCESSOR, IT  
MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE  
ZD001 5.1V ZENER , PT NO T536201



**Model:** C2114T

**COLOUR TV**

**Subject:** POWER SUPPLY

**Fault:** DEAD SET - POWER SUPPLY SHUT DOWN.

**Symptom:** POWER SUPPLY SHUT DOWN. NO  
9V SUPPLY HENCE NO 8V SUPPLY TO IC201.

**Cause:** S/C FRAME IC, IC601.

**Cure:** CHECK/REPLACE IC601, PT. NO. 2003951



**Model:** C2114T

**COLOUR TV**

**Subject:** POWER SUPPLY

**Fault:** STAYS ON IN STANDBY.

**Symptom:** STAYS ON IN STANDBY.

**Cause:** FAULTY ZENER DIODE.

**Cure:** CHECK/REPLACE ZD702A, 6.2V.  
PT. NO. T536225.



**Model:** C2114T

**COLOUR TV**

**Subject:** POWER SUPPLY

**Fault:** SET TRIPS THEN COMES ON.

**Symptom:** SET TRIPS THEN COMES BACK ON.

**Cause:** TUBE BASE SOCKET ARCING.

**Cure:** REPLACE TUBE BASE SOCKET.  
PT. NO. J2698351.



Model: C2114T COLOUR TV

Subject: POWER SUPPLY  
Fault: FAILURE OF TRANSISTOR BUT12AF.  
Symptom: FAILURE OF TRANSISTOR, BUT12AF  
Cause: HITACHI APPROVED DEVICE NOT USED.  
Cure: HITACHI APPROVED BUT12AF ONLY SHOULD BE USED. PT. NO. 2314791. A FURTHER IMPROVEMENT CAN BE EFFECTED BY CHANGING D907 TO TYPE MP606M PT. NO. T431123.

Model: C2114T COLOUR TV

Subject: TUNING SELECTION  
Fault: SET STUCK IN STANDBY  
Symptom: SET WILL NOT COME OUT OF THE STANDBY MODE.  
Cause: POOR REGULATION OF +5V SUPPLY TO MICRO PROCESSOR.  
Cure: CHECK +5V TO MICRO PROCESSOR, IT MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE ZD001 5.1V ZENER , PT NO T536201

Model: C2114T COLOUR TV

Subject: TUNING SELECTION  
Fault: INTERMITTANT MEMORY LOSS  
Symptom: INTERMITTANTLY THE SET LOSES MEMORY.  
Cause: CORRUPTION TO MICRO PROCESSOR.  
Cure: REPLACE IC001 WITH THE NEW MASK VERSION. PT/NO A523217

Model: C2114T COLOUR TV

Subject: TUNING SELECTION  
Fault: NO PICTURE, RED"NA"ON SCREEN.  
Symptom: NO PICTURE, ALL SETTINGS FOR COL, BRIGHT, CONTRAST AT ZERO, AND OSD PROMT SHOWS RED"NA"IN TOP L. H. CORNER  
Cause: RESISTORS OPEN CIRCUIT.  
Cure: CHECK/REPLACE R100 &R101. THESE MAY BE FOUND IN HOLES LEFT VACANT BY IC012 NOT FITTED IN THIS SET. BOTH ARE 10K IN VALUE.

Model: C2114T COLOUR TV

Subject: TUNING SELECTION

# HITACHI

Fault: BLANK RASTER, NO SOUND  
Symptom: BLANK RASTER, NO SOUND, ALL  
PICTURE CONTROLS AT ZERO.  
Cause: OPEN CIRCUIT RESISTOR  
Cure: CHECK / REPLACE R068 10K  
PT/No 0187089

Model: C2114T COLOUR TV

Subject: TUNING SELECTION  
Fault: HUM ON PICTURE  
Symptom: HUM BAR ON PICTURE WHEN SET  
IS FIRST SWITCHED ON FROM NEW.  
Cause: IF THE SET IS STORED IN COLD OR  
DAMP CONDITIONS IT MAY CAUSE SOME HUM  
INTERFERENCE TO TUNING.  
Cure: CHANGE CAPACITOR C102 TO 220nF  
PART NUMBER 0880062,

Model: C2114T COLOUR TV

Subject: TUNING SELECTION  
Fault: NO REMOTE OP, LOSS OF AUDIO AFT 2HR  
Symptom: AFTER THE SET HAS BEEN ON FOR  
SOME TIME NO REMOTE OPERATION CAN BE  
MADE. SOUND LEVELS MAY ALSO STICK AT  
MINIMUM OR MAXIMUM  
Cause: MICRO PROCESSOR LOCK UP.  
Cure: REPLACE I. C. 001 PART No A523217

Model: C2114T COLOUR TV

Subject: TUNING SELECTION  
Fault: TUNING NOT STOPPING.  
Symptom: TUNING NOT STOPPING.  
Cause: DRY JOINT.  
Cure: RE-SOLDER DRY JOINT ON AFC COIL,  
L202. PT. NO. 2145877.

Model: C2114T COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR LOSS WITH MACRO VIDEO TAPES  
Symptom: COLOUR LOSS ON HIGH CHROMA  
SATURATION, THIN DARK AREA AT BOTTOM OF  
PICTURE WHEN USING MACRO TAPES.  
Cause: MACRO PROTECTION.  
Cure: REPLACE I. C. 201 PT/No T900623  
TYPE TDA8362-N4. IF ORIGINAL IC201 IS  
TYPE TDA8361, CHECK R523 IS 8K2 AND  
FIT AS NECESSARY, PART No 0700053



# HITACHI

33V ZENER DIODES IN SERIES. CONNECT THE  
ANODE TO PIN 1 OF IC601 AND CATHODE TO  
PIN 2 OF IC601. SECURE WITH HOT MELT.  
PART # ZENER DIODE PACK A531213  
IC 601 J2003951

Model: C2114T COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: PICTURE SHIFTS RIGHT-LINE FOLDOVER  
Symptom: THE PICTURE IS SHIFTED TO THE  
RIGHT WITH SOME LINE FOLDOVER FROM THE  
LEFT OF THE PICTURE. SOME MINOR ADJUST  
CAN BE ACHEIVED WITH HORIZONTAL SHIFT.  
Cause: LEAKY DIODE.  
Cure: CHECK / REPLACE D704 TYPE IN4531  
PART NUMBER : J2348921M

Model: C2114T COLOUR TV

Subject: TELETEXT  
Fault: LOSS OF TELETEXT SYNC  
Symptom: LOSS OF SYNC ON TELETEXT. THE  
TEXT WILL DISAPEAR LEAVING LINES OR  
DOTS RUNNING ACROS THE SCREEN.  
Cause: NOISE ON SIGNAL NOT FILTERED.  
Cure: CHANGE THE FOLLOWING COMPONENTS  
C2234 FROM 10PF TO 8. 2PF PT NO C802182  
L2231 FROM 4. 7UH TO 3. 3UH PN J2123096M

Model: C2114T COLOUR TV

Subject: SERVICE INFORMATION  
Fault: CRT REPLACEMENT  
THE ORIGINAL HITACHI TYPE CRT  
(PT NO 2470601) A51JSY61X21 HAS  
BEEN REPLACED BY A PHILIPS CRT  
TYPE A51EAL55X11 (PT NO T154010)  
WHEN FITTING THE PHILIPS CRT IN PLACE  
OF THE HITACHI ORIGINAL YOU WILL NEED  
TO CARRY OUT THE FOLLOWING CHANGES

Model: C2114T COLOUR TV

Subject: SERVICE INFORMATION  
Fault: CRT REPLACEMENT  
C2118/9T REQUIRES L702 TO BE 56 uH  
(PART NUMBER 2122093)  
C2164TN REQUIRES L704 TO BE 56 MICRO H  
(PART NUMBER 2122093)  
C2114T REQUIRES L802 TO BE 56 MICRO H  
(PART NUMBER 2122093)



F B L L B F  
SCAN COIL CONNECTIONS  
L = LINE F = FRAME B = BLANK

Model: C2114T COLOUR TV

Subject: SERVICE INFORMATION  
Fault: OSD PROMPT NA APPEARS  
Symptom: WHEN SWITCHED ON THE O. S. D.  
SHOWS THE PROMPT N. A.  
Cause: THE SET IS IN FACTORY SET UP  
MODE.  
Cure: ONCE SWITCHED ON, PUT THE SET IN  
THE STANDBY MODE WITH THE REMOTE HAND  
SET. WHEN SWITCHED ON AGAIN THE PROMPT  
WILL BE REMOVED.

Model: C2114T COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: UPDATED I. C. 201 - TDA8362-N4  
Symptom: IC201 HAS BEEN CHANGED TO AN  
ISSUE 4 MASK.  
Cause: MASK CHANGE BY IC MANUFACTURER  
Cure: WHEN ORDERING THIS NEW VERSION  
OF IC201 USE PART NUMBER T900623. IF  
THIS IS TO REPLACE TYPE TDA8361, CHECK  
R523 IS 8K2 AND REPLACE AS NECESSARY.  
PART No 0700053.

Model: C2114T COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: PART NUMBER FOR STAND INSERTS.  
Symptom: PART NUMBER FOR STAND INSERTS  
IS MISSING FROM THE SERVICE MANUAL.  
Cause: PRINTING ERROR.  
Cure: PART NUMBER IS G878021.

Model: C2114TE Colour television

Subject: POWER SUPPLY  
Fault: PULSING FROM COLD  
Symptom: WHEN SET IS SWITCHED ON FROM  
COLD IT PULSES. AFTER SOME WHILE THE  
SET WILL COME ON.  
Cause: UNSTABLE 5V(D) RAIL  
Cure: THE FOLLOWING CHANGES SHOULD BE  
MADE TO THE POWER SUPPLY TO OVERCOME  
THIS CONDITION.  
..... (CONT)  
YOU WILL REQUIRE THE FOLLOWING PARTS  
FOR THIS CHANGE:

BC548C, 1KΩ RESISTOR, 5V6 ZENER, 220μF  
10V CAPACITOR.  
THESE PARTS ARE AVAILABLE IN TWO PACKS  
PART NUMBERS A525646 AND A525647.  
FIT THEM AS FOLLOWS:

..... CONT. .

1. REMOVE THE FOLLOWING : R097, R957,  
ZD001, C005.
2. FIT A 1KΩ RESISTOR IN PLACE OF R957
3. FIT A BC548C WITH THE EMITTER AND  
BASE USING THE HOLES VACATED BY R097  
- THE BASE SHOULD LOCATE IN THE HOLE  
AT THE JUNCTION WITH R957.

..... CONT. . .



**Model: C2114TE**                      **Colour television**

**Subject: POWER SUPPLY**

**Fault: PULSING FROM COLD**

4. CONNECT THE 220V 10V CAPACITOR AND  
THE 5V6 ZENNER IN PARALLEL WITH THE  
POSITIVE SIDE OF EACH COMPONENT TO THE  
JUNCTION OF R957 AND THE BASE OF THE  
NEW BC548C THAT YOU HAVE PREVIOUSLY  
FITTED, AND THE NEGATIVE TO A SUITABLE  
GROUND SUCH AS THE -VE CONNECTION OF  
C035.



**Model: C2114TE**                      **Colour television**

**Subject: POWER SUPPLY**

**Fault: SET DEAD.**

**Symptom: SET DEAD.**

**Cause: FAULTY ZENER & POTENTIOMETER.**

**Cure: CHECK/REPLACE ZD952 & VR951.**

ZENER PT. NO. IS 2344122M FOR 25" MODELS  
& PT. NO. IS 2344121M FOR 14", 17" & 21"  
MODELS.

POTENTIOMETER PT. NO. IS E311076.



**Model: C2114TE**                      **Colour television**

**Subject: POWER SUPPLY**

**Fault: CHANGE OF L901 PART NUMBER**

**SECTION: PSU**

**CONDITION: 1**

**Symptom: 185 RUNNING CHANGE**

**DEFECT: A**

**REPAIR: A PART NUMBER FOR L901 IS  
L210065**



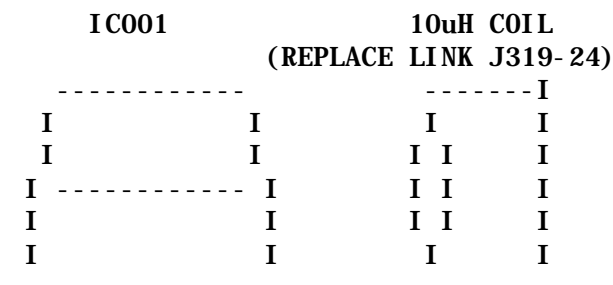
**Model: C2114TE                      Colour television**

**Subject:** TUNING SELECTION  
**Fault:** NO ON SCREEN DISPLAY  
**Symptom:** NO ON SCREEN DISPLAY, (CHAN NO  
VOL/COL/ETC LEVELS  
**Cause:** O/C DIODE  
**Cure:** CHECK / REPLACE D703 / D704  
PART NUMBER J2348921M TYPE IN4531



**Model: C2114TE                      Colour television**

**Subject:** TUNING SELECTION  
**Fault:** DIAGONAL PATTERNING ON LOW SIGNAL  
**Symptom:** DIAGONAL WHITE PATTERNING ON  
LOW SIGNAL CONDITIONS.  
**Cause:** DATA INTERFERENCE.  
**Cure:** REPLACE WIRE LINKS J319-324 WITH  
10uH AXIAL COILS P# 2122943. PLACE THE  
COILS END ON IN THE PCB WITH THE BODY  
END OF THE COIL CLOSEST TO IC001  
SEE FOLLOWING PAGE. .... CONT



**Model: C2114TE                      Colour television**

**Subject:** TUNING SELECTION  
**Fault:** SET WILL NOT ENTER TUNING MODE  
**Symptom:** SET WILL NOT ENTER THE TUNING  
MENU.  
**Cause:** SET IS IN HOTEL MODE:  
**Cure:** TO EXIT HOTEL MODE PRESS BUTTONS  
4, 4, STATUS, MUTE, TV. SELECT HOTEL MODE  
USING CURSOR BUTTONS(REV/EXP). CHANGE  
STATUS USING VOL+/- . GO TO STANDBY  
TO STORE.



**Model: C2114TE                      Colour television**

**Subject:** TUNING SELECTION  
**Fault:** CHANGE OF MICROPROCESSOR IC001  
SECTION: SYS  
CONDITION: 1  
**Symptom:** 185 CHANGE OF  
MICROPROCESSOR



DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A NEW PART No FOR IC001  
SAA5296ZP IS T900763

Model: C2114TE Colour television

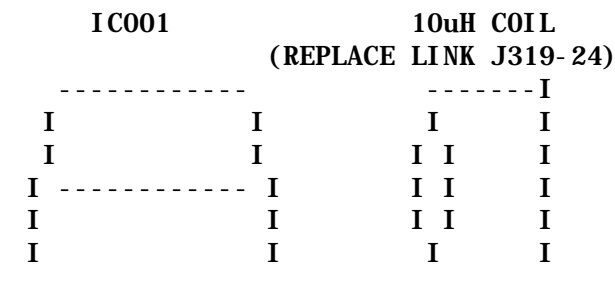
Subject: TUNER/IF  
Fault: CHANGE OF IC201 MASK  
Symptom: CHANGE OF IC201  
Cause: IMPROVEMENT  
Cure: WHEN REPLACING IC201 FROM TYPE  
TDA8361-N3 TO TDA8361-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
PART NUMBERS. IC201 T900623  
R523 J070053M

Model: C2114TE Colour television

Subject: TUNER/IF  
Fault: POOR PLAYBACK OF MACROVISION TAPES  
Symptom: POOR PLAYBACK OF MACRO VISION  
TAPES.  
Cause: CAPACITOR C104 AND C205 VALUES  
TO CURE SKEW CHANGE C205 TO 4u7  
50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R

Model: C2114TE Colour television

Subject: Y/C SIGNAL PROCESSING  
Fault: DIAGONAL PATTERNING ON LOW SIGNAL  
Symptom: DIAGONAL WHITE PATTERNING ON  
LOW SIGNAL CONDITIONS.  
Cause: DATA INTERFERENCE.  
Cure: REPLACE WIRE LINKS J319-324 WITH  
10uH AXIAL COILS P# 2122943. PLACE THE  
COILS END ON IN THE PCB WITH THE BODY  
END OF THE COIL CLOSEST TO IC001  
SEE FOLLOWING PAGE. .... CONT







Model: C2114TE      Colour television

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** BUZZ ON SPEAKERS AND NO PICTURE.  
**Symptom:** LOW FREQUENCY BUZZ ON  
 SPEAKERS AND NO PICTURE.  
**Cause:** DAMAGED PRINT.  
**Cure:** RE-MAKE PRINT BETWEEN 5V RAIL  
 AND L2101. THE BREAK IS ADJACENT TO  
 THE TUNER LEG.



Model: C2114TE      Colour television

**Subject:** AUDIO  
**Fault:** BUZZ ON SPEAKERS AND NO PICTURE.  
**Symptom:** LOW FREQUENCY BUZZ ON  
SPEAKERS AND NO PICTURE.  
**Cause:** DAMAGED PRINT.  
**Cure:** RE-MAKE PRINT BETWEEN 5V RAIL  
AND L2101. THE BREAK IS ADJACENT TO  
THE TUNER LEG.



Model: C2114TE Colour television

**Subject:** VERTICAL STAGE  
**Fault:** LOSS OF SYNC.  
**Symptom:** LOSS OF LINE & FIELD SYNC.  
**Cause:** FAULTY IC.  
**Cure:** CHECK/REPLACE IC201.  
 PT. NO. T900567.



Model: C2114TE      Colour television

**Subject:** VERTICAL STAGE  
**Fault:** FAILURE OF IC601  
**Symptom:** REPEATED FAILURE OF IC601  
**Cause:** STATIC DISCHARGE FROM CRT  
**Cure:** FIT 10nF 50V CAPACITOR ACROSS  
FRAME O/P PLUG E701 FIT CAPACITOR ON  
PRINT SIDE OF PCB AND SECURE WITH HOT  
MELT. CAPACITOR PART NO. 0880044  
REMOVE R613 FROM COMPONENT SIDE AND  
FIT ON PRINT SIDE BETWEEN PIN 1 OF IC  
601 AND JUNCTION OF R612 AND HOLE  
VACATED BY R613.



Model: C2114TE Colour television

**Subject:** VERTICAL STAGE  
**Fault:** REPEATED FAILURE OF FRAME O/P IC601  
**SECTION:** DFL FRAME DEFLECTION  
**CONDITION:** 1  
**Symptom:** 316



DEFECT: Q  
REPAIR: A REPLACE IC 601. CONNECT TWO  
33V ZENER DIODES IN SERIES. CONNECT THE  
ANODE TO PIN 1 OF IC601 AND CATHODE TO  
PIN 2 OF IC601. SECURE WITH HOT MELT.  
PART # ZENER DIODE PACK A531213  
IC 601 J2003951

Model: C2114TE Colour television

Subject: HORIZONTAL STAGE  
Fault: NO ON SCREEN DISPLAY  
Symptom: NO ON SCREEN DISPLAY, (CHAN NO  
VOL/COL/ETC LEVELS  
Cause: O/C DIODE  
Cure: CHECK / REPLACE D703 / D704  
PART NUMBER J2348921M TYPE IN4531

Model: C2114TE Colour television

Subject: HORIZONTAL STAGE  
Fault: LOSS OF SYNC.  
Symptom: LOSS OF LINE & FIELD SYNC.  
Cause: FAULTY IC.  
Cure: CHECK/REPLACE IC201.  
PT. NO. T900567.

Model: C2114TE Colour television

Subject: SERVICE INFORMATION  
Fault: HOTEL MODE  
Symptom: USE OF HOTEL MODE.  
Cause: SET STUCK IN HOTEL MODE, OR THE  
HOTEL MODE NEEDS TO BE ACTIVATED  
Cure: IF USING REMOTE CONTROL TYPE  
CLE876H ENTER THE SERVICE MODE BY THE  
BUTTON SEQUENCE 4, 4, STATUS, MUTE, TV.  
IF USING REMOTE CONTROL TYPE CLE922A  
THEN PRESS 4, 4, RECALL, MUTE, TV

Model: C2114TE Colour television

Subject: SERVICE INFORMATION  
Fault: HOTEL MODE  
SELECT THE HOTEL MODE USING THE CURSOR  
UP / DOWN BUTTONS (REV/EXP) AND CHANGE  
THE STATUS BY USING THE VOL +/- BUTTON  
GO TO STANDBY TO STORE YOUR SETTINGS.

Model: C2114TE Colour television

Subject: PART NUMBER CHANGES

# HITACHI

Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: C2114TE Colour television

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: C2117T 21" Text (MD)

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PT#  
SECTION: PSU  
CONDITION: 1  
Symptom: 185  
DEFECT: A  
REPAIR: A NEW PART # FOR L901 IS  
L210065

Model: C2118R COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET (HT TOO HIGH)  
CHECK HT IS AS STATED IN SERVICE  
MANUAL. (21" 112V. 14" 103V)  
IF TOO HIGH, SET IS SHUTTING DOWN DUE  
TO OVER VOLTS PROTECTION.  
CHECK R909 GOING HIGH RESISTANCE  
R909 39K 0.5WATT PART NO. R349319

Model: C2118R COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT DEAD  
Symptom: SET CUTS OUT INTERMITTANTLY  
Cause: DRY JOINTS AROUND 9V REG IC703  
Cure: RESOLDER IC703. CHECK RESISTORS  
R902, 903, 909.  
FIT HEAT SINK TO IC703  
PART NUMBER: H224071



Model: C2118R COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET DEAD, LOW H. T. AT APPROX 30V  
**Symptom:** SET DEAD, H. T. HAS REDUCED TO APPROX 30V.  
**Cause:** FAILURE OF DIODES.  
**Cure:** CHECK / REPLACE,  
D905 TYPE MPG06J PT# 2343963M  
D906 TYPE RGP10J PT# 2343942M

Model : C2118R COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** HIGH HT. CANNOT BE TURNED DOWN.  
**Symptom:** HIGH HT, CANNOT BE TURNED DOWN.  
**Cause:** FAULTY CAPACITOR.  
**Cure:** CHECK/REPLACE C906, 4. 7MF, 250V, CHANGED VALUE OR OPEN CIRCUIT.  
PT. NO. 0253971.

Model: C2118R COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET TRIPS THEN COMES ON.  
**Symptom:** SET TRIPS THEN COMES BACK ON.  
**Cause:** TUBE BASE SOCKET ARCING.  
**Cure:** REPLACE TUBE BASE SOCKET.  
 PT. NO. J2698351.

Model: C2118R COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** I. R. AMP ASSY. NEW VERSION FITTING

**Symptom:** I. R. ASSY WILL NOT PHYSICALLY FIT.

**Cause:** PART HAS BEEN UPDATED.

**Cure:** TO FIT THE NEW VERSION OF THE I. R. AMP ASSY THE FOLLOWING SHOULD BE CARRIED OUT. IT WILL BE NECESSARY TO BEND THE EARTH LUGS FLAT, THEN INSERT THE PINS INTO ORIGINAL HOLES. BEND THE LUGS FLAT, AND FIT THE NEW ASSY INTO THE EXISTING SIGNAL HOLES. SOLDER TWO PIECES OF WIRE TO THE NOW FLAT LUGS, PASS THEM THRU' THE OLD EARTH LUG HOLES AND SOLDER IN PLACE. IT IS NOW NECESSARY TO REVERSE TWO PINS ON THE AMP ASSY. THIS CAN BE ACHIEVED IN THE FOLLOWING MANNER. REMOVE THE EXISTING RESISTORS R058 & R091. YOU WILL NEED TWO NEW 100R RES' TORS. WHEN FITTING THESE YOU WILL



REVERSE THE TWO ENDS OF THE RESISTORS  
WHICH ARE IN CLOSEST PROXIMITY  
FROM THIS I\_R058\_I I\_R091\_I

TO THIS I\_R091\_I  
I\_R058\_I

BE SURE TO BEND THE RESISTOR SO THAT  
THE TWO CANNOT SHORT CIRCUIT.

Model: C2118R COLOUR TV

Subject: TUNER/IF

Fault: NO SIGNAL (SNOWY RASTER)

SECTION: TUN

CONDITION: 1

Symptom: 215 NO RECEPTION

DEFECT: R OPEN CIRCUIT RESISTOR

REPAIR: A CHECK AND REPLACE R044 OR

R144 PT # R142319 12K, R140319 10K OHM

Model: C2118R COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: IC201 TA8690 SUPERCEDED

REPLACE WITH PART NO. A777814.

THIS KIT INCLUDES IC TYPE TA8690AN

AND THE FOLLOWING PARTS, WHICH SHOULD

BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

R532 AND C526 ARE NEW COMPONENTS AND  
SHOULD BE FITTED AS FOLLOWS. CONNECT  
R532 AND C526 IN SERIES. ATTACH THE  
FREE END OF R532 TO THE JUNCTION OF  
X501 AND C517. ATTACH THE FREE END OF  
C526 TO THE JUNCTION OF C517 AND C519.

Model: C2118R COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: INTERMITTANT HUM BAR

Symptom: INTERMITTANT HUM BARS ON PIC'

Cause: DRY JOINTS

Cure: RESOLDER DRY JOINTS ON IC703.

FIT HEAT SINK TO IC703

PART NUMBER H224071



# HITACHI

VIDEO RECORDINGS, A FADING OR MUTING OF  
THE SOUND MAY BE EXPERIENCED.  
IF THIS PROBLEM OCCURS CHANGE THE  
FOLLOWING COMPONENTS  
R077 TO 220K  
C040 TO 3.3UF

Model: C2118R COLOUR TV

Subject: VERTICAL STAGE  
Fault: INTERMITTANT FRAME COLLAPSE  
Symptom: INTERMITTANT FRAME COLLAPSE  
Cause: DRY JOINTS  
Cure: RESOLDER DRY JOINTS ON IC703.  
FIT HEAT SINK TO IC703  
PART NUMBER H224071.

Model: C2118R COLOUR TV

Subject: VERTICAL STAGE  
Fault: FRAME FOLDOVER AT TOP  
Symptom: FRAME FOLDOVER AT TOP AT TOP  
OF SCREEN  
Cause: LOW / OPEN CIRCUIT CAPACITOR  
Cure: CHECK / REPLACE C603 100uF 50V  
PART NUMBER J0800053R

Model: C2118R COLOUR TV

Subject: TELETEXT  
Fault: LINE PULLING AT TOP OF SCREEN  
Symptom: LINE PULLING AT TOP OF SCREEN  
WHEN IN TELETEXT MODE.  
Cause: ON SOME TRANSMITTERS A CORRUPT  
SYNC PULSE COULD BE RECEIVED.  
Cure: DELETE L2104 ON MAIN PCB.

Model: C2118R COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: IC201 TA8690 SUPERCEDED  
REPLACE WITH PART NO. A777814.  
THIS KIT INCLUDES IC TYPE TA8690AN  
AND THE FOLLOWING PARTS, WHICH SHOULD  
BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

R532 AND C526 ARE NEW COMPONENTS AND  
SHOULD BE FITTED AS FOLLOWS. CONNECT

# HITACHI

R532 AND C526 IN SERIES. ATTACH THE  
FREE END OF R532 TO THE JUNCTION OF  
X501 AND C517. ATTACH THE FREE END OF  
C526 TO THE JUNCTION OF C517 AND C519.

Model: C2118R COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: CABINET PART NUMBERS  
THE PART NUMBERS ARE AS FOLLOWS: -  
C1408T A778006  
C2118T A777826  
C2118R A777816

Model: C2118T COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET (HT TOO HIGH)  
CHECK HT IS AS STATED IN SERVICE  
MANUAL. (21" 112V. 14" 103V)  
IF TOO HIGH, SET IS SHUTTING DOWN DUE  
TO OVER VOLTS PROTECTION.  
CHECK R909 GOING HIGH RESISTANCE  
R909 39K 0.5WATT PART NO. R349319

Model: C2118T COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT DEAD  
Symptom: SET CUTS OUT INTERMITTANTLY  
Cause: DRY JOINTS AROUND 9V REG IC703  
Cure: RESOLDER IC703. CHECK RESISTORS  
R902, 903, 909.  
FIT HEAT SINK TO IC703  
PART NUMBER: H224071

Model: C2118T COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD, PSU FAILS REGULARLY.  
Symptom: ZD903 FAILS. AFTER REPLACING  
IT FAILS AGAIN.  
Cause: DRY JOINTS.  
Cure: REPLACE ZD903, CHECK Q903, Q702  
REPLACE AS NECESSARY. REMOVE T901 AND  
CLEAN ALL CONNECTIONS. REFIT IN PCB.  
REPLACE R902, R903, R909 AND RESET  
H. T. TO 112V

Model: C2118T COLOUR TV

Subject: POWER SUPPLY





**Fault:** SET DEAD, LOW H. T. AT APPROX 30V  
**Symptom:** SET DEAD, H. T. HAS REDUCED TO APPROX 30V.  
**Cause:** FAILURE OF DIODES.  
**Cure:** CHECK / REPLACE,  
D905 TYPE MPG06J PT# 2343963M  
D906 TYPE RGP10J PT# 2343942M

Model: C2118T COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: HIGH HT. CANNOT BE TURNED DOWN.**  
**Symptom: HIGH HT, CANNOT BE TURNED DOWN.**  
**Cause: FAULTY CAPACITOR.**  
**Cure: CHECK/REPLACE C906, 4. 7MF, 250V, CHANGED VALUE OR OPEN CIRCUIT.**  
**PT. NO. 0253971.**

Model: C2118T COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET TRIPS THEN COMES ON.  
**Symptom:** SET TRIPS THEN COMES BACK ON.  
**Cause:** TUBE BASE SOCKET ARCING.  
**Cure:** REPLACE TUBE BASE SOCKET.  
 PT. NO. J2698351.

Model: C2118T COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** I. R. AMP ASSY. NEW VERSION FITTING

**Symptom:** I. R. ASSY WILL NOT PHYSICALLY FIT.

**Cause:** PART HAS BEEN UPDATED.

**Cure:** TO FIT THE NEW VERSION OF THE I. R. AMP ASSY THE FOLLOWING SHOULD BE CARRIED OUT. IT WILL BE NECESSARY TO BEND THE EARTH LUGS FLAT, THEN INSERT THE PINS INTO ORIGINAL HOLES. BEND THE LUGS FLAT, AND FIT THE NEW ASSY INTO THE EXISTING SIGNAL HOLES. SOLDER TWO PIECES OF WIRE TO THE NOW FLAT LUGS, PASS THEM THRU' THE OLD EARTH LUG HOLES AND SOLDER IN PLACE. IT IS NOW NECESSARY TO REVERSE TWO PINS ON THE AMP ASSY. THIS CAN BE ACHIEVED IN THE FOLLOWING MANNER. REMOVE THE EXISTING RESISTORS R058 & R091. YOU WILL NEED TWO NEW 100R RES' TORS. WHEN FITTING THESE YOU WILL REVERSE THE TWO ENDS OF THE RESISTORS WHICH ARE IN CLOSEST PROXIMITY



FROM THIS I\_R058\_I I\_R091\_I  
TO THIS I\_R091\_I  
I\_R058\_I

Model: C2118T COLOUR TV

Subject: TUNING SELECTION

Fault: I. R. AMP ASSY. NEW VERSION FITTING  
BE SURE TO BEND THE RESISTOR SO THAT  
THE TWO CANNOT SHORT CIRCUIT.

Model: C2118T COLOUR TV

Subject: TUNER/IF

Fault: NO SIGNAL (SNOWY RASTER)

SECTION: TUN

CONDITION: 1

Symptom: 215 NO RECEPTION

DEFECT: R OPEN CIRCUIT RESISTOR

REPAIR: A CHECK AND REPLACE R044 OR

R144 PT # R142319 12K, R140319 10K OHM

Model: C2118T COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: IC201 TA8690 SUPERCEDED

REPLACE WITH PART NO. A777814.

THIS KIT INCLUDES IC TYPE TA8690AN

AND THE FOLLOWING PARTS, WHICH SHOULD  
BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

R532 AND C526 ARE NEW COMPONENTS AND  
SHOULD BE FITTED AS FOLLOWS. CONNECT  
R532 AND C526 IN SERIES. ATTACH THE  
FREE END OF R532 TO THE JUNCTION OF  
X501 AND C517. ATTACH THE FREE END OF  
C526 TO THE JUNCTION OF C517 AND C519.

Model: C2118T COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: INTERMITTANT HUM BAR

Symptom: INTERMITTANT HUM BARS ON PIC'

Cause: DRY JOINTS

Cure: RESOLDER DRY JOINTS ON IC703.  
FIT HEAT SINK TO IC703

PART NUMBER H224071

Model: C2118T

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: INTERMITTANT PICTURE FLICKER/LINES

Symptom: INTERMITTANT PICTURE FLICKER  
OR THIN BLACK LINES RANDOMLY ON SCREEN

Cause: DRY JOINTS

Cure: RESOLDER DRY JOINTS ON IC703  
FIT HEAT SINK TO IC703  
PART NUMBER H224071

Model: C2118T

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: FLARING ON PICTURE.

Symptom: FLARING AND BENT VERTICALS  
ON PEAK WHITES OF PICTURE.

Cause: FAULTY TRANSISTOR.

Cure: CHECK/CHANGE LEAKY TRANSISTOR,  
Q750, PT. NO. T631275

Model: C2118T

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: NO COLOUR.

Symptom: NO COLOUR.

Cause: FAULTY CAPACITOR.

Cure: CHECK/REPLACE OPEN CIRCUIT  
CAPACITOR, C519, 10NF. 50V.  
PT. NO. 0880044R.

Model: C2118T

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: NO PICTURE, HISS ON SOUND.

Symptom: NO PICTURE, HISS ON SOUND.

Cause: LEAKY TRANSISTOR.

Cure: CHECK/REPLACE Q002 ON RESET LINE  
TO IC001 PIN41. PT. NO. T631275.

Model: C2118T

COLOUR TV

Subject: AUDIO

Fault: SOUND RATTLE

ADD ADDITIONAL SCREW TO FRONT BUTTON  
BLOCK AND CENTRALISE BEFORE TIGHTENING

Model: C2118T

COLOUR TV

Subject: AUDIO

# HITACHI

Fault: SOUND MUTES OR FADES  
UNDER SOME SIGNAL CONDITIONS OR WITH  
SOME VIDEO RECORDINGS A MUTING OR  
FADING OF THE SOUND MAY OCCUR  
IF THIS FAULT OCCURS CHANGE THE  
FOLLOWING COMPONENT  
C1324 TO A 1UF

Model: C2118T COLOUR TV

Subject: VERTICAL STAGE  
Fault: INTERMITTANT FRAME COLLAPSE  
Symptom: INTERMITTANT FRAME COLLAPSE  
Cause: DRY JOINTS  
Cure: RESOLDER DRY JOINTS ON IC703.  
FIT HEAT SINK TO IC703  
PART NUMBER H224071.

Model: C2118T COLOUR TV

Subject: VERTICAL STAGE  
Fault: FRAME FOLDOVER AT TOP  
Symptom: FRAME FOLDOVER AT TOP AT TOP  
OF SCREEN  
Cause: LOW / OPEN CIRCUIT CAPACITOR  
Cure: CHECK / REPLACE C603 100uF 50V  
PART NUMBER J0800053R

Model: C2118T COLOUR TV

Subject: TELETEXT  
Fault: VERTICLE JITTER ON TELETEXT  
Symptom: A VERTICLE JITTER WHEN IN THE  
TELETEXT MODE  
Cause: TOLERANCES IN FRAME SYNC  
Cure: CHANGE C605 TO 4.7uF 50V  
PART NUMBER J0800012R

Model: C2118T COLOUR TV

Subject: TELETEXT  
Fault: LINE PULLING AT TOP OF SCREEN  
Symptom: LINE PULLING AT TOP OF SCREEN  
WHEN IN TELETEXT MODE.  
Cause: ON SOME TRANSMITTERS A CORRUPT  
SYNC PULSE COULD BE RECIEVED.  
Cure: DELETE L2104 ON MAIN PCB.

Model: C2118T COLOUR TV

Subject: SERVICE INFORMATION  
Fault: CRT REPLACEMENT



THE ORIGINAL HITACHI TYPE CRT  
(PT NO 2470601) A51JSY61X21 HAS  
BEEN REPLACED BY A PHILIPS CRT  
TYPE A51EAL55X11 (PT NO T154010)  
WHEN FITTING THE PHILIPS CRT IN PLACE  
OF THE HITACHI ORIGINAL YOU WILL NEED  
TO CARRY OUT THE FOLLOWING CHANGES

Model: C2118T

COLOUR TV

Subject: SERVICE INFORMATION

Fault: CRT REPLACEMENT

C2118/9T REQUIRES L702 TO BE 56  $\mu$ H  
(PART NUMBER 2122093)  
C2164TN REQUIRES L704 TO BE 56 MICRO H  
(PART NUMBER 2122093)  
C2114T REQUIRES L802 TO BE 56 MICRO H  
(PART NUMBER 2122093)

F B L L B F

SCAN COIL CONNECTIONS

L = LINE F = FRAME B = BLANK

Model: C2118T

COLOUR TV

Subject: PART NUMBER CHANGES

Fault: IC201 TA8690 SUPERCEDED

REPLACE WITH PART NO. A777814.  
THIS KIT INCLUDES IC TYPE TA8690AN  
AND THE FOLLOWING PARTS, WHICH SHOULD  
BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

R532 AND C526 ARE NEW COMPONENTS AND  
SHOULD BE FITTED AS FOLLOWS. CONNECT  
R532 AND C526 IN SERIES. ATTACH THE  
FREE END OF R532 TO THE JUNCTION OF  
X501 AND C517. ATTACH THE FREE END OF  
C526 TO THE JUNCTION OF C517 AND C519.

Model: C2118T

COLOUR TV

Subject: PART NUMBER CHANGES

Fault: CABINET PART NUMBERS

THE PART NUMBERS ARE AS FOLLOWS: -

C1408T	A778006
C2118T	A777826
C2118R	A777816



Model : C2119R                      COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** INTERMITTANT DEAD  
**Symptom:** SET CUTS OUT INTERMITTANTLY  
**Cause:** DRY JOINTS AROUND 9V REG IC703  
**Cure:** RESOLDER IC703. CHECK RESISTORS  
R902, 903, 909.  
FIT HEAT SINK TO IC703  
PART NUMBER: H224071

Model : C2119R COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET DEAD, LOW H. T. AT APRROX 30V  
**Symptom:** SET DEAD, H. T. HAS REDUCED TO  
 APPROX 30V.  
**Cause:** FAILURE OF DIODES.  
**Cure:** CHECK / REPLACE,  
 D905 TYPE MPG06J PT# 2343963M  
 D906 TYPE RGP10J PT# 2343942M

Model : C2119R COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: HIGH HT. CANNOT BE TURNED DOWN.**  
**Symptom: HIGH HT, CANNOT BE TURNED DOWN.**  
**Cause: FAULTY CAPACITOR.**  
**Cure: CHECK/REPLACE C906, 4. 7MF, 250V, CHANGED VALUE OR OPEN CIRCUIT.**  
**PT. NO. 0253971.**

Model : C2119R COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET TRIPS THEN COMES ON.  
**Symptom:** SET TRIPS THEN COMES BACK ON.  
**Cause:** TUBE BASE SOCKET ARCING.  
**Cure:** REPLACE TUBE BASE SOCKET.  
 PT. NO. J2698351.

Model : C2119R COLOUR TV

**Subject:** TUNER/IF  
**Fault:** NO SIGNAL (SNOWY RASTER)  
**SECTION:** TUN  
**CONDITION:** 1  
**Symptom:** 215 NO RECEPTION  
**DEFECT:** R OPEN CIRCUIT RESISTOR  
**REPAIR:** A CHECK AND REPLACE R044 OR  
R144 PT # R142319 12K, R140319 10K OHM

**Model: C2119R**

**COLOUR TV**

**Subject: Y/C SIGNAL PROCESSING**

**Fault: IC201 TA8690 SUPERCEDED**

**REPLACE WITH PART NO. A777814.**

**THIS KIT INCLUDES IC TYPE TA8690AN**

**AND THE FOLLOWING PARTS, WHICH SHOULD BE EXCHANGED/ADDED.**

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3



**Model: C2119R**

**COLOUR TV**

**Subject: Y/C SIGNAL PROCESSING**

**Fault: IC201 TA8690 SUPERCEDED**

**R532 AND C526 ARE NEW COMPONENTS AND SHOULD BE FITTED AS FOLLOWS. CONNECT**

**R532 AND C526 IN SERIES. ATTACH THE**

**FREE END OF R532 TO THE JUNCTION OF**

**X501 AND C517. ATTACH THE FREE END OF**

**C526 TO THE JUNCTION OF C517 AND C519.**



**Model: C2119R**

**COLOUR TV**

**Subject: Y/C SIGNAL PROCESSING**

**Fault: INTERMITTANT HUM BAR**

**Symptom: INTERMITTANT HUM BARS ON PIC'**

**Cause: DRY JOINTS**

**Cure: RESOLDER DRY JOINTS ON IC703.**

**FIT HEAT SINK TO IC703**

**PART NUMBER H224071**



**Model: C2119R**

**COLOUR TV**

**Subject: Y/C SIGNAL PROCESSING**

**Fault: INTERMITTANT PICTURE FLICKER/LINES**

**Symptom: INTERMITTANT PICTURE FLICKER**

**OR THIN BLACK LINES RANDOMLY ON SCREEN**

**Cause: DRY JOINTS**

**Cure: RESOLDER DRY JOINTS ON IC703**

**FIT HEAT SINK TO IC703**

**PART NUMBER H224071**



**Model: C2119R**

**COLOUR TV**

**Subject: Y/C SIGNAL PROCESSING**

**Fault: NO COLOUR.**

**Symptom: NO COLOUR.**

**Cause: FAULTY CAPACITOR.**





Model: C2119R COLOUR TV

Subject: PART NUMBER CHANGES

Fault: IC201 TA8690 SUPERCEDED

REPLACE WITH PART NO. A777814.

THIS KIT INCLUDES IC TYPE TA8690AN  
AND THE FOLLOWING PARTS, WHICH SHOULD  
BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

R532 AND C526 ARE NEW COMPONENTS AND  
SHOULD BE FITTED AS FOLLOWS. CONNECT  
R532 AND C526 IN SERIES. ATTACH THE  
FREE END OF R532 TO THE JUNCTION OF  
X501 AND C517. ATTACH THE FREE END OF  
C526 TO THE JUNCTION OF C517 AND C519.

Model: C2119T COLOUR TV

Subject: POWER SUPPLY

Fault: INTERMITTANT DEAD

Symptom: SET CUTS OUT INTERMITTANTLY

Cause: DRY JOINTS AROUND 9V REG IC703

Cure: RESOLDER IC703. CHECK RESISTORS  
R902, 903, 909.

FIT HEAT SINK TO IC703

PART NUMBER: H224071

Model: C2119T COLOUR TV

Subject: POWER SUPPLY

Fault: SET DEAD, PSU FAILS REGULARLY.

Symptom: ZD903 FAILS. AFTER REPLACING  
IT FAILS AGAIN.

Cause: DRY JOINTS.

Cure: REPLACE ZD903, CHECK Q903, Q702  
REPLACE AS NECESSARY. REMOVE T901 AND  
CLEAN ALL CONNECTIONS. REFIT IN PCB.  
REPLACE R902, R903, R909 AND RESET  
H. T. TO 112V

Model: C2119T COLOUR TV

Subject: POWER SUPPLY

Fault: SET DEAD, LOW H. T. AT APPROX 30V

Symptom: SET DEAD, H. T. HAS REDUCED TO  
APPROX 30V.

Cause: FAILURE OF DIODES.

Cure: CHECK / REPLACE,  
D905 TYPE MPG06J PT# 2343963M  
D906 TYPE RGP10J PT# 2343942M

## Model: C2119T COLOUR TV

Subject: POWER SUPPLY  
Fault: HIGH HT. CANNOT BE TURNED DOWN.  
Symptom: HIGH HT, CANNOT BE TURNED DOWN.  
Cause: FAULTY CAPACITOR.  
Cure: CHECK/REPLACE C906, 4. 7MF, 250V,  
CHANGED VALUE OR OPEN CIRCUIT.  
PT. NO. 0253971.

## Model: C2119T COLOUR TV

Subject: POWER SUPPLY  
Fault: SET TRIPS THEN COMES ON.  
Symptom: SET TRIPS THEN COMES BACK ON.  
Cause: TUBE BASE SOCKET ARCING.  
Cure: REPLACE TUBE BASE SOCKET.  
PT. NO. J2698351.

## Model: C2119T COLOUR TV

Subject: TUNER/IF  
Fault: NO SIGNAL (SNOWY RASTER)  
SECTION: TUN  
CONDITION: 1  
Symptom: 215 NO RECEPTION  
DEFECT: R OPEN CIRCUIT RESISTOR  
REPAIR: A CHECK AND REPLACE R044 OR  
R144 PT # R142319 12K, R140319 10K OHM

## Model: C2119T COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: IC201 TA8690 SUPERCEDED  
REPLACE WITH PART NO. A777814.  
THIS KIT INCLUDES IC TYPE TA8690AN  
AND THE FOLLOWING PARTS, WHICH SHOULD  
BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

Model: C2119T

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: IC201 TA8690 SUPERCEDED

R532 AND C526 ARE NEW COMPONENTS AND  
SHOULD BE FITTED AS FOLLOWS. CONNECT  
R532 AND C526 IN SERIES. ATTACH THE  
FREE END OF R532 TO THE JUNCTION OF  
X501 AND C517. ATTACH THE FREE END OF  
C526 TO THE JUNCTION OF C517 AND C519.



Model: C2119T

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: INTERMITTANT HUM BAR

Symptom: INTERMITTANT HUM BARS ON PIC'

Cause: DRY JOINTS

Cure: RESOLDER DRY JOINTS ON IC703.  
FIT HEAT SINK TO IC703

PART NUMBER H224071



Model: C2119T

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: INTERMITTANT PICTURE FLICKER/LINES

Symptom: INTERMITTANT PICTURE FLICKER  
OR THIN BLACK LINES RANDOMLY ON SCREEN

Cause: DRY JOINTS

Cure: RESOLDER DRY JOINTS ON IC703  
FIT HEAT SINK TO IC703

PART NUMBER H224071



Model: C2119T

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: NO COLOUR.

Symptom: NO COLOUR.

Cause: FAULTY CAPACITOR.

Cure: CHECK/REPLACE OPEN CIRCUIT  
CAPACITOR, C519, 10NF. 50V.  
PT. NO. 0880044R.



Model: C2119T

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: NO PICTURE, HISS ON SOUND.

Symptom: NO PICTURE, HISS ON SOUND.

Cause: LEAKY TRANSISTOR.

Cure: CHECK/REPLACE Q002 ON RESET LINE  
TO IC001 PIN41. PT. NO. T631275.





Model : C2119T

COLOUR TV

**Subject: AUDIO**

### Fault: AUDIO DISTORTION VIA SCART SOCKET

**CHANGE R1406 TO 820 OHMS**

(PT. NO. J0700039M). R1406 IS BETWEEN

## Q1401 EMITTER AND CHASSIS. ADJUST

## R1421 AUDIO INPUT LEVEL TO EQUALISE

### SCART AND RF AUDIO LEVELS.

Model: C2119T

COLOUR TV

**Subject: VERTICAL STAGE**

**Fault t: INTERMITTANT FRAME COLLAPSE**

## Symptom: INTERMITTANT FRAME COLLAPSE

**Cause: DRY JOINTS**

**Cure: RESOLDER DRY JOINTS ON IC703.**

## FIT HEAT SINK TO IC703

**PART NUMBER H224071.**

Model : C2119T

COLOUR TV

**Subject: VERTICAL STAGE**

**Fault: FRAME FOLDOVER AT TOP**

**Symptom:** FRAME FOLDOVER AT TOP AT TOP

OF SCREEN

**Cause: LOW / OPEN CIRCUIT CAPACITOR**

**Cure: CHECK / REPLACE C603 100uF 50V**

**PART NUMBER J0800053R**

Model : C2119T

COLOUR TV

**Subject: TELETEXT**

**Fault: VERTICLE JITTER ON TELETEXT**

**Symptom:** A VERTICLE JITTER WHEN IN THE

**TELETEXT MODE**

**Cause: TOLERANCES IN FRAME SYNC**

**Cure: CHANGE C605 TO 4.7uF 50V**

**PART NUMBER J0800012R**

Model : C2119T

COLOUR TV

**Subject: TELETEXT**

**Fault t: LINE PULLING AT TOP OF SCREEN**

**Symptom:** LINE PULLING AT TOP OF SCREEN  
WHEN IN TELETEXT MODE.

**Cause:** ON SOME TRANSMITTERS A CORRUPT SYNC PULSE COULD BE RECIEVED.

**Cure: DELETE L2104 ON MAIN PCB.**



Model: C2119T

COLOUR TV

Subject: SERVICE INFORMATION

Fault: CRT REPLACEMENT

THE ORIGINAL HITACHI TYPE CRT  
(PT NO 2470601) A51JSY61X21 HAS  
BEEN REPLACED BY A PHILIPS CRT  
TYPE A51EAL55X11 (PT NO T154010)  
WHEN FITTING THE PHILIPS CRT IN PLACE  
OF THE HITACHI ORIGINAL YOU WILL NEED  
TO CARRY OUT THE FOLLOWING CHANGES  
C2118/9T REQUIRES L702 TO BE 56 uH  
(PART NUMBER 2122093)  
C2164TN REQUIRES L704 TO BE 56 MICRO H  
(PART NUMBER 2122093)  
C2114T REQUIRES L802 TO BE 56 MICRO H  
(PART NUMBER 2122093)

F B L L B F  
SCAN COIL CONNECTIONS

L = LINE F = FRAME B = BLANK

Model: C2119T

COLOUR TV

Subject: SERVICE INFORMATION

Fault: CIRCUIT INFORMATION FOR C2119TZ

Symptom: CIRCUIT DIFFERENCES BETWEEN  
C2119T AND C2119TZ

Cause: UPDATED PCB

Cure: FOR CIRCUIT DETAILS OF C2119TZ  
REFER TO THE SERVICE MANUAL FOR C2114T  
THERE COSMETIC PART DIFFERENCES, PART  
NUMBERS FOLLOW  
CABINET FRONT: X212501  
CABINET BACK : X263472  
REMOTE CONTROL: 2574091  
STAND ASSY : X711364

Model: C2119T

COLOUR TV

Subject: PART NUMBER CHANGES

Fault: IC201 TA8690 SUPERCEDED

REPLACE WITH PART NO. A777814.  
THIS KIT INCLUDES IC TYPE TA8690AN  
AND THE FOLLOWING PARTS, WHICH SHOULD  
BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

R532 AND C526 ARE NEW COMPONENTS AND  
SHOULD BE FITTED AS FOLLOWS. CONNECT  
R532 AND C526 IN SERIES. ATTACH THE



FREE END OF R532 TO THE JUNCTION OF  
X501 AND C517. ATTACH THE FREE END OF  
C526 TO THE JUNCTION OF C517 AND C519.

Model: C2119T COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: PART NUMBER FOR STAND INSERTS.  
Symptom: PART NUMBER FOR STAND INSERTS  
IS MISSING FROM THE SERVICE MANUAL.  
Cause: PRINTING ERROR.  
Cure: PART NUMBER IS G878021.

Model: C2119TE 51cm TELEVISION

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.  
Cause: FAULTY ZENER & POTENTIOMETER.  
Cure: CHECK/REPLACE ZD952 & VR951.  
ZENER PT. NO. IS 2344122M FOR 25" MODELS  
& PT. NO. IS 2344121M FOR 14", 17" & 21"  
MODELS.  
POTENTIOMETER PT. NO. IS E311076.

Model: C2119TE 51cm TELEVISION

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PART NUMBER  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: A  
REPAIR: A PART NUMBER FOR L901 IS  
L210065

Model: C2119TE 51cm TELEVISION

Subject: TUNER/IF  
Fault: POOR PLAYBACK OF MACROVISION TAPES  
Symptom: POOR PLAYBACK OF MACRO VISION  
TAPES.  
Cause: CAPACITOR C104 AND C205 VALUES  
Cure: TO CURE SKEW CHANGE C205 TO 4u7  
50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R



Model : C2119TE 51cm TELEVISION

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** BUZZ ON SPEAKERS AND NO PICTURE.  
**Symptom:** LOW FREQUENCY BUZZ ON  
SPEAKERS AND NO PICTURE.  
**Cause:** DAMAGED PRINT.  
**Cure:** RE-MAKE PRINT BETWEEN 5V RAIL  
AND L2101. THE BREAK IS ADJACENT TO  
THE TUNER LEG.

Model: C2119TE 51cm TELEVISION

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** CHANGE OF IC201  
**Symptom:** CHANGE OF IC201 TO N5 MASK  
**Cause:** UPGRADE  
**Cure:** WHEN REPLACING IC201 FROM TYPE  
TDA8361-N3 TO TDA8361-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
**PART NUMBER:** IC201 T900623  
R523 J0700053M

Model: C2119TE 51cm TELEVISION

**Subject:** AUDIO  
**Fault:** BUZZ ON SPEAKERS AND NO PICTURE.  
**Symptom:** LOW FREQUENCY BUZZ ON  
 SPEAKERS AND NO PICTURE.  
**Cause:** DAMAGED PRINT.  
**Cure:** RE-MAKE PRINT BETWEEN 5V RAIL  
 AND L2101. THE BREAK IS ADJACENT TO  
 THE TUNER LEG.

Model: C2119TE 51cm TELEVISION

**Subject:** SERVICE INFORMATION

**Fault:** HOTEL MODE

**Symptom:** USE OF HOTEL MODE.

**Cause:** SET STUCK IN HOTEL MODE, OR THE HOTEL MODE NEEDS TO BE ACTIVATED

**Cure:** IF USING REMOTE CONTROL TYPE CLE876H ENTER THE SERVICE MODE BY THE BUTTON SEQUENCE 4, 4, STATUS, MUTE, TV. IF USING REMOTE CONTROL TYPE CLE922A THEN PRESS 4, 4, RECALL, MUTE, TV SELECT THE HOTEL MODE USING THE CURSOR UP / DOWN BUTTONS (REV/EXP) AND CHANGE THE STATUS BY USING THE VOL +/- BUTTON GO TO STANDBY TO STORE YOUR SETTINGS.



Model : C2119TE 51cm TELEVISION

**Subject:** PART NUMBER CHANGES  
**Fault:** CHANGE OF VARIABLE RESISTORS  
**Symptom:** CHANGE OF VARIABLE RESISTORS  
**Cause:** CHANGE OF SUPPLIER  
**Cure:** NEW PART NUMBERS ARE:  
 VR701 PART NUMBER J0160215R  
 VR601 PART NUMBER J0160421R  
 VR951 PART NUMBER J0160211R

Model: C2119TE 51cm TELEVISION

**Subject:** PART NUMBER CHANGES  
**Fault:** CHANGE OF U001 PART NUMBER  
 SECTION: REM  
 CONDITION: 1  
**Symptom:** 185 T549012 DISCONTINUED  
 DEFECT: A  
 REPAIR: A NEW PART NUMBER FOR U001 IS  
 T549019

Model : C2119TZ                      COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** DEAD SET - POWER SUPPLY SHUT DOWN.  
**Symptom:** POWER SUPPLY SHUT DOWN. NO  
 9V SUPPLY HENCE NO 8V SUPPLY TO IC201.  
**Cause:** S/C FRAME IC, IC601.  
**Cure:** CHECK/REPLACE IC601, PT. NO. 2003951

Model: C2119TZ COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** MICROPROCESSOR PART NUMBER.  
**Symptom:** THE CHASSIS FOR THIS MODEL IS  
BROADLY AS C2114T BUT IC 001 DIFFERS.  
**Cause:** THIS MODEL IS FITTED WITH A  
DIFFERENT TELETEXT SET.  
**Cure:** THE CORRECT PART NUMBER FOR  
IC001, TYPE TMP47C834TN, IS J2001558.

Model : C2119TZ                      COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** TUNING NOT STOPPING.  
**Symptom:** TUNING NOT STOPPING.  
**Cause:** DRY JOINT.  
**Cure:** RE-SOLDER DRY JOINT ON AFC COIL,  
 L202. PT. NO. 2145877.



Model: C2119TZ

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: NO COLOUR.  
Symptom: NO COLOUR.  
Cause: FAULTY CAPACITOR.  
Cure: CHECK/REPLACE C503, 100NF, 50V.  
PT. NO. 0880057R

Model: C2121T

21" TEXT

Subject: VERTICAL STAGE  
Fault: FAILURE OF FRAME OUTPUT IC I301  
SECTION: DFL VERTICAL OUTPUT  
CONDITION: 1  
Symptom: 316 OR 11X NO POWER/ VERTICAL  
DEFLECTION  
DEFECT: Q  
REPAIR: A REPLACE I301. CHANGE C309  
FROM 47uF 160V TO 22uF 160V. REPLACE  
WIRE LINK IN POSITION R420 WITH 2R2 1W  
METAL OXIDE RESISTOR.  
ON ISSUE 11 AND 12 PCB'S REPLACE C313  
WITH 100nF 100V MYLAR CAPACITOR AND  
REPLACE R422 WITH A WIRE LINK  
PART NO. I301 DE1TDA8356  
C309 DECEYF2C220V  
R420 DERS01Y229J  
C313 DECMKM2A104J

Model: C2133TN

Colour tv

Subject: POWER SUPPLY  
Fault: DEAD, V025 DESTRUCT ON SWITCH ON  
Symptom: V025, CHOPPER TRANSISTOR, IS  
BLOWN S/C UPON SWITCH ON  
Cause: O/C PRINT AROUND PIN 1 OF T040  
CHOPPER TRANSFORMER  
Cure: REPAIR PRINT AROUND SOLDER PAD ON  
PIN 1 AND REPLACE V025 AND MAINS INPUT  
FUSE. ALSO CHECK VE07 FOR SHORT CIRCUIT  
BEFORE SWITCHING ON AGAIN.

Model: C2133TN

Colour tv

Subject: POWER SUPPLY  
Fault: PSU PULSING.  
Symptom: PSU PULSING.  
Cause: DRY JOINT.  
Cure: REMAKE JOINT AT IC NF10 PIN 8.



Model: C2133TN Colour tv

Subject: TUNER/IF  
Fault: BLACK LINES & REDUCED CONTRAST  
Symptom: WASHED OUT PICTURE, CONTRAST  
WILL ADJUST BUT WITHOUT ANY GREAT  
RANGE  
Cause: LEAKY CAPACITOR.  
Cure: CHECK / REPLACE CD10 ACROSS PINS  
25/26 OF ND10

Model: C2133TN Colour tv

Subject: Y/C SIGNAL PROCESSING  
Fault: BRIGHT PICTURE  
Symptom: BRIGHT PICTURE AND RESISTORS  
RK73 AND RK74 GETTING HOT.  
Cause: LEAKY DIODE MAKING 200VOLT  
RAIL 145VOLTS.  
Cure: REPLACE DIODE VK74.

Model: C2133TN Colour tv

Subject: HORIZONTAL STAGE  
Fault: BRIGHT PICTURE  
Symptom: BRIGHT PICTURE AND RESISTORS  
RK73 AND RK74 GETTING HOT.  
Cause: LEAKY DIODE MAKING 200VOLT  
RAIL 145VOLTS.  
Cure: REPLACE DIODE VK74.

Model: C2133TN Colour tv

Subject: HORIZONTAL STAGE  
Fault: NO PICTURE. NO EHT.  
Symptom: NO PICTURE. NO EHT.  
Cause: FAULTY TRANSISTOR. NO LINE DRIVE  
Cure: CHECK/REPLACE VK22, COLLECTOR TO  
BASE LEAKY. PT. NO. 36147138.

Model: C2133TN Colour tv

Subject: HORIZONTAL STAGE  
Fault: STUCK IN STANDBY VK22 FAULTY  
Symptom: VK22 BLOWS AT SWITCH ON. SET  
STUCK IN STANDBY.  
Cause: FAULTY TRANSISTORS.  
Cure: REPLACE TRANSISTORS VK11, VK16  
AND VK22. NOTE: TRANSISTORS MAY CHECK  
OK.



VK11/16 PART NO. SAL 36145422  
VK22 PART NO. SAL 36147138

Model: C2133TN

Colour tv

Subject: TELETEXT  
Fault: TELETEXT PROCESSOR COMPATABILITY  
Symptom: TWO TELETEXT PROCESSORS HAVE  
BEEN FITTED TO THE NEW CHASSIS VERSION  
Cause: COMPONENT AVAILABILITY.  
Cure: THE ICS ARE PIN COMPATIBLE BUT  
CRYSTALS VARY.  
I. C MSP3400 PT No XSTAL PART No  
C-PP-B5 SAL 37430014 SAL 45710010  
TC15 SAL 37791274 SAL 44213262

Model: C2133TN

Colour tv

Subject: SERVICE INFORMATION  
Fault: UPDATED NICAM DECODER NA10  
Symptom: I. C. NA10 NICAM DECODER HAS  
BEEN UPDATED.  
Cause: SOFTWARE CHANGES.  
Cure: I. C. NA10 MSP3410 C12 HAS BEEN  
CHANGED TO TYPE MSP3410 C15. WHEN YOU  
ARE REPLACING I. C. NA10 VERSION C15 IS  
A STRAIGHT EXCHANGE. HOWEVER VERSION  
C15 CANNOT BE REPLACED WITH C12.

Model: C2133TN

Colour tv

Subject: SERVICE INFORMATION  
Fault: CRT AND CHASSIS MATCH/PART No- TL639  
Symptom: TWO DIFFERENT TYPES OF CRT  
HAVE BEEN FITTED TO THIS T. V. SET, AND  
THREE VERSIONS OF THE MAIN PCB. THE  
CRT'S ARE NOT INTERCHANGABLE.  
Cause: PRODUCTION CHANGES.  
Cure: REFER TO THE TABLE THAT FOLLOWS  
TO ENSURE THAT THE CORRECT PART IS  
OBTAINED FOR REPLACEMENT.  
THE CRT AND CHASSIS TYPE CAN BE FOUND  
BY THE SETS I. D. No. THIS NUMBER IS  
PRINTED ON THE RATING LABEL ON THE  
BACK CABINET NEXT TO THE SERIAL NUMBER  
FOR EXAMPLE FROM THE TABLE WE CAN SEE  
THAT IF THE I. D. No IS 5434 4531 THIS  
C2133TN IS FITTED WITH CRT TYPE  
A51ECQ10X01 AND WITH CHASSIS PART No  
SAL 58644620 & CONTROL PCB SAL 58590361  
I. D. No - 5434 4530  
CHASSIS PART NO: SAL 58644320  
CONTROL PCB PT No: SAL 58590360



CRT TYPE NUMBER: A51ECQ10X01  
CRT PART NUMBER: SAL 43622108  
CHECK THE I. D. No ON THE SET AND MATCH  
AGAINST THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.

Model: C2133TN

Colour tv

Subject: SERVICE INFORMATION  
Fault: CRT AND CHASSIS MATCH/PART No- TL639  
I. D. No - 5434 4531  
CHASSIS PART NUMBER: SAL 58644620  
CONTROL PCB PT NUMBER: SAL 58590361  
CRT TYPE NUMBER: SAL A51ECQ10X01  
CRT PART NUMBER: SAL 43622108  
CHECK THE I. D. No AND MATCH AGAINST  
THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.  
I. D. No - 5434 4532  
CHASSIS PART NUMBER : SAL 58644660  
CONTROL PCB PT NUMBER : SAL 58590361  
CRT TYPE NUMBER: A51EBV13X01  
CRT PART NUMBER : SAL 54344532  
CHECK THE I. D. No AND MATCH IT AGAINST  
THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.

Model: C2133TN

Colour tv

Subject: SERVICE INFORMATION  
Fault: TELETEXT PROCESSOR COMPATABILITY  
Symptom: TWO TELETEXT PROCESSORS HAVE  
BEEN FITTED TO THE NEW CHASSIS VERSION  
Cause: COMPONENT AVAILABILITY.  
Cure: THE ICS ARE PIN COMPATIBLE BUT  
CRYSTALS VARY.  
I. C MSP3400 PT No XSTAL PART No  
C- PP- B5 SAL 37430014 SAL 45710010  
TC15 SAL 37791274 SAL 44213262

Model: C2133TN

Colour tv

Subject: PART NUMBER CHANGES  
Fault: CRT AND CHASSIS MATCH/PART No- TL639  
Symptom: TWO DIFFERENT TYPES OF CRT  
HAVE BEEN FITTED TO THIS T. V. SET, AND  
THREE VERSIONS OF THE MAIN PCB. THE  
CRT' S ARE NOT INTERCHANGABLE.  
Cause: PRODUCTION CHANGES.  
Cure: REFER TO THE TABLE THAT FOLLOWS  
TO ENSURE THAT THE CORRECT PART IS  
OBTAINED FOR REPLACEMENT.

**Model:** C2133TN

**Colour tv**

**Subject:** PART NUMBER CHANGES

**Fault:** CRT AND CHASSIS MATCH/PART No- TL639  
THE CRT AND CHASSIS TYPE CAN BE FOUND  
BY THE SETS I. D. No. THIS NUMBER IS  
PRINTED ON THE RATING LABEL ON THE  
BACK CABINET NEXT TO THE SERIAL NUMBER  
FOR EXAMPLE FROM THE TABLE WE CAN SEE  
THAT IF THE I. D. No IS 5434 4531 THIS  
C2133TN IS FITTED WITH CRT TYPE  
A51ECQ10X01 AND WITH CHASSIS PART No  
SAL 58644620 & CONTROL PCB SAL 58590361  
I. D. No - 5434 4530  
CHASSIS PART NO: SAL 58644320  
CONTROL PCB PT No: SAL 58590360  
CRT TYPE NUMBER: A51ECQ10X01  
CRT PART NUMBER: SAL 43622108  
CHECK THE I. D. No ON THE SET AND MATCH  
AGAINST THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.  
I. D. No - 5434 4531  
CHASSIS PART NUMBER: SAL 58644620  
CONTROL PCB PT NUMBER: SAL 58590361  
CRT TYPE NUMBER: SAL A51ECQ10X01  
CRT PART NUMBER: SAL 43622108  
CHECK THE I. D. No AND MATCH AGAINST  
THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.  
I. D. No - 5434 4532  
CHASSIS PART NUMBER : SAL 58644660  
CONTROL PCB PT NUMBER : SAL 58590361  
CRT TYPE NUMBER: A51EBV13X01  
CRT PART NUMBER : SAL 54344532  
CHECK THE I. D. No AND MATCH IT AGAINST  
THE TABLE BEFORE ORDERING ANY  
REPLACEMENT PARTS.



**Model:** C2146TN

**Colour tv**

**Subject:** POWER SUPPLY

**Fault:** INTERMITTANT GOES TO STANDBY

**Symptom:** SET INTERMITTANTLY REVERTS TO  
'STANDBY' OR CUTS OUT.

**Cause:** DRY JOINTS

**Cure:** CHECK IC951 AND IC952 FOR DRY  
JOINTS AND RESOLDER AS NECESSARY.



**Model:** C2146TN

**Colour tv**

**Subject:** POWER SUPPLY

**Fault:** DEAD SET - ZD951 SHORT CIRCUIT

**Symptom:** SET DEAD, PROTECTION DIODE  
ZD951 HAS GONE SHORT CIRCUIT

**Cause:** HT HAS RISEN TOO HIGH

# HITACHI

Cure: REPLACE ZD951 P#2344122M (25") /  
2344121M (21") AND IC901 OPTO COUPLER  
P# 2917782 TYPE CNX82A. CHECK R950 68K  
HAS NOT RISEN IN VALUE, AND IC951 &  
IC952 FOR DRY JOINTS.

Model: C2146TN Colour tv

Subject: POWER SUPPLY  
Fault: LOSS OF COLOUR & INTERMITTENT TRIP.  
Symptom: LOSS OF COLOUR & INTERMITTENT  
TRIP.  
Cause: ZENER DIODE.  
REPLACE ZD002. 5.1v ZENER.  
PART NO. T536174

Model: C2146TN Colour tv

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY.  
Symptom: STUCK IN STANDBY.  
Cause: DRY JOINTS ON IC 952.  
Cure: CHECK/RE-SOLDER JOINTS ON IC952.  
SEE ALSO FAULT NUMBER 497.

Model: C2146TN Colour tv

Subject: TUNING SELECTION  
Fault: C46TN ON SCREEN ON SWITCH ON  
Symptom: WHEN SWITCHED ON THE O. S. D.  
PROMPT SHOWS C46TN  
Cause: SET IS IN FACTORY SET UP MODE  
Cure: USING THE REMOTE HANDSET;  
PRESS THE TWO VCR RECORD BUTTONS  
SIMULTANEOUSLY. WHEN THE MENU APPEARS  
GO TO STANDBY. SWITCH THE SET BACK ON  
AND THE O. S. D. PROMPT WILL BE REMOVED

Model: C2146TN Colour tv

Subject: TUNING SELECTION  
Fault: CHANNEL IDENT APPEARS WITH VCR PLAY  
Symptom: WHEN PLAYING BACK A VCR TAPE  
THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.  
CAUSE. CORRUPTION TO SYNC FROM THE  
TAPE  
CURE. EACH TIME VCR PLAYBACK STARTS  
PRESS THE ' UPDATE ' BUTTON ON THE T. V.  
HANDSET.

Model: C2146TN

Colour tv

Subject: TUNING SELECTION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
Symptom: AFTER REPLACING I. C. 001 THE  
O. S. D. SHOWS THE PROMPT "C46TN"  
Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
Cure: FOLLOWING REPLACEMENT OF I. C. 001  
YOU WILL NEED TO BRING THE I. C. OUT OF  
THE SET UP MODE. TO DO THIS YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET  
1) PRESS THE VCR RECORD BUTTONS BOTH  
TOGETHER. THESE ARE THE TWO BOTTOM  
OUTER BUTTONS ON THE HANDSET. THE MENU  
ON SCREEN WILL CHANGE TO READ  
VERSION 46 V1.0  
STANDARD I  
DEFAULT 0  
AFC MID  
2) PUT THE SET INTO STAND BY.  
3) SWITCH THE SET BACK ON FROM STAND  
BY. THE AUTO TUNE MENUE WILL APPEAR.  
THE SET MAY BE TUNED IN AS REQUIRED.

Model: C2146TN

Colour tv

Subject: TUNING SELECTION  
Fault: CHANNEL IDENT APPEARS IN VCR PLAY  
Symptom: WHEN PLAYING BACK RECORDINGS  
OF OFF AIR PROGRAMMES, THE CHANNEL  
IDENT APPEARS INTERMITTANTLY.  
Cause: PACKET 830 IDENTIFICATION BY  
MICRO PROCESSOR.  
Cure: CHANGE I. C. 001 PT. No T900644.  
N. B. . VCR PLAYBACK MUST BE VIA SCART TO  
PREVENT RE- OCCURENCE OF SYMPTOMS.

Model: C2146TN

Colour tv

Subject: TUNING SELECTION  
Fault: NO ON SCREEN GRAPHICS.  
Symptom: NO ON SCREEN GRAPHICS, BUT  
FUNCTIONS STILL OPERATE. I. E. VOL. ETC.  
Cause: HORIZONTAL PULSE MISSING FROM  
IC001 PIN26.  
Cure: CHECK/REPLACE ZD002, PT. NO.  
T536174.

Model: C2146TN

Colour tv

Subject: TUNING SELECTION  
Fault: C46TN ON SCREEN DISPLAY  
SECTION: SYS



CONDITION: 2

SYMPTOM 134 C46TN OSD/NICAM SYMBOL  
FLASHING

DEFECT: 1

REPAIR A REPLACE IC001 WITH NEW SOFTWARE  
VERSION.

IC001 PART # E730181 FOR EUROPE

E730180 FOR SCANDINAVIA

NOTE IC 001 IS REPLACED WITH NEW SOFTWARE  
VERSION. THIS WILL PREVENT THE SET  
ENTERING THE SERVICE MODE AND CONSTANT  
FLASHING OF THE NICAM SYMBOL.



Model: C2146TN Colour tv

Subject: TUNER/IF

Fault: NO SOUND OR PICTURE- BLANK RASTER

Symptom: NO SOUND OR PICTURE, JUST A  
BLANK RASTER.

Cause: FAULTY TUNER

Cure: FIT NEW TUNER UNIT PT/No E710029



Model: C2146TN Colour tv

Subject: TUNER/IF

Fault: PICTURE FLICKER - BLACK LINES

Symptom: FLICKERING BLACK LINES CAN BE  
SEEN ACROSS THE PICTURE.

Cause: INTERMITTANT TUNER UNIT

Cure: REPLACE TUNER UNIT PT/No E710029



Model: C2146TN Colour tv

Subject: Y/C SIGNAL PROCESSING

Fault: LOSS OF COLOUR IN A. V. MODE

Symptom: COLOUR LOSS AFTER A PERIOD OF  
TIME IN THE A. V. MODE

Cause: TOLERANCES IN CAPACITORS.

Cure: REPLACE C1308 WITH A 1n0 50v  
PART No 0880031.



Model: C2146TN Colour tv

Subject: Y/C SIGNAL PROCESSING

Fault: COLOUR LOSS WITH MACRO VIDEO TAPES

Symptom: COLOUR LOSS ON HIGH CHROMA  
SATURATION, THIN DARK AREA AT BOTTOM OF  
PICTURE WHEN USING MACRO TAPES.

Cause: MACRO PROTECTION.

Cure: REPLACE I. C. 201 PT/No T900623  
TYPE TDA8362-N4. IF ORIGINAL IC201 IS  
TYPE TDA8361, CHECK R523 IS 8K2 AND  
FIT AS NECESSARY, PART No 0700053

Model: C2146TN

Colour tv

Subject: Y/C SIGNAL PROCESSING  
Fault: APPEARANCE OF NICAM INDICATOR  
Symptom: ERRATIC APPEARANCE OF THE  
NICAM SYMBOLS USUALLY UPON SCENE  
CHANGES FROM LIGHT TO DARK.  
Cause: SHORT CIRCUIT ON NICAM I. C.  
Cure: CHECK FOR SHORT CIRCUIT OF PINS  
24 & 25 OF I. C. 4201. IF S/C EXISTS  
REMOVE.

Model: C2146TN

Colour tv

Subject: Y/C SIGNAL PROCESSING  
Fault: DIAGONAL PATTERNING ON LOW SIGNAL  
Symptom: DIAGONAL COLOURED LINES IN  
LOW SIGNAL CONDITIONS.  
Cause: NICAM INTERFERENCE  
Cure: REPLACE FERRITE BEADS FB005, 6, 7  
& 8 WITH 10uH COIL PART No J2122239.  
MOVE THE POSITION OF C4235 TO THE I. C.  
SIDE OF FB005 SO THE IT IS NOW AT THE  
JUNCTION OF FB005 AND PIN 3 OF IC4201

Model: C2146TN

Colour tv

Subject: Y/C SIGNAL PROCESSING  
Fault: LOSS OF COLOUR & INTERMITTENT TRIP.  
Symptom: LOSS OF COLOUR & INTERMITTENT  
TRIP.  
Cause: ZENER DIODE.  
REPLACE ZD002. 5.1v ZENER.  
PART NO. T536174

Model: C2146TN

Colour tv

Subject: Y/C SIGNAL PROCESSING  
Fault: NO BLUE SIGNAL.  
Symptom: NO BLUE SIGNAL.  
Cause: OPEN CIRCUIT CAPACITOR.  
Cure: CHECK/REPLACE C516.  
PT. NO. 0880057R.

Model: C2146TN

Colour tv

Subject: AUDIO  
Fault: NO SOUND FROM OFF AIR STATIONS.  
Symptom: PICTURE O. K. NO SOUND FROM  
OFF AIR STATIONS.  
Cause: I. C. FAILURE.

# HITACHI

Cure: CHECK / REPLACE I. C. 4051 TDA9800  
PART NUMBER T900602  
CHECK / REPLACE IC001 PT/NO T900644  
CHECK / REPLACE IC002 PT/NO E730045

Model: C2146TN Colour tv

Subject: AUDIO  
Fault: APPEARANCE OF NICAM INDICATOR  
Symptom: ERRATIC APPEARANCE OF THE  
NICAM SYMBOLS USUALLY UPON SCENE  
CHANGES FROM LIGHT TO DARK.  
Cause: SHORT CIRCUIT ON NICAM I. C.  
Cure: CHECK FOR SHORT CIRCUIT OF PINS  
24 & 25 OF I. C. 4201. IF S/C EXISTS  
REMOVE.

Model: C2146TN Colour tv

Subject: AUDIO  
Fault: RANDOM APPEARANCE OF NICAM SYMBOLS  
Symptom: RANDOM APPEARANCE OF NICAM  
SYMBOLS. ALSO SOUND "POPPING".  
Cause: DRY JOINTS ON IC951 & IC952.  
Cure: RE-MAKE JOINTS ON IC951 & IC952.  
SEE ALSO FAULT NO. 515.

Model: C2146TN Colour tv

Subject: AUDIO  
Fault: NO AUDIO, NICAM OR FM  
Symptom: NO AUDIO, NICAM OR FM  
FM AUDIO GOING INTO IC4201 PIN 7.  
Cause: FAULTY MEMORY IC.  
Cure: CHANGE IC 002. PT. NO. E730045.

Model: C2146TN Colour tv

Subject: AUDIO  
Fault: REPEATED FAILURE OF IC4450 AT SW ON  
SECTION: APA  
CONDITION: 1  
Symptom: 511 NO SOUND  
DEFECT: Q SHORT CIRCUIT  
REPAIR: A REPLACE IC4450 , C4466  
AND C4467.  
PART NUMBERS: IC4450 2020011  
C4466&C4467 0800044R

Model: C2146TN Colour tv

Subject: VERTICAL STAGE

# HITACHI

Fault: FLYBACK LINES AT TOP OF PICTURE  
Symptom: FLYBACK LINES VISIBLE AT THE  
TOP OF THE PICTURE.  
Cause: FAULTY FRAME I. C.  
Cure: REPLACE FRAME IC601 TYPE TA8427K  
PART NUMBER J2003951

Model: C2146TN Colour tv

Subject: TELETEXT  
Fault: CHANNEL IDENT APPEARS WITH VCR PLAY  
Symptom: WHEN PLAYING BACK A VCR TAPE  
THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.  
CAUSE. CORRUPTION TO SYNC FROM THE  
TAPE  
CURE. EACH TIME VCR PLAYBACK STARTS  
PRESS THE 'UPDATE' BUTTON ON THE T. V.  
HANDSET.

Model: C2146TN Colour tv

Subject: SERVICE INFORMATION  
Fault: "MINI" HANDSET COMPATABILITY  
THERE ARE TWO VERSIONS OF THE "MINI"  
HANDSET AVAILABLE. THESE ARE USED IN  
CONJUNCTION WITH THE C21/5/846TN AND  
THE C21/547TN. THE TYPE & PART NUMBERS  
ARE LISTED BELOW.  
CL903 JHL00121 USE WITH 47 SERIES CTV  
CL903A JHL00122 USE WITH 46 & 47 CTV  
IF THE CL903 IS USED WITH THE 46  
SERIES CTV, SOME BUTTONS MAY FAIL TO  
OPERATE THE TELEVISION SET.

Model: C2146TN Colour tv

Subject: SERVICE INFORMATION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
Symptom: AFTER REPLACING I. C. 001 THE  
O. S. D. SHOWS THE PROMPT "C46TN"  
Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
Cure: FOLLOWING REPLACEMENT OF I. C. 001  
YOU WILL NEED TO BRING THE I. C. OUT OF  
THE SET UP MODE. TO DO THIS YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET  
1) PRESS THE VCR RECORD BUTTONS BOTH  
TOGETHER. THESE ARE THE TWO BOTTOM  
OUTER BUTTONS ON THE HANDSET. THE MENU  
ON SCREEN WILL CHANGE TO READ  
VERSION 46 V1.0  
STANDARD I

# HITACHI

DEFAULT 0  
AFC MID  
2) PUT THE SET INTO STAND BY.  
3) SWITCH THE SET BACK ON FROM STAND BY. THE AUTO TUNE MENUE WILL APPEAR. THE SET MAY BE TUNED IN AS REQUIRED.

Model: C2146TN

Colour tv

Subject: PART NUMBER CHANGES  
Fault: UPDATED I. C. 201 - TDA8362-N4  
Symptom: IC201 HAS BEEN CHANGED TO AN ISSUE 4 MASK.  
Cause: MASK CHANGE BY IC MANUFACTURER  
Cure: WHEN ORDERING THIS NEW VERSION OF IC201 USE PART NUMBER T900623. IF THIS IS TO REPLACE TYPE TDA8361, CHECK R523 IS 8K2 AND REPLACE AS NECESSARY. PART No 0700053.

Model: C2146TN

Colour tv

Subject: SERVICE INFORMATION  
Fault: NO TUNING/ MAX. AUDIO NOT POSSIBLE.  
Symptom: NO TUNING, MAX. AUDIO NOT POSSIBLE.  
Cause: TV IN PSEUDO HOTEL MODE.  
Cure: PRESS/HOLD VOL+/- ON TV FRONT AND SWITCH SET ON AT FRONT. PRESS 2 VCR REC BUTTONS ON REMOTE. CHECK FOR "H" AT LOWER RIGHT OF MENU. IF PRESENT, DELETE USING -/-- BUTTON. THEN GO TO STANDBY.

Model: C2146TN

Colour tv

Subject: AUDIO  
Fault: NO MONO SOUND NICAM SOUND OK  
Symptom: NO MONO SOUND, NICAM SOUND OK  
Cause: IC 1401 TYPE TA8777N  
Cure: REPLACE IC 1401  
IC 1401 PART NUMBER J2004651

Model: C2147TN

COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET - ZD951 SHORT CIRCUIT  
Symptom: SET DEAD, PROTECTION DIODE ZD951 HAS GONE SHORT CIRCUIT  
Cause: HT HAS RISEN TOO HIGH  
Cure: REPLACE ZD951 P#2344122M (25") / 2344121M (21") AND IC901 OPTO COUPLER P# 2917782 TYPE CNX82A. CHECK R950 68K HAS NOT RISEN IN VALUE, AND IC951 &

## IC952 FOR DRY JOINTS.

Model: C2147TN COLOUR TV

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY.  
Symptom: STUCK IN STANDBY.  
Cause: DRY JOINTS ON IC 952.  
Cure: CHECK/RE-SOLDER JOINTS ON IC952.  
SEE ALSO FAULT NUMBER 497.

Model: C2147TN COLOUR TV

Subject: TUNING SELECTION  
Fault: C46TN ON SCREEN ON SWITCH ON  
Symptom: WHEN SWITCHED ON THE O. S. D.  
PROMPT SHOWS C46TN  
Cause: SET IS IN FACTORY SET UP MODE  
Cure: USING THE REMOTE HANDSET;  
PRESS THE TWO VCR RECORD BUTTONS  
SIMULTANEOUSLY. WHEN THE MENU APPEARS  
GO TO STANDBY. SWITCH THE SET BACK ON  
AND THE O. S. D. PROMPT WILL BE REMOVED

Model: C2147TN COLOUR TV

Subject: TUNING SELECTION  
Fault: CHANNEL IDENT APPEARS WITH VCR PLAY  
Symptom: WHEN PLAYING BACK A VCR TAPE  
THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.  
CAUSE. CORRUPTION TO SYNC FROM THE  
TAPE  
CURE. EACH TIME VCR PLAYBACK STARTS  
PRESS THE ' UPDATE ' BUTTON ON THE T. V.  
HANDSET.

Model: C2147TN COLOUR TV

Subject: TUNING SELECTION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
Symptom: AFTER REPLACING I. C. 001 THE  
O. S. D. SHOWS THE PROMPT "C46TN"  
Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
Cure: FOLLOWING REPLACEMENT OF I. C. 001  
YOU WILL NEED TO BRING THE I. C. OUT OF  
THE SET UP MODE. TO DO THIS YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET  
1) PRESS THE VCR RECORD BUTTONS BOTH  
TOGETHER. THESE ARE THE TWO BOTTOM  
OUTER BUTTONS ON THE HANDSET. THE MENU  
ON SCREEN WILL CHANGE TO READ

# HITACHI

VERSION 46 V1.0

STANDARD I

DEFAULT 0

AFC MID

2) PUT THE SET INTO STAND BY.

3) SWITCH THE SET BACK ON FROM STAND BY. THE AUTO TUNE MENUE WILL APPEAR. THE SET MAY BE TUNED IN AS REQUIRED.



## Model: C2147TN COLOUR TV

Subject: TUNING SELECTION

Fault: CHANNEL IDENT APPEARS IN VCR PLAY

Symptom: WHEN PLAYING BACK RECORDINGS OF OFF AIR PROGRAMMES, THE CHANNEL IDENT APPEARS INTERMITTANTLY.

Cause: PACKET 830 IDENTIFICATION BY MICRO PROCESSOR.

Cure: CHANGE I. C. 001 PT. No T900644.  
N. B. . VCR PLAYBACK MUST BE VIA SCART TO PREVENT RE-OCCURENCE OF SYMPTOMS.



## Model: C2147TN COLOUR TV

Subject: TUNING SELECTION

Fault: NO ON SCREEN GRAPHICS.

Symptom: NO ON SCREEN GRAPHICS, BUT FUNCTIONS STILL OPERATE. I. E. VOL. ETC.  
Cause: HORIZONTAL PULSE MISSING FROM IC001 PIN26.

Cure: CHECK/REPLACE ZD002, PT. NO. T536174.



## Model: C2147TN COLOUR TV

Subject: TUNER/IF

Fault: NO SOUND OR PICTURE-BLANK RASTER

Symptom: NO SOUND OR PICTURE, JUST A BLANK RASTER.

Cause: FAULTY TUNER

Cure: FIT NEW TUNER UNIT PT/No E710029



## Model: C2147TN COLOUR TV

Subject: TUNER/IF

Fault: PICTURE FLICKER - BLACK LINES

Symptom: FLICKERING BLACK LINES CAN BE SEEN ACROSS THE PICTURE.

Cause: INTERMITTANT TUNER UNIT

Cure: REPLACE TUNER UNIT PT/No E710029





Model: C2147TN COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** LOSS OF COLOUR IN A. V. MODE  
**Symptom:** COLOUR LOSS AFTER A PERIOD OF  
TIME IN THE A. V. MODE  
**Cause:** TOLERANCES IN CAPACITORS.  
**Cure:** REPLACE C1308 WITH A 1n0 50v  
PART No 0880031.

Model: C2147TN COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** COLOUR LOSS WITH MACRO VIDEO TAPES  
**Symptom:** COLOUR LOSS ON HIGH CHROMA SATURATION, THIN DARK AREA AT BOTTOM OF PICTURE WHEN USING MACRO TAPES.  
**Cause:** MACRO PROTECTION.  
**Cure:** REPLACE I. C. 201 PT/No T900623 TYPE TDA8362-N4. IF ORIGINAL IC201 IS TYPE TDA8361, CHECK R523 IS 8K2 AND FIT AS NECESSARY. PART No 0700053

Model: C2147TN COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** NO BLUE SIGNAL.  
**Symptom:** NO BLUE SIGNAL.  
**Cause:** OPEN CIRCUIT CAPACITOR.  
**Cure:** CHECK/REPLACE C516.  
 PT. NO. 0880057R.

Model : C2147TN                      COLOUR TV

**Subject:** AUDIO  
**Fault:** NO SOUND FROM OFF AIR STATIONS.  
**Symptom:** PICTURE O. K. NO SOUND FROM  
OFF AIR STATIONS.  
**Cause:** I. C. FAILURE.  
**Cure:** CHECK / REPLACE I. C. 4051 TDA9800  
PART NUMBER T900602  
CHECK / REPLACE IC001 PT/NO T900644  
CHECK / REPLACE IC002 PT/NO E730045

Model : C2147TN                      COLOUR TV

**Subject:** AUDIO  
**Fault:** RANDOM APPEARANCE OF NICAM SYMBOLS  
**Symptom:** RANDOM APPEARANCE OF NICAM  
 SYMBOLS. ALSO SOUND "POPPING".  
**Cause:** DRY JOINTS ON IC951 & IC952.  
**Cure:** RE-MAKE JOINTS ON IC951 & IC952.  
 SEE ALSO FAULT NO. 515.



Model: C2147TN COLOUR TV

Subject: AUDIO  
Fault: NO AUDIO, NICAM OR FM  
Symptom: NO AUDIO, NICAM OR FM  
FM AUDIO GOING INTO IC4201 PIN 7.  
Cause: FAULTY MEMORY IC.  
Cure: CHANGE IC 002. PT. NO. E730045.

Model: C2147TN COLOUR TV

Subject: TELETEXT  
Fault: CHANNEL IDENT APPEARS WITH VCR PLAY  
Symptom: WHEN PLAYING BACK A VCR TAPE  
THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.  
CAUSE. CORRUPTION TO SYNC FROM THE  
TAPE  
CURE. EACH TIME VCR PLAYBACK STARTS  
PRESS THE 'UPDATE' BUTTON ON THE T. V.  
HANDSET.

Model: C2147TN COLOUR TV

Subject: SERVICE INFORMATION  
Fault: "MINI" HANDSET COMPATABILITY  
THERE ARE TWO VERSIONS OF THE "MINI"  
HANDSET AVAILABLE. THESE ARE USED IN  
CONJUNCTION WITH THE C21/5/846TN AND  
THE C21/547TN. THE TYPE & PART NUMBERS  
ARE LISTED BELOW.  
CL903 JHL00121 USE WITH 47 SERIES CTV  
CL903A JHL00122 USE WITH 46 & 47 CTV  
IF THE CL903 IS USED WITH THE 46  
SERIES CTV, SOME BUTTONS MAY FAIL TO  
OPERATE THE TELEVISION SET.

Model: C2147TN COLOUR TV

Subject: SERVICE INFORMATION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
Symptom: AFTER REPLACING I. C. 001 THE  
O. S. D. SHOWS THE PROMPT "C46TN"  
Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
Cure: FOLLOWING REPLACEMENT OF I. C. 001  
YOU WILL NEED TO BRING THE I. C. OUT OF  
THE SET UP MODE. TO DO THIS YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET  
1) PRESS THE VCR RECORD BUTTONS BOTH  
TOGETHER. THESE ARE THE TWO BOTTOM  
OUTER BUTTONS ON THE HANDSET. THE MENU

# HITACHI

ON SCREEN WILL CHANGE TO READ

VERSION 46 V1.0

STANDARD I

DEFAULT 0

AFC MID

2) PUT THE SET INTO STAND BY.

3) SWITCH THE SET BACK ON FROM STAND BY. THE AUTO TUNE MENUE WILL APPEAR. THE SET MAY BE TUNED IN AS REQUIRED.



**Model: C2147TN COLOUR TV**

**Subject: PART NUMBER CHANGES**

**Fault: UPDATED I. C. 201 - TDA8362-N4**

**Symptom: IC201 HAS BEEN CHANGED TO AN  
ISSUE 4 MASK.**

**Cause: MASK CHANGE BY IC MANUFACTURER**

**Cure: WHEN ORDERING THIS NEW VERSION  
OF IC201 USE PART NUMBER T900623. IF  
THIS IS TO REPLACE TYPE TDA8361, CHECK  
R523 IS 8K2 AND REPLACE AS NECESSARY.  
PART No 0700053.**



**Model: C2156TN 21" Ni cam**

**Subject: TUNING SELECTION**

**Fault: CHANGE OF MEMORY IC002**

**SECTION: SYS**

**CONDITION: 1**

**Symptom: 185 CHANGE OF IC002**

**DEFECT: 1 UPDATED SOFTWARE**

**REPAIR A PT# E730188**



**Model: C2156TN 21" Ni cam**

**Subject: Y/C SIGNAL PROCESSING**

**Fault: BLANK SCREEN AT SWITCH ON**

**SECTION: CRT**

**CONDITION: 1**

**Symptom: 315 BLANK SCREEN**

**DEFECT: Y**

**REPAIR A CHANGE R896, R897 AND R898  
FROM 150R TO 220R. CONNECT A METER TO  
THE GREEN CATHODE AND ADJUST THE  
SCREEN CONTROL FOR A READING OF 147V.**



**Model: C2156TN 21" Ni cam**

**Subject: AUDIO**

**Fault: DISTORTED SOUND AT LOW VOLUME**

**SECTION: APA**

**CONDITION: 1**

**Symptom: 532 DISTORTED SOUND**

DEFECT: Z  
REPAIR: A REMOVE J203 AND J204 AND  
REPLACE WITH 100R RESISTORS. DECOUPLE  
PINS 60 AND 61 OF IC400 WITH 10nF 50V

Model: C2156TN 21" Ni cam

Subject: VERTICAL STAGE  
Fault: IC601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 11B/316  
DEFECT: Q IC601 SHORT CIRCUIT  
REPAIR: A CHECK IF R616 68K IS FITTED  
TO PCB. IF NOT FITTED, CONNECT ACROSS  
ZD603 ON THE PRINT SIDE.  
PART # IC601 T900642  
68K RESISTOR J0700065M

Model: C2156TN 21" Ni cam

Subject: HORIZONTAL STAGE  
Fault: INCORRECT EW WIDTH  
SECTION: DFL  
CONDITION: 1  
Symptom: 33A INCORRECT WIDTH  
DEFECT: Y WRONG CAPACITANCE  
REPAIR: A REPLACE C707 WITH 470pF 2KV  
PART # JAJ00129

Model: C2156TN 21" Ni cam

Subject: TELETEXT  
Fault: TELETEXT TOO BRIGHT  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 TELETEXT TOO BRIGHT  
DEFECT: 1  
REPAIR: A DELETE R817, R818, R819, C805  
C806, C807. CHANGE C881, C882 AND C883  
FROM 220pF TO 180pF.  
C881, C882, C883 PART # J0890077R

Model: C2156TN 21" Ni cam

Subject: PART NUMBER CHANGES  
Fault: CONTROL DOOR DAMAGED  
SECTION: CBT  
CONDITION: 1  
Symptom: 185 IMPROVEMENT  
DEFECT: D CONTROL DOOR DAMAGED  
REPAIR: A MODIFIED CONTROL DOOR PART #  
X263536 FOR C21/25/2856TN

# HITACHI

PART # X263537 FOR C2186TN  
NOTE. MODIFIED CONTROL DOOR HAS BEEN  
FITTED FROM S/NO. U7K001101 ON C2156TN  
U7K002601 ON C2556TN  
U7L005601 ON C2186TN

Model: C2156TN 21" Ni cam

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF T701 PART NUMBER  
SECTION: DFL  
CONDITION: 1  
Symptom: 185 CHANGE OF T701 PT#  
DEFECT: Q  
REPAIR: A PART # FOR T701 IS JBW01011

Model: C2156TN 21" Ni cam

Subject: TUNER/IF/VIDEO  
Fault: DISTORTED SOUND FROM COLD  
SECTION: TUN  
CONDITION: 6  
Symptom: 532 DISTORTED AUDIO FROM COLD  
DEFECT: C L203 MIS-ALIGNED  
REPAIR: C CONNECT METER TO THE JUNCTION OF R225 AND R226. ON A GOOD SIGNAL  
ADJUST L203 FOR A READING OF 4.25V

Model: C2156TN 21" Ni cam

Subject: TUNER/IF/VIDEO  
Fault: CHANGE OF COMPOSITE VIDEO LEVEL  
SECTION: IFC  
CONDITION: 1  
Symptom: 185 CHANGE OF COMP. VIDEO LEVEL  
DEFECT: Y  
REPAIR: A CHANGE R505 FROM 270R TO 220R. PART # J0700032M

Model: C2164TN COLOUR TV

Subject: TUNING SELECTION  
Fault: WILL NOT COME OUT OF STANDBY  
Symptom: THE SET WILL NOT COME OUT OF  
THE STANDBY MODE, OR MAY TAKE THREE OR  
FOUR ATTEMPTS TO RESPOND FROM STANDBY  
Cause: MICRO PROCESSOR NOT RESPONDING  
TO THE COMMAND.  
Cure: CHANGE THE VALUE OF R097 FROM  
2K7 TO 1K 0.25W



Cure: DO NOT USE CH 59 FOR NORMAL USE

Model: C2164TN COLOUR TV

Subject: SERVICE INFORMATION

Fault: CRT REPLACEMENT

THE ORIGINAL HITACHI TYPE CRT  
(PT NO 2470601) A51JSY61X21 HAS  
BEEN REPLACED BY A PHILIPS CRT  
TYPE A51EAL55X11 (PT NO T154010)  
WHEN FITTING THE PHILIPS CRT IN PLACE  
OF THE HITACHI ORIGINAL YOU WILL NEED  
TO CARRY OUT THE FOLLOWING CHANGES

Model: C2164TN COLOUR TV

Subject: SERVICE INFORMATION

Fault: CRT REPLACEMENT

C2118/9T REQUIRES L702 TO BE 56 uH  
(PART NUMBER 2122093)  
C2164TN REQUIRES L704 TO BE 56 MICRO H  
(PART NUMBER 2122093)  
C2114T REQUIRES L802 TO BE 56 MICRO H  
(PART NUMBER 2122093)

· · · · ·  
F B L L B F  
SCAN COIL CONNECTIONS

L = LINE F = FRAME B = BLANK

Model: C2164TN COLOUR TV

Subject: SERVICE INFORMATION

Fault: OSD PROMPT NA APPEARS

Symptom: WHEN SWITCHED ON THE O. S. D.  
SHOWS THE PROMPT N. A.

Cause: THE SET IS IN FACTORY SET UP  
MODE.

Cure: ONCE SWITCHED ON, PUT THE SET IN  
THE STANDBY MODE WITH THE REMOTE HAND  
SET. WHEN SWITCHED ON AGAIN THE PROMPT  
WILL BE REMOVED.

Model: C2164TN COLOUR TV

Subject: SERVICE INFORMATION

Fault: PT NO. FOR MICRO PROCESSOR (IB274)

THE PART NUMBER FOR THE MICROPROCESSOR  
FOR THIS SET IS AS STATED IN THE  
SERVICE MANUAL:

PART NO : J2001782

TYPE NO : TMP47C1637 U252



Model: C2166TN 51cm Ni cam (Exclusive) see2146

Subject: TUNING SELECTION  
Fault: NO ON SCREEN GRAPHICS.  
Symptom: NO ON SCREEN GRAPHICS, BUT  
FUNCTIONS STILL OPERATE. I. E. VOL. ETC.  
Cause: HORIZONTAL PULSE MISSING FROM  
IC001 PIN26.  
Cure: CHECK/REPLACE ZD002, PT. NO.  
T536174.

Model: C2166TN 51cm Ni cam (Exclusive) see2146

Subject: Y/C SIGNAL PROCESSING  
Fault: APPEARANCE OF NICAM INDICATOR  
Symptom: ERRATIC APPEARANCE OF THE  
NICAM SYMBOLS USUALLY UPON SCENE  
CHANGES FROM LIGHT TO DARK.  
Cause: SHORT CIRCUIT ON NICAM I. C.  
Cure: CHECK FOR SHORT CIRCUIT OF PINS  
24 & 25 OF I. C. 4201. IF S/C EXISTS  
REMOVE.

Model: C2166TN 51cm Ni cam (Exclusive) see2146

Subject: Y/C SIGNAL PROCESSING  
Fault: DIAGONAL PATTERNING ON LOW SIGNAL  
Symptom: DIAGONAL COLOURED LINES IN  
LOW SIGNAL CONDITIONS.  
Cause: NICAM INTERFERENCE  
Cure: REPLACE FERRITE BEADS FB005, 6, 7  
& 8 WITH 10uH COIL PART No J2122239.  
MOVE THE POSITION OF C4235 TO THE I. C.  
SIDE OF FB005 SO THE IT IS NOW AT THE  
JUNCTION OF FB005 AND PIN 3 OF IC4201

Model: C2166TN 51cm Ni cam (Exclusive) see2146

Subject: Y/C SIGNAL PROCESSING  
Fault: LOSS OF COLOUR & INTERMITTENT TRIP.  
Symptom: LOSS OF COLOUR & INTERMITTENT  
TRIP.  
Cause: ZENER DIODE.  
REPLACE ZD002. 5.1v ZENER.  
PART NO. T536174

Model: C2166TN 51cm Ni cam (Exclusive) see2146

Subject: Y/C SIGNAL PROCESSING  
Fault: NO BLUE SIGNAL.  
Symptom: NO BLUE SIGNAL.



**Cause:** OPEN CIRCUIT CAPACITOR.  
**Cure:** CHECK/REPLACE C516.  
PT. NO. 0880057R.

Model: C2166TN 51cm Ni cam (Exclusive) see2146

**Subject:** AUDIO  
**Fault:** APPEARANCE OF NICAM INDICATOR  
**Symptom:** ERRATIC APPEARANCE OF THE  
NICAM SYMBOLS USUALLY UPON SCENE  
CHANGES FROM LIGHT TO DARK.  
**Cause:** SHORT CIRCUIT ON NICAM I. C.  
**Cure:** CHECK FOR SHORT CIRCUIT OF PINS  
24 & 25 OF I. C. 4201. IF S/C EXISTS  
REMOVE.

Model: C2166TN 51cm Ni cam (Exclusive) see2146

**Subject:** AUDIO  
**Fault:** RANDOM APPEARANCE OF NICAM SYMBOLS  
**Symptom:** RANDOM APPEARANCE OF NICAM  
SYMBOLS. ALSO SOUND "POPPING".  
**Cause:** DRY JOINTS ON IC951 & IC952.  
**Cure:** RE-MAKE JOINTS ON IC951 & IC952.  
SEE ALSO FAULT NO. 515.

Model: C2166TN 51cm Ni cam (Exclusive) see2146

**Subject:** AUDIO  
**Fault:** NO AUDIO, NICAM OR FM  
**Symptom:** NO AUDIO, NICAM OR FM  
FM AUDIO GOING INTO IC4201 PIN 7.  
**Cause:** FAULTY MEMORY IC.  
**Cure:** CHANGE IC 002. PT. NO. E730045.

Model: C2166TN 51cm Ni cam (Exclusive) see2146

**Subject:** VERTICAL STAGE  
**Fault:** FLYBACK LINES AT TOP OF PICTURE  
**Symptom:** FLYBACK LINES VISIBLE AT THE  
TOP OF THE PICTURE.  
**Cause:** FAULTY FRAME I. C.  
**Cure:** REPLACE FRAME IC601 TYPE TA8427K  
PART NUMBER J2003951

Model: C2166TN 51cm Ni cam (Exclusive) see2146

**Subject:** SERVICE INFORMATION  
**Fault:** NO TUNING/ MAX. AUDIO NOT POSSIBLE.  
**Symptom:** NO TUNING, MAX. AUDIO NOT  
POSSIBLE.  
**Cause:** TV IN PSEUDO HOTEL MODE.



Cure: PRESS/HOLD VOL+/- ON TV FRONT AND  
SWITCH SET ON AT FRONT. PRESS 2 VCR REC  
BUTTONS ON REMOTE. CHECK FOR "H" AT LOWER  
RIGHT OF MENU. IF PRESENT, DELETE USING  
-/- - BUTTON. THEN GO TO STANDBY.

Model: C2166TN 51cm Nicam (Exclusive) see2146

Subject: AUDIO  
Fault: NO MONO SOUND NICAM SOUND OK  
Symptom: NO MONO SOUND, NICAM SOUND OK  
Cause: IC 1401 TYPE TA8777N  
Cure: REPLACE IC 1401  
IC 1401 PART NUMBER J2004651

Model: C2186TN 21" PRO LOGIC

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: C2186TN 21" PRO LOGIC

Subject: Y/C SIGNAL PROCESSING  
Fault: BLANK SCREEN AT SWITCH ON  
SECTION: CRT  
CONDITION: 1  
Symptom: 315 BLANK SCREEN  
DEFECT: Y  
REPAIR A CHANGE R896, R897 AND R898  
FROM 150R TO 220R. CONNECT A METER TO

Model: C2186TN 21" PRO LOGIC

Subject: Y/C SIGNAL PROCESSING  
Fault: BLANK SCREEN AT SWITCH ON  
THE GREEN CATHODE AND ADJUST THE  
SCREEN CONTROL FOR A READING OF 147V.

Model: C2186TN 21" PRO LOGIC

Subject: AUDIO  
Fault: DISTORTED SOUND AT LOW VOLUME  
SECTION: APA  
CONDITION: 1  
Symptom: 532 DISTORTED SOUND  
DEFECT: Z  
REPAIR: A REMOVE J203 AND J204 AND



REPLACE WITH 100R RESISTORS. DECOUPLE  
PINS 60 AND 61 OF IC400 WITH 10nF 50V

Model: C2186TN 21" PRO LOGIC

Subject: VERTICAL STAGE  
Fault: IC601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 11B/316  
DEFECT: Q IC601 SHORT CIRCUIT  
REPAIR: A CHECK IF R616 68K IS FITTED  
TO PCB. IF NOT FITTED, CONNECT ACROSS  
ZD603 ON THE PRINT SIDE.  
PART # IC601 T900642  
68K RESISTOR J0700065M

Model: C2186TN 21" PRO LOGIC

Subject: TELETEXT  
Fault: TELETEXT TOO BRIGHT  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 TELETEXT TOO BRIGHT  
DEFECT: 1  
REPAIR: A DELETE R817, R818, R819, C805  
C806, C807. CHANGE C881, C882 AND C883  
FROM 220pF TO 180pF.  
C881, C882, C883 PART # J0890077R

Model: C2186TN 21" PRO LOGIC

Subject: PART NUMBER CHANGES  
Fault: CONTROL DOOR DAMAGED  
SECTION: CBT  
CONDITION: 1  
Symptom: 185 IMPROVEMENT  
DEFECT: D CONTROL DOOR DAMAGED  
REPAIR: A MODIFIED CONTROL DOOR PART #  
X263536 FOR C21/25/2856TN  
PART # X263537 FOR C2186TN  
NOTE. MODIFIED CONTROL DOOR HAS BEEN  
FITTED FROM S/NO. U7K001101 ON C2156TN  
U7K002601 ON C2556TN  
U7L005601 ON C2186TN

Model: C2186TN 21" PRO LOGIC

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF T701 PART NUMBER  
SECTION: DFL  
CONDITION: 1  
Symptom: 185 CHANGE OF T701 PT#



DEFECT: Q  
REPAIR: A PART # FOR T701 IS JBW01011

Model: C2186TN 21" PRO LOGIC

Subject: TUNER/IF/VIDEO  
Fault: DISTORTED SOUND FROM COLD  
SECTION: TUN  
CONDITION: 6  
Symptom: 532 DISTORTED AUDIO FROM COLD  
DEFECT: C L203 MIS-ALIGNED  
REPAIR: C CONNECT METER TO THE JUNCTION OF R225 AND R226. ON A GOOD SIGNAL  
ADJUST L203 FOR A READING OF 4.25V

Model: C2186TN 21" PRO LOGIC

Subject: TUNER/IF/VIDEO  
Fault: CHANGE OF COMPOSITE VIDEO LEVEL  
SECTION: IFC  
CONDITION: 1  
Symptom: 185 CHANGE OF COMP. VIDEO LEVEL  
DEFECT: Y  
REPAIR: A CHANGE R505 FROM 270R TO 220R. PART # J0700032M

Model: C24W1TN 24" 16 x 9 Wide Screen

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A PT# E730188

Model: C24W1TN 24" 16 x 9 Wide Screen

Subject: VERTICAL STAGE  
Fault: ADDITION OF D601 AND J40  
SECTION: DFL  
CONDITION: 1  
Symptom: 185 ADDITION OF D601 AND J40  
DEFECT: Z COMPONENT MISSING  
REPAIR: A D601 AND J40 HAVE BEEN ADDED TO PROTECTION LINE. D601 PT # J2348921M

Model: C24W1TN 24" 16 x 9 Wide Screen

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART #, IR LED LENS  
SECTION: REM REMOTE SECTION



Model: C25P226 COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.  
Cause: FAULTY DIODE.  
Cure: CHECK/REPLACE D907 LEAKY.  
PT. NO. T531056.

Model: C25P226 COLOUR TV

Subject: TUNING SELECTION  
Fault: NO PICTURE/ SOUND - STUCK IN AV  
Symptom: NO PICTURE OR SOUND, BLANK  
RASTER.  
Cause: SET LOCKED IN A. V. MODE  
Cure: REPLACE IC1501, & IC 1502 AS A  
PAIR, TO ENSURE NO CORRUPT DATA IS  
TRANSFERED FROM ORIGINAL I. C. 'S

Model: C25P226 COLOUR TV

Subject: TUNING SELECTION  
Fault: PATTERNING / UNSTABLE I. F.  
Symptom: TUNING IS LOCKED BUT APPEARS  
TO BE UNSTABLE. INTERFERENCE ON SCREEN  
Cause: RESISTOR GONE HIGH  
Cure: CHECK / REPLACE R001 22K 0.25W  
PT NO. R242330

Model: C25P226 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: NO RASTER OR ALL ONE COLOUR  
Symptom: NO RASTER AT ALL, OR JUST ONE  
COLOUR VISIBLE OF PICTURE CONTENT.  
Cause: FAULTY I. C.  
Cure: REPLACE I. C. 501 TDA3566  
PART NUMBER T900491

Model: C25P226 COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: SCREEN BLANK IN VCR SEARCH MODE  
Symptom: WHEN USING TWO HEAD VCR'S IN  
VISUAL SEARCH MODE THE SCREEN BLANKS  
Cause: BLANKING CUTS IN DUE TO LACK OF  
SYNC INFORMATION.  
Cure: REMOVE Q1507 & R1539. ADD TWO  
DIODES IN4148, P/NO T531053. CATHODES  
OF BOTH TO FREE END OF R1522. ONE ANODE

TO EMITTER Q1509, ONE TO EMITTER Q1508

Model: C25P226 COLOUR TV

Subject: VERTICAL STAGE  
Fault: FRAME TWITCHING.  
Symptom: FRAME TWITCHING.  
Cause: DRY JOINT.  
Cure: CHECK/RE-MAKE DRY JOINT AT C604.

Model: C25P226 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: Q702 FAILS AFTER A FEW HOURS  
Symptom: Q702 FAILS AFTER A FEW HOURS  
Cause: 12V RAIL LOW  
Cure: CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE

Model: C25P228 COLOUR TV

Subject: POWER SUPPLY  
Fault: NO EHT. LOW FOCUS VOLTS  
CHANGE T702 FLYBACK TRANSFORMER  
PART NO 2435064

Model: C25P228 COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY SHUTS DOWN/PULSING  
Symptom: SET CUTS OUT INTERMITTANTLY, OR  
PULSES FROM COLD  
Cause: OVER VOLTS UNIT CONDUCTING.  
Cure: CHECK/REPLACE 0C941, Q941, ZD941  
(REPLACE WITH HITACHI PARTS ONLY).

Model: C25P228 COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD DUE TO FAILURE OF Q702  
Cause: INTERACTION BETWEEN L701 & L703  
Cure: ENSURE REPLACEMENT OF Q702 WITH  
HITACHI SPARE PART NUMBER T636041.  
EASE L703 AWAY FROM L701 BY MOVING IT  
TOWARD R707. IT SHOULD THEN BE SECURED  
IN PLACE USING HOT MELT. FURTHER MORE  
ENSURE THAT L703 DOES NOT CROSS THE  
THICK BARRIER LINE MARKED ON THE PCB  
AND THAT L701 IS UPRIGHT.  
YOU SHOULD ALSO CHECK THE FOLLOWING









**Model : C25P759 COLOUR TV**

**Subject:** POWER SUPPLY  
**Fault:** SOUND REMAINS MUTED AT SWITCH ON  
**Symptom:** THE SOUND REMAINS MUTED FOR  
A LONG PERIOD OF TIME AFTER THE SET IS  
SWITCHED ON FROM COLD.  
**Cause:** CAPACITORS DRYING OUT.  
**Cure:** CHECK THE - 4. 5V RAIL FOR RIPPLE  
REPLACE CB624 220uF 16V AND CB523 ALSO  
220uF 16V PART NUMBER 0800058R



**Model : C25P759 COLOUR TV**

**Subject:** AUDIO  
**Fault:** SOUND REMAINS MUTED AT SWITCH ON  
**Symptom:** THE SOUND REMAINS MUTED FOR  
A LONG PERIOD OF TIME AFTER THE SET IS  
SWITCHED ON FROM COLD.  
**Cause:** CAPACITORS DRYING OUT.  
**Cure:** CHECK THE - 4. 5V RAIL FOR RIPPLE  
REPLACE CB624 220uF 16V AND CB523 ALSO  
220uF 16V PART NUMBER 0800058R



**Model : C25P759 COLOUR TV**

**Subject:** VERTICAL STAGE  
**Fault:** FRAME FOLDOVER AND FLYBACK LINES  
**Symptom:** FRAME FOLDOVER, WITH FLYBACK  
LINES  
**Cause:** O/C RESISTOR  
**Cure:** CHECK / REPLACE RB577



**Model : C25P759 COLOUR TV**

**Subject:** VERTICAL STAGE  
**Fault:** DEAD SET CHANNEL LED DIM &/OR FLASH  
**Symptom:** SET DEAD, CHANNEL No LED DIM  
**Cause:** LEAKY DIODE / FAULTY I. C.  
**Cure:** CHECK / REPLACE DB525 AND ICB570  
(TDA8172)



**Model : C25P759 COLOUR TV**

**Subject:** VERTICAL STAGE  
**Fault:** INTERMITTENT/PERMANENT NON-OPERATIO  
RE-MAKE JOINTS AROUND LOPT C528, C617,  
C524, C531, C614, C525 AND C527 BY:  
1. REMOVING SOLDER FROM JOINTS  
2. BENDING COMPONENT LEADS OVER TO  
PROVIDE GOOD MECHANICAL CONNECTION  
3. RE-SOLDER JOINTS









WITH TPU2735 PART NO LMD770  
PLEASE RETURN THE OLD ICS WITH YOUR  
GUARANTEE CLAIMS



Model: C25P759 COLOUR TV

Subject: TELETEXT  
Fault: DIFFICULTY IN SELECTING SOME CEEFAX  
TELETEXT PAGES PLUS INTERMITTENT  
FLICKERING VERTICAL LINES  
REPLACE ICI CCUSAL007 WITH CCUSAL012  
PART NO LMD775 PLUS IC250 TPU2734 WITH  
TPU2735 PART NO LMD770



Model: C25P759 COLOUR TV

Subject: TELETEXT  
Fault: CORRUPTED TELETEXT  
Symptom: CORRUPTED TEXT / DROP OUT OF  
TELETEXT  
Cause: MISSING LINKS / POOR CONTINUITY  
Cure: CHECK CONTINUITY OF TRACK & LINK  
FOR DIGITAL DATA LINES FROM VCU TO TPU  
(ICB201 THRO' TO ICB250 PINS 1 TO 4  
& PINS 39 TO 40)



Model: C25P759 COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: TB526 & TB531 - 'M' CHASSIS  
IN THE ABOVE CHASSIS, WHEN REPLACING  
EITHER OF OR BOTH OF THE ABOVE  
TRANSISTORS, THE ORIGINAL TYPE SHOULD  
BE FITTED WITHOUT MODIFICATION. THE  
PART NUMBER IS JS0017



Model: C25P819 COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTENT CUT OUT  
CHECK C912 FOR DRY JOINT OR OPEN  
CIRCUIT



Model: C25P819 COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD SET  
REPLACE Q901 (BUT11AF) PART NO\*T636035  
WITH HITACHI SUPPLIED PARTS ONLY. CHECK  
R901 PART NO 0141175 AND MAIN FUSE  
F5701, PART NO 2721292, FOR OPEN  
CIRCUIT. REPLACE AS NECESSARY.

# HITACHI

ON EARLIER MODELS C914 IS 2.2 UF. THIS SHOULD BE UPDATED TO 10 UF PART NO 080018R AND A 2.7 OHM RESISTOR SHOULD BE FITTED IN PARALLEL WITH R906 AND R906A, PART NO R207330.

Model: C25P819 COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD SET

PLEASE NOTE: BUT11AF SUPPLIED BY HITACHI ARE SPECIALLY SELECTED AND ARE THE ONLY PARTS TO BE USED IN THESE MODELS.

ALTERNATIVELY SOURCED PARTS MAY FAIL WITHIN A SHORT PERIOD OF TIME.

\*PLEASE SEE TECH LINE BULLETIN NO. 627

Model: C25P819 COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD OR INTERMITTANT DEAD  
REPLACE R919, R920, R931, R932, AND C912

Model: C25P819 COLOUR TV

Subject: POWER SUPPLY

Fault: NO PICTURE-BLANK SCREEN

Symptom: NO PICTURE-BLANK SCREEN FOR 10 MINUTES AFTER SWITCH ON.

Cause: CAPACITOR LOW IN VALUE.

Cure: REPLACE CAPACITOR C922, 470uF 25v  
PART NUMBER 0800075

Model: C25P819 COLOUR TV

Subject: TUNING SELECTION

Fault: NO O. S. D.

CHECK DIODES D102 & D103

Model: C25P819 COLOUR TV

Subject: TUNING SELECTION

Fault: NO REMOTE OPERATION / NO TUNING

Symptom: SET WILL NOT RESPOND TO ANY REMOTE COMANDS. SET WILL NOT TUNE IN, JUST A SNOW STORM ON SCREEN.

Cause: FRAME PULSE TO MICRO REDUCED

Cure: REPLACE I. C. 601  
(CHECK FOR V. PULSE TO MICRO SHOULD BE APPROX 30V P/P)

Model: C25P819

COLOUR TV

Subject: TUNING SELECTION

Fault: NO TUNING, NO REMOTE OP

Symptom: SET CANNOT BE TUNED IN, OR  
RESPOND TO REMOTE COMMANDS

Cause: CORRUPTED FRAME PULSE

Cure: CHECK FOR V. PULSE TO MICRO, APPROX  
30V P/PK. IF REDUCED REPLACE I. C. 601

Model: C25P819

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: VERY DIM PICTURE

Symptom: PICTURE IS VERY DARK, IMAGE  
BARELY VISIBLE.

Cause: COMPONENTS GO LEAKY

Cure: CHECK / REPLACE D808 IN4148 PART  
NUMBER T531053 AND C831 PART NUMBER  
0252945 47uF 16V

Model: C25P819

COLOUR TV

Subject: SERVICE INFORMATION

Fault: CLICKING SOUND ON NICAM

ADJUST L5 ON NICAM SUB P. C. B. UNTILL  
CLICKING IS REMOVED.

Model: C25P819

COLOUR TV

Subject: SERVICE INFORMATION

Fault: SCAN COILS CONNECTIONS MISSING  
SCAN COILS CONNECTIONS NOT SHOWN IN  
SERVICE MANUAL.

CONNECTIONS FOR CRT A66ECF00X01 VIEWED  
FROM BACK OF SET, FROM LEFT ARE  
ORANGE/YELLOW/RED/NO CONNECTION/WHITE.

Model: C2509R

COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD, Q903/Q781/ZD903 FAIL REGULARLY

Symptom: Q903/Q781/ZD903 FAIL. AFTER  
REBUILD THEY FAIL AGAIN.

Cause: DRY JOINTS.

Cure: T901 HAS GONE DRY JOINT. REMAKE  
CONNECTIONS ON PCB AND ON TERMINALS ON  
TOP OF THE TRANSFORMER. CHECK/REPLACE  
Q903/Q781/ZD903/R902, 3, 9/R760, 1, 2, 6







Model: C2509T COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: NO COLOUR.  
Symptom: NO COLOUR.  
Cause: FAULTY CAPACITOR.  
Cure: CHECK/REPLACE OPEN CIRCUIT  
CAPACITOR, C519, 10NF. 50V.  
PT. NO. 0880044R.

Model: C2509T COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: NO PICTURE, HISS ON SOUND.  
Symptom: NO PICTURE, HISS ON SOUND.  
Cause: LEAKY TRANSISTOR.  
Cure: CHECK/REPLACE Q002 ON RESET LINE  
TO IC001 PIN41. PT. NO. T631275.

Model: C2509T COLOUR TV

Subject: AUDIO  
Fault: AUDIO DISTORTION VIA SCART SOCKET  
CHANGE R1406 TO 820 OHMS  
(PT. NO. J0700039M). R1406 IS BETWEEN  
Q1401 EMITTER AND CHASSIS. ADJUST  
R1421 AUDIO INPUT LEVEL TO EQUALISE  
SCART AND RF AUDIO LEVELS.

Model: C2509T COLOUR TV

Subject: TELETEXT  
Fault: LINE PULLING AT TOP OF SCREEN  
Symptom: LINE PULLING AT TOP OF SCREEN  
WHEN IN TELETEXT MODE.  
Cause: ON SOME TRANSMITTERS A CORRUPT  
SYNC PULSE COULD BE RECEIVED.  
Cure: DELETE L2104 ON MAIN PCB.

Model: C2509T COLOUR TV

Subject: SERVICE INFORMATION  
Fault: COLOURS FLARING, PARTICULARLY REDS.  
CHECK TUBE SET UP AS FOLLOWS.  
TURN DOWN SCREEN VOLTS UNTIL FLYBACK  
LINES JUST DISAPPEAR.  
SET CUSTOMER BRIGHTNESS TO 35 ON  
O. S. D.  
ADJUST SUB BRIGHTNESS FOR NORMAL  
BRIGHTNESS.  
RESET GREY SCALE IF NECESSARY.

Model: C2514T COLOUR TV

Subject: POWER SUPPLY  
Fault: SET STUCK IN STANDBY  
Symptom: SET WILL NOT COME OUT OF THE STANDBY MODE.  
Cause: POOR REGULATION OF +5V SUPPLY TO MICRO PROCESSOR.  
Cure: CHECK +5V TO MICRO PROCESSOR, IT MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE ZD001 5.1V ZENER , PT NO T536201

Model: C2514T COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD, ZD902 SHORT CIRCUIT  
Cause: FAULTY RESISTOR.  
Cure: CHECK/REPLACE R951, 82K, 0.5W, PT. NO. R842319.

Model: C2514T COLOUR TV

Subject: POWER SUPPLY  
Fault: FAILURE OF TRANSISTOR BUT12AF.  
Symptom: FAILURE OF TRANSISTOR, BUT12AF  
Cause: HITACHI APPROVED DEVICE NOT USED.  
Cure: HITACHI APPROVED BUT12AF ONLY SHOULD BE USED. PT. NO. 2314791. A FURTHER IMPROVEMENT CAN BE EFFECTED BY CHANGING D907 TO TYPE MP606M PT. NO. T431123.

Model: C2514T COLOUR TV

Subject: TUNING SELECTION  
Fault: SET STUCK IN STANDBY  
Symptom: SET WILL NOT COME OUT OF THE STANDBY MODE.  
Cause: POOR REGULATION OF +5V SUPPLY TO MICRO PROCESSOR.  
Cure: CHECK +5V TO MICRO PROCESSOR, IT MAY HAVE REDUCED TO 4.8 /4.9V. REPLACE ZD001 5.1V ZENER , PT NO T536201

Model: C2514T COLOUR TV

Subject: TUNING SELECTION  
Fault: NO ON SCREEN DISPLAY  
Symptom: NO ON SCREEN DISPLAY, (CHAN NO



Fault: VERTICLE JITTER  
Symptom: A NOTICEABLE VERTICLE FRAME  
JITTER.  
Cause: CAPACITOR TOLLERANCES.  
Cure: CHANGE C604 FROM 270pF TO 100pF  
PART No 0890074

Model: C2514T COLOUR TV

Subject: VERTICAL STAGE  
Fault: FAILURE OF IC601  
Symptom: REPEATED FAILURE OF IC601  
Cause: STATIC DISCHARGE FROM CRT  
Cure: FIT 10nF 50V CAPACITOR ACROSS  
FRAME O/P PLUG E701 FIT CAPACITOR ON  
PRINT SIDE OF PCB AND SECURE WITH HOT  
MELT. CAPACITOR PART NO. 0880044  
REMOVE R613 FROM COMPONENT SIDE AND  
FIT ON PRINT SIDE BETWEEN PIN 1 OF IC

Model: C2514T COLOUR TV

Subject: VERTICAL STAGE  
Fault: FAILURE OF IC601  
601 AND JUNCTION OF R612 AND HOLE  
VACATED BY R613.

Model: C2514T COLOUR TV

Subject: VERTICAL STAGE  
Fault: REPEATED FAILURE OF FRAME O/P IC601  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316  
DEFECT: Q  
REPAIR: A REPLACE IC 601. CONNECT TWO  
33V ZENER DIODES IN SERIES. CONNECT THE  
ANODE TO PIN 1 OF IC601 AND CATHODE TO  
PIN 2 OF IC601. SECURE WITH HOT MELT.  
PART # ZENER DIODE PACK A531213  
IC 601 J2003951

Model: C2514T COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: NO ON SCREEN DISPLAY  
Symptom: NO ON SCREEN DISPLAY, (CHAN NO  
VOL/COL/ETC LEVELS  
Cause: O/C DIODE  
Cure: CHECK / REPLACE D703 / D704  
PART NUMBER J2348921M TYPE IN4531



OF IC201 USE PART NUMBER T900623. IF THIS IS TO REPLACE TYPE TDA8361, CHECK R523 IS 8K2 AND REPLACE AS NECESSARY. PART No 0700053.

Model: C2514TE 59cm CE marked

Subject: POWER SUPPLY  
Fault: PULSING FROM COLD  
Symptom: WHEN SET IS SWITCHED ON FROM COLD IT PULSES. AFTER SOME WHILE THE SET WILL COME ON.  
Cause: UNSTABLE 5V(D) RAIL  
Cure: THE FOLLOWING CHANGES SHOULD BE MADE TO THE POWER SUPPLY TO OVERCOME THIS CONDITION.  
..... (CONT)

Model: C2514TE 59cm CE marked

Subject: POWER SUPPLY  
Fault: PULSING FROM COLD  
YOU WILL REQUIRE THE FOLLOWING PARTS FOR THIS CHANGE:  
BC548C, 1K0 RESISTOR, 5V6 ZENER, 220uF 10V CAPACITOR.  
THESE PARTS ARE AVAILABLE IN TWO PACKS PART NUMBERS A525646 AND A525647. FIT THEM AS FOLLOWS:  
..... CONT..  
1. REMOVE THE FOLLOWING : R097, R957, ZD001, C005.  
2. FIT A 1K0 RESISTOR IN PLACE OF R957  
3. FIT A BC548C WITH THE EMITTER AND BASE USING THE HOLES VACATED BY R097 - THE BASE SHOULD LOCATE IN THE HOLE AT THE JUNCTION WITH R957.  
..... CONT..  
4. CONNECT THE 220V 10V CAPACITOR AND THE 5V6 ZENNER IN PARALLEL WITH THE POSITIVE SIDE OF EACH COMPONENT TO THE JUNCTION OF R957 AND THE BASE OF THE NEW BC548C THAT YOU HAVE PREVIOUSLY FITTED, AND THE NEGATIVE TO A SUITABLE GROUND SUCH AS THE -VE CONNECTION OF C035.

Model: C2514TE 59cm CE marked

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.  
Cause: FAULTY ZENER & POTENTIOMETER.



# HITACHI

Cure: CHECK/REPLACE ZD952 & VR951.  
ZENER PT. NO. IS 2344122M FOR 25" MODELS  
& PT. NO. IS 2344121M FOR 14", 17" & 21"  
MODELS.  
POTENTIOMETER PT. NO. IS E311076.

Model: C2514TE 59cm CE marked

Subject: POWER SUPPLY  
Fault: CHANGE OF TRANSFORMER T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: I  
REPAIR A PART # FOR T901 L380131

Model: C2514TE 59cm CE marked

Subject: POWER SUPPLY  
Fault: CHANGE OF L901 PT#  
SECTION: PSU  
CONDITION: 1  
Symptom: 185  
DEFECT: A  
REPAIR: A NEW PART # FOR L901 IS  
L210065

Model: C2514TE 59cm CE marked

Subject: TUNING SELECTION  
Fault: NO ON SCREEN DISPLAY  
Symptom: NO ON SCREEN DISPLAY, (CHAN NO  
VOL/COL/ETC LEVELS  
Cause: O/C DIODE  
Cure: CHECK / REPLACE D703 / D704  
PART NUMBER J2348921M TYPE IN4531

Model: C2514TE 59cm CE marked

Subject: TUNING SELECTION  
Fault: SET WILL NOT ENTER TUNING MODE  
Symptom: SET WILL NOT ENTER THE TUNING  
MENU.  
Cause: SET IS IN HOTEL MODE:  
Cure: TO EXIT HOTEL MODE PRESS BUTTONS  
4, 4, STATUS, MUTE, TV. SELECT HOTEL MODE  
USING CURSOR BUTTONS(REV/EXP). CHANGE  
STATUS USING VOL+/- . GO TO STANDBY  
TO STORE.

Model: C2514TE 59cm CE marked

Subject: TUNING SELECTION  
Fault: CHANGE OF MICROPROCESSOR IC001  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF MICROPROCESSOR  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR: A NEW PART No FOR IC001  
SAA5296ZP IS T900763

Model: C2514TE 59cm CE marked

Subject: TUNER/IF  
Fault: POOR PLAYBACK OF MACROVISION TAPES  
Symptom: POOR PLAYBACK OF MACRO VISION  
TAPES.  
Cause: CAPACITOR C104 AND C205 VALUES  
Cure: TO CURE SKEW CHANGE C205 TO 4u7  
50V  
TO CURE HORIZONTAL SHADED BAR AT TOP  
OF SCREEN CHANGE C104 TO 22uF 16V  
PART NUMBERS: C205 J0800012R  
C104 J0800023R

Model: C2514TE 59cm CE marked

Subject: Y/C SIGNAL PROCESSING  
Fault: BUZZ ON SPEAKERS AND NO PICTURE.  
Symptom: LOW FREQUENCY BUZZ ON  
SPEAKERS AND NO PICTURE.  
Cause: DAMAGED PRINT.  
Cure: RE-MAKE PRINT BETWEEN 5V RAIL  
AND L2101. THE BREAK IS ADJACENT TO  
THE TUNER LEG.

Model: C2514TE 59cm CE marked

Subject: Y/C SIGNAL PROCESSING  
Fault: CHANGE OF IC201  
Symptom: CHANGE OF IC201 TO N5 MASK  
Cause: UPGRADE  
Cure: WHEN REPLACING IC201 FROM TYPE  
TDA8361-N3 TO TDA8361-N5, CHANGE THE  
VALUE OF R523 FROM 47K TO 8K2  
PART NUMBER: IC201 T900623  
R523 J0700053M

Model: C2514TE 59cm CE marked

Subject: AUDIO  
Fault: BUZZ ON SPEAKERS AND NO PICTURE.

# HITACHI

Symptom: LOW FREQUENCY BUZZ ON  
SPEAKERS AND NO PICTURE.  
Cause: DAMAGED PRINT.  
Cure: RE-MAKE PRINT BETWEEN 5V RAIL  
AND L2101. THE BREAK IS ADJACENT TO  
THE TUNER LEG.

Model: C2514TE 59cm CE marked

Subject: AUDIO  
Fault: CHANGE OF PART # R491  
SECTION: APA AUDIO PROCESSING  
CONDITION: 1  
Symptom: 185 PART DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART # FOR R491 IS  
R000618

Model: C2514TE 59cm CE marked

Subject: AUDIO  
Fault: CHANGE OF AUDIO OUTPUT IC401  
SECTION: APA  
CONDITION: 1  
Symptom: 185 CHANGE OF AUDIO IC TYPE  
DEFECT: A  
REPAIR: A THERE ARE TWO TYPES OF AUDIO  
OUTPUT IC'S USED ON THIS MODEL  
THESE AUDIO OUTPUT IC'S ARE NOT INTER-  
CHANGEABLE.  
PART # TDA2824S J2004451  
TDA1519B T900754  
PLEASE REFER TO SERVICE MANUAL SMD0013  
FOR THE CIRCUIT DIAGRAM OF THE TDA1519

Model: C2514TE 59cm CE marked

Subject: VERTICAL STAGE  
Fault: LOSS OF SYNC.  
Symptom: LOSS OF LINE & FIELD SYNC.  
Cause: FAULTY IC.  
Cure: CHECK/REPLACE IC201.  
PT. NO. T900567.

Model: C2514TE 59cm CE marked

Subject: VERTICAL STAGE  
Fault: FAILURE OF IC601  
Symptom: REPEATED FAILURE OF IC601  
Cause: STATIC DISCHARGE FROM CRT  
Cure: FIT 10nF 50V CAPACITOR ACROSS  
FRAME O/P PLUG E701 FIT CAPACITOR ON  
PRINT SIDE OF PCB AND SECURE WITH HOT

# HITACHI

MELT. CAPACITOR PART NO. 0880044  
REMOVE R613 FROM COMPONENT SIDE AND  
FIT ON PRINT SIDE BETWEEN PIN 1 OF IC  
601 AND JUNCTION OF R612 AND HOLE  
VACATED BY R613.

Model: C2514TE 59cm CE marked

Subject: VERTICAL STAGE  
Fault: REPEATED FAILURE OF FRAME O/P IC601  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316  
DEFECT: Q  
REPAIR: A REPLACE IC 601. CONNECT TWO  
33V ZENER DIODES IN SERIES. CONNECT THE  
ANODE TO PIN 1 OF IC601 AND CATHODE TO  
PIN 2 OF IC601. SECURE WITH HOT MELT.  
PART # ZENER DIODE PACK A531213  
IC 601 J2003951

Model: C2514TE 59cm CE marked

Subject: HORIZONTAL STAGE  
Fault: NO ON SCREEN DISPLAY  
Symptom: NO ON SCREEN DISPLAY, (CHAN NO  
VOL/COL/ETC LEVELS  
Cause: O/C DIODE  
Cure: CHECK / REPLACE D703 / D704  
PART NUMBER J2348921M TYPE IN4531

Model: C2514TE 59cm CE marked

Subject: HORIZONTAL STAGE  
Fault: LOSS OF SYNC.  
Symptom: LOSS OF LINE & FIELD SYNC.  
Cause: FAULTY IC.  
Cure: CHECK/REPLACE IC201.  
PT. NO. T900567.

Model: C2514TE 59cm CE marked

Subject: SERVICE INFORMATION  
Fault: HOTEL MODE  
Symptom: USE OF HOTEL MODE.  
Cause: SET STUCK IN HOTEL MODE, OR THE  
HOTEL MODE NEEDS TO BE ACTIVATED  
Cure: IF USING REMOTE CONTROL TYPE  
CLE876H ENTER THE SERVICE MODE BY THE  
BUTTON SEQUENCE 4, 4, STATUS, MUTE, TV.  
IF USING REMOTE CONTROL TYPE CLE922A  
THEN PRESS 4, 4, RECALL, MUTE, TV  
SELECT THE HOTEL MODE USING THE CURSOR



UP / DOWN BUTTONS (REV/EXP) AND CHANGE  
THE STATUS BY USING THE VOL +/- BUTTON  
GO TO STANDBY TO STORE YOUR SETTINGS.

Model: C2514TE 59cm CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF VARIABLE RESISTORS  
Symptom: CHANGE OF VARIABLE RESISTORS  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBERS ARE:  
VR701 PART NUMBER J0160215R  
VR601 PART NUMBER J0160421R  
VR951 PART NUMBER J0160211R

Model: C2514TE 59cm CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF LINE DRIVER TRANSISTOR  
Symptom: CHANGE OF LINE DRIVER  
TRANSISTOR Q701.  
Cause: CHANGE OF SUPPLIER  
Cure: LINE DRIVER TRANSISTOR HAS BEEN  
CHANGED TO BF459 PART NO. T633137

Model: C2514TE 59cm CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF D601 PART NUMBER  
Symptom: CHANGE OF PART NUMBER FOR  
D601  
Cause: CHANGE OF SUPPLIER  
Cure: NEW PART NUMBER FOR D601 IS  
T531063 TYPE IN4002/GI

Model: C2514TE 59cm CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART # FOR D601  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 CHANGE OF PT#  
DEFECT: A  
REPAIR: A PT# FOR D601 IS  
T531063

Model: C2514TE 59cm CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF CRT PART NUMBER  
SECTION: CRT  
CONDITION: 1 CHANGE OF PART NUMBER

# HITACHI

Symptom: 185 OLD TUBE DISCONTINUED  
DEFECT: A  
REPAIR: A PART NUMBER FOR NEW CRT IS  
T159021

Model: C2514TE 59cm CE marked

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF U001 PART NUMBER  
SECTION: REM  
CONDITION: 1  
Symptom: 185 T549012 DISCONTINUED  
DEFECT: A  
REPAIR: A NEW PART NUMBER FOR U001 IS  
T549019

Model: C2519R COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSES FROM COLD SWITCH ON  
Symptom: WHEN SWITCHED ON FROM COLD  
THE SET PULSES SEVERAL TIMES BEFORE  
COMING ON.  
Cause: CAPACITORS DRYING OUT.  
Cure: CHECK / REPLACE C908 470uF 25V  
PART NUMBER J0800075, ALSO CHECK D907  
BYV10-40 PART NUMBER T531056 FOR OPEN  
CIRCUIT.

Model: C2519R COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY TRIPPING.  
Symptom: POWER SUPPLY TRIPPING.  
Cause: FAULTY REGULATOR, LOADING SUPPLY  
Cure: CHECK/REPLACE IC932.  
PT. NO. T900326.

Model: C2519R COLOUR TV

Subject: TUNER/IF  
Fault: TUNER DRIFT OFF STATION  
Symptom: DRIFTS OFF TUNE  
Cause: POOR STABILITY OF CAPACITOR  
Cure: REPLACE C001

Model: C2519R COLOUR TV

Subject: VERTICAL STAGE  
Fault: FRAME TWITCHING.  
Symptom: FRAME TWITCHING.  
Cause: DRY JOINT.

Cure: CHECK/RE-MAKE DRY JOINT AT C604.

Model: C2519T COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT TO STANDBY  
Symptom: SET INTERMITTANTLY GOES INTO STANDBY.  
Cause: RESISTORS VARY IN VALUE.  
Cure: CHECK / REPLACE THE FOLLOWING  
R719 220K 0.24W 1% TOL P/NO R252721  
R910 0.5 OHM 0.5W PART NO R000505  
R907 12 OHM 0.25W PART NO R112330  
R914 33 OHM 0.25W PART NO R313330

Model: C2519T COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY PULSES AT SWITCH ON  
Symptom: SET PULSATES FROM SWITCH ON  
Cause: POWER SUPPLY NOT STARTING UP  
Cure: CHECK / REPLACE THE FOLLOWING  
R915 22R (21") 0.25W PART NO R212330  
R915 33R (25") 0.25W PART NO R313330  
C908 470uF 25V PART NUMBER 0800075  
D902 BYD33D PART NUMBER T431112

Model: C2519T COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSES FROM COLD SWITCH ON  
Symptom: WHEN SWITCHED ON FROM COLD THE SET PULSES SEVERAL TIMES BEFORE COMING ON.  
Cause: CAPACITORS DRYING OUT.  
Cure: CHECK / REPLACE C908 470uF 25V PART NUMBER J0800075, ALSO CHECK D907 BYV10-40 PART NUMBER T531056 FOR OPEN CIRCUIT.

Model: C2519T COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY TRIPPING.  
Symptom: POWER SUPPLY TRIPPING.  
Cause: FAULTY REGULATOR, LOADING SUPPLY  
Cure: CHECK/REPLACE IC932.  
PT. NO. T900326.

Model: C2519T COLOUR TV

Subject: TUNER/IF

# HITACHI

Fault: TUNER DRIFT OFF STATION  
Symptom: DRIFTS OFF TUNE  
Cause: POOR STABILITY OF CAPACITOR  
Cure: REPLACE C001

Model: C2519T COLOUR TV

Subject: VERTICAL STAGE  
Fault: FRAME TWITCHING.  
Symptom: FRAME TWITCHING.  
Cause: DRY JOINT.  
Cure: CHECK/RE-MAKE DRY JOINT AT C604.

Model: C2519T COLOUR TV

Subject: TELETEXT  
Fault: WILL NOT OPERATE ON BAMBOOZLE  
Symptom: WILL NOT OPERATE THE HEXI-  
DECIMAL CODED TELETEXT PAGES - E. G:  
BAMBOOZLE  
Cause: SOFTWARE DIFFERENCES.  
Cure: THIS MODELS CANNOT OPERATE ON  
HEXIDECIMAL TEXT PAGES. THEIR TEXT  
SYSTEM WAS DESIGNED PRIOR TO USE OF  
THESE PAGES, AND NO UPDATE AVAILABLE.

Model: C2524R COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD, Q903/Q781/ZD903 FAIL REGULARLY  
Symptom: Q903/Q781/ZD903 FAIL. AFTER  
REBUILD THEY FAIL AGAIN.  
Cause: DRY JOINTS.  
Cure: T901 HAS GONE DRY JOINT. REMAKE  
CONNECTIONS ON PCB AND ON TERMINALS ON  
TOP OF THE TRANSFORMER. CHECK/REPLACE  
Q903/Q781/ZD903/R902, 3, 9/R760, 1, 2, 6

Model: C2524R COLOUR TV

Subject: POWER SUPPLY  
Fault: HIGH HT. CANNOT BE TURNED DOWN.  
Symptom: HIGH HT, CANNOT BE TURNED  
DOWN.  
Cause: FAULTY CAPACITOR.  
Cure: CHECK/REPLACE C906, 4. 7MF, 250V,  
CHANGED VALUE OR OPEN CIRCUIT.  
PT. NO. 0253971.

Model: C2524R COLOUR TV

Subject: TUNER/IF



# HITACHI

Fault: NO SIGNAL (SNOWY RASTER)  
SECTION: TUN  
CONDITION: 1  
Symptom: 215 NO RECEPTION  
DEFECT: R OPEN CIRCUIT RESISTOR  
REPAIR: A CHECK AND REPLACE R044 OR  
R144 PT # R142319 12K, R140319 10K OHM

Model: C2524R COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: IC201 TA8690 SUPERCEDED  
REPLACE WITH PART NO. A777814.  
THIS KIT INCLUDES IC TYPE TA8690AN  
AND THE FOLLOWING PARTS, WHICH SHOULD  
BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

Model: C2524R COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: IC201 TA8690 SUPERCEDED  
R532 AND C526 ARE NEW COMPONENTS AND  
SHOULD BE FITTED AS FOLLOWS. CONNECT  
R532 AND C526 IN SERIES. ATTACH THE  
FREE END OF R532 TO THE JUNCTION OF  
X501 AND C517. ATTACH THE FREE END OF  
C526 TO THE JUNCTION OF C517 AND C519.

Model: C2524R COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: NO PICTURE  
C502 (PT NO J0800012R) FAULTY.  
REPLACE, CHECK CONNECTION, POSITIVE  
TO Q507E (TOWARDS Q504 ON PCB. PCBS  
BEFORE SN U2A... WRONGLY MARKED).

Model: C2524R COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: NO PICTURE, HISS ON SOUND.  
Symptom: NO PICTURE, HISS ON SOUND.  
Cause: LEAKY TRANSISTOR.  
Cure: CHECK/REPLACE Q002 ON RESET LINE  
TO IC001 PIN41. PT. NO. T631275.

## Model: C2524R COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** SET DEAD  
**Symptom:** SET DEAD  
**Cause:** OPEN CIRCUIT RESISTORS  
**Cure:** REPLACE R760/761/762/766  
 WHEN REPLACING THESE RESISTORS, PLEASE  
 NOTE THAT SOME EARLY PRODUCTION SETS  
 HAD 0.25W COMPONENTS FITTED. PLEASE BE  
 SURE TO USE 0.5W REPLACEMENTS

## Model: C2524R COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** R770 OVER HEATS  
**Symptom:** R770 OVER HEATS, PIC & SOUND  
 APPEAR O. K.  
**Cause:** SHORT CIRCUIT COIL.  
**Cure:** REPLACE R770 56R 0.5W PN R516319  
 AND COIL L704 3.3mH P/No 2123728R

## Model: C2524R COLOUR TV

**Subject:** TELETEXT  
**Fault:** LINE PULLING AT TOP OF SCREEN  
**Symptom:** LINE PULLING AT TOP OF SCREEN  
 WHEN IN TELETEXT MODE.  
**Cause:** ON SOME TRANSMITTERS A CORRUPT  
 SYNC PULSE COULD BE RECIEVED.  
**Cure:** DELETE L2104 ON MAIN PCB.

## Model: C2524R COLOUR TV

**Subject:** PART NUMBER CHANGES  
**Fault:** IC201 TA8690 SUPERCEDED  
 REPLACE WITH PART NO. A777814.  
 THIS KIT INCLUDES IC TYPE TA8690AN  
 AND THE FOLLOWING PARTS, WHICH SHOULD  
 BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

R532 AND C526 ARE NEW COMPONENTS AND  
 SHOULD BE FITTED AS FOLLOWS. CONNECT  
 R532 AND C526 IN SERIES. ATTACH THE  
 FREE END OF R532 TO THE JUNCTION OF  
 X501 AND C517. ATTACH THE FREE END OF  
 C526 TO THE JUNCTION OF C517 AND C519.

## Model : C2524T COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** DEAD, Q903/Q781/ZD903 FAIL REGULARLY  
**Symptom:** Q903/Q781/ZD903 FAIL. AFTER  
 REBUILD THEY FAIL AGAIN.  
**Cause:** DRY JOINTS.  
**Cure:** T901 HAS GONE DRY JOINT. REMAKE  
 CONNECTIONS ON PCB AND ON TERMINALS ON  
 TOP OF THE TRANSFORMER. CHECK/REPLACE  
 Q903/Q781/ZD903/R902, 3, 9/R760, 1, 2, 6

## Model : C2524T COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** HIGH HT. CANNOT BE TURNED DOWN.  
**Symptom:** HIGH HT, CANNOT BE TURNED  
 DOWN.  
**Cause:** FAULTY CAPACITOR.  
**Cure:** CHECK/REPLACE C906, 4. 7MF, 250V,  
 CHANGED VALUE OR OPEN CIRCUIT.  
 PT. NO. 0253971.

## Model : C2524T COLOUR TV

**Subject:** TUNER/IF  
**Fault:** NO SIGNAL (SNOWY RASTER)  
 SECTION: TUN  
 CONDITION: 1  
**Symptom:** 215 NO RECEPTION  
 DEFECT: R OPEN CIRCUIT RESISTOR  
 REPAIR: A CHECK AND REPLACE R044 OR  
 R144 PT # R142319 12K, R140319 10K OHM

## Model : C2524T COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** IC201 TA8690 SUPERCEDED  
 REPLACE WITH PART NO. A777814.  
 THIS KIT INCLUDES IC TYPE TA8690AN  
 AND THE FOLLOWING PARTS, WHICH SHOULD  
 BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF
R531	1K2	1K5
R532	-	3K3

## Model : C2524T COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** IC201 TA8690 SUPERCEDED

# HITACHI

R532 AND C526 ARE NEW COMPONENTS AND SHOULD BE FITTED AS FOLLOWS. CONNECT R532 AND C526 IN SERIES. ATTACH THE FREE END OF R532 TO THE JUNCTION OF X501 AND C517. ATTACH THE FREE END OF C526 TO THE JUNCTION OF C517 AND C519.

Model: C2524T COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: NO PICTURE

C502 (PT NO J0800012R) FAULTY.

REPLACE, CHECK CONNECTION, POSITIVE TO Q507E (TOWARDS Q504 ON PCB. PCBS BEFORE SN U2A... WRONGLY MARKED).

Model: C2524T COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: NO COLOUR.

Symptom: NO COLOUR.

Cause: FAULTY CAPACITOR.

Cure: CHECK/REPLACE OPEN CIRCUIT CAPACITOR, C519, 10NF. 50V. PT. NO. 0880044R.

Model: C2524T COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: NO PICTURE, HISS ON SOUND.

Symptom: NO PICTURE, HISS ON SOUND.

Cause: LEAKY TRANSISTOR.

Cure: CHECK/REPLACE Q002 ON RESET LINE TO IC001 PIN41. PT. NO. T631275.

Model: C2524T COLOUR TV

Subject: VERTICAL STAGE

Fault: FIELD COLLAPSE (HORZ. WHITE LINE.)

R719 OPEN CIRCUIT (0.5 OHM FUSEABLE RESISTOR)

REMOVE R719 AND REPLACE WITH A COPPER WIRE LINK.

PLEASE NOTE R719 HAS BEEN DELETED FROM NOVEMBER 1991 PRODUCTION ONWARDS.

Model: C2524T COLOUR TV

Subject: VERTICAL STAGE

Fault: VERTICAL JITTER ON TELETEXT

Q602, Q603 AND/OR Q604 FAULTY.

CHECK AND REPLACE AS NECESSARY.

Model: C2524T COLOUR TV

Subject: HORIZONTAL STAGE  
 Fault: SET DEAD  
 Symptom: SET DEAD  
 Cause: OPEN CIRCUIT RESISTORS  
 Cure: REPLACE R760/761/762/766  
 WHEN REPLACING THESE RESISTORS, PLEASE  
 NOTE THAT SOME EARLY PRODUCTION SETS  
 HAD 0.25W COMPONENTS FITTED. PLEASE BE  
 SURE TO USE 0.5W REPLACEMENTS

Model: C2524T COLOUR TV

Subject: HORIZONTAL STAGE  
 Fault: R770 OVER HEATS  
 Symptom: R770 OVER HEATS, PIC & SOUND  
 APPEAR O. K.  
 Cause: SHORT CIRCUIT COIL.  
 Cure: REPLACE R770 56R 0.5W PN R516319  
 AND COIL L704 3.3mH P/No 2123728R

Model: C2524T COLOUR TV

Subject: TELETEXT  
 Fault: VERTICAL JITTER ON TELETEXT  
 Q602, Q603 AND/OR Q604 FAULTY.  
 CHECK AND REPLACE AS NECESSARY.

Model: C2524T COLOUR TV

Subject: TELETEXT  
 Fault: LINE PULLING AT TOP OF SCREEN  
 Symptom: LINE PULLING AT TOP OF SCREEN  
 WHEN IN TELETEXT MODE.  
 Cause: ON SOME TRANSMITTERS A CORRUPT  
 SYNC PULSE COULD BE RECIEVED.  
 Cure: DELETE L2104 ON MAIN PCB.

Model: C2524T COLOUR TV

Subject: PART NUMBER CHANGES  
 Fault: IC201 TA8690 SUPERCEDED  
 REPLACE WITH PART NO. A777814.  
 THIS KIT INCLUDES IC TYPE TA8690AN  
 AND THE FOLLOWING PARTS, WHICH SHOULD  
 BE EXCHANGED/ADDED.

PART	WAS	NOW
C517	100PF	68PF
C518	33PF	39PF
C526	-	10NF

# HITACHI

R531                      1K2                      1K5  
R532                      -                              3K3  
R532 AND C526 ARE NEW COMPONENTS AND  
SHOULD BE FITTED AS FOLLOWS. CONNECT  
R532 AND C526 IN SERIES. ATTACH THE  
FREE END OF R532 TO THE JUNCTION OF  
X501 AND C517. ATTACH THE FREE END OF  
C526 TO THE JUNCTION OF C517 AND C519.

Model: C2544TN                      COLOUR TV

Subject: POWER SUPPLY  
Fault: SET CUTS OUT, SCREEN BRIGHT WHITE.  
Symptom: SET CUTS OUT INTERMITTANTLY,  
SCREEN FLARES BRIGHT WHITE.  
Cause: DRY JOINTS.  
Cure: REMOVE SOLDER FROM METAL SPRING  
CLIPS HOLDING IC800 HEAT SINK. CLEAN  
BARE METAL AND RESOLDER, ENSURING A  
GOOD CONTACT. IC800 MAY ALSO BE FAULY  
AND REQUIRE REPLACING PT/No T900509

Model: C2544TN                      COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSES FROM COLD, THEN COMES ON  
Symptom: WHEN SWITCHED ON FROM COLD  
THE SET PULSES. IF LEFT, ONCE LINE OUT  
TRANSISTOR GETS WARM, THE SET STARTS  
TO WORK.  
Cause: INTERMITTANT TRANSISTOR.  
Cure: REPLACE LINE OUTPUT TRANSISTOR  
Q703.

Model: C2544TN                      COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSING / DEAD - D704 FAILS.  
Symptom: SET DEAD / PULSES, D704 FAILS  
AFTER REPLACING.  
Cause: SHORTED TURNS ON INDUCTOR.  
Cure: REPLACE L651 PART No J2220642.  
ALSO CHECK Q652 PART No T631275 AND  
Q651 PART No T636046.

Model: C2544TN                      COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD, STANDBY LIGHT PULSING  
Symptom: SET DEAD, NO PRIMARY START UP  
NO 300V ON Q901. STANDBY LIGHT IS  
PULSING  
Cause: DRY JOINTS

Cure: CHECK / RESOLDER DRY JOINTS ON  
FERRITE BEADS FB910 AND FB911.

Model: C2544TN COLOUR TV

Subject: POWER SUPPLY  
Fault: CUT OUT ON CHANNEL CHANGE.  
Symptom: CUT OUT ON CHANNEL CHANGE.  
Cause: POOR REGULATION OF HT SUPPLY.  
Cure: CHECK/CHANGE D945.  
PT. NO. T531053.

Model: C2544TN COLOUR TV

Subject: POWER SUPPLY  
Fault: SET TRIPS AFTER EHT COMES ON.  
Symptom: SET TRIPS AFTER EHT COMES ON.  
FRAME SCAN SOMETIMES OK.  
Cause: FAULTY MICRO.  
Cure: CHECK/REPLACE IC1001.  
PT. NO. T900552.

Model: C2544TN COLOUR TV

Subject: TUNING SELECTION  
Fault: IC1001 PART NUMBER CORRECTION (TNZ)  
Symptom: THE PART NUMBER FOR IC1001  
ST6393 IS INCORRECT IN THE SERVICE  
MANUAL FOR THE C2564TNZ/C2864TNZ  
Cause: PRINTING ERROR  
Cure: THE CORRECT PART NUMBER IS  
T900552

Model: C2544TN COLOUR TV

Subject: TUNING SELECTION  
Fault: CUT OUT ON CHANNEL CHANGE.  
Symptom: CUT OUT ON CHANNEL CHANGE.  
Cause: POOR REGULATION OF HT SUPPLY.  
Cure: CHECK/CHANGE D945.  
PT. NO. T531053.

Model: C2544TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: FLASHING OR PULSATING PICTURE/PSU.  
SYMPTOM FLASHING/PULSATING PICTURE/PSU  
Cause: FAULTY CAPACITOR, CHANGED VALUE  
Cure: CHECK/REPLACE C927, 470MF, 25V.  
PT. NO. C001541.





AFTER A TIME.  
Cause: FAULTY CAPACITOR.  
Cure: REPLACE C710. (DECOUPLING 12 VOLT  
SUPPLY TO LINE DRIVER STAGE).  
PT. NO. 0800082

Model: C2544TN COLOUR TV

Subject: TELETEXT  
Fault: TELETEXT LOSES WINDOW MEMORY  
Symptom: NO TEXT, JUST 'P100' IN TOP  
LEFT HAND SIDE OF SCREEN AND LOWER  
MENU PROMTS. AFTER ADJUSTING WINDOW  
SET LOSES MEMORY AGAIN AFTER TIME  
Cause: MEMORY IC FAILURE  
Cure: IF WINDOW ADJUSTMENT IS LOST  
MORE THAN ONCE REPLACE IC2002 E740007  
AND CARRY OUT WINDOW ADJUSTMENT AGAIN

Model: C2544TN COLOUR TV

Subject: SERVICE INFORMATION  
Fault: POSSIBLE CRT SPOT BURN (IB225)  
REPLACE LINK J800 ON CRT BASE WITH  
IN4004 DIODE (PT. NO. T431040), WITH THE  
CATHODE CONNECTED TO THE CATHODE OF  
ZD800.  
ADD C813A (PT. NO. E884110) IN PARALLEL  
WITH C813 ON THE CRT TUBE BASE. ADD THE  
PACK (PT. NO A520674) SPOT BURN PACK. FIT  
THIS TO THE SIGNAL/CONTROL PANEL AS  
FOLLOWS  
USE INSULATION TAPE TO ENSURE THAT  
COMPONENTS DO NOT TOUCH THE PCB  
FIT THE PACK TO THE PRINT SIDE OF THE  
PCB  
1. THE THREE DIODES SHOULD BE FITTED TO  
I) R527 AT THE JUNCTION WITH ZD504  
II) R528 AT THE JUNCTION WITH ZD505  
III) R529 AT THE JUNCTION WITH ZD503  
CONNECT THE FREE END OF THE RESISTOR  
TO R507 AT THE +5V END  
CONNECT THE FREE LEG OF THE TRANSISTOR  
TO THE GROUND END OF C508

Model: C2546TN Colour tv

Subject: POWER SUPPLY  
Fault: INTERMITTANT GOES TO STANDBY  
Symptom: SET INTERMITTANTLY REVERTS TO  
'STANDBY' OR CUTS OUT.  
Cause: DRY JOINTS  
Cure: CHECK IC951 AND IC952 FOR DRY

JOINTS AND RESOLDER AS NECESSARY.

Model: C2546TN

Colour tv

Subject: POWER SUPPLY

Fault: DEAD SET - ZD951 SHORT CIRCUIT

Symptom: SET DEAD, PROTECTION DIODE  
ZD951 HAS GONE SHORT CIRCUIT

Cause: HT HAS RISEN TOO HIGH

Cure: REPLACE ZD951 P#2344122M (25") /  
2344121M (21") AND IC901 OPTO COUPLER  
P# 2917782 TYPE CNX82A. CHECK R950 68K  
HAS NOT RISEN IN VALUE, AND IC951 &  
IC952 FOR DRY JOINTS.

Model: C2546TN

Colour tv

Subject: POWER SUPPLY

Fault: LOSS OF COLOUR & INTERMITTENT TRIP.

Symptom: LOSS OF COLOUR & INTERMITTENT  
TRIP.

Cause: ZENER DIODE.

REPLACE ZD002. 5.1v ZENER.  
PART NO. T536174

Model: C2546TN

Colour tv

Subject: POWER SUPPLY

Fault: STUCK IN STANDBY.

Symptom: STUCK IN STANDBY.

Cause: DRY JOINTS ON IC 952.

Cure: CHECK/RE-SOLDER JOINTS ON IC952.  
SEE ALSO FAULT NUMBER 497.

Model: C2546TN

Colour tv

Subject: TUNING SELECTION

Fault: C46TN ON SCREEN ON SWITCH ON

Symptom: WHEN SWITCHED ON THE O. S. D.  
PROMPT SHOWS C46TN

Cause: SET IS IN FACTORY SET UP MODE

Cure: USING THE REMOTE HANDSET;  
PRESS THE TWO VCR RECORD BUTTONS  
SIMULTANEOUSLY. WHEN THE MENU APPEARS  
GO TO STANDBY. SWITCH THE SET BACK ON  
AND THE O. S. D. PROMPT WILL BE REMOVED

Model: C2546TN

Colour tv

Subject: TUNING SELECTION

Fault: CHANNEL IDENT APPEARS WITH VCR PLAY

Symptom: WHEN PLAYING BACK A VCR TAPE

THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.  
CAUSE. CORRUPTION TO SYNC FROM THE  
TAPE  
CURE. EACH TIME VCR PLAYBACK STARTS  
PRESS THE ' UPDATE ' BUTTON ON THE T. V.  
HANDSET.

Model: C2546TN

Colour tv

Subject: TUNING SELECTION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
Symptom: AFTER REPLACING I. C. 001 THE  
O. S. D. SHOWS THE PROMPT "C46TN"  
Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
Cure: FOLLOWING REPLACEMENT OF I. C. 001  
YOU WILL NEED TO BRING THE I. C. OUT OF  
THE SET UP MODE. TO DO THIS YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET

Model: C2546TN

Colour tv

Subject: TUNING SELECTION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
1) PRESS THE VCR RECORD BUTTONS BOTH  
TOGETHER. THESE ARE THE TWO BOTTOM  
OUTER BUTTONS ON THE HANDSET. THE MENU  
ON SCREEN WILL CHANGE TO READ  
VERSION 46 V1.0  
STANDARD I  
DEFAULT 0  
AFC MID  
2) PUT THE SET INTO STAND BY.  
3) SWITCH THE SET BACK ON FROM STAND  
BY. THE AUTO TUNE MENUE WILL APPEAR.  
THE SET MAY BE TUNED IN AS REQUIRED.

Model: C2546TN

Colour tv

Subject: TUNING SELECTION  
Fault: CHANNEL IDENT APPEARS IN VCR PLAY  
Symptom: WHEN PLAYING BACK RECORDINGS  
OF OFF AIR PROGRAMMES, THE CHANNEL  
IDENT APPEARS INTERMITTANTLY.  
Cause: PACKET 830 IDENTIFICATION BY  
MICRO PROCESSOR.  
Cure: CHANGE I. C. 001 PT. No T900644.  
N. B. . VCR PLAYBACK MUST BE VIA SCART TO  
PREVENT RE-OCCURENCE OF SYMPTOMS.



Cause: TOLERANCES IN CAPACITORS.  
Cure: REPLACE C1308 WITH A 1n0 50v  
PART No 0880031.

Model: C2546TN

Colour tv

Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR LOSS WITH MACRO VIDEO TAPES  
Symptom: COLOUR LOSS ON HIGH CHROMA  
SATURATION, THIN DARK AREA AT BOTTOM OF  
PICTURE WHEN USING MACRO TAPES.  
Cause: MACRO PROTECTION.  
Cure: REPLACE I. C. 201 PT/No T900623  
TYPE TDA8362-N4. IF ORIGINAL IC201 IS  
TYPE TDA8361, CHECK R523 IS 8K2 AND  
FIT AS NECESSARY, PART No 0700053

Model: C2546TN

Colour tv

Subject: Y/C SIGNAL PROCESSING  
Fault: APPEARANCE OF NICAM INDICATOR  
Symptom: ERRATIC APPEARANCE OF THE  
NICAM SYMBOLS USUALLY UPON SCENE  
CHANGES FROM LIGHT TO DARK.  
Cause: SHORT CIRCUIT ON NICAM I. C.  
Cure: CHECK FOR SHORT CIRCUIT OF PINS  
24 & 25 OF I. C. 4201. IF S/C EXISTS  
REMOVE.

Model: C2546TN

Colour tv

Subject: Y/C SIGNAL PROCESSING  
Fault: DIAGONAL PATTERNING ON LOW SIGNAL  
Symptom: DIAGONAL COLOURED LINES IN  
LOW SIGNAL CONDITIONS.  
Cause: NICAM INTERFERENCE  
Cure: REPLACE FERRITE BEADS FB005, 6, 7  
& 8 WITH 10uH COIL PART No J2122239.  
MOVE THE POSITION OF C4235 TO THE I. C.  
SIDE OF FB005 SO THE IT IS NOW AT THE  
JUNCTION OF FB005 AND PIN 3 OF IC4201

Model: C2546TN

Colour tv

Subject: Y/C SIGNAL PROCESSING  
Fault: LOSS OF COLOUR & INTERMITTENT TRIP.  
Symptom: LOSS OF COLOUR & INTERMITTENT  
TRIP.  
Cause: ZENER DIODE.  
REPLACE ZD002. 5. 1v ZENER.  
PART NO. T536174



Model: C2546TN Colour tv

Subject: AUDIO  
Fault: NO AUDIO, NICAM OR FM  
Symptom: NO AUDIO, NICAM OR FM  
FM AUDIO GOING INTO IC4201 PIN 7.  
Cause: FAULTY MEMORY IC.  
Cure: CHANGE IC 002. PT. NO. E730045.

Model: C2546TN Colour tv

Subject: AUDIO  
Fault: REPEATED FAILURE OF IC4450 AT SW ON  
SECTION: APA  
CONDITION: 1  
Symptom: 511 NO SOUND  
DEFECT: Q SHORT CIRCUIT  
REPAIR: A REPLACE IC4450 , C4466  
AND C4467.  
PART NUMBERS: IC4450 2020011  
C4466&C4467 0800044R

Model: C2546TN Colour tv

Subject: VERTICAL STAGE  
Fault: FLYBACK LINES AT TOP OF PICTURE  
Symptom: FLYBACK LINES VISIBLE AT THE  
TOP OF THE PICTURE.  
Cause: FAULTY FRAME I. C.  
Cure: REPLACE FRAME IC601 TYPE TA8427K  
PART NUMBER J2003951

Model: C2546TN Colour tv

Subject: VERTICAL STAGE  
Fault: FRAME COLLAPSE.  
Symptom: FRAME COLLAPSE.  
Cause: FAULTY COMPONENTS.  
Cure: CHECK/REPLACE IC601, R710 & R604.  
IC601 PT. NO. J2003951.  
R710 PT. NO. R407551 FOR 21" MODELS AND  
R200551 FOR 25" AND 28" MODELS.  
R604 PT. NO. 0187083.

Model: C2546TN Colour tv

Subject: HORIZONTAL STAGE  
Fault: VALUE OF R705 INCORRECT IN MANUAL.  
Symptom: VALUE OF R705 INCORRECT IN  
SERVICE MANUAL.  
Cause: PRINTING ERROR.

Cure: THE CORRECT VALUE FOR R705 IS  
1 OHM 2W.  
PT. NO. IS R100549.

Model: C2546TN

Colour tv

Subject: TELETEXT  
Fault: CHANNEL IDENT APPEARS WITH VCR PLAY  
Symptom: WHEN PLAYING BACK A VCR TAPE  
THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.  
Cause: CORRUPTION TO SYNC FROM THE  
TAPE  
Cure: EACH TIME VCR PLAYBACK STARTS  
PRESS THE 'UPDATE' BUTTON ON THE T.V.  
HANDSET.

Model: C2546TN

Colour tv

Subject: SERVICE INFORMATION  
Fault: "MINI" HANDSET COMPATABILITY  
THERE ARE TWO VERSIONS OF THE "MINI"  
HANDSET AVAILABLE. THESE ARE USED IN  
CONJUNCTION WITH THE C21/5/846TN AND  
THE C21/547TN. THE TYPE & PART NUMBERS  
ARE LISTED BELOW.  
CL903 JHL00121 USE WITH 47 SERIES CTV  
CL903A JHL00122 USE WITH 46 & 47 CTV  
IF THE CL903 IS USED WITH THE 46  
SERIES CTV, SOME BUTTONS MAY FAIL TO  
OPERATE THE TELEVISION SET.

Model: C2546TN

Colour tv

Subject: SERVICE INFORMATION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
Symptom: AFTER REPLACING I.C. 001 THE  
O.S.D. SHOWS THE PROMPT "C46TN"  
Cause: WHEN FIRST USED THE I.C. WILL  
ENTER THE SET UP MODE.  
Cure: FOLLOWING REPLACEMENT OF I.C. 001  
YOU WILL NEED TO BRING THE I.C. OUT OF  
THE SET UP MODE. TO DO THIS YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET  
1) PRESS THE VCR RECORD BUTTONS BOTH  
TOGETHER. THESE ARE THE TWO BOTTOM  
OUTER BUTTONS ON THE HANDSET. THE MENU  
ON SCREEN WILL CHANGE TO READ  
VERSION 46 V1.0  
STANDARD I  
DEFAULT 0  
AFC MID  
2) PUT THE SET INTO STAND BY.



Model: C2546TN

Colour tv

Subject: SERVICE INFORMATION

Fault: "C46TN" OSD, AFTER REPLACING IC001  
3) SWITCH THE SET BACK ON FROM STAND  
BY. THE AUTO TUNE MENUE WILL APPEAR.  
THE SET MAY BE TUNED IN AS REQUIRED.

Model: C2546TN

Colour tv

Subject: PART NUMBER CHANGES

Fault: UPDATED I. C. 201 - TDA8362-N4

Symptom: IC201 HAS BEEN CHANGED TO AN  
ISSUE 4 MASK.

Cause: MASK CHANGE BY IC MANUFACTURER

Cure: WHEN ORDERING THIS NEW VERSION  
OF IC201 USE PART NUMBER T900623. IF  
THIS IS TO REPLACE TYPE TDA8361, CHECK  
R523 IS 8K2 AND REPLACE AS NECESSARY.  
PART No 0700053.

Model: C2546TN

Colour tv

Subject: PART NUMBER CHANGES

Fault: CHANGE OF CPT SOCKET

Symptom: CHANGE OF TUBE SOCKET

Cause: ORIGINAL PART DISCONTINUED

Cure: NEW PART NUMBER FOR TUBE SOCKET  
IS E822925

Model: C2546TN

Colour tv

Subject: SERVICE INFORMATION

Fault: NO TUNING/ MAX. AUDIO NOT POSSIBLE.

Symptom: NO TUNING, MAX. AUDIO NOT  
POSSIBLE.

Cause: TV IN PSEUDO HOTEL MODE.

Cure: PRESS/HOLD VOL+/- ON TV FRONT AND  
SWITCH SET ON AT FRONT. PRESS 2 VCR REC  
BUTTONS ON REMOTE. CHECK FOR "H" AT LOWER  
RIGHT OF MENU. IF PRESENT, DELETE USING  
-/- - BUTTON. THEN GO TO STANDBY.

Model: C2546TN

Colour tv

Subject: AUDIO

Fault: NO MONO SOUND NICAM SOUND OK

Symptom: NO MONO SOUND, NICAM SOUND OK

Cause: IC 1401 TYPE TA8777N

Cure: REPLACE IC 1401  
IC 1401 PART NUMBER J2004651

Model: C2547TN

COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD SET - ZD951 SHORT CIRCUIT

Symptom: SET DEAD, PROTECTION DIODE  
ZD951 HAS GONE SHORT CIRCUIT

Cause: HT HAS RISEN TOO HIGH

Cure: REPLACE ZD951 P#2344122M (25") /  
2344121M (21") AND IC901 OPTO COUPLER  
P# 2917782 TYPE CNX82A. CHECK R950 68K  
HAS NOT RISEN IN VALUE, AND IC951 &  
IC952 FOR DRY JOINTS.

Model: C2547TN

COLOUR TV

Subject: POWER SUPPLY

Fault: STUCK IN STANDBY.

Symptom: STUCK IN STANDBY.

Cause: DRY JOINTS ON IC 952.

Cure: CHECK/RE-SOLDER JOINTS ON IC952.  
SEE ALSO FAULT NUMBER 497.

Model: C2547TN

COLOUR TV

Subject: TUNING SELECTION

Fault: C46TN ON SCREEN ON SWITCH ON

Symptom: WHEN SWITCHED ON THE O. S. D.  
PROMPT SHOWS C46TN

Cause: SET IS IN FACTORY SET UP MODE

Cure: USING THE REMOTE HANDSET;  
PRESS THE TWO VCR RECORD BUTTONS  
SIMULTANEOUSLY. WHEN THE MENU APPEARS  
GO TO STANDBY. SWITCH THE SET BACK ON  
AND THE O. S. D. PROMPT WILL BE REMOVED

Model: C2547TN

COLOUR TV

Subject: TUNING SELECTION

Fault: CHANNEL IDENT APPEARS WITH VCR PLAY

Symptom: WHEN PLAYING BACK A VCR TAPE  
THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.

CAUSE. CORRUPTION TO SYNC FROM THE  
TAPE

CURE. EACH TIME VCR PLAYBACK STARTS  
PRESS THE ' UPDATE ' BUTTON ON THE T. V.  
HANDSET.

Model: C2547TN

COLOUR TV

Subject: TUNING SELECTION

**Fault:** "C46TN" OSD, AFTER REPLACING IC001  
**Symptom:** AFTER REPLACING I. C. 001 THE  
O. S. D. SHOWS THE PROMPT "C46TN"  
**Cause:** WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
**Cure:** FOLLOWING REPLACEMENT OF I. C. 001  
YOU WILL NEED TO BRING THE I. C. OUT OF  
THE SET UP MODE. TO DO THIS YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET  
1) PRESS THE VCR RECORD BUTTONS BOTH  
TOGETHER. THESE ARE THE TWO BOTTOM  
OUTER BUTTONS ON THE HANDSET. THE MENU  
ON SCREEN WILL CHANGE TO READ  
VERSION 46 V1.0  
STANDARD I  
DEFAULT 0  
AFC MID  
2) PUT THE SET INTO STAND BY.  
3) SWITCH THE SET BACK ON FROM STAND  
BY. THE AUTO TUNE MENU WILL APPEAR.  
THE SET MAY BE TUNED IN AS REQUIRED.

Model: C2547TN COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** CHANNEL IDENT APPEARS IN VCR PLAY  
**Symptom:** WHEN PLAYING BACK RECORDINGS  
OF OFF AIR PROGRAMMES, THE CHANNEL  
IDENT APPEARS INTERMITTANTLY.  
**Cause:** PACKET 830 IDENTIFICATION BY  
MICRO PROCESSOR.  
**Cure:** CHANGE I. C. 001 PT. No T900644.  
N. B. . VCR PLAYBACK MUST BE VIA SCART TO  
PREVENT RE-OCCURENCE OF SYMPTOMS.

Model: C2547TN COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** NO ON SCREEN GRAPHICS.  
**Symptom:** NO ON SCREEN GRAPHICS, BUT  
FUNCTIONS STILL OPERATE. I. E. VOL. ETC.  
**Cause:** HORIZONTAL PULSE MISSING FROM  
IC001 PIN26.  
**Cure:** CHECK/REPLACE ZD002, PT. NO.  
T536174.

Model: C2547TN COLOUR TV

**Subject:** TUNER/IF  
**Fault:** NO SOUND OR PICTURE-BLANK RASTER  
**Symptom:** NO SOUND OR PICTURE, JUST A  
BLANK RASTER.  
**Cause:** FAULTY TUNER



**Cure: FIT NEW TUNER UNIT PT/No E710029**

Model : C2547TN COLOUR TV

**Subject: TUNER/I F**

## Fault: PICTURE FLICKER - BLACK LINES

**Symptom:** FLICKERING BLACK LINES CAN BE SEEN ACROSS THE PICTURE.

**Cause:** INTERMITTANT TUNER UNIT

**Cure: REPLACE TUNER UNIT PT/No E710029**

Model: C2547TN COLOUR TV

**Subject: Y/C SIGNAL PROCESSING**

**Fault t: LOSS OF COLOUR IN A. V. MODE**

**Symptom:** COLOUR LOSS AFTER A PERIOD OF  
TIME IN THE A. V. MODE

**Cause: TOLERANCES IN CAPACITORS.**

**Cure:** REPLACE C1308 WITH A 1n0 50v  
PART No 0880031.

Model: C2547TN COLOUR TV

**Subject: Y/C SIGNAL PROCESSING**

**Fault t: COLOUR LOSS WITH MACRO VIDEO TAPES**

**Symptom:** COLOUR LOSS ON HIGH CHROMA SATURATION, THIN DARK AREA AT BOTTOM OF PICTURE WHEN USING MACRO TAPES.

**Cause:     MACRO PROTECTION.**

**Cure:** REPLACE I. C. 201 PT/No T900623  
TYPE TDA8362-N4. IF ORIGINAL IC201 IS  
TYPE TDA8361, CHECK R523 IS 8K2 AND  
FIT AS NECESSARY. PART No 0700053

Model: C2547TN COLOUR TV

**Subject: Y/C SIGNAL PROCESSING**

**Fault: NO BLUE SIGNAL.**

**Symptom:** NO BLUE SIGNAL.

**Cause:** OPEN CIRCUIT CAPACITOR.

**Cure: CHECK/REPLACE C516.**

PT. NO. 0880057R.

Model: C2547TN COLOUR TV

**Subject: AUDI 0**

**Fault: NO SOUND FROM OFF AIR STATIONS.**

**Symptom:** PICTURE O. K. NO SOUND FROM  
OFF AIR STATIONS.

**Cause: I. C. FAILURE.**

**Cure: CHECK / REPLACE I. C. 4051 TDA9800  
PART NUMBER T900602**

CHECK / REPLACE IC001 PT/NO T900644  
CHECK / REPLACE IC002 PT/NO E730045

Model: C2547TN COLOUR TV

Subject: AUDIO  
Fault: RANDOM APPEARANCE OF NICAM SYMBOLS  
Symptom: RANDOM APPEARANCE OF NICAM  
SYMBOLS. ALSO SOUND "POPPING".  
Cause: DRY JOINTS ON IC951 & IC952.  
Cure: RE-MAKE JOINTS ON IC951 & IC952.  
SEE ALSO FAULT NO. 515.

Model: C2547TN COLOUR TV

Subject: AUDIO  
Fault: NO AUDIO, NICAM OR FM  
Symptom: NO AUDIO, NICAM OR FM  
FM AUDIO GOING INTO IC4201 PIN 7.  
Cause: FAULTY MEMORY IC.  
Cure: CHANGE IC 002. PT. NO. E730045.

Model: C2547TN COLOUR TV

Subject: TELETEXT  
Fault: CHANNEL IDENT APPEARS WITH VCR PLAY  
Symptom: WHEN PLAYING BACK A VCR TAPE  
THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.  
CAUSE. CORRUPTION TO SYNC FROM THE  
TAPE  
CURE. EACH TIME VCR PLAYBACK STARTS  
PRESS THE 'UPDATE' BUTTON ON THE T. V.  
HANDSET.

Model: C2547TN COLOUR TV

Subject: SERVICE INFORMATION  
Fault: "MINI" HANDSET COMPATABILITY  
THERE ARE TWO VERSIONS OF THE "MINI"  
HANDSET AVAILABLE. THESE ARE USED IN  
CONJUNCTION WITH THE C21/5/846TN AND  
THE C21/547TN. THE TYPE & PART NUMBERS  
ARE LISTED BELOW.  
CL903 JHL00121 USE WITH 47 SERIES CTV  
CL903A JHL00122 USE WITH 46 & 47 CTV  
IF THE CL903 IS USED WITH THE 46  
SERIES CTV, SOME BUTTONS MAY FAIL TO  
OPERATE THE TELEVISION SET.

Model: C2547TN

COLOUR TV

Subject: SERVICE INFORMATION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
Symptom: AFTER REPLACING I. C. 001 THE  
O. S. D. SHOWS THE PROMPT "C46TN"  
Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
Cure: FOLLOWING REPLACEMENT OF I. C. 001  
YOU WILL NEED TO BRING THE I. C. OUT OF  
THE SET UP MODE. TO DO THIS YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET  
1) PRESS THE VCR RECORD BUTTONS BOTH  
TOGETHER. THESE ARE THE TWO BOTTOM  
OUTER BUTTONS ON THE HANDSET. THE MENU  
ON SCREEN WILL CHANGE TO READ  
VERSION 46 V1.0  
STANDARD I  
DEFAULT 0  
AFC MID  
2) PUT THE SET INTO STAND BY.  
3) SWITCH THE SET BACK ON FROM STAND  
BY. THE AUTO TUNE MENUE WILL APPEAR.  
THE SET MAY BE TUNED IN AS REQUIRED.

Model: C2547TN

COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: UPDATED I. C. 201 - TDA8362-N4  
Symptom: IC201 HAS BEEN CHANGED TO AN  
ISSUE 4 MASK.  
Cause: MASK CHANGE BY IC MANUFACTURER  
Cure: WHEN ORDERING THIS NEW VERSION  
OF IC201 USE PART NUMBER T900623. IF  
THIS IS TO REPLACE TYPE TDA8361, CHECK  
R523 IS 8K2 AND REPLACE AS NECESSARY.  
PART No 0700053.

Model: C2547TN

COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER , T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 T901 PT# CHANGED  
DEFECT: A  
REPAIR: A NEW PART # FOR T901 IS  
L380119

Model: C2548TN

59cm ni cam

Subject: POWER SUPPLY  
Fault: FAILURE OF TRANSISTOR BUT12AF.  
Symptom: FAILURE OF TRANSISTOR, BUT12AF



**Cause:** HITACHI APPROVED DEVICE NOT USED.

**Cure:** HITACHI APPROVED BUT12AF ONLY SHOULD BE USED. PT. NO. 2314791. A FURTHER IMPROVEMENT CAN BE EFFECTED BY CHANGING D907 TO TYPE MP606M PT. NO. T431123.

Model: C2548TN 59cm ni cam

**Subject: POWER SUPPLY**  
**Fault: STUCK IN STANDBY.**  
**Symptom: STUCK IN STANDBY.**  
**Cause: DRY JOINTS.**  
**Cure: CHECK PRINT AROUND PINS 9&10 OF**  
**L. O. P. T. (T701) FOR DRY JOINTS.**  
**NB: IN THIS CONDITION POWER GOOD LINE**  
**IS LOW AS, ALTHOUGH 14V IS PRESENT,**  
**VOLTAGE APPLIED TO PIN 5 OF IC954 IS**  
**LOWER THAN NORMAL, OWING TO PSU MODE.**

Model: C2548TN 59cm ni cam

**Subject:** TUNING SELECTION  
**Fault:** CHANGE OF MICROPROCESSOR IC 001  
**SECTION:** SYS.  
**CONDITION:** 1  
**Symptom:** 185 SOFTWARE UPGRADE  
**DEFECT:** A  
**REPAIR:** A IC001 PT# T900721  
**NOTE:** X001 MUST BE CHANGED TO 4MHZ  
**WITH VERSION 2 MICRO X001 PT# J2940661**

**Model : C2548TN                      59cm ni cam**

Subject: TELETEXT  
Fault: TELETEXT BRIGHTNESS LOW.  
Symptom: TELETEXT BRIGHTNESS LOW.  
Cause: TEXT BRIGHTNESS IS AFFECTED BY  
PICTURE CONTRAST AND BRIGHTNESS  
SETTINGS.  
Cure: IF CUSTOMER PREFERRED PICTURE  
SETTINGS LEAVE TEXT BRIGHTNESS LOW,  
THE FOLLOWING CHANGES MAY BE CARRIED  
OUT: - ..... SEE NEXT PAGE.  
(CONTD)  
INCREASE C805, C806 & C807 TO 470PF,  
PT. NO. 0890083.  
CHANGE R2203(2K2) & R2204(560R) TO  
1% RESISTORS.  
IF EXTRA BRIGHTNESS REQUIRED, CHANGE  
R2204 TO 680 OHMS. HOWEVER THIS SHOULD  
ONLY BE DONE AS A LAST RESORT. TEXT MAY

BEND AT HIGH CONTRAST LEVELS.

Model: C2548TN

59cm ni cam

Subject: SERVICE INFORMATION

Fault: C\*\*\*48TN- 311 APPEARS ON SCREEN

Symptom: 'C\*\*\*48TN- 311' OSD APPEARS ON  
SCREEN

Cause: SET IS IN FACTORY SET UP MODE

Cure: REMOVE THE FLAP AT BOTTOM OF THE  
REMOTE CONTROL AND PRESS TUNING BUTTON  
THEN PRESS THE MENU BUTTON. FINALLY GO  
TO STANDBY. WHEN YOU EXIT STANDBY MODE  
THE SET PROMPT WILL BE REMOVED.

Model: C2548TN

59cm ni cam

Subject: PART NUMBER CHANGES

Fault: CHANGE OF RESISTORS R2203 AND R2204

Symptom: CHANGE OF TOLERANCE OF R2203  
AND R2204

Cause: IMPROVEMENT

Cure: CHANGE R2203(2K2) AND R2204  
(560R) TO 1% TOLERANCE.

PART NUMBERS R2203	R232725
R2204	R526725

Model: C2548TN

59cm ni cam

Subject: PART NUMBER CHANGES

Fault: CHANGE OF PART NUMBER , T901

SECTION: PSU

CONDITION: 1

Symptom: 185 T901 PT# CHANGED

DEFECT: A

REPAIR: A NEW PART # FOR T901 IS  
L380119

Model: C2548TN

59cm ni cam

Subject: Y/C SIGNAL PROCESSING

Fault: COLOUR NOISE ON SECAM RECEPTION

Symptom: COLOUR NOISE ON SECAM  
RECEPTION.

Cause: LOW CHROMA SIGNAL

Cure: REPLACE R356 WITH WIRE LINK

Model: C2556TN

25" Ni cam

Subject: TUNING SELECTION

Fault: CHANGE OF MEMORY IC002

SECTION: SYS



CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: C2556TN 25" Ni cam

Subject: TUNER/IF  
Fault: DISTORTED SOUND  
SECTION: IFC IF CIRCUIT  
CONDITION: 1  
Symptom: 532 AUDIO DISTORTED  
DEFECT: C MIS-ALIGNED L203  
REPAIR: C MONITOR SCART AUDIO &  
ADJUST L203 FOR

Model: C2556TN 25" Ni cam

Subject: TUNER/IF  
Fault: DISTORTED SOUND  
CLEAR WAVE FORM

Model: C2556TN 25" Ni cam

Subject: Y/C SIGNAL PROCESSING  
Fault: BLANK SCREEN AT SWITCH ON  
SECTION: CRT  
CONDITION: 1  
Symptom: 315 BLANK SCREEN  
DEFECT: Y  
REPAIR A CHANGE R896, R897 AND R898  
FROM 150R TO 220R. CONNECT A METER TO  
THE GREEN CATHODE AND ADJUST THE  
SCREEN CONTROL FOR A READING OF 147V.

Model: C2556TN 25" Ni cam

Subject: Y/C SIGNAL PROCESSING  
Fault: IMPROVEMENT OF PICTURE SATURATION  
SECTION: CPA  
CONDITION: 1  
Symptom: 185 IMPROVEMENT OF SATURATION  
DEFECT: Y  
REPAIR: A CHANGE ZD501, ZD502 AND ZD503  
FROM 5V1 TO 8V2 ZENER PT# T536186

Model: C2556TN 25" Ni cam

Subject: AUDIO  
Fault: DISTORTED SOUND AT LOW VOLUME  
SECTION: APA  
CONDITION: 1

Symptom: 532 DISTORTED SOUND  
DEFECT: Z  
REPAIR: A REMOVE J203 AND J204 AND  
REPLACE WITH 100R RESISTORS. DECOUPLE  
PINS 60 AND 61 OF IC400 WITH 10nF 50V

Model: C2556TN 25" Ni cam

Subject: VERTICAL STAGE  
Fault: IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316 HORIZONTAL LINE  
DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J

Model: C2556TN 25" Ni cam

Subject: TELETEXT  
Fault: IMPROVEMENT OF TEXT BREATHING  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 IMPROVEMENT OF TEXT  
BREATHING  
DEFECT: Y  
REPAIR: A REPLACE WIRE LINK IN  
POSITION R5 WITH 220R PT# J0700032M

Model: C2556TN 25" Ni cam

Subject: PART NUMBER CHANGES  
Fault: CONTROL DOOR DAMAGED  
SECTION: CBT  
CONDITION: 1  
Symptom: 185 IMPROVEMENT  
DEFECT: D CONTROL DOOR DAMAGED  
REPAIR: A MODIFIED CONTROL DOOR PART #  
X263536 FOR C21/25/2856TN  
PART # X263537 FOR C2186TN  
NOTE. MODIFIED CONTROL DOOR HAS BEEN  
FITTED FROM S/NO. U7K001101 ON C2156TN  
U7K002601 ON C2556TN  
U7L005601 ON C2186TN

Model: C2556TN 25" Ni cam

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART #, IR LED LENS  
SECTION: REM REMOTE SECTION  
CONDITION: 1  
Symptom: 185 MODIFIED IR LENS

# HITACHI

DEFECT: Y  
REPAIR: A PART # FOR MODIFIED IR LENS  
ISX425144

Model: C2556TN 25" Ni cam

Subject: TUNER/IF/VIDEO  
Fault: DISTORTED SOUND FROM COLD  
SECTION: TUN  
CONDITION: 6  
Symptom: 532 DISTORTED AUDIO FROM COLD  
DEFECT: C L203 MIS-ALIGNED  
REPAIR: C CONNECT METER TO THE JUNCTION OF R225 AND R226. ON A GOOD SIGNAL  
ADJUST L203 FOR A READING OF 4.25V

Model: C2556TN 25" Ni cam

Subject: TUNER/IF/VIDEO  
Fault: CHANGE OF COMPOSITE VIDEO LEVEL  
SECTION: IFC  
CONDITION: 1  
Symptom: 185 CHANGE OF COMP. VIDEO LEVEL  
DEFECT: Y  
REPAIR: A CHANGE R505 FROM 270R TO 220R. PART # J0700032M

Model: C2558T COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.  
Cause: FAULTY DIODE.  
Cure: CHECK/REPLACE D907 LEAKY.  
PT. NO. T531056.

Model: C2558TN COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY SHUTS DOWN/PULSING  
Symptom: SET CUTS OUT INTERMITTANTLY, OR PULSES FROM COLD  
Cause: OVER VOLTS UNIT CONDUCTING.  
Cure: CHECK/REPLACE OC941, Q941, ZD941  
(REPLACE WITH HITACHI PARTS ONLY).

Model: C2558TN COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT TO STANDBY  
Symptom: SET INTERMITTANTLY GOES INTO STANDBY.











TWO VERSIONS PRODUCTION CHANGE.  
EARLY SWITCH = PT NO J2632501  
LATER SWITCH = PT NO J2633391  
CABINET (PT NO A777786) AND PCB  
(PT NO A520830) CAN BE USED WITH  
EITHER SWITCH

Model: C2558TN

COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: STAND ASSEMBLY HAS BEEN CHANGED  
THE PART NUMBER FOR THE REPLACEMENT  
STAND IS X711156. THE NEW STAND IS  
COMPLETELY INTERCHANGEABLE WITH THE  
ORIGINAL STAND

Model: C2562TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: PICTURE FLARING.  
Symptom: PICTURE FLARING ON ALL  
COLOURS.  
Cause: FAULTY RESISTOR.  
Cure: CHECK/REPLACE RH17, 1K.  
PT. NO. SAL 610011901.

Model: C2562TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: NO COLOUR, NO TEXT OR SOUND  
Symptom: NO COLOUR, TELRTEXT OR SOUND  
Cause: FAULTY MEMORY IC ID03  
Cure: REPLACE ID03 PART NUMBER  
SAL 646002601

Model: C2562TN

COLOUR TV

Subject: AUDIO  
Fault: NO COLOUR, NO TEXT OR SOUND  
Symptom: NO COLOUR, TELRTEXT OR SOUND  
Cause: FAULTY MEMORY IC ID03  
Cure: REPLACE ID03 PART NUMBER  
SAL 646002601

Model: C2562TN

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: E/W FAILURE / LOW WIDTH  
Symptom: EAST WEST FAILURE, LOW WIDTH  
AND THE LINE OUTPUT TRANSISTOR GETS  
VERY HOT.  
Cause: POOR CAPACITANCE.



# HITACHI

Cure: CHECK / REPLACE CH09 150nF 250V  
PART NUMBER SAL 622027201

Model: C2562TN COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: FAILURE OF TH02 LINE TRANSISTOR  
SYMPTOM LINE TRANSISTOR TH02 FAILS  
IMMEDIATELY ON SWITCH ON.  
Cause: LOW CAPACITORS.  
Cure: REPLACE TH02, CH07, CH08, CH10

Model: C2562TN COLOUR TV

Subject: TELETEXT  
Fault: NO COLOUR, NO TEXT OR SOUND  
Symptom: NO COLOUR, TELRTEXT OR SOUND  
Cause: FAULTY MEMORY IC ID03  
Cure: REPLACE ID03 PART NUMBER  
SAL 646002601

Model: C2564TN COLOUR TV

Subject: POWER SUPPLY  
Fault: BRIGHT RASTER, SET TRIPPING (IB197)  
Symptom: SCREEN GOES BRIGHT RED, GREEN  
OR BLUE  
Cause: RGB DRIVE FAULTY.  
Cure: REPLACE IC800 TYPE TEA5101A  
PART NUMBER T900509, ON CRT BASE PCB.

Model: C2564TN COLOUR TV

Subject: POWER SUPPLY  
Fault: SET TRIPS OUT (IB218)  
Symptom: SET DEAD, PSU PULSING.  
Cause: SHORT CIRCUIT / LEAKY CAPACITOR  
Cure: REMOVE NICAM PCB, THEN SWITCH  
SET BACK ON. IF PULSING STOPS AND SET  
NOW WORKS O. K. CHECK / REPLACE BOTH  
C4015 AND C4016 470nF PART No C457421

Model: C2564TN COLOUR TV

Subject: POWER SUPPLY  
Fault: SET CUTS OUT, SCREEN BRIGHT WHITE.  
Symptom: SET CUTS OUT INTERMITTANTLY,  
SCREEN FLARES BRIGHT WHITE.  
Cause: DRY JOINTS.  
Cure: REMOVE SOLDER FROM METAL SPRING  
CLIPS HOLDING IC800 HEAT SINK. CLEAN  
BARE METAL AND RESOLDER, ENSURING A

GOOD CONTACT. IC800 MAY ALSO BE FAULY  
AND REQUIRE REPLACING PT/No T900509

Model: C2564TN

COLOUR TV

Subject: POWER SUPPLY

Fault: SET PULSES FROM COLD, THEN COMES ON  
Symptom: WHEN SWITCHED ON FROM COLD  
THE SET PULSES. IF LEFT, ONCE LINE OUT  
TRANSISTOR GETS WARM, THE SET STARTS  
TO WORK.

Cause: INTERMITTANT TRANSISTOR.

Cure: REPLACE LINE OUTPUT TRANSISTOR  
Q703.

Model: C2564TN

COLOUR TV

Subject: POWER SUPPLY

Fault: SET PULSING / DEAD - D704 FAILS.  
Symptom: SET DEAD / PULSES, D704 FAILS  
AFTER REPLACING.

Cause: SHORTED TURNS ON INDUCTOR.

Cure: REPLACE L651 PART No J2220642.  
ALSO CHECK Q652 PART No T631275 AND  
Q651 PART No T636046.

Model: C2564TN

COLOUR TV

Subject: POWER SUPPLY

Fault: SET DEAD, STANDBY LIGHT PULSING  
Symptom: SET DEAD, NO PRIMARY START UP  
NO 300V ON Q901. STANDBY LIGHT IS  
PULSING

Cause: DRY JOINTS

Cure: CHECK / RESOLDER DRY JOINTS ON  
FERRITE BEADS FB910 AND FB911.

Model: C2564TN

COLOUR TV

Subject: POWER SUPPLY

Fault: POP OR BUZZ ON SWITCH OFF(TNZ ONLY)  
Symptom: WHEN SWITCHED OFF POP OR BUZZ  
THROUGH SPEAKERS, (TNZ VERSION ONLY).

Cause: POOR REGULATION OF THE +30 VOLT  
SUPPLY LINE.

Cure: REPLACE Q931 BD908 P# T636059.

Model: C2564TN

COLOUR TV

Subject: POWER SUPPLY

Fault: SQUEALING FROM SPEAKER IN STANDBY.  
Symptom: SQUEALING FROM SPEAKER IN

# HITACHI

STANDBY. (TNZ MODELS ONLY).  
Cause: FAULTY TRANSISTOR.  
Cure: REPLACE Q937. PT. NO. T631247.

Model: C2564TN COLOUR TV

Subject: POWER SUPPLY  
Fault: CUT OUT ON CHANNEL CHANGE.  
Symptom: CUT OUT ON CHANNEL CHANGE.  
Cause: POOR REGULATION OF HT SUPPLY.  
Cure: CHECK/CHANGE D945.  
PT. NO. T531053.

Model: C2564TN COLOUR TV

Subject: POWER SUPPLY  
Fault: SET TRIPS AFTER EHT COMES ON.  
Symptom: SET TRIPS AFTER EHT COMES ON.  
FRAME SCAN SOMETIMES OK.  
Cause: FAULTY MICRO.  
Cure: CHECK/REPLACE IC1001.  
PT. NO. T900552.

Model: C2564TN COLOUR TV

Subject: TUNING SELECTION  
Fault: FACTORY 05 ON SCREEN (IB165)  
Symptom: SET HAS PERMANENT O. S. D. OF  
FACTORY 05  
Cause: SET IS IN FACTORY SET UP MODE  
Cure: USING THE REMOTE CONTROL. PULL  
THE LOWER FLAP DOWN TO REVEAL VCR  
CONTROLS. PRESS THE TWO RECORD BUTTONS  
TOGETHER. PUT THE SET INTO STANDBY. THE  
PROMPT WILL BE REMOVED ON SWITCH ON.

Model: C2564TN COLOUR TV

Subject: TUNING SELECTION  
Fault: SKEWED OR NO PICTURE (IB215)  
Symptom: PICTURE SKEWS AT TOP WHEN ANY  
VIDEO TAPE IS PLAYED BACK.  
Cause: INCORRECT CHANNEL IN USE  
Cure: FOR CLEAR PLAYBACK VCR SHOULD BE  
CONNECTED EITHER VIA SCART, OR WHEN  
USING VIA R. F. CHANNELS 56-59 MUST BE  
USED.

Model: C2564TN COLOUR TV

Subject: TUNING SELECTION  
Fault: FRAME BOUNCE ON ONE OR MORE CHANNEL

**Symptom:** FRAME BOUNCE IS SEEN ON ONE  
OR MORE CHANNELS  
**Cause:** SYNC PROBLEMS IN CHROMA.  
**Cure:** REPLACE IC501 TYPE MC44000  
PART NUMBER T900559.  
N. B. ENSURE LIKE FOR LIKE TYPE NUMBER  
REPLACEMENT.

Model: C2564TN

COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** I. C 500 UPGRADE (IB267)  
**Symptom:** IC500 HAS BEEN UPGRADED FROM  
MC44140 TO MC441409, PT/No T900558  
**Cause:** ORIGINAL NO LONGER AVAILABLE.  
**Cure:** FIT THE NEW VERSION OF I. C. 500.  
IT IS NOW NECESSARY TO CARRY OUT THE  
FOLLOWING CHANGES IF REPLACING THE OLD  
TYPE OF IC WITH THE NEW.  
1. CHANGE C504 AND C505 TO 100NF  
PT. NO C150877.  
2. CHANGE C502 AND C503 TO 1U0  
PT. NO J0800003R  
3. ON THE PRINT SIDE OF THE SIGNAL AND  
CONTROL PANEL ADD A 10NF CAPACITOR  
PT. NO C140877, FROM PIN 16 OF I. C  
500 TO GROUND.

Model: C2564TN

COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** INTERMITTANT TO STANDBY  
**Symptom:** SET INTERMITTANTLY GOES TO  
STANDBY.  
**Cause:** LEAKY DIODE.  
**Cure:** CHECK / REPLACE D704  
PART NUMBER T431117

Model: C2564TN

COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** INTERMITTANT TO STANDBY  
**Symptom:** SET INTERMITTANTLY GOES TO  
STANDBY  
**Cause:** FAULTY MICRO PROCESSOR.  
**Cure:** REPLACE I. C. 1001 PT/No T900552  
TYPE ST6393

Model: C2564TN

COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** NOT STORING DIRECT TUNING (IB272)  
**Symptom:** SET WILL STORE CHANNELS FOUND

# HITACHI

BY SEARCH TUNE METHOD, BUT WILL NOT  
STORE DIRECT DIALED CHANNELS.

Cause: CORRUPTED DATA

Cure: CHANGE MAIN MICRO IC1001.



Model: C2564TN COLOUR TV

Subject: TUNING SELECTION

Fault: IC1001 PART NUMBER CORRECTION (TNZ)

Symptom: THE PART NUMBER FOR IC1001  
ST6393 IS INCORRECT IN THE SERVICE  
MANUAL FOR THE C2564TNZ/C2864TNZ

Cause: PRINTING ERROR

Cure: THE CORRECT PART NUMBER IS  
T900552



Model: C2564TN COLOUR TV

Subject: TUNING SELECTION

Fault: CAUTION WHEN CHANGING SIGNAL PANEL  
WHEN CHANGING THE SIGNAL AND CONTROL  
PCB YOU MUST CHECK FOR PLUG PL101. IF  
THIS PLUG IS FITTED THEN YOU MUST BE  
SURE THAT THE SPEAKER CROSSOVER PCB IS  
THE ACTIVE TYPE (3D AMP). IF THIS IS  
NOT DONE C105 WILL BE DAMAGED.  
PLUG PL101 IS LOCATED NEXT TO THE  
AUDIO HEATSINK AND C105.  
3D AMP PCB PART NO. A521770



Model: C2564TN COLOUR TV

Subject: TUNING SELECTION

Fault: 'FACTORY 05' ON SCREEN PERMANENT

Symptom: ON SCREEN DISPLAY SHOWS THE  
MESSAGE 'FACTORY 05' PERMANENTLY

Cause: SET IS IN FACTORY SET UP MODE

Cure: WITHDRAW THE BOTTOM FLAP ON THE  
REMOTE HANDSET. PRESS THE TWO VCR  
RECORD BUTTONS SIMULTANEOUSLY, THEN GO  
TO STANDBY BY HANDSET. SWITCH BACK ON  
AND THE OSD MESSAGE WILL BE REMOVED



Model: C2564TN COLOUR TV

Subject: TUNING SELECTION

Fault: CUT OUT ON CHANNEL CHANGE.

Symptom: CUT OUT ON CHANNEL CHANGE.

Cause: POOR REGULATION OF HT SUPPLY.

Cure: CHECK/CHANGE D945.  
PT. NO. T531053.



Model: C2564TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: SET DEAD/PULSING (IB262)  
Symptom: SET DEAD, PSU PULSING.  
Cause: OPEN CIRCUIT FUSE / LINK  
Cure: REPLACE FUSE F902 CHECK LINK J53  
FOR DRY JOINTS (WHERE FITTED)

Model: C2564TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
Symptom: IC501 P/No T900559 MC44000  
HAS BEEN UPDATED TO T900568 XC44001  
Cause: PRODUCTION CHANGES.  
Cure: IN LATER MODELS THIS VERSION HAS  
ALREADY BEEN FITTED AND DIRECT ONE FOR  
ONE REPLACEMENT CAN BE MADE. HOWEVER  
IF THE ORIGINAL I. C. IS MC44000 THEN  
THE FOLLOWING CHANGES MUST BE MADE. .  
DELETE THE FOLLOWING: R532, 537, 517, 543  
544, 545, & IF FITTED R591 SOLDERED  
BETWEEN THE LEGS OF C590. ALSO DELETE  
C527 & C530 AND IF FITTED GREEN LEAD  
TO THE E/W PCB  
ADD 100nF CAP INTO HOLES OF R517  
ADD A 4n7 CAPACITOR INTO THE HOLES FOR  
C530. ADD A 15mm LEAD FROM THE LEG. . .  
OF THIS CAPACITOR WHICH IS AT THE  
JUNCTION WITH C529 TO THE VACANT HOLE  
C527 AT ITS JUNCTION WITH R517.  
CHANGE R2110 TO 6K8 - THIS MAY BE IN  
POSITION MARKED J2110 ON THE PWB  
ALSO CHANGE THE FOLLOWING ACCORDING TO  
THE SCREEN SIZE. . . . .

Model: C2564TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
59 AND 66CM VERSIONS :  
R511 SHOULD BE CHANGED TO 7K5  
R546 SHOULD BE CHANGED TO 4K7  
51CM VERSIONS:  
R511 SHOULD BE CHANGED TO 10K  
R546 SHOULD BE CHANGED TO 5K6  
.....  
WHEN ALL CHANGES HAVE BEEN MADE IT  
WILL BE NECESSARY TO RE-SET AND STORE  
ALL GEOMETRY ADJUSTMENTS, DETAILS OF  
WHICH CAN BE FOUND IN THE TECHNICAL  
INFORMATION BOOKLET X830798

Model: C2564TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: FLASHING OR PULSATING PICTURE/PSU.  
SYMPTOM FLASHING/PULSATING PICTURE/PSU

Cause: FAULTY CAPACITOR, CHANGED VALUE

Cure: CHECK/REPLACE C927, 470MF, 25V.  
PT. NO. C001541.



Model: C2564TN

COLOUR TV

Subject: AUDIO

Fault: SOUND 'BUMP' ON SWITCH ON (IB180)

Symptom: AN AUDIBLE 'BUMP' CAN BE  
HEARD FROM THE SET SPEAKERS ON SWITCH  
ON.

Cause: TIME CONSTANT OF SOUND MUTING.

Cure: CHANGE THE VALUE OF R146 TO 470R  
PART NUMBER 0700036



Model: C2564TN

COLOUR TV

Subject: AUDIO

Fault: LOW LEVEL HUM WHEN AT ZERO VOLUME.

Symptom: A LOW LEVEL HUM CAN BE HEARD  
WHEN THE VOLUME IS AT ZERO

Cause: DRY JOINTS.

Cure: CHECK C542 FOR DRY JOINTS, WITH  
SPECIAL ATTENTION TO THE NEGATIVE  
CONNECTION.  
N. B C542 MAY BE MARKED C452 ON PCB.



Model: C2564TN

COLOUR TV

Subject: VERTICAL STAGE

Fault: IC601 UPDATE.

Symptom: IC601 SUPPLIED IS DIFFERENT  
TYPE TO THAT SPECIFIED IN THE MANUAL.

Cause: ORIGINAL TYPE IS NOT AVAILABLE.

Cure: NEW TYPE, TDA8171, IS DIRECT  
EQUIVALENT TO ORIGINAL. PT. NO. T900556.  
NO OTHER CHANGES ARE NECESSARY.



Model: C2564TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: POOR GEOMETRY UPON SWITCH ON(1B185)

Symptom: PICTURE GEOMETRY INCORRECT  
WHEN FIRST SWITCHED ON.

Cause: MICRO NOT RESETING FULLY.

Cure: R1053 HAS BEEN ADDED FROM +12V  
SUPPLY TO PIN 1 OF IC1004. R1052 HAS  
BEEN ADDED FROM PIN 1 OF IC1004 TO

GROUND. PIN 3 OF IC1004 GOES TO PIN 41  
OF IC1001.

Model: C2564TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: SET DEAD, BLOWS LINE OUT TRANSISTOR

Symptom: SET DEAD. LINE OUTPUT

TRANSISTOR FAILED. TRANSISTOR FAILS  
AGAIN AFTER REPLACEMENT.

Cause: OPEN CIRCUIT CRYSTAL.

CURE; CHECK / REPLACE X520

Model: C2564TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: RAGGED VERT/BLOWS L/OP TRANSISTOR

Symptom: RAGGED VERTICLES, BLOWS LINE  
OUTPUT TRANSISTOR IF LEFT ON.

Cause: OPEN CIRCUIT / LEAKY CAPACITOR

Cure: CHECK / REPLACE C514 2u2 50V  
PART NUMBER 0800005R.

Model: C2564TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: SET PULSES FROM COLD, THEN COMES ON

Symptom: WHEN SWITCHED ON FROM COLD

THE SET PULSES. IF LEFT, ONCE LINE OUT  
TRANSISTOR GETS WARM, THE SET STARTS  
TO WORK.

Cause: INTERMITTANT TRANSISTOR.

Cure: REPLACE LINE OUTPUT TRANSISTOR  
Q703.

Model: C2564TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: NO EAST WEST CORRECTION (TNZ ONLY)

Symptom: EAST WEST PARABOLA CANNOT BE  
ADJUSTED (ON TNZ VERSIONS ONLY)

Cause: POSSIBLE STATIC DISCHARGE.

Cure: REPLACE IC650 PART No T900572

ADD A 12V ZENER FROM PIN 3 TO PIN 1 OF  
PLUG PL701 WITH THE ANODE TO PIN 1.

ADD A 33V & 7V5 IN SERIES FROM PIN 2  
TO PIN 1 WITH THE ANODE TO PIN 1

Model: C2564TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: SET PULSING / DEAD - D704 FAILS.





**Symptom:** SET DEAD / PULSES, D704 FAILS  
AFTER REPLACING.

**Cause:** SHORTED TURNS ON INDUCTOR.

**Cure:** REPLACE L651 PART No J2220642.  
ALSO CHECK Q652 PART No T631275 AND  
Q651 PART No T636046.

Model : C2564TN COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** ARCING AND TRIPPING.  
**Symptom:** ARCING IN LINE OUTPUT AREA AT  
SWITCH ON, THEN TRIPPING. SET COMES ON  
AFTER A TIME.  
**Cause:** FAULTY CAPACITOR.  
**Cure:** REPLACE C710. (DECOUPLING 12 VOLT  
SUPPLY TO LINE DRIVER STAGE).  
PT. NO. 0800082

Model: C2564TN COLOUR TV

Subject: TELETEXT  
Fault: TELETEXT CORRUPTION (IB212)  
THERE IS A SLIGHT POSSIBILITY OF  
CORRUPTION OCCURRING WHEN VIEWING  
TELETEXT FROM A VIDEOCRYPT SATELLITE  
CHANNEL.  
THIS CAN OCCUR ON THE 3RD LINE OF  
TELETEXT FROM THE TOP OF PAGES  
100- 199.  
THE BROADCASTING AUTHORITIES ARE  
INVESTIGATING THE MATTER IN  
CONJUNCTION WITH BREMA.

Model: C2564TN COLOUR TV

**Subject:** TELETEXT  
**Fault:** LINE JITTER ON TEXT WHEN COLD (IB21)  
**Symptom:** A LINE JITTER IS VISIBLE WHEN  
THE SET IS SWITCHED ON FROM COLD.  
**Cause:** SYNC CORRUPTION FROM TEXT PCB  
**Cure:** REPLACE IC2001 SAA5191  
PART NUMBER T900505

Model : C2564TN      COLOUR TV

**Subject: TELETEXT**  
**Fault: NO TELETEXT OPERATION**  
 ENTER THE PROGRAMME MODE OF THE SET  
 BY PRESSING AND HOLDING BOTH THE  
 VOLUME + AND VOLUME - BUTTONS WHILE  
 SWITCHING THE SET ON BY THE MAINS ON  
 OFF SWITCH.



AFTER A FEW SECONDS, THE CHANNEL  
DISPLAY WILL GO OUT AND THE SCREEN  
PROMPT "SERVICE 05" WILL APPEAR.



Model: C2564TN

COLOUR TV

Subject: TELETEXT

Fault: NO TELETEXT OPERATION

PULL DOWN THE FRONT COVER OF THE  
REMOTE CONTROL HANDSET TO REVEAL THE  
VCR CONTROLS

PRESS THE TWO RECORD BUTTONS TWICE.  
THIS WILL BRING UP THE "TUBE" MENU.  
PRESS THE TELETEXT BUTTON ON THE  
REMOTE HANDSET, AND THE WORDS "TEXT  
SERVICE MODE" WILL FLASH

YOU CAN NOW ADJUST THE DATA CAPTURE  
WINDOW BY USING THE BLUE COLOURED  
BUTTONS ON THE REMOTE HANDSET  
IT IS RECOMMENDED THAT YOU START BY  
PRESSING THE BOTTOM BLUE BUTTON. EACH  
TIME YOU PRESS THE BUTTON WILL MOVE  
THE ADJUSTMENT ONE "NOTCH". YOU MAY  
NEED TO PRESS THE BUTTON 7-10 TIMES  
WHEN THE TEXT CLOCK STARTS TO RUN  
NOTE THAT POSITION. THEN CONTINUE TO  
PRESS THE SAME BLUE BUTTON ON THE  
REMOTE HANDSET, NOTING THE NUMBER OF  
EXTRA PRESSES REQUIRED, UNTIL THE TEXT  
CLOCK STOPS ONCE AGAIN.

NOW USING THE UPPER BLUE BUTTON, MOVE  
THE SETTING HALFWAY BETWEEN THE TWO  
POINTS YOU HAVE JUST NOTED

I. E. IF THERE ARE EIGHT STEPS BETWEEN  
THE TWO POINTS AT WHICH THE TEXT CLOCK  
STOPS THEN PRESS THE UPPER BLUE BUTTON  
FOUR TIMES.

WHEN YOU HAVE REACHED THIS POINT THE  
TEXT SHOULD RUN NORMALLY. PRESS THE  
STORE BUTTON ON THE REMOTE HANDSET  
AND THEN GO TO STANDBY TO EXIT THE  
SERVICE MODE.

CONT. . . .

IF FOLLOWING THIS ADJUSTMENT THESE  
SETTINGS WILL NOT STORE, REPLACE

I. C. 2002 PART No E740007



Model: C2564TN

COLOUR TV

Subject: TELETEXT

Fault: TELETEXT LOSES WINDOW MEMORY

Symptom: NO TEXT, JUST 'P100' IN TOP

LEFT HAND SIDE OF SCREEN AND LOWER  
MENU PROMTS. AFTER ADJUSTING WINDOW  
SET LOSES MEMORY AGAIN AFTER TIME



Cause: MEMORY IC FAILURE  
Cure: IF WINDOW ADJUSTMENT IS LOST  
MORE THAN ONCE REPLACE IC2002 E740007  
AND CARRY OUT WINDOW ADJUSTMENT AGAIN

Model: C2564TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: SET NEEDS ADJUSTMENT - MALADJUSTED  
PUT SET INTO SERVICE MODE AS INDICATED  
BELOW:

1. PRESS VOL- & VOL+ BUTTONS ON THE  
FRONT CONTROL PANEL SIMULTANEOUSLY  
WHILST SWITCHING SET ON BY ON/OFF  
SWITCH.

2. WITHDRAW FLAP AT BOTTOM OF  
REMOTE CONTROL TO REVEAL VCR  
OPERATING BUTTONS.

PRESS THE TWO RECORD BUTTONS TWICE,  
THESE BUTTONS ARE IDENTIFIED BY A  
LINE CONNECTING THE TWO, AND THE  
FOLLOWING MENU WILL BE DISPLAYED:

VA	VB	PA	PT	VL
20	32	15	45	52
CC	HA	HB	VS	HS
22	28	39	47	28

TUBE10- TUBE MODE ABBREVIATIONS

VA- VERT AMPLITUDE /VB- VERT BREATHING

CORRECTION/PA- PARABOLA AMPLITUDE/

PT- PARABOLA TINT/VL- VERT LIN. /

CC- CORNER CORECTION/HA- HORIZONTAL

AMP/HB- HORIZONTAL BREATHING

CORRECTION/VS- VERT SHIFT/

HS- HORIZONTAL PHASE CONTROL.

Model: C2564TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: SET NEEDS ADJUSTMENT - MALADJUSTED  
PRESSING F BUTTON ON HANDSET ALTERNATE  
BETWEEN TUBE & USER MENU.

USER MODE ABBREVIATIONS:

BI - BLUE RELATIVE INTENSITY/GI - GREEN

RELATIVE INTENSITY/RI - RED RELATIVE

INTENSITY/CN- CONTRAST/BR- BRIGHTNESS/

CL- COLOUR/HU- HUE/PK- PEAKING/IS- SYSTEM

I DAC VALUE/A2- NOT USED

3. BY PRESSING THE TEXT BUTTON ON  
HANDSET WHEN IN SERVICE MODE  
ADJUSTMENTS TO TEXT DISPLAY CAN BE  
PERFORMED.

4. GREEN BUTTONS ON HANDSET TEXT  
VERT SHIFT.

5. YELLOW BUTTONS ON HANDSET TEXT



HORIZONTAL SHIFT.

6. TO EXIT SERVICE MODE PRESS  
MEMORY BUTTON, THEN GO TO STANDBY.



Model: C2564TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: POOR GEOMETRY UPON SWITCH ON(1B185)

Symptom: PICTURE GEOMETRY INCORRECT  
WHEN FIRST SWITCHED ON.

Cause: MICRO NOT RESETING FULLY.

Cure: R1053 HAS BEEN ADDED FROM +12V  
SUPPLY TO PIN 1 OF IC1004. R1052 HAS  
BEEN ADDED FROM PIN 1 OF IC1004 TO  
GROUND. PIN 3 OF IC1004 GOES TO PIN 41  
OF IC1001.



Model: C2564TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: ON SCREEN DISPLAY JITTER (1B217)

Symptom: ON SCREEN DISPLAY JITTER

Cause: SYNC INSTABILITY

Cure: CHANGE C1062 TO 4n7 P/No C437877



Model: C2564TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: POSSIBLE CRT SPOT BURN (1B225)

REPLACE LINK J800 ON CRT BASE WITH  
1N4004 DIODE (PT. NO. T431040), WITH THE  
CATHODE CONNECTED TO THE CATHODE OF  
ZD800.

ADD C813A (PT. NO. E884110) IN PARALLEL  
WITH C813 ON THE CRT TUBE BASE. ADD THE  
PACK (PT. NO A520674) SPOT BURN PACK. FIT  
THIS TO THE SIGNAL/CONTROL PANEL AS  
FOLLOWS

USE INSULATION TAPE TO ENSURE THAT  
COMPONENTS DO NOT TOUCH THE PCB  
FIT THE PACK TO THE PRINT SIDE OF THE  
PCB

1. THE THREE DIODES SHOULD BE FITTED TO  
I) R527 AT THE JUNCTION WITH ZD504  
II) R528 AT THE JUNCTION WITH ZD505  
III) R529 AT THE JUNCTION WITH ZD503  
CONNECT THE FREE END OF THE RESISTOR  
TO R507 AT THE +5V END  
CONNECT THE FREE LEG OF THE TRANSISTOR  
TO THE GROUND END OF C508





COLOUR TV

**Subject:** SERVICE INFORMATION  
**Fault:** TECH INFO MANUAL ERROR ON PL1503  
**Symptom:** TECHNICAL INFORMATION BOOK  
 (PT NO X830798) ERROR  
**Cause:** PRINTING ERROR.  
**Cure:** PAGE 22 SHOULD SHOW PL1503 PIN  
 14 AS HORIZONTAL DRIVE, AND PL1503 PIN  
 19 AS VERTICLE POSITION.

COLOUR TV

**Subject:** SERVICE INFORMATION

**Fault:** 'FACTORY 05' ON SCREEN PERMANENT

**Symptom:** ON SCREEN DISPLAY SHOWS THE  
MESSAGE 'FACTORY 05' PERMANENTLY

**Cause:** SET IS IN FACTORY SET UP MODE

**Cure:** WITHDRAW THE BOTTOM FLAP ON THE  
REMOTE HANDSET. PRESS THE TWO VCR  
RECORD BUTTONS SIMULTANEOUSLY, THEN GO  
TO STANDBY BY HANDSET. SWITCH BACK ON  
AND THE OSD MESSAGE WILL BE REMOVED

COLOUR TV

**Subject: SERVICE INFORMATION**

**Fault: CAUTION WHEN CHANGING SIGNAL PANEL**  
**WHEN CHANGING THE SIGNAL AND CONTROL**  
**PCB YOU MUST CHECK FOR PLUG PL101. IF**  
**THIS PLUG IS FITTED THEN YOU MUST BE**  
**SURE THAT THE SPEAKER CROSSOVER PCB IS**  
**THE ACTIVE TYPE (3D AMP). IF THIS IS**  
**NOT DONE C105 WILL BE DAMAGED.**  
**PLUG PL101 IS LOCATED NEXT TO THE**  
**AUDIO HEATSINK AND C105.**  
**3D AMP PCB PART NO. A521770**

COLOUR TV

**Subject:** SERVICE INFORMATION

**Fault:** PROBLEMS WITH REPLACEMENT CHASSIS.

**Symptom:** PROBLEMS WHEN REPLACING  
SIGNAL PCB WITH PT. NO. A530450.

**Cause:** REPLACEMENT PCB IS LATER  
VERSION (AS USED IN THE TNZ CHASSIS).

**Cure:** CARRY OUT THE FOLLOWING CHANGES:

1. CHANGE R515 TO 1K PT. NO. 0700041.
2. DELETE R551, 180R, FROM Q500 COLLECTOR  
TO CHASSIS ON PRINT SIDE. SEE NEXT PAGE

Model: C2564TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: PROBLEMS WITH REPLACEMENT CHASSIS.

3. FIT R513, 22K, PT. NO. 0700058, WHERE MARKED ON PCB.

4. FIT ZD317, 9V1, PT. NO. T536229, IN POSITION MARKED ON PCB.

5. FIT R366, 270R, 1W, PT. NO. R227542, IN PLACE OF LINK IN R366 POSITION ON PCB.

6. CUT PRINT AT PL1504 PIN9 AND LINK PRINT(NOT PIN) TO PL1504 PIN13, 12VOLTS.

SEE NEXT PAGE.

7. CHECK SPEAKER CROSSOVER PCB, UNDER RIGHT HAND SPEAKER, (FROM FRONT), IS ACTIVE TYPE, FITTED WITH IC190, TDA2009A IF NOT FIT ACTIVE TYPE. PT. NO. A521770. N. B. IF THIS IS NOT DONE, C105 WILL BE DAMAGED.

8. NOTE WIRE CONNECTIONS FROM NEW PCB AS FOLLOWS: -

SHORT, THICK BLUE/WHITE PAIR TO RH SPEAKER(FROM FRONT). SEE NEXT PAGE.

LONG. THICK RED/BLUE PAIR TO LH SPEAKER (FROM FRONT).

4WAY BRO/RED/OR/BLU CABLE TO SPEAKER PLUG, PL100, ON SIGNAL PCB, NOTING COLOUR CODING.

SINGLE THIN YELLOW WIRE TO PL101 ON SIGNAL PCB, (POLARISATION UNIMPORTANT).

8. ON THE NICAM PCB CONFIRM THAT THE GATE CCT. OF IC 4011 HAS C4050, 100NF CONNECTED TO CHASSIS. SEE NEXT PAGE.

CONFIRM ALSO THAT THE GATE CCT. OF IC4011 HAS A LINK TO PL4002 PIN7.

CONFIRM THAT R4050, D4001 AND A BLACK FLYING LEAD TO R1046(ON THE MAIN PCB) ARE REMOVED.

9. MAKE SPEAKER CONNECTION FROM REAR SPEAKER CONNECTOR, PINS 1 & 2, INTO PL191 ON THE SPEAKER CROSSOVER PCB.



Model: C2564TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: INCORRECT FITTING OF NEW CABINET.

Symptom: INCORRECT FITTING OF NEW CABINET. PT. NO. 779880.

Cause: POSSIBLE CABINET PROBLEM, OWING TO PLASTIC RIDGE NEXT TO CONTROL BUTTON HOLES.

Cure: TRIM PLASTIC RIDGE.





- 2) PRESS THE STORE BUTTON ON THE HAND SET.
- 3) PUT THE T. V. INTO STANDBY FROM THE HANDSET.
- 4) SWITCH THE SET ON AGAIN. THE SET WILL NOW ENTER THE AUTO TUNE MENU, AND MAY BE TUNED IN AS REQUIRED.



**Model: C2565TN**                      **Colour tv**

**Subject:** TUNING SELECTION  
**Fault:** 'NO MODEL SET UP' CANNOT BE REMOVED  
**Symptom:** O. S. D. PROMPT 'NO MODEL SET UP' CANNOT BE REMOVED USING NORMAL METHOD.  
**Cause:** DRY JOINT.  
**Cure:** CHECK FOR DRY JOINT ON CRYSTAL X001 ON PINS 31 & 32 OF IC001.



**Model: C2565TN**                      **Colour tv**

**Subject:** TUNING SELECTION  
**Fault:** STUCK IN STANDBY  
**Symptom:** SET GETS STUCK IN STANDBY MODE.  
**Cause:** FAULTY I. R. RECEIVER  
**Cure:** CHECK INPUT TO PIN 17 OF IC001. IF NO GO REPLACE IR RECEIVER. U001  
PART NUMBER: T549010



**Model: C2565TN**                      **Colour tv**

**Subject:** TUNING SELECTION  
**Fault:** INTERMITTENT LOCKOUT OF MICRO. IC001  
SECTION: SYS TUNING AND CONTROL  
CONDITION: 2  
**Symptom:** 15X INTERMITTENT LOCKOUT OF FUNCTION BUTTONS AND R/C.  
DEFECT: W X2201 DRY JOINT  
REPAIR: D RESOLDER DRY JOINTS ON X2201 IN TELETEXT DECODER.



**Model: C2565TN**                      **Colour tv**

**Subject:** TUNER/IF  
**Fault:** LOCK OUT/BLANK SCREEN ON UHF CH26  
**Symptom:** WHEN TUNED TO UHF CHANNEL 26 ONLY A BLANK SCREEN IS OBTAINED.  
**Cause:** TUNER LOCKS UP.  
**Cure:** REPLACE TUNER UNIT E710029







Model : C2565TN      Col our tv

**Subject:** TUNER/IF  
**Fault:** PICTURE FLICKER - BLACK LINES  
**Symptom:** FLICKERING BLACK LINES CAN BE SEEN ACROSS THE PICTURE.  
**Cause:** INTERMITTANT TUNER UNIT  
**Cure:** REPLACE TUNER UNIT PT/No E710029

Model : C2565TN      Col our tv

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** LOW CONTRAST- POSSIBLE TRIPPING.  
**Symptom:** LOW CONTRAST. POSSIBLE  
 TRIPPING. CHANGES WITH PICTURE CONTENT.  
**Cause:** FAULTY RESISTOR.  
**Cure:** CHECK/REPLACE R728, 68K, 0. 25W.  
 PT. NO. R648330.

Model : C2565TN                      Colour tv

**Subject: AUDIO**  
**Fault: VOLUME TOO HIGH AT MINIMUM SETTING**  
**Symptom: CUSTOMER COMPLAINS THAT THE**  
**VOLUME IS TOO HIGH AT MINIMUM VOLUME**  
**SETTING (NOT MUTE)**  
**Cure: VOLUME LEVELS CAN BE REDUCED BY**  
**CHANGING THE FOLLOWING**

R1325	FROM 5K6	TO 2K7	PT/NO	0700046
R1320	FROM 68K	TO 47K	PT/NO	0700063
R1324	FROM 5K6	TO 2K7	PT/NO	0700046
R1321	FROM 68K	TO 47K	PT/NO	0700063

Model : C2565TN                      Colour tv

**Subject:** AUDIO  
**Fault:** SET STUCK IN STANDBY  
**Symptom:** SET STUCK IN STANDBY.  
**Cause:** SOUND OUTPUT IC SHORT CIRCUIT  
**Cure:** DISCONNECT PIN 9 OF IC4451 TO  
SHOW THAT SET COMES ON. CHANGE IC4451  
TYPE TDA7283M PART NO 2020012

Model : C2565TN      Colour tv

**Subject:** AUDIO  
**Fault:** NO NICAM SOUND  
**Symptom:** NO NICAM SOUND, SET STUCK IN MONO.  
**Cause:** FAULTY MICRO PROCESSOR.  
**Cure:** CHECK PINS 19 & 20 OF IC001. THEY SHOULD READ 3.8V MONO AND 0.1V NICAM. IF STUCK AT 6-7V PERMANENTLY CHANGE

Model: C2565TN Colour tv

Subject: AUDIO

Fault: DISTORTED / LOW SOUND. ALL CHANNELS.

Symptom: DISTORTED / LOW SOUND ALL CHANNELS.

Cause: FAULTY TRANSISTOR.

Cure: CHECK/REPLACE Q443. TYPE BC558B.  
PT. NO. T631276. CAUSING PARTIAL MUTE.

Model: C2565TN Colour tv

Subject: AUDIO

Fault: DISTORTED AND/OR LOW AUDIO.

Symptom: DISTORTED AND/OR LOW AUDIO.

Cause: FAULTY TRANSISTOR.

Cure: CHECK/REPLACE Q443.  
PT. NO. T631276.

Model: C2565TN Colour tv

Subject: VERTICAL STAGE

Fault: LOW HEIGHT.

Symptom: LOW HEIGHT.

Cause: FAULTY CAPACITOR.

Cure: CHECK/REPLACE C701, 100MF, 200V.  
PT. NO. 0253491.

Model: C2565TN Colour tv

Subject: HORIZONTAL STAGE

Fault: LACK OF WIDTH ON SWITCH ON

Symptom: LACK OF WIDTH WHEN SWITCHED  
ON FROM COLD

Cause: CAPACITORS CHANGE VALUE

Cure: CHECK / REPLACE C758 100uF 31.5V  
PART NO 0800052 AND C753 10uF 50V  
PART NO J0800018R

Model: C2565TN Colour tv

Subject: HORIZONTAL STAGE

Fault: DEAD SET, D706 FAILS REGULARLY.

Symptom: SET DEAD, D706 FAILS SHORTLY  
AFTER REPLACEMENT.

Cause: DRY JOINTS

Cure: RESOLDER DRY JOINTS ON EDGE  
CONNECTORS E180, 181 BETWEEN SIGNAL AND  
POWER PCB. RESOLDER D/J ON R610. CHECK  
THOROUGHLY AROUND THE FRAME IC. IC601



AND CLOSE PROXIMITY COMPONENTS FOR D/J

Model: C2565TN

Colour tv

Subject: HORIZONTAL STAGE  
Fault: E/W CIRCUIT FAILED.  
Symptom: E/W CIRCUIT FAILED, CONTROL  
ACTS MORE LIKE WIDTH CONTROL.  
Cause: LEAKY TRANSISTORS.  
Cure: CHECK/REPLACE Q601 PT. NO. T631288  
AND Q603 PT. NO. T631275.  
ALSO CHECK FOR DRY JOINTS IN FRAME  
STAGE.

Model: C2565TN

Colour tv

Subject: TELETEXT  
Fault: TELETEXT BECOMES MISPOSITIONED  
Symptom: TELETEXT IS MISPOSITIONED  
I. E. MOVED OVER TO ONE SIDE OR UP INTO  
ONE CORNER OF SCREEN.  
Cause: MEMORY FAILURE  
Cure: REPLACE MICRO-PROCESSOR I. C. 001  
AND MEMORY I. C. 002 WITH KIT :  
PART NUMBER- A523817

Model: C2565TN

Colour tv

Subject: TELETEXT  
Fault: NOT STORING SUB PAGE ON CNN ON SKY.  
Symptom: NOT STORING SUB PAGE ON CNN  
FROM SKY SATELLITE  
Cause: PRINTING ERROR.  
Cure: 30 SECONDS SHOULD BE ALLOWED  
AFTER ENTERING SUB PAGES BEFORE  
ACCESSING BY USING THE SUB PAGE ACCESS  
BUTTON.

Model: C2565TN

Colour tv

Subject: SERVICE INFORMATION  
Fault: "NO MODEL SET UP" AFTER IC001 CHANGE  
Symptom: "NO MODEL SET UP" O. S. D. IS  
DISPLAYED FOLLOWING REPLACEMENT OF  
I. C. 001.  
Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
Cure: TO EXIT THE SET UP MODE YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET.  
..... (CONT)

Model: C2565TN

Colour tv

Subject: SERVICE INFORMATION

Fault: "NO MODEL SET UP" AFTER IC001 CHANGE  
1) PULL DOWN THE FLAP ON THE HANDSET  
TO REVEAL THE VCR CONTROLS. PRESS THE  
TWO VCR RECORD BUTTONS SIMULTANEOUSLY.  
THE ON SCREEN MENU WILL CHANGE  
VERSION 1D (CANNOT BE ALTERED)  
STANDARD I (IF NOT I PRESS BUTTON 9)  
DEFAULT 0 (DO NOT ALTER)  
AFC HIGH (CANNOT BE ALTERED)  
2) PRESS THE STORE BUTTON ON THE HAND  
SET.  
3) PUT THE T.V. INTO STANDBY FROM THE  
HANDSET.  
4) SWITCH THE SET ON AGAIN. THE SET  
WILL NOW ENTER THE AUTO TUNE MENU, AND  
MAY BE TUNED IN AS REQUIRED.



Model: C2565TN

Colour tv

Subject: SERVICE INFORMATION

Fault: LINE O/P TRANSFORMER DRAWING WRONG.

Symptom: LINE OUTPUT TRANSFORMER  
DRAWING IN SERVICE MANUAL INCORRECT.

Cause: PRINTING ERROR.

Cure: WINDING FROM PIN 1 SHOULD BE  
CONNECTED TO PIN 2. DELETE CONNECTION  
TO PIN 9.



Model: C2566TN

59cm Ni cam (Exclusive) see2546

Subject: POWER SUPPLY

Fault: INTERMITTANT GOES TO STANDBY

Symptom: SET INTERMITTANTLY REVERTS TO  
'STANDBY' OR CUTS OUT.

Cause: DRY JOINTS

Cure: CHECK IC951 AND IC952 FOR DRY  
JOINTS AND RESOLDER AS NECESSARY.



Model: C2566TN

59cm Ni cam (Exclusive) see2546

Subject: POWER SUPPLY

Fault: LOSS OF COLOUR & INTERMITTENT TRIP.

Symptom: LOSS OF COLOUR & INTERMITTENT  
TRIP.

Cause: ZENER DIODE.

REPLACE ZD002. 5.1v ZENER.  
PART NO. T536174





Model: C2566TN      59cm Ni cam (Exclusive) see2546

**Subject:** POWER SUPPLY  
**Fault:** STUCK IN STANDBY.  
**Symptom:** STUCK IN STANDBY.  
**Cause:** DRY JOINTS ON IC 952.  
**Cure:** CHECK/RE-SOLDER JOINTS ON IC952.  
SEE ALSO FAULT NUMBER 497.

Model : C2566TN      59cm Ni cam (Exclusive) see2546

**Subject:** TUNING SELECTION

**Fault:** CHANNEL IDENT APPEARS IN VCR PLAY

**Symptom:** WHEN PLAYING BACK RECORDINGS  
OF OFF AIR PROGRAMMES, THE CHANNEL  
IDENT APPEARS INTERMITTANTLY.

**Cause:** PACKET 830 IDENTIFICATION BY  
MICRO PROCESSOR.

**Cure:** CHANGE I. C. 001 PT. No T900644.  
N. B. . VCR PLAYBACK MUST BE VIA SCART TO  
PREVENT RE-OCCURENCE OF SYMPTOMS.

Model: C2566TN 59cm Ni cam (Exclusive) see2546

**Subject:** TUNING SELECTION  
**Fault:** NO ON SCREEN GRAPHICS.  
**Symptom:** NO ON SCREEN GRAPHICS, BUT  
 FUNCTIONS STILL OPERATE. I. E. VOL. ETC.  
**Cause:** HORIZONTAL PULSE MISSING FROM  
 IC001 PIN26.  
**Cure:** CHECK/REPLACE ZD002, PT. NO.  
 T536174.

Model: C2566TN      59cm Ni cam (Exclusive) see2546

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** APPEARANCE OF NICAM INDICATOR  
**Symptom:** ERRATIC APPEARANCE OF THE  
 NICAM SYMBOLS USUALLY UPON SCENE  
 CHANGES FROM LIGHT TO DARK.  
**Cause:** SHORT CIRCUIT ON NICAM I. C.  
**Cure:** CHECK FOR SHORT CIRCUIT OF PINS  
 24 & 25 OF I. C. 4201. IF S/C EXISTS  
 REMOVE.

Model: C2566TN      59cm Ni cam (Exclusive) see2546

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** DIAGONAL PATTERNING ON LOW SIGNAL  
**Symptom:** DIAGONAL COLOURED LINES IN  
 LOW SIGNAL CONDITIONS.  
**Cause:** NICAM INTERFERENCE  
**Cure:** REPLACE FERRITE BEADS FB005. 6. 7

# HITACHI

& 8 WITH 10uH COIL PART No J2122239.  
MOVE THE POSITION OF C4235 TO THE I. C.  
SIDE OF FB005 SO THE IT IS NOW AT THE  
JUNCTION OF FB005 AND PIN 3 OF IC4201

Model: C2566TN 59cm Ni cam (Exclusive) see2546

Subject: Y/C SIGNAL PROCESSING  
Fault: LOSS OF COLOUR & INTERMITTENT TRIP.  
Symptom: LOSS OF COLOUR & INTERMITTENT  
TRIP.  
Cause: ZENER DIODE.  
REPLACE ZD002. 5.1v ZENER.  
PART NO. T536174

Model: C2566TN 59cm Ni cam (Exclusive) see2546

Subject: Y/C SIGNAL PROCESSING  
Fault: NO BLUE SIGNAL.  
Symptom: NO BLUE SIGNAL.  
Cause: OPEN CIRCUIT CAPACITOR.  
Cure: CHECK/REPLACE C516.  
PT. NO. 0880057R.

Model: C2566TN 59cm Ni cam (Exclusive) see2546

Subject: AUDIO  
Fault: APPEARANCE OF NICAM INDICATOR  
Symptom: ERRATIC APPEARANCE OF THE  
NICAM SYMBOLS USUALLY UPON SCENE  
CHANGES FROM LIGHT TO DARK.  
Cause: SHORT CIRCUIT ON NICAM I. C.  
Cure: CHECK FOR SHORT CIRCUIT OF PINS  
24 & 25 OF I. C. 4201. IF S/C EXISTS  
REMOVE.

Model: C2566TN 59cm Ni cam (Exclusive) see2546

Subject: AUDIO  
Fault: RANDOM APPEARANCE OF NICAM SYMBOLS  
Symptom: RANDOM APPEARANCE OF NICAM  
SYMBOLS. ALSO SOUND "POPPING".  
Cause: DRY JOINTS ON IC951 & IC952.  
Cure: RE-MAKE JOINTS ON IC951 & IC952.  
SEE ALSO FAULT NO. 515.

Model: C2566TN 59cm Ni cam (Exclusive) see2546

Subject: AUDIO  
Fault: NO AUDIO, NICAM OR FM  
Symptom: NO AUDIO, NICAM OR FM  
FM AUDIO GOING INTO IC4201 PIN 7.

Cause: FAULTY MEMORY I.C.  
Cure: CHANGE IC 002. PT. NO. E730045.

Model: C2566TN 59cm Ni cam (Exclusive) see2546

Subject: VERTICAL STAGE  
Fault: FLYBACK LINES AT TOP OF PICTURE  
Symptom: FLYBACK LINES VISIBLE AT THE  
TOP OF THE PICTURE.  
Cause: FAULTY FRAME I. C.  
Cure: REPLACE FRAME IC601 TYPE TA8427K  
PART NUMBER J2003951

Model: C2566TN 59cm Ni cam (Exclusive) see2546

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF CPT SOCKET  
Symptom: CHANGE OF TUBE SOCKET  
Cause: ORIGINAL PART DISCONTINUED  
Cure: NEW PART NUMBER FOR TUBE SOCKET  
IS E822925

Model: C2566TN 59cm Ni cam (Exclusive) see2546

Subject: SERVICE INFORMATION  
Fault: NO TUNING/ MAX. AUDIO NOT POSSIBLE.  
Symptom: NO TUNING, MAX. AUDIO NOT  
POSSIBLE.  
Cause: TV IN PSEUDO HOTEL MODE.  
Cure: PRESS/HOLD VOL+/- ON TV FRONT AND  
SWITCH SET ON AT FRONT. PRESS 2 VCR REC  
BUTTONS ON REMOTE. CHECK FOR "H" AT LOWER  
RIGHT OF MENU. IF PRESENT, DELETE USING  
-/- - BUTTON. THEN GO TO STANDBY.

Model: C2567TN 59cm Ni cam (DSG exclusive)

Subject: Y/C SIGNAL PROCESSING  
Fault: SPOT BURN-IMPROVEMENT  
SECTION: APR LUMINANCE PROCESSING  
CONDITION: 1  
Symptom: 385 IMPROVEMENT OF SPOT BURN  
DEFECT: Y  
REPAIR: A TO IMPROVE SPOT BURN, R593  
IS CHANGED FROM 10K TO 22K

Model: C2567TN 59cm Ni cam (DSG exclusive)

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER , T901  
SECTION: PSU  
CONDITION: 1

Symptom: 185 T901 PT# CHANGED  
DEFECT: A  
REPAIR: A NEW PART # FOR T901 IS  
L380119

Model: C2567TN 59cm Nicam (DSG exclusive)

Subject: TUNER/IF/VIDEO  
Fault: CHANGE OF COMPOSITE VIDEO LEVEL  
SECTION: IFC  
CONDITION: 1  
Symptom: 185 CHANGE OF COMP. VIDEO LEVEL  
DEFECT: Y  
REPAIR: A CHANGE R505 FROM 270R TO  
220R. PART # J0700032M

Model: C2568TN COLOUR TV

Subject: POWER SUPPLY  
Fault: INT SWITCHES ON FROM STANDBY  
Symptom: SET COMES OUT OF STAND BY OF  
ITS OWN ACCORD  
Cause: INTERFERENCE ON PROCESSOR DATA  
LINES  
Cure: REPLACE IC1501 PT NO T900553  
(THIS NEW IC DOES NOT INCLUDE THE  
TIMER FUNCTION)

Model: C2568TN COLOUR TV

Subject: POWER SUPPLY  
Fault: PULSATING POWER SUPPLY.  
Symptom: SET DEAD, POWER SUPPLY PULSES  
APPEARING TO TRY TO START UP.  
Cause: OPEN CIRCUIT RESISTOR.  
Cure: CHECK / REPLACE R944 47K 1W  
PART NUMBER R447542

Model: C2568TN COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY TRIPPING.  
Symptom: POWER SUPPLY TRIPPING.  
Cause: FAULTY REGULATOR, LOADING SUPPLY  
Cure: CHECK/REPLACE IC932.  
PT. NO. T900326.

Model: C2568TN COLOUR TV

Subject: TUNER/IF  
Fault: PATTERNING AFTER TUNER REPLACEMENT  
SECTION: TUN





**CONDITION:** 1  
**Symptom:** 345 LINES ON PICTURE  
**DEFECT:** Y  
**REPAIR:** A REPLACE WIRE LINK IN VT  
 LINE TO TUNER WITH A 47K RESISTOR

COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** PATTERNING VISIBLE ON DARK SCENES  
**Symptom:** WAVY PATTERNING LINES, SEEN  
IN THE BACKGROUND ON DARK SCENE OR IF  
AV MODE IS SELECTED WITH NO INPUT.  
**Cause:** POOR CAPACITANCE AND/OR LINE  
RADIATION.  
**Cure:** CHECK/ REPLACE Q701, Q702, T702  
C931, 932, 933, 934, 935, 936, 720 AND R937

COLOUR TV

**Subject: AUDIO**  
**Fault: ONE OR BOTH CHANNELS NOT WORKING**  
**CHECK IC451. CHANGE IF NECESSARY.**  
**CHECK THAT AN 8K2 RESISTOR IS ADDED IN**  
**SERIES WITH BOTH C4055 AND C4056 ON**  
**NICAM PWB ASSEMBLY.**  
**THESE RESISTORS HAVE BEEN ADDED IN**  
**PRODUCTION AFTER SERIAL NO U1J.....**

COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** FRAME TWITCHING.  
**Symptom:** FRAME TWITCHING.  
**Cause:** DRY JOINT.  
**Cure:** CHECK/RE-MAKE DRY JOINT AT C604.

COLOUR TV

Subject: SERVICE INFORMATION

Fault: SERVICE MANUAL ERRORS

SERVICE MANUAL X830731 PAGE 5 SHOWS  
IF BOARD AND IC301 CONNECTIONS GOING  
TO SCART 1 IN TWO PLACES (TOP LEFT AND  
TOP RIGHT OF CIRCUIT). THESE  
CONNECTIONS SHOULD GO TO PL302 AS  
FOLLOWS: -

IF BOARD A1L TO PL302 PINS 17 & 4  
A1R TO PL302 PIN 2  
A0L TO PL302 PIN 18, A0R1 TO  
PL302 PIN3, VIDEO OUT TO PL302 PIN 6  
IC301 PIN 1 TO PL302 PIN 7 (VIDEO IN)  
PIN 9 TO PL302 PIN 9 (FAST

BLANKING)  
PIN 16 TO PL302 PIN 10 (RED), PIN 2 TO  
PL302 PIN 13 (GREEN), PIN 8 TO PL302  
PIN15 (BLUE).  
PL302 PIN 16 TO D304 ANODE

Model: C2574TN

COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT GOES TO STANDBY  
Symptom: INTERMITTANTLY GOES TO STAND  
BY, POSSIBLY ONLY WITH VCR PLAYBACK.  
Cause: HT IS TOO HIGH  
Cure: CHECK / REPLACE R952 68K. RESET  
HT LEVEL 146V +/- 0.2V ON POSITIVE LEG  
OF C701. THIS SETTING IS CRITICAL AND  
ONLY SETTING WITH A DIGITAL METER IS  
SUITABLE.

Model: C2574TN

COLOUR TV

Subject: POWER SUPPLY  
Fault: SET STUCK IN STANDBY  
Symptom: SET STUCK IN STANDBY.  
Cause: SOUND OUTPUT IC SHORT CIRCUIT  
Cure: DISCONNECT PIN 9 OF IC4451 TO  
SHOW THAT SET COMES ON. CHANGE IC4451  
TYPE TDA7283M PART NO 2020012

Model: C2574TN

COLOUR TV

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY  
Symptom: SET GETS STUCK IN STANDBY  
MODE.  
Cause: FAULTY I. R. RECEIVER  
Cure: CHECK INPUT TO PIN 17 OF IC001.  
IF NO GO REPLACE IR RECEIVER. U001  
PART NUMBER: T549010

Model: C2574TN

COLOUR TV

Subject: TUNING SELECTION  
Fault: "NO MODEL SET UP"  
Symptom: WHEN SWITCHED ON THE O. S. D.  
SHOWS THE PROMPT "NO MODEL SET UP"  
Cause: THE SET IS IN FACTORY SET UP  
MODE.  
Cure: USING THE REMOTE HANDSET, PRESS  
THE TWO VCR RECORD BUTTONS TOGETHER.  
PRESS THE STORE BUTTON, THEN GO TO  
STANDBY.

Model: C2574TN

COLOUR TV

Subject: TUNING SELECTION

Fault: "CL. . . . 74TAN-351" OSD PROMPT

Symptom: AFTER REPLACING MICRO PROCESS

I. C. 001 THE OSD PROMPT "CL. . 74TAN-351"  
APPEARS AND THE SET CANNOT BE TUNED IN

Cause: SET IS IN SET UP MODE.

Cure: USING REM/CONTROL FIRST PRESS THE  
TWO VCR RECORD BUTTONS, THEN PRESS THE  
MEMORY BUTTON, AND FINALLY GO TO STAND  
BY. SWITCH ON AGAIN AND TUNE IN.

Model: C2574TN

COLOUR TV

Subject: TUNING SELECTION

Fault: "NO MODEL SET UP" AFTER IC001 CHANGE

Symptom: "NO MODEL SET UP" O. S. D. IS  
DISPLAYED FOLLOWING REPLACEMENT OF  
I. C. 001.

Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.

Cure: TO EXIT THE SET UP MODE YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET.

..... (CONT)

- 1) PULL DOWN THE FLAP ON THE HANDSET  
TO REVEAL THE VCR CONTROLS. PRESS THE  
TWO VCR RECORD BUTTONS SIMULTANEOUSLY.  
THE ON SCREEN MENU WILL CHANGE  
VERSION 1D (CANNOT BE ALTERED)  
STANDARD I (IF NOT I PRESS BUTTON 9)  
DFAULT 0 (DO NOT ALTER)  
AFC HIGH (CANNOT BE ALTERED)
- 2) PRESS THE STORE BUTTON ON THE HAND  
SET.
- 3) PUT THE T. V. INTO STANDBY FROM THE  
HANDSET.
- 4) SWITCH THE SET ON AGAIN. THE SET  
WILL NOW ENTER THE AUTO TUNE MENU, AND  
MAY BE TUNED IN AS REQUIRED.

Model: C2574TN

COLOUR TV

Subject: TUNING SELECTION

Fault: SET LOCKS UP, NO FUNCTIONS OPERATE

Symptom: THE SET LOCKS UP, NO REMOTE  
OPERATION OR OTHER FUNCTIONS. SWITCH  
OFF THE SET TO RELEASE.

Cause: CORRUPTION TO DATA LINES.

Cure: CHECK / REPLACE IC4604 TDA9860  
PART NUMBER J2020002.



COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** CHANGE OF MICRO-PROCESSOR

**Symptom:** I. C. 001 MICRO PROCESSOR HAS BEEN CHANGED.

**Cause:** PRODUCTION CHANGES.

**Cure:** WHEN REPLACING I. C. 001 ORDER KIT PART NUMBER A523817. THIS WILL INCLUDE I. C. 001 AND I. C. 002, THESE SHOULD BE FITTED AS A PAIR TO ENSURE COORECT OPERATION.



COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** ' NO MODEL SET UP' CANNOT BE REMOVED  
**Symptom:** O. S. D. PROMPT ' NO MODEL SET  
UP' CANNOT BE REMOVED USING NORMAL  
METHOD.  
**Cause:** DRY JOINT.  
**Cure:** CHECK FOR DRY JOINT ON CRYSTAL  
X001 ON PINS 31 &32 OF IC001.



COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** SPEAKER LEVELS NOT MEMORISED  
**Symptom:** SPEAKER LEVELS NOT MEMORISED.  
**Cause:** FAULTY MICROPROCESSOR.  
**Cure:** REPLACE IC001 & IC002 WITH KIT  
PT. NO. A523817.



COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** STUCK IN STANDBY  
**Symptom:** SET GETS STUCK IN STANDBY  
MODE.  
**Cause:** FAULTY I. R. RECEIVER  
**Cure:** CHECK INPUT TO PIN 17 OF IC001.  
IF NO GO REPLACE IR RECEIVER. U001  
**PART NUMBER:** T549010



COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** INTERMITTENT LOCKOUT OF MICRO. IC001  
**SECTION:** SYS TUNING AND CONTROL  
**CONDITION:** 2  
**Symptom:** 15X INTERMITTENT LOCKOUT OF  
FUNCTION BUTTONS AND R/C.  
**DEFECT:** W X2201 DRY JOINT



REPAIR: D RESOLDER DRY JOINTS ON X2201  
IN TELETEXT DECODER.

Model: C2574TN COLOUR TV

Subject: TUNER/IF  
Fault: LOCK OUT/BLANK SCREEN ON UHF CH26  
Symptom: WHEN TUNED TO UHF CHANNEL 26  
ONLY A BLANK SCREEN IS OBTAINED.  
Cause: TUNER LOCKS UP.  
Cure: REPLACE TUNER UNIT E710029

Model: C2574TN COLOUR TV

Subject: TUNER/IF  
Fault: NO SOUND OR PICTURE-BLANK RASTER  
Symptom: NO SOUND OR PICTURE, JUST A  
BLANK RASTER.  
Cause: FAULTY TUNER  
Cure: FIT NEW TUNER UNIT PT/No E710029

Model: C2574TN COLOUR TV

Subject: TUNER/IF  
Fault: PICTURE FLICKER - BLACK LINES  
Symptom: FLICKERING BLACK LINES CAN BE  
SEEN ACROSS THE PICTURE.  
Cause: INTERMITTANT TUNER UNIT  
Cure: REPLACE TUNER UNIT PT/No E710029

Model: C2574TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: "NO MODEL SET UP"  
Symptom: WHEN SWITCHED ON THE O. S. D.  
SHOWS THE PROMPT "NO MODEL SET UP"  
Cause: THE SET IS IN FACTORY SET UP  
MODE.  
Cure: USING THE REMOTE HANDSET, PRESS  
THE TWO VCR RECORD BUTTONS TOGETHER.  
PRESS THE STORE BUTTON, THEN GO TO  
STANDBY.

Model: C2574TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: VERTICLE GREEN LINES ON SCREEN  
Symptom: ON DARK SCENES A FAINT GREEN  
BAR MAY BE SEEN ON THE PICTURE.  
Cause: CHROMA LEVELS TOO HIGH.  
Cure: ADJUST VR501 TO REMOVE THE BAR,  
TAKE CARE NOT TO REDUCE TOO FAR.



IF THIS DOES NOT CURE. REPLACE DELAY  
LINE DL501 PT NO 2164051.

Model: C2574TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: COLOUR LOSS WITH PRE-REC TAPES

Symptom: COLOUR LOSS WHEN VIEWING

PRE-RECORDED VIDEO TAPES

Cause: MACRO PROTECTION DIFFICULTIES

Cure: CHANGE R515 FROM 47K TO 150K

CHANGE R516 FROM 47K TO 180K

CHANGE R563 FROM 10K TO 56K

CHANGE C525 FROM 47NF TO 10NF

CHANGE C526 FROM 33NF TO 1NF

Model: C2574TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: COLOUR LOSS WITH PRE-REC TAPES

THIS MODIFICATION HAS BEEN CARRIED OUT

IN PRODUCTION FROM SERIAL NUMBERS

STARTING U4F.....

Model: C2574TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: "CL. . . . 74TAN-351" OSD PROMPT

Symptom: AFTER REPLACING MICRO PROCESS

I. C. 001 THE OSD PROMPT "CL. . 74TAN-351"

APPEARS AND THE SET CANNOT BE TUNED IN

Cause: SET IS IN SET UP MODE.

Cure: USING REM/CONTROL FIRST PRESS THE

TWO VCR RECORD BUTTONS, THEN PRESS THE

MEMORY BUTTON, AND FINALLY GO TO STAND

BY. SWITCH ON AGAIN AND TUNE IN.

Model: C2574TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: HORIZONTAL BLACK LINES ON PICTURE.

Symptom: HORIZONTAL BLACK LINES ON  
PICTURE.

Cause: FAULTY CAPACITOR.

Cure: REPLACE C103. 10NFD. AGC LINE.

PART NO. 0800015.

Model: C2574TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: LOW CONTRAST-POSSIBLE TRIPPING.

Symptom: LOW CONTRAST. POSSIBLE

TRIPPING. CHANGES WITH PICTURE CONTENT.  
Cause: FAULTY RESISTOR.  
Cure: CHECK/REPLACE R728, 68K, 0. 25W.  
PT. NO. R648330.

## Model: C2574TN COLOUR TV

Subject: AUDIO  
Fault: NO AUDIO FROM REAR SPEAKERS  
Symptom: NO AUDIO FROM REAR SPEAKERS  
WHEN A KNOWN DOLBY SOURCE IS PLAYED IN  
VCR.  
Cause: VCR INCORRECTLY SET  
Cure: BY USING THE CH1/CH2 BUTTON ON  
THE VCR HANDSET ENSURE THAT BOTH AUDIO  
CHANNELS ARE SWITCHED ON ON THE VCR. IF  
ONE IS OFF REAR SPKRS WILL NOT WORK.  
STEREO SIGNAL IS NOT AVAILABLE

## Model: C2574TN COLOUR TV

Subject: AUDIO  
Fault: DOLBY PCB COMPATIBILITY  
WHEN REPLACING THE DOLBY PCB PART NO  
A530580 AND/OR THE AUDIO SUB PCB PART  
NO A530590 IT MAY BE NECESSARY TO  
REPLACE R4675 WITH PACK A523756 OR  
VICE VERSA REPLACE PACK WITH R4675  
PART NO 0700027 100R  
THE REPLACEMENT PCBS WILL CONTAIN ONE  
OR THE OTHER.

CONT. . . .

THE FOLLOWING TABLE SHOWS HOW THE PCBS  
MATCH UP BY ISSUE NO AND ANY MODS YOU  
MAY HAVE TO CARRY OUT.

MOD A = REPLACE PACK WITH R4675

MOD B = REPLACE R4675 WITH PACK

NUMBER UNDER PCBS ARE ISSUE NUMBERS

WHICH CAN BE FOUND ON THE PCBS

AUDIO SUB	DOLBY ASSY	MODIFY
PC382	PC376	DOLBY
PRE ISSUE 3	FROM ISSUE 4	A
FROM ISSUE 3	PRE ISSUE 4	B

## Model: C2574TN COLOUR TV

Subject: AUDIO  
Fault: VOLUME TOO HIGH AT MINIMUM SETTING  
Symptom: CUSTOMER COMPLAINS THAT THE  
VOLUME IS TOO HIGH AT MINIMUM VOLUME  
SETTING (NOT MUTE)  
Cure: VOLUME LEVELS CAN BE REDUCED BY  
CHANGING THE FOLLOWING

R1325 FROM 5K6 TO 2K7 PT/NO 0700046  
R1320 FROM 68K TO 47K PT/NO 0700063  
R1324 FROM 5K6 TO 2K7 PT/NO 0700046  
R1321 FROM 68K TO 47K PT/NO 0700063

Model: C2574TN COLOUR TV

Subject: AUDIO  
Fault: LOUD BUZZ ON LEFT AND RIGHT SPEAKER  
Symptom: A VERY LOUD BUZZ IS HEARD ON  
THE LEFT AND RIGHT SPEAKERS WHEN IN  
DOLBY, MATRIX & HALL MODES. THIS IS  
REMOVED WHEN IN OFF POSITION.  
Cause: DECODER FAULT  
Cure: REPLACE I. C. 4603 ON DOLBY PCB  
TYPE: KM4164D PART NUMBER T900573

Model: C2574TN COLOUR TV

Subject: AUDIO  
Fault: SET STUCK IN STANDBY  
Symptom: SET STUCK IN STANDBY.  
Cause: SOUND OUTPUT IC SHORT CIRCUIT  
Cure: DISCONNECT PIN 9 OF IC4451 TO  
SHOW THAT SET COMES ON. CHANGE IC4451  
TYPE TDA7283M PART NO 2020012

Model: C2574TN COLOUR TV

Subject: AUDIO  
Fault: NO NICAM SOUND  
Symptom: NO NICAM SOUND, SET STUCK IN  
MONO.  
Cause: FAULTY MICRO PROCESSOR.  
Cure: CHECK PINS 19 & 20 OF IC001. THEY  
SHOULD READ 3.8V MONO AND 0.1V NICAM  
IF STUCK AT 6-7V PERMANENTLY CHANGE  
CHANGE IC001 PT No A523817

Model: C2574TN COLOUR TV

Subject: AUDIO  
Fault: HISS ON SPEAKERS.  
Symptom: HISS ON SPEAKERS, BUT TV NOT IN  
SPEAKER SET UP MODE.  
Cause: NOISEY ZENER DIODE ZD4402.  
Cure: REPLACE ZD4402 TYPE BZX79C4V3  
P#T536213. ZD4402 IS LOCATED ON PIN 1  
OF IC4451 ON THE SIGNAL PCB.





Model : C2574TN                      COLOUR TV

**Subject:** AUDIO  
**Fault:** AUDIO FLUCTUATING.  
**Symptom:** AUDIO LEVEL FLUCTUATING AND  
SUB PSU FLUCTUATING.  
**Cause:** FAULTY IC.  
**Cure:** CHECK/REPLACE IC 4902.  
PT. NO. T900523.

Model : C2574TN COLOUR TV

**Subject:** AUDIO  
**Fault:** DISTORTED / LOW SOUND. ALL CHANNELS.  
**Symptom:** DISTORTED / LOW SOUND ALL CHANNELS.  
**Cause:** FAULTY TRANSISTOR.  
**Cure:** CHECK/REPLACE Q443. TYPE BC558B.  
 PT. NO. T631276. CAUSING PARTIAL MUTE.

Model: C2574TN COLOUR TV

**Subject: AUDIO**  
**Fault: DISTORTED AND/OR LOW AUDIO.**  
**Symptom: DISTORTED AND/OR LOW AUDIO.**  
**Cause: FAULTY TRANSISTOR.**  
**Cure: CHECK/REPLACE Q443.**  
**PT. NO. T631276.**

Model: C2574TN COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** PINCUSSION DISTORTION  
**SYMPTOM :** PINCUSSION DISTORTION  
**CAUSE :** POOR SOLDER CONNECTION  
**Cure:** RESOLDER DRY JOINTS ON C614

Model: C2574TN COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** LOW HEIGHT.  
**Symptom:** LOW HEIGHT.  
**Cause:** FAULTY CAPACITOR.  
**Cure:** CHECK/REPLACE C701, 100MF, 200V.  
PT. NO. 0253491.

Model: C2574TN COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** LACK OF WIDTH ON SWITCH ON  
**Symptom:** LACK OF WIDTH WHEN SWITCHED  
ON FROM COLD

Cause: CAPACITORS CHANGE VALUE  
Cure: CHECK / REPLACE C758 100uF 31.5V  
PART NO 0800052 AND C753 10uF 50V  
PART NO J0800018R

Model: C2574TN COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: DEAD SET, D706 FAILS REGULARLY.  
Symptom: SET DEAD, D706 FAILS SHORTLY  
AFTER REPLACEMENT.  
Cause: DRY JOINTS  
Cure: RESOLDER DRY JOINTS ON EDGE  
CONNECTORS E180, 181 BETWEEN SIGNAL AND  
POWER PCB. RESOLDER D/J ON R610. CHECK  
THOROUGHLY AROUND THE FRAME I.C. IC601  
AND CLOSE PROXIMITY COMPONENTS FOR D/J

Model: C2574TN COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: E/W CIRCUIT FAILED.  
Symptom: E/W CIRCUIT FAILED, CONTROL  
ACTS MORE LIKE WIDTH CONTROL.  
Cause: LEAKY TRANSISTORS.  
Cure: CHECK/REPLACE Q601 PT. NO. T631288  
AND Q603 PT. NO. T631275.  
ALSO CHECK FOR DRY JOINTS IN FRAME  
STAGE.

Model: C2574TN COLOUR TV

Subject: TELETEXT  
Fault: TELETEXT BECOMES MISPOSITIONED  
Symptom: TELETEXT IS MISPOSITIONED  
I. E. MOVED OVER TO ONE SIDE OR UP INTO  
ONE CORNER OF SCREEN.  
Cause: MEMORY FAILURE  
Cure: REPLACE MICRO-PROCESSOR I. C. 001  
AND MEMORY I. C. 002 WITH KIT :  
PART NUMBER- A523817

Model: C2574TN COLOUR TV

Subject: TELETEXT  
Fault: NOT STORING SUB PAGE ON CNN ON SKY.  
Symptom: NOT STORING SUB PAGE ON CNN  
FROM SKY SATELLITE  
Cause: PRINTING ERROR.  
Cure: 30 SECONDS SHOULD BE ALLOWED  
AFTER ENTERING SUB PAGES BEFORE  
ACCESSING BY USING THE SUB PAGE ACCESS  
BUTTON.

Model: C2574TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: DOLBY PCB COMPATIBILITY

WHEN REPLACING THE DOLBY PCB PART NO  
A530580 AND/OR THE AUDIO SUB PCB PART  
NO A530590 IT MAY BE NECESSARY TO  
REPLACE R4675 WITH PACK A523756 OR  
VICE VERSA REPLACE PACK WITH R4675  
PART NO 0700027 100R  
THE REPLACEMENT PCBS WILL CONTAIN ONE  
OR THE OTHER.

CONT. ....

Model: C2574TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: DOLBY PCB COMPATIBILITY

THE FOLLOWING TABLE SHOWS HOW THE PCBS  
MATCH UP BY ISSUE NO AND ANY MODS YOU  
MAY HAVE TO CARRY OUT.

MOD A = REPLACE PACK WITH R4675

MOD B = REPLACE R4675 WITH PACK

NUMBER UNDER PCBS ARE ISSUE NUMBERS

WHICH CAN BE FOUND ON THE PCBS

AUDIO SUB	DOLBY ASSY	MODIFY
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PC382

PC376

DOLBY

PRE ISSUE 3

FROM ISSUE 4

A

FROM ISSUE 3

PRE ISSUE 4

B

Model: C2574TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: "NO MODEL SET UP" AFTER IC001 CHANGE

Symptom: "NO MODEL SET UP" O. S. D. IS  
DISPLAYED FOLLOWING REPLACEMENT OF  
I. C. 001.

Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.

Cure: TO EXIT THE SET UP MODE YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET.

..... (CONT)

1) PULL DOWN THE FLAP ON THE HANDSET  
TO REVEAL THE VCR CONTROLS. PRESS THE  
TWO VCR RECORD BUTTONS SIMULTANEOUSLY.  
THE ON SCREEN MENU WILL CHANGE  
VERSION 1D (CANNOT BE ALTERED)  
STANDARD I (IF NOT I PRESS BUTTON 9)  
DEFAULT 0 (DO NOT ALTER)  
AFC HIGH (CANNOT BE ALTERED)



Model : C2574TN

COLOUR TV

**Subject: SERVICE INFORMATION**

Fault: "NO MODEL SET UP" AFTER IC001 CHANGE  
2) PRESS THE STORE BUTTON ON THE HAND SET.

3) PUT THE T. V. INTO STANDBY FROM THE HANDSET.

4) SWITCH THE SET ON AGAIN. THE SET WILL NOW ENTER THE AUTO TUNE MENU, AND MAY BE TUNED IN AS REQUIRED.

Model : C2574TN

COLOUR TV

**Subject: SERVICE INFORMATION**

**Fault: PART No IC320 CORRECTION TO S/MAN**

**Symptom:** THE PART NUMBER FOR I. C. 320  
IS INCORRECT IN THE SERVICE MANUAL.

**Cause:** PRINTING ERROR.

**Cure: THE CORRECT PART NUMBER FOR  
I. C. 320 TYPE No TDA8128 IS  
T900576**

Model : C2574TN

COLOUR TV

**Subject: SERVICE INFORMATION**

**Fault: LINE O/P TRANSFORMER DRAWING WRONG.**

**Symptom:** LINE OUTPUT TRANSFORMER  
DRAWING IN SERVICE MANUAL INCORRECT.

**Cause: PRINTING ERROR.**

**Cure: WINDING FROM PIN 1 SHOULD BE  
CONNECTED TO PIN 2. DELETE CONNECTION  
TO PIN 9.**

Model : C2574TN

COLOUR TV

**Subject: SERVICE INFORMATION**

**Fault: ZD4903/4/5/6, SERVICE MANUAL ERROR.**

**Symptom: ZENER DIODE INFORMATION IN  
MANUAL INCORRECT.**

**Cause: PRINTING ERROR.**

**Cure: ZD4903, ZD4904, ZD4905 & ZD4906  
ARE SHOWN AS BZX793V3. SHOULD BE  
BZX79C4V7.  
PT. NO. IS T536213.**

Model : C2574TN

COLOUR TV

**Subject: PART NUMBER CHANGES**

**Fault: CHANGE OF MICRO-PROCESSOR**

**Symptom: I. C. 001 MICRO PROCESSOR HAS  
BEEN CHANGED.**

**Cause: PRODUCTION CHANGES.**

# HITACHI

Cure: WHEN REPLACING I. C. 001 ORDER KIT  
PART NUMBER A523817. THIS WILL INCLUDE  
I. C. 001 AND I. C. 002, THESE SHOULD BE  
FITTED AS A PAIR TO ENSURE COORECT  
OPERATION.

Model: C2574TN COLOUR TV

Subject: PART NUMBER CHANGES  
Fault: PART No IC320 CORRECTION TO S/MAN  
Symptom: THE PART NUMBER FOR I. C. 320  
IS INCORRECT IN THE SERVICE MANUAL.  
Cause: PRINTING ERROR.  
Cure: THE CORRECT PART NUMBER FOR  
I. C. 320 TYPE No TDA8128 IS  
T900576

Model: C2575TN COLOUR TV

Subject: POWER SUPPLY  
Fault: DEAD OR INTERMITTANT DEAD  
REPLACE R919, R920, R931, R932, AND  
C912

Model: C2575TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: VERY DIM PICTURE  
Symptom: PICTURE IS VERY DARK, IMAGE  
BARELY VISIBLE.  
Cause: COMPONENTS GO LEAKY  
Cure: CHECK / REPLACE D808 IN4148 PART  
NUMBER T531053 AND C831 PART NUMBER  
0252945 47uF 16V

Model: C2576TN Colour tv

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY.  
Symptom: STUCK IN STANDBY.  
Cause: FAULTY ZENER DIODE.  
Cure: CHECK/REPLACE ZD958,  
PT. NO. T536235.

Model: C2576TN Colour tv

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY  
Symptom: STUCK IN STANDBY.  
Cause: FAULTY IC AND DIODES.  
Cure: CHECK/REPLACE IC601, PT. NO. T900642  
AND D718 AND D719, PT. NO. T431113.

Model: C2576TN

Colour tv

Subject: TUNING SELECTION

Fault: STUCK IN STANDBY

Symptom: SET STUCK IN STANDBY, WILL  
NOT COME ON FROM REMOTE CONTROL OR  
FRONT BUTTONS.

Cause: DRY JOINTS.

Cure: CHECK / RESOLDER DRY JOINTS ON  
C015 BETWEEN PIN 18 AND 15 OF IC001.  
ALSO CHECK FOR DRY JOINTS ON SHIELD  
PLATE OF IC201.

Model: C2576TN

Colour tv

Subject: TUNING SELECTION

Fault: PART NUMBER FOR I. C. 002

Symptom: THE PART NUMBER FOR I. C. 002  
GIVEN IN THE PRELIMINARY MANUAL IS  
INCORRECT.

Cause: PRINTING ERROR.

Cure: DELETE PART NUMBER T900668. THE  
CORRECT PART NUMBER FOR I. C. 002 IS  
SCANDINAVIA: E730160  
EUROPE & UK: E730138

Model: C2576TN

Colour tv

Subject: TUNING SELECTION

Fault: REMOTE CONTROL LOCK UP.

Symptom: REMOTE CONTROL LOCK UP.  
REMOVE BATTERIES AND SHORT CIRCUIT  
REMOTE CONTROL TERMINALS.

Cause: LOW OR POOR BATTERIES.

Cure: USE ALKALINE BATTERIES IN  
REMOTE CONTROL.

Model: C2576TN

Colour tv

Subject: TUNING SELECTION

Fault: 'C\*\*\*76TN-311' OSD APPEARS ON SCREEN

Symptom: THE OSD PROMPT 'C\*\*\*76TN-311'  
APPEARS ON SCREEN ON SWITCH ON

Cause: SET IS IN SERVICE MODE

Cure: PRESS THE ESC BUTTON UNDER THE  
BOTTOM FLAP OF THE REMOTE CONTROL. THEN  
GO TO STANDBY. WHEN THE SET IS BROUGHT  
OUT OF STANDBY THE PROMPT WILL HAVE  
BEEN REMOVED.

# HITACHI

Model : C2576TN

Col our tv

**Subject:** TUNING SELECTION  
**Fault:** LOCKS UP IN TEXT MODE & OSD CORRUPT  
**Symptom:** WHEN SWITCHING IN AND OUT OF  
TELETEXT MODE THE SET LOCKS UP. THE OSD  
CORRUPTS INTERMITTANT. CAN ONLY BE  
RESET BY SWITCH OFF AT MAINS SWITCH  
**Cause:** CORRUPTED MEMORY.  
**Cure:** REPLACE IC002 WITH NEW VERSION  
SCANDINAVIA: E730160  
EUROPEAN: E730138

Model : C2576TN

Col our tv

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** COLOUR CAST OVER WHOLE PICTURE.  
**Symptom:** COLOUR CAST OVER WHOLE PICTURE.  
**Cause:** FAULTY DIODES.  
**Cure:** CHECK/REPLACE D860, D861 AND D862 PT. NOS. J2348921M

Model : C2576TN

Colour tv

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** PHOSPHOR BURN ON CRT  
**Symptom:** PHOSPHOR BURN ON CRT.  
**Cause:** SPOT TOO BRIGHT  
**Cure:** CHANGE C880 FROM 10nF TO 1nfAND  
DELETE TRANSISTOR Q510. C880 PART NO.  
J0244211F

Model : C2576TN

Colour tv

**Subject:** HORIZONTAL STAGE  
**Fault:** STUCK IN STANDBY  
**Symptom:** SET STUCK IN STANDBY, WILL NOT COME ON FROM HANDSET OR FRONT PUSH BUTTONS.  
**Cause:** SCREEN VOLTS TOO HIGH.  
**Cure:** REDUCE SCREEN VOLTS USING CONTROL ON LOPTX. ONCE SET COMES ON RESET TO CORRECT LEVEL.

Model : C2576TN

Colour tv

**Subject:** TELETEXT  
**Fault:** SET' LOCKS UP' AND/OR TEXT MOVES LEFT  
**Symptom:** WHEN IN TELETEXT MODE THE SET  
MAY 'LOCK UP' (FREEZE) AND THE TEXT  
PICTURE MOVE TO THE LEFT.  
**Cause:** TOLERANCES IN COIL.

Cure: REPLACE COIL L591 WITH 22uH PART  
NUMBER JBH00032R. - THIS CHANGE HAS  
BEEN MADE IN ALL PRODUCTION FROM SERIAL  
NUMBERS U6B\*\*\*\*\*

Model: C2576TN

Colour tv

Subject: SERVICE INFORMATION

Fault: SERVICE MODE ADJUSTMENTS

Symptom: SET REQUIRES ADJUSTMENT.

Cause: POOR ADJUSTMENT.

Cure: ADJUSTMENTS FOR HEIGHT, E/W ,  
GREY SCALE ARE ALL ACHIEVED BY THE  
SERVICE MODE AND REMOTE HANDSET.  
FOLLOW THIS METHOD:

..... CONT.

1) PRESS AND HOLD THE VOLUME + & -  
BUTTONS INSIDE THE FRONT FLAP ON THE  
T. V. SET, WHILE SWITCHING ON THE SET  
FROM THE MAINS ON/OFF SWITCH.

2) WHEN THE SET COMES ON RELEASE THE  
VOLUME CONTROLS. AFTER A SHORT WHILE  
THE MODEL NUMBER WILL BE DISPLAYED ON  
SCREEN.

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Model: C2576TN

Colour tv

Subject: SERVICE INFORMATION

Fault: SERVICE MODE ADJUSTMENTS

3) PULL DOWN THE COVER ON THE REMOTE  
HANDSET. PRESS THE 'ESC' BUTTON TO  
DISPLAY THE SERVICE MODE MENU.

GEOM	REG.	00
GEOM	VALUE	00
GREY	REG	00
GREY	VALUE	00

ETC.

4) USE THE < AND > CURSOR BUTTONS ON  
THE HANDSET TO SELECT THE ADJUSTMENT  
MODE YOU REQUIRE. FOR PICTURE ADJUST  
SUCH AS HEIGHT, WIDTH THESE ARE IN THE  
GEOM REG ADJUSTMENTS.  
FOR GREY SCALE ADJUST THESE ARE IN THE  
GREY REG. MENUS



..... CONT.

A FULL TABLE FOR GEOMETRY ADJUSTMENTS  
FOLLOWS:

GEOM REG 00 HORIZONTAL SHIFT  
GEOM REG 01 EAST WEST WIDTH  
GEOM REG 02 EAST WEST PARABOLA WIDTH  
GEOM REG 03 EAST WEST CORNER PARABOLA  
GEOM REG 04 EAST WEST TRAPEZIUM  
GEOM REG 05 VERTICLE SLOPE  
GEOM REG 06 VERTICLE AMPLITUDE  
GEOM REG 07 S CORRECTION  
GEOM REG 08 VERTICLE SHIFT.

SO IF FOR EXAMPLE WE REQUIRE TO ADJUST  
THE PICTURE HEIGHT: ALIGN THE CURSOR  
ARROWS ON GEOM REG. USING THE CURSOR  
UP AND DOWN BUTTONS ON THE REMOTE.  
USE THE CURSOR < &> BUTTONS TO SELECT  
GEOM REG. 06. CURSOR DOWN TO GEOM  
VALUE AND USE THE < & > BUTTONS ON THE  
HANDSET TO REDUCE OR INCREASE AS REQ'D  
GREY SCALE IS ACHEIVED IN THE SAME  
MANNER USING THE GREY REG. AND GREY  
VALUE MENU AS FOLLOWS:

GREY REG 00 RED GAIN  
GREY REG 01 GREEN GAIN  
GREY REG 02 BLUE GAIN  
GREY REG 03 RED LEVEL  
GREY REG 04 GREEN LEVEL  
GREY REG 05 BLUE LEVEL



Model: C2576TN Colour tv

Subject: SERVICE INFORMATION

Fault: SERVICE MODE ADJUSTMENTS  
ONCE ALL ADJUSTMENTS HAVE BEEN MADE GO  
TO STANDBY TO MEMORISE AND EXIT THE  
SERVICE MODE.



Model: C2576TN Colour tv

Subject: SERVICE INFORMATION

Fault: 'C\*\*\*76TN-311' OSD APPEARS ON SCREEN

Symptom: THE OSD PROMPT 'C\*\*\*76TN-311'  
APPEARS ON SCREEN ON SWITCH ON

Cause: SET IS IN SERVICE MODE

Cure: PRESS THE ESC BUTTON UNDER THE  
BOTTOM FLAP OF THE REMOTE CONTROL. THEN  
GO TO STANDBY. WHEN THE SET IS BROUGHT  
OUT OF STANDBY THE PROMPT WILL HAVE  
BEEN REMOVED.



Model: C2576TN

Colour tv

Subject: PART NUMBER CHANGES  
Fault: PART NUMBER FOR I. C. 002  
Symptom: THE PART NUMBER FOR I. C. 002  
GIVEN IN THE PRELIMINARY MANUAL IS  
INCORRECT.  
Cause: PRINTING ERROR.  
Cure: DELETE PART NUMBER T900668. THE  
CORRECT PART NUMBER FOR I. C. 002 IS  
SCANDINAVIA: E730160  
EUROPE & UK: E730138

Model: C2577TN

COLOUR TV

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY.  
Symptom: STUCK IN STANDBY.  
Cause: FAULTY ZENER DIODE.  
Cure: CHECK/REPLACE ZD958,  
PT. NO. T536235.

Model: C2577TN

COLOUR TV

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY  
Symptom: STUCK IN STANDBY.  
Cause: FAULTY IC AND DIODES.  
Cure: CHECK/REPLACE IC601, PT. NO. T900642  
AND D718 AND D719, PT. NO. T431113.

Model: C2586TN

25" Pro-logic

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: C2586TN

25" Pro-logic

Subject: Y/C SIGNAL PROCESSING  
Fault: BLANK SCREEN AT SWITCH ON  
SECTION: CRT  
CONDITION: 1  
Symptom: 315 BLANK SCREEN  
DEFECT: Y  
REPAIR A CHANGE R896, R897 AND R898  
FROM 150R TO 220R. CONNECT A METER TO  
THE GREEN CATHODE AND ADJUST THE  
SCREEN CONTROL FOR A READING OF 147V.

Model: C2586TN 25" Pro-logic

Subject: AUDIO  
Fault: DISTORTED SOUND AT LOW VOLUME  
SECTION: APA  
CONDITION: 1  
Symptom: 532 DISTORTED SOUND  
DEFECT: Z  
REPAIR: A REMOVE J203 AND J204 AND  
REPLACE WITH 100R RESISTORS. DECOUPLE  
PINS 60 AND 61 OF IC400 WITH 10nF 50V

Model: C2586TN 25" Pro-logic

Subject: VERTICAL STAGE  
Fault: IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316 HORIZONTAL LINE  
DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J

Model: C2586TN 25" Pro-logic

Subject: TELETEXT  
Fault: IMPROVEMENT OF TEXT BREATHING  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 IMPROVEMENT OF TEXT  
BREATHING  
DEFECT: Y  
REPAIR: A REPLACE WIRE LINK IN  
POSITION R5 WITH 220R PT# J0700032M

Model: C2586TN 25" Pro-logic

Subject: TUNER/IF/VIDEO  
Fault: DISTORTED SOUND FROM COLD  
SECTION: TUN  
CONDITION: 6  
Symptom: 532 DISTORTED AUDIO FROM COLD  
DEFECT: C L203 MIS-ALIGNED  
REPAIR: C CONNECT METER TO THE JUNC-  
TION OF R225 AND R226. ON A GOOD SIGNAL  
ADJUST L203 FOR A READING OF 4.25V

Model: C2586TN 25" Pro-logic

Subject: TUNER/IF/VIDEO



Fault: CHANGE OF COMPOSITE VIDEO LEVEL  
SECTION: IFC  
CONDITION: 1  
Symptom: 185 CHANGE OF COMP. VIDEO LEVEL  
DEFECT: Y  
REPAIR: A CHANGE R505 FROM 270R TO  
220R. PART # J0700032M

Model: C28P759 COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD  
CHECK FOR SHORT CIRCUIT TB701, DB709  
AND OPEN CIRCUIT RB701.

Model: C28P759 COLOUR TV

Subject: POWER SUPPLY  
Fault: SOUND REMAINS MUTED AT SWITCH ON  
Symptom: THE SOUND REMAINS MUTED FOR  
A LONG PERIOD OF TIME AFTER THE SET IS  
SWITCHED ON FROM COLD.  
Cause: CAPACITORS DRYING OUT.  
Cure: CHECK THE -4.5V RAIL FOR RIPPLE  
REPLACE CB624 220uF 16V AND CB523 ALSO  
220uF 16V PART NUMBER 0800058R

Model: C28P759 COLOUR TV

Subject: AUDIO  
Fault: SOUND REMAINS MUTED AT SWITCH ON  
Symptom: THE SOUND REMAINS MUTED FOR  
A LONG PERIOD OF TIME AFTER THE SET IS  
SWITCHED ON FROM COLD.  
Cause: CAPACITORS DRYING OUT.  
Cure: CHECK THE -4.5V RAIL FOR RIPPLE  
REPLACE CB624 220uF 16V AND CB523 ALSO  
220uF 16V PART NUMBER 0800058R

Model: C28P759 COLOUR TV

Subject: VERTICAL STAGE  
Fault: FRAME FOLDOVER AND FLYBACK LINES  
Symptom: FRAME FOLDOVER, WITH FLYBACK  
LINES  
Cause: O/C RESISTOR  
Cure: CHECK / REPLACE RB577

Model: C28P759 COLOUR TV

Subject: VERTICAL STAGE  
Fault: DEAD SET CHANNEL LED DIM &/OR FLASH

# HITACHI

Symptom: SET DEAD, CHANNEL No LED DIM  
Cause: LEAKY DIODE / FAULTY I. C.  
Cure: CHECK / REPLACE DB525 AND ICB570  
(TDA8172)

Model: C28P759 COLOUR TV

Subject: VERTICAL STAGE  
Fault: INTERMITTENT/PERMANENT NON-OPERATION  
RE-MAKE JOINTS AROUND LOPT C528, C617,  
C524, C531, C614, C525 AND C527 BY:  
1. REMOVING SOLDER FROM JOINTS  
2. BENDING COMPONENT LEADS OVER TO  
PROVIDE GOOD MECHANICAL CONNECTION  
3. RE-SOLDER JOINTS

Model: C28P759 COLOUR TV

Subject: VERTICAL STAGE  
Fault: LOW HT, COLOURED PATCHES ON SCREEN  
CHECK / REPLACE FRAME I. C. ICB570

Model: C28P759 COLOUR TV

Subject: VERTICAL STAGE  
Fault: BENT VERTICALS / PICTURE SHAKE  
REPLACE ICB501

Model: C28P759 COLOUR TV

Subject: VERTICAL STAGE  
Fault: TB526 FAILS REGULARLY  
DB525 GOES LEAKY. CHECK/REPLACE

Model: C28P759 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: INTERMITTENT/PERMANENT NON-OPERATION  
RE-MAKE JOINTS AROUND LOPT C528, C617,  
C524, C531, C614, C525 AND C527 BY:  
1. REMOVING SOLDER FROM JOINTS  
2. BENDING COMPONENT LEADS OVER TO  
PROVIDE GOOD MECHANICAL CONNECTION  
3. RE-SOLDER JOINTS

Model: C28P759 COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: SET DEAD  
CHECK DB525 FOR SHORT CIRCUIT AND  
REPLACE RB538.

Model: C28P759

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: DEAD SET, TB525 BLOWS

Symptom: SET DEAD, BLOWS TB525 LINE  
OUTPUT TRANSISTOR AFTER SHORT PERIOD  
OF TIME.

Cause: RESISTORS GO HIGH.

Cure: CHECK / REPLACE RB532, 533, 535/6  
ALL ARE 1 OHM RESISTORS. (NOTE: D. C.  
VOLTS ON BASE OF TB525 SHOULD BE FROM  
- 1.4V TO - 1.7V )

Model: C28P759

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: DEAD, BUZZ FROM SPEAKERS

Symptom: NO PICTURE OR SOUND, BUT A  
BUZZ CAN BE HEARD FROM THE SPEAKERS

Cause: LEAKY TRANSISTOR

Cure: CHECK / REPLACE TB522

Model: C28P759

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: CHANGE OF COMBI-TRANSFORMER

Symptom: POOR CONTRAST AND/OR FOCUS

Cause: COMBI TRANSFORMER

Cure: REPLACE COMBI TRANSFORMER MB601  
WITH NEW VERSION, PART No FMD530.  
CARRY OUT THE FOLLOWING CHANGES;  
CHANGE HB701 TO PART No SAL LF0115  
CHANGE CB524 TO 7nF PART No CE2326  
CHANGE CB715 TO 270pF PT/No SAL CE2034

Model: C28P759

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: EXCESSIVE WIDTH

Symptom: PICTURE TOO WIDE.

Cause: DRY JOINTS / FAULTY F. E. T.

Cure: REPLACE TB526. CHECK MB521 FOR  
DRY JOINTS OR HEAT DAMAGE, REPLACE AS  
NECESSARY. REMOVE SOLDER FROM AND BEND  
LEGS TO MAKE MECHANICAL CONTACT WITH T  
HE PCB ON C524, 525, 527, 528, 531, 614, 617  
REPLACE ANY SHOWING HEAT DAMAGE.

Model: C28P759

COLOUR TV

Subject: HORIZONTAL STAGE



**Fault t:** RAGGED VERTICALS  
**Symptom:** RAGGED VERTICALS AFTER 1 HOUR  
 APPRX. FREEZING AROUND FRAME STAGE MAY  
 CURE FAULT.  
**Cause:** D522 FAULTY  
**Cure:** REPLACE D522. PART NUMBER JF0025.  
 PLEASE NOTE D522 IS MOUNTED UNDER HEAT  
 SINK.

Model: C28P759 COLOUR TV

**Subject: TELETEXT**  
**Fault: POOR TELETEXT ON BB1 & BBC2 ONLY**  
**REPLACE ICI CCUSAL007 WITH CCUSAL012**  
**PART NO LMD775 AND IC250 TPU2734**  
**WITH TPU2735 PART NO LMD770**  
**PLEASE RETURN THE OLD ICS WITH YOUR**  
**GUARANTEE CLAIMS**

Model: C28P759 COLOUR TV

Subject: TELETEXT  
Fault: DIFFICULTY IN SELECTING SOME CEEFAX  
TELETEXT PAGES PLUS INTERMITTENT  
FLICKERING VERTICAL LINES  
REPLACE ICI CCUSAL007 WITH CCUSAL012  
PART NO LMD775 PLUS IC250 TPU2734 WITH  
TPU2735 PART NO LMD770

Model: C28P759 COLOUR TV

**Subject:** TELETEXT  
**Fault:** CORRUPTED TELETEXT  
**Symptom:** CORRUPTED TEXT / DROP OUT OF  
 TELETEXT  
**Cause:** MISSING LINKS / POOR CONTINUITY  
**Cure:** CHECK CONTINUITY OF TRACK & LINK  
 FOR DIGITAL DATA LINES FROM VCU TO TPU  
 (ICB201 THRO' TO ICB250 PINS 1 TO 4  
 & PINS 39 TO 40)

Model: C28P759 COLOUR TV

**Subject: PART NUMBER CHANGES**  
**Fault: TB526 & TB531 - "M" CHASSIS**  
**IN THE ABOVE CHASSIS, WHEN REPLACING**  
**EITHER OF OR BOTH OF THE ABOVE**  
**TRANSISTORS, THE ORIGINAL TYPE SHOULD**  
**BE FITTED WITHOUT MODIFICATION. THE**  
**PART NUMBER IS JS0017**

**Model : C28P819**

**COLOUR TV**

**Subject: POWER SUPPLY**

**Fault: DEAD SET**

REPLACE Q901 (BUT11AF) PART NO\*T636035 WITH HITACHI SUPPLIED PARTS ONLY. CHECK R901 PART NO 0141175 AND MAIN FUSE F5701, PART NO 2721292, FOR OPEN CIRCUIT. REPLACE AS NECESSARY.

ON EARLIER MODELS C914 IS 2.2 UF. THIS SHOULD BE UPDATED TO 10 UF PART NO 080018R AND A 2.7 OHM RESISTOR SHOULD BE FITTED IN PARALLEL WITH R906 AND R906A, PART NO R207330.

PLEASE NOTE: BUT11AF SUPPLIED BY HITACHI ARE SPECIALLY SELECTED AND ARE THE ONLY PARTS TO BE USED IN THESE MODELS.

ALTERNATIVELY SOURCED PARTS MAY FAIL WITHIN A SHORT PERIOD OF TIME.

\*PLEASE SEE TECH LINE BULLETIN NO. 627

**Model : C28P819**

**COLOUR TV**

**Subject: POWER SUPPLY**

**Fault: DEAD OR INTERMITTANT DEAD**

REPLACE R919, R920, R931, R932, AND C912

**Model : C28P819**

**COLOUR TV**

**Subject: TUNING SELECTION**

**Fault: NO REMOTE OPERATION / NO TUNING**

**Symptom:** SET WILL NOT RESPOND TO ANY REMOTE COMMANDS. SET WILL NOT TUNE IN, JUST A SNOW STORM ON SCREEN.

**Cause:** FRAME PULSE TO MICRO REDUCED

**Cure:** REPLACE I. C. 601  
(CHECK FOR V. PULSE TO MICRO SHOULD BE APPROX 30V P/P)

**Model : C28P819**

**COLOUR TV**

**Subject: TUNING SELECTION**

**Fault: NO TUNING, NO REMOTE OP**

**Symptom:** SET CANNOT BE TUNED IN, OR RESPOND TO REMOTE COMMANDS

**Cause:** CORRUPTED FRAME PULSE

**Cure:** CHECK FOR V. PULSE TO MICRO, APPROX 30V P/PK. IF REDUCED REPLACE I. C. 601



Model: C28P819

COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: VERY DIM PICTURE  
Symptom: PICTURE IS VERY DARK, IMAGE  
BARELY VISIBLE.  
Cause: COMPONENTS GO LEAKY  
Cure: CHECK / REPLACE D808 IN4148 PART  
NUMBER T531053 AND C831 PART NUMBER  
0252945 47uF 16V



Model: C28P819

COLOUR TV

Subject: SERVICE INFORMATION  
Fault: CLICKING SOUND ON NICAM  
ADJUST L5 ON NICAM SUB P. C. B. UNTILL  
CLICKING IS REMOVED.



Model: C28WD2TN

28" PRO-LOGIC WIDE SCREEN

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188



Model: C28WD2TN

28" PRO-LOGIC WIDE SCREEN

Subject: HORIZONTAL STAGE  
Fault: IMPROVEMENT OF ABL CIRCUIT  
SECTION: DFL  
CONDITION: 1  
Symptom: 320 IMPROVEMENT OF ABL  
DEFECT: Y  
REPAIR: A CHANGE R730 AND R766  
FROM 0R5 2W TO 0R5 5W PT# R000619  
CHANGE C724 FROM 47uF 50V TO 22uF 50V  
PT# J0800303R. CHANGE R736 FROM 5K1 TO  
6K8 PT# R638330



Model: C28WD2TN

28" PRO-LOGIC WIDE SCREEN

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART # , R602  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 OLD PART DISCONTINUED  
DEFECT: R  
REPAIR: A NEW PART # FOR R602 IS  
R108736



Model: C28WD2TN 28" PRO-LOGIC WIDE SCREEN

Subject: SERVICE INFORMATION  
Fault: IMPROVEMENT OF 16:9 COMPRESSION SW  
SECTION: VPA  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: Y  
REPAIR: A R1304 IN 16:9 COMPRESSION  
SWITCH IS CHANGED FROM 10K TO 47K

Model: C28WD2TN 28" PRO-LOGIC WIDE SCREEN

Subject: TUNER/IF/VIDEO  
Fault: CHANGE OF COMPOSITE VIDEO LEVEL  
SECTION: IFC  
CONDITION: 1  
Symptom: 185 CHANGE OF COMP. VIDEO LEVEL  
DEFECT: Y  
REPAIR: A CHANGE R505 FROM 270R TO  
220R. PART # J0700032M

Model: C28W1TN 28" WIDE SCREEN

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: C28W1TN 28" WIDE SCREEN

Subject: HORIZONTAL STAGE  
Fault: IMPROVEMENT OF ABL CIRCUIT  
SECTION: DFL  
CONDITION: 1  
Symptom: 320 IMPROVEMENT OF ABL  
DEFECT: Y  
REPAIR: A CHANGE R730 AND R766  
FROM 0R5 2W TO 0R5 5W PT# R000619  
CHANGE C724 FROM 47uF 50V TO 22uF 50V  
PT# J0800303R. CHANGE R736 FROM 5K1 TO  
6K8 PT# R638330

Model: C28W1TN 28" WIDE SCREEN

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART # , R602  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 185 OLD PART DISCONTINUED



DEFECT: R  
REPAIR: A NEW PART # FOR R602 IS  
R108736

Model: C28W1TN 28" WIDE SCREEN

Subject: SERVICE INFORMATION  
Fault: IMPROVEMENT OF 16:9 COMPRESSION SW  
SECTION: VPA  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: Y  
REPAIR: A R1304 IN 16:9 COMPRESSION  
SWITCH IS CHANGED FROM 10K TO 47K

Model: C28300TN 28" 16x9 pro-logic

Subject: Y/C SIGNAL PROCESSING  
Fault: INCORRECT OPERATION OF NTSC 3.58  
Symptom: INCORRECT OPERATION OF NTSC  
3.58  
Cause: INCORRECT SOFTWARE  
Cure: REPLACE IC006 WITH PART NUMBER  
E730145

Model: C28300TN 28" 16x9 pro-logic

Subject: Y/C SIGNAL PROCESSING  
Fault: SPOT BURN ON TUBE  
Symptom: PHOSPHOR BURN ON TUBE  
Cause: SPOT TOO BRIGHT.  
Cure: DELETE TRANSISTOR Q510

Model: C28300TN 28" 16x9 pro-logic

Subject: HORIZONTAL STAGE  
Fault: NO E-W CORRECTION ADJUSTMENT  
SECTION: DFL  
CONDITION: 1  
Symptom: 33A NO E-W CORRECTION  
DEFECT: Q S/C ZENER DIODE  
REPAIR: A REPLACE 2V7 ZENER DIODE ON  
PIN 12 OF IC 601. PART # T536190. NOTE  
DIODE NOT PRINTED ON CIRCUIT DIAGRAM

Model: C28300TN 28" 16x9 pro-logic

Subject: SERVICE INFORMATION  
Fault: UPDATED SOFTWARE FOR IC006  
Symptom: UPDATE OF SOFTWARE  
Cause: IMPROVEMENT OF OPERATION.  
Cure: REPLACE IC006 WITH PART NUMBER

E730145

Model: C2844TN

COLOUR TV

Subject: POWER SUPPLY

Fault: SET CUTS OUT, SCREEN BRIGHT WHITE.

Symptom: SET CUTS OUT INTERMITTANTLY,  
SCREEN FLARES BRIGHT WHITE.

Cause: DRY JOINTS.

Cure: REMOVE SOLDER FROM METAL SPRING  
CLIPS HOLDING IC800 HEAT SINK. CLEAN  
BARE METAL AND RESOLDER, ENSURING A  
GOOD CONTACT. IC800 MAY ALSO BE FAULY  
AND REQUIRE REPLACING PT/No T900509

Model: C2844TN

COLOUR TV

Subject: POWER SUPPLY

Fault: SET PULSES FROM COLD, THEN COMES ON

Symptom: WHEN SWITCHED ON FROM COLD  
THE SET PULSES. IF LEFT, ONCE LINE OUT  
TRANSISTOR GETS WARM, THE SET STARTS  
TO WORK.

Cause: INTERMITTANT TRANSISTOR.

Cure: REPLACE LINE OUTPUT TRANSISTOR  
Q703.

Model: C2844TN

COLOUR TV

Subject: POWER SUPPLY

Fault: SET PULSING / DEAD - D704 FAILS.

Symptom: SET DEAD / PULSES, D704 FAILS  
AFTER REPLACING.

Cause: SHORTED TURNS ON INDUCTOR.

Cure: REPLACE L651 PART No J2220642.  
ALSO CHECK Q652 PART No T631275 AND  
Q651 PART No T636046.

Model: C2844TN

COLOUR TV

Subject: POWER SUPPLY

Fault: SET DEAD, STANDBY LIGHT PULSING

Symptom: SET DEAD, NO PRIMARY START UP  
NO 300V ON Q901. STANDBY LIGHT IS  
PULSING

Cause: DRY JOINTS

Cure: CHECK / RESOLDER DRY JOINTS ON  
FERRITE BEADS FB910 AND FB911.

Model: C2844TN

COLOUR TV

Subject: POWER SUPPLY



Fault: CUT OUT ON CHANNEL CHANGE.  
Symptom: CUT OUT ON CHANNEL CHANGE.  
Cause: POOR REGULATION OF HT SUPPLY.  
Cure: CHECK/CHANGE D945.  
PT. NO. T531053.

Model: C2844TN COLOUR TV

Subject: POWER SUPPLY  
 Fault: SET TRIPS AFTER EHT COMES ON.  
 Symptom: SET TRIPS AFTER EHT COMES ON.  
 FRAME SCAN SOMETIMES OK.  
 Cause: FAULTY MICRO.  
 Cure: CHECK/REPLACE IC1001.  
 PT. NO. T900552.

Model: C2844TN COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** IC1001 PART NUMBER CORRECTION (TNZ)  
**Symptom:** THE PART NUMBER FOR IC1001  
ST6393 IS INCORRECT IN THE SERVICE  
MANUAL FOR THE C2564TNZ/C2864TNZ  
**Cause:** PRINTING ERROR  
**Cure:** THE CORRECT PART NUMBER IS  
T900552

Model: C2844TN COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** CUT OUT ON CHANNEL CHANGE.  
**Symptom:** CUT OUT ON CHANNEL CHANGE.  
**Cause:** POOR REGULATION OF HT SUPPLY.  
**Cure:** CHECK/CHANGE D945.  
 PT. NO. T531053.

Model : C2844TN                      COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** FLASHING OR PULSATING PICTURE/PSU.  
**Symptom:** FLASHING/PULSATING PICTURE/PSU  
**Cause:** FAULTY CAPACITOR, CHANGED VALUE  
**Cure:** CHECK/REPLACE C927, 470MF, 25V.  
 PT. NO. C001541.

**Model : C2844TN                      COLOUR TV**

**Subject:** VERTICAL STAGE  
**Fault:** IC601 UPDATE.  
**Symptom:** IC601 SUPPLIED IS DIFFERENT  
TYPE TO THAT SPECIFIED IN THE MANUAL.  
**Cause:** ORIGINAL TYPE IS NOT AVAILABLE.

Cure: NEW TYPE, TDA8171, IS DIRECT  
EQUIVALENT TO ORIGINAL. PT. NO. T900556.  
NO OTHER CHANGES ARE NECESSARY.

Model: C2844TN

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: SET PULSES FROM COLD, THEN COMES ON  
Symptom: WHEN SWITCHED ON FROM COLD  
THE SET PULSES. IF LEFT, ONCE LINE OUT  
TRANSISTOR GETS WARM, THE SET STARTS  
TO WORK.  
Cause: INTERMITTANT TRANSISTOR.  
Cure: REPLACE LINE OUTPUT TRANSISTOR  
Q703.

Model: C2844TN

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: SET PULSING / DEAD - D704 FAILS.  
Symptom: SET DEAD / PULSES, D704 FAILS  
AFTER REPLACING.  
Cause: SHORTED TURNS ON INDUCTOR.  
Cure: REPLACE L651 PART No J2220642.  
ALSO CHECK Q652 PART No T631275 AND  
Q651 PART No T636046.

Model: C2844TN

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: ARCING AND TRIPPING.  
Symptom: ARCING IN LINE OUTPUT AREA AT  
SWITCH ON, THEN TRIPPING. SET COMES ON  
AFTER A TIME.  
Cause: FAULTY CAPACITOR.  
Cure: REPLACE C710. (DECOUPLING 12 VOLT  
SUPPLY TO LINE DRIVER STAGE).  
PT. NO. 0800082

Model: C2844TN

COLOUR TV

Subject: TELETEXT  
Fault: TELETEXT LOSES WINDOW MEMORY  
Symptom: NO TEXT, JUST 'P100' IN TOP  
LEFT HAND SIDE OF SCREEN AND LOWER  
MENU PROMTS. AFTER ADJUSTING WINDOW  
SET LOSES MEMORY AGAIN AFTER TIME  
Cause: MEMORY IC FAILURE  
Cure: IF WINDOW ADJUSTMENT IS LOST  
MORE THAN ONCE REPLACE IC2002 E740007  
AND CARRY OUT WINDOW ADJUSTMENT AGAIN



Model : C2846TN      Colour tv

**Subject:** POWER SUPPLY  
**Fault:** INTERMITTANT GOES TO STANDBY  
**Symptom:** SET INTERMITTANTLY REVERTS TO  
'STANDBY' OR CUTS OUT.  
**Cause:** DRY JOINTS  
**Cure:** CHECK IC951 AND IC952 FOR DRY  
JOINTS AND RESOLDER AS NECESSARY.



Model: C2846TN Colour tv

**Subject:** POWER SUPPLY  
**Fault:** DEAD SET - ZD951 SHORT CIRCUIT  
**Symptom:** SET DEAD, PROTECTION DIODE  
ZD951 HAS GONE SHORT CIRCUIT  
**Cause:** HT HAS RISEN TOO HIGH  
**Cure:** REPLACE ZD951 P#2344122M (25") /  
2344121M (21") AND IC901 OPTO COUPLER  
P# 2917782 TYPE CNX82A. CHECK R950 68K  
HAS NOT RISEN IN VALUE, AND IC951 &  
IC952 FOR DRY JOINTS.



Model : C2846TN                      Colour tv

**Subject:** POWER SUPPLY  
**Fault:** LOSS OF COLOUR & INTERMITTENT TRIP.  
**Symptom:** LOSS OF COLOUR & INTERMITTENT TRIP.  
**Cause:** ZENER DIODE.  
REPLACE ZD002. 5.1v ZENER.  
PART NO. T536174



Model: C2846TN Colour tv

**Subject:** POWER SUPPLY  
**Fault:** STUCK IN STANDBY.  
**Symptom:** STUCK IN STANDBY.  
**Cause:** DRY JOINTS ON IC 952.  
**Cure:** CHECK/RE-SOLDER JOINTS ON IC952.  
SEE ALSO FAULT NUMBER 497.



Model : C2846TN                      Col our tv

**Subject: TUNING SELECTION**  
**Fault: C46TN ON SCREEN ON SWITCH ON**  
**Symptom: WHEN SWITCHED ON THE O. S. D.**  
**PROMPT SHOWS C46TN**  
**Cause: SET IS IN FACTORY SET UP MODE**  
**Cure: USING THE REMOTE HANDSET;**  
**PRESS THE TWO VCR RECORD BUTTONS**  
**SIMULTANEOUSLY. WHEN THE MENU APPEARS**  
**GO TO STANDBY. SWITCH THE SET BACK ON**

AND THE O. S. D. PROMPT WILL BE REMOVED

Model: C2846TN

Colour tv

Subject: TUNING SELECTION  
Fault: CHANNEL IDENT APPEARS WITH VCR PLAY  
Symptom: WHEN PLAYING BACK A VCR TAPE  
THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.  
Cause: CORRUPTION TO SYNC FROM THE  
TAPE  
Cure: EACH TIME VCR PLAYBACK STARTS  
PRESS THE ' UPDATE ' BUTTON ON THE T. V.  
HANDSET.

Model: C2846TN

Colour tv

Subject: TUNING SELECTION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
Symptom: AFTER REPLACING I. C. 001 THE  
O. S. D. SHOWS THE PROMPT "C46TN"  
Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
Cure: FOLLOWING REPLACEMENT OF I. C. 001  
YOU WILL NEED TO BRING THE I. C. OUT OF  
THE SET UP MODE. TO DO THIS YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET  
1) PRESS THE VCR RECORD BUTTONS BOTH  
TOGETHER. THESE ARE THE TWO BOTTOM  
OUTER BUTTONS ON THE HANDSET. THE MENU  
ON SCREEN WILL CHANGE TO READ  
VERSION 46 V1.0  
STANDARD I  
DEFAULT 0  
AFC MID  
2) PUT THE SET INTO STAND BY.  
3) SWITCH THE SET BACK ON FROM STAND  
BY. THE AUTO TUNE MENUE WILL APPEAR.  
THE SET MAY BE TUNED IN AS REQUIRED.

Model: C2846TN

Colour tv

Subject: TUNING SELECTION  
Fault: CHANNEL IDENT APPEARS IN VCR PLAY  
Symptom: WHEN PLAYING BACK RECORDINGS  
OF OFF AIR PROGRAMMES, THE CHANNEL  
IDENT APPEARS INTERMITTANTLY.  
Cause: PACKET 830 IDENTIFICATION BY  
MICRO PROCESSOR.  
Cure: CHANGE I. C. 001 PT. No T900644.  
N. B. . VCR PLAYBACK MUST BE VIA SCART TO  
PREVENT RE- OCCURENCE OF SYMPTOMS.





Colour tv

**Subject:** TUNING SELECTION  
**Fault:** NO ON SCREEN GRAPHICS.  
**Symptom:** NO ON SCREEN GRAPHICS, BUT  
 FUNCTIONS STILL OPERATE. I. E. VOL. ETC.  
**Cause:** HORIZONTAL PULSE MISSING FROM  
 IC001 PIN26.  
**Cure:** CHECK/REPLACE ZD002, PT. NO.  
 T536174.



Colour tv

**Subject: TUNING SELECTION**  
**Fault: C46TN ON SCREEN DISPLAY**  
**SECTION: SYS**  
**CONDITION: 2**  
**SYMPTOM 134 C46TN OSD/NICAM SYMBOL**  
**FLASHING**  
**DEFECT: 1**  
**REPAIR A REPLACE IC001 WITH NEW SOFTWARE VERSION.**



Colour tv

**Subject: TUNING SELECTION**  
**Fault: C46TN ON SCREEN DISPLAY**  
**IC001 PART # E730181 FOR EUROPE**  
**E730180 FOR SCANDINAVIA**  
**NOTE IC 001 IS REPLACED WITH NEW SOFTWARE VERSION. THIS WILL PREVENT THE SET ENTERING THE SERVICE MODE AND CONSTANT FLASHING OF THE NICAM SYMBOL.**



Colour tv

**Subject:** TUNER/IF  
**Fault:** NO SOUND OR PICTURE-BLANK RASTER  
**Symptom:** NO SOUND OR PICTURE, JUST A  
 BLANK RASTER.  
**Cause:** FAULTY TUNER  
**Cure:** FIT NEW TUNER UNIT PT/No E710029



## Colour tv

**Subject:** TUNER/IF  
**Fault:** PICTURE FLICKER - BLACK LINES  
**Symptom:** FLICKERING BLACK LINES CAN BE SEEN ACROSS THE PICTURE.  
**Cause:** INTERMITTANT TUNER UNIT  
**Cure:** REPLACE TUNER UNIT PT/No E710029





Colour tv

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** LOSS OF COLOUR IN A. V. MODE  
**Symptom:** COLOUR LOSS AFTER A PERIOD OF TIME IN THE A. V. MODE  
**Cause:** TOLERANCES IN CAPACITORS.  
**Cure:** REPLACE C1308 WITH A 1n0 50v  
 PART No 0880031.



Colour tv

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** COLOUR LOSS WITH MACRO VIDEO TAPES  
**Symptom:** COLOUR LOSS ON HIGH CHROMA SATURATION, THIN DARK AREA AT BOTTOM OF PICTURE WHEN USING MACRO TAPES.  
**Cause:** MACRO PROTECTION.  
**Cure:** REPLACE I. C. 201 PT/No T900623 TYPE TDA8362-N4. IF ORIGINAL IC201 IS TYPE TDA8361, CHECK R523 IS 8K2 AND FIT AS NECESSARY, PART No 0700053



Colour tv

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** APPEARANCE OF NICAM INDICATOR  
**Symptom:** ERRATIC APPEARANCE OF THE  
 NICAM SYMBOLS USUALLY UPON SCENE  
 CHANGES FROM LIGHT TO DARK.  
**Cause:** SHORT CIRCUIT ON NICAM I. C.  
**Cure:** CHECK FOR SHORT CIRCUIT OF PINS  
 24 & 25 OF I. C. 4201. IF S/C EXISTS  
 REMOVE.



Colour tv

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** DIAGONAL PATTERNING ON LOW SIGNAL  
**Symptom:** DIAGONAL COLOURED LINES IN  
 LOW SIGNAL CONDITIONS.  
**Cause:** NICAM INTERFERENCE  
**Cure:** REPLACE FERRITE BEADS FB005, 6, 7  
 & 8 WITH 10uH COIL PART No J2122239.  
 MOVE THE POSITION OF C4235 TO THE I. C.  
 SIDE OF FB005 SO THE IT IS NOW AT THE  
 JUNCTION OF FB005 AND PIN 3 OF IC4201



Colour tv

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** LOSS OF COLOUR & INTERMITTENT TRIP.  
**Symptom:** LOSS OF COLOUR & INTERMITTENT



**Cause:** TRIP.  
ZENER DIODE.  
REPLACE ZD002. 5.1v ZENER.  
PART NO. T536174

Model: C2846TN Colour tv

Subject: Y/C SIGNAL PROCESSING  
Fault: NO BLUE SIGNAL.  
Symptom: NO BLUE SIGNAL.  
Cause: OPEN CIRCUIT CAPACITOR.  
Cure: CHECK/REPLACE C516.  
PT. NO. 0880057R.

Model: C2846TN Colour: tv

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** SPOT BURN-IMPROVEMENT  
**SECTION:** APR LUMINANCE PROCESSING  
**CONDITION:** 1  
**Symptom:** 385 IMPROVEMENT OF SPOT BURN  
**DEFECT:** Y  
**REPAIR:** A TO IMPROVE SPOT BURN, R593  
IS CHANGED FROM 10K TO 22K

Model: C2846TN Colour tv

**Subject:** AUDIO  
**Fault:** NO SOUND FROM OFF AIR STATIONS.  
**Symptom:** PICTURE O. K. NO SOUND FROM  
OFF AIR STATIONS.  
**Cause:** I. C. FAILURE.  
**Cure:** CHECK / REPLACE I. C. 4051 TDA9800  
PART NUMBER T900602  
CHECK / REPLACE IC001 PT/NO T900644  
CHECK / REPLACE IC002 PT/NO E730045

Model: C2846TN Colour tv

**Subject:** AUDIO  
**Fault:** APPEARANCE OF NICAM INDICATOR  
**Symptom:** ERRATIC APPEARANCE OF THE  
NICAM SYMBOLS USUALLY UPON SCENE  
CHANGES FROM LIGHT TO DARK.  
**Cause:** SHORT CIRCUIT ON NICAM I. C.  
**Cure:** CHECK FOR SHORT CIRCUIT OF PINS  
24 & 25 OF I. C. 4201. IF S/C EXISTS  
REMOVE.

Model: C2846TN Colour tv

**Subject: AUDIO**

# HITACHI

**Fault:** RANDOM APPEARANCE OF NICAM SYMBOLS  
**Symptom:** RANDOM APPEARANCE OF NICAM SYMBOLS. ALSO SOUND "POPPING".  
**Cause:** DRY JOINTS ON IC951 & IC952.  
**Cure:** RE-MAKE JOINTS ON IC951 & IC952.  
 SEE ALSO FAULT NO. 515.

Model : C2846TN      Colour tv

**Subject:** AUDIO  
**Fault:** NO AUDIO, NICAM OR FM  
**Symptom:** NO AUDIO, NICAM OR FM  
 FM AUDIO GOING INTO IC4201 PIN 7.  
**Cause:** FAULTY MEMORY IC.  
**Cure:** CHANGE IC 002. PT. NO. E730045.

Model : C2846TN      Colour tv

**Subject:** AUDIO  
**Fault:** REPEATED FAILURE OF IC4450 AT SW ON  
**SECTION:** APA  
**CONDITION:** 1  
**Symptom:** 511 NO SOUND  
**DEFECT:** Q SHORT CIRCUIT  
**REPAIR:** A REPLACE IC4450 , C4466  
AND C4467.

Model: C2846TN Colour tv

Subject: AUDIO  
Fault: REPEATED FAILURE OF IC4450 AT SW ON  
PART NUMBERS: IC4450 2020011  
C4466&C4467 0800044R

Model: C2846TN Colour tv

**Subject:** VERTICAL STAGE  
**Fault:** FLYBACK LINES AT TOP OF PICTURE  
**Symptom:** FLYBACK LINES VISIBLE AT THE  
TOP OF THE PICTURE.  
**Cause:** FAULTY FRAME I. C.  
**Cure:** REPLACE FRAME IC601 TYPE TA8427K  
PART NUMBER J2003951

Model : C2846TN      Col our tv

**Subject:** HORIZONTAL STAGE  
**Fault:** VALUE OF R705 INCORRECT IN MANUAL.  
**Symptom:** VALUE OF R705 INCORRECT IN  
 SERVICE MANUAL.  
**Cause:** PRINTING ERROR.  
**Cure:** THE CORRECT VALUE FOR R705 IS

1 OHM 2W.  
PT. NO. IS R100549.

Model: C2846TN                      Colour tv

Subject: TELETEXT  
Fault: CHANNEL IDENT APPEARS WITH VCR PLAY  
Symptom: WHEN PLAYING BACK A VCR TAPE  
THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.  
CAUSE. CORRUPTION TO SYNC FROM THE  
TAPE  
CURE. EACH TIME VCR PLAYBACK STARTS  
PRESS THE ' UPDATE ' BUTTON ON THE T. V.  
HANDSET.

Model: C2846TN                      Colour tv

Subject: SERVICE INFORMATION  
Fault: "MINI" HANDSET COMPATABILITY  
THERE ARE TWO VERSIONS OF THE "MINI"  
HANDSET AVAILABLE. THESE ARE USED IN  
CONJUNCTION WITH THE C21/5/846TN AND  
THE C21/547TN. THE TYPE & PART NUMBERS  
ARE LISTED BELOW.  
CL903 JHL00121 USE WITH 47 SERIES CTV  
CL903A JHL00122 USE WITH 46 & 47 CTV  
IF THE CL903 IS USED WITH THE 46  
SERIES CTV, SOME BUTTONS MAY FAIL TO  
OPERATE THE TELEVISION SET.

Model: C2846TN                      Colour tv

Subject: SERVICE INFORMATION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
Symptom: AFTER REPLACING I. C. 001 THE  
O. S. D. SHOWS THE PROMPT "C46TN"  
Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
Cure: FOLLOWING REPLACEMENT OF I. C. 001  
YOU WILL NEED TO BRING THE I. C. OUT OF  
THE SET UP MODE. TO DO THIS YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET  
1) PRESS THE VCR RECORD BUTTONS BOTH  
TOGETHER. THESE ARE THE TWO BOTTOM  
OUTER BUTTONS ON THE HANDSET. THE MENU  
ON SCREEN WILL CHANGE TO READ  
VERSION 46 V1.0  
STANDARD I  
DEFAULT 0  
AFC MID  
2) PUT THE SET INTO STAND BY.  
3) SWITCH THE SET BACK ON FROM STAND



BY. THE AUTO TUNE MENUE WILL APPEAR.  
THE SET MAY BE TUNED IN AS REQUIRED.



Model: C2846TN

Colour tv

Subject: PART NUMBER CHANGES  
Fault: UPDATED I. C. 201 - TDA8362-N4  
Symptom: IC201 HAS BEEN CHANGED TO AN  
ISSUE 4 MASK.  
Cause: MASK CHANGE BY IC MANUFACTURER  
Cure: WHEN ORDERING THIS NEW VERSION  
OF IC201 USE PART NUMBER T900623. IF  
THIS IS TO REPLACE TYPE TDA8361, CHECK  
R523 IS 8K2 AND REPLACE AS NECESSARY.  
PART No 0700053.



Model: C2846TN

Colour tv

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF CPT SOCKET  
Symptom: CHANGE OF TUBE SOCKET  
Cause: ORIGINAL PART DISCONTINUED  
Cure: NEW PART NUMBER FOR TUBE SOCKET  
IS E822925



Model: C2846TN

Colour tv

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER , T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 T901 PT# CHANGED  
DEFECT: A  
REPAIR: A NEW PART # FOR T901 IS  
L380119



Model: C2846TN

Colour tv

Subject: SERVICE INFORMATION  
Fault: NO TUNING/ MAX. AUDIO NOT POSSIBLE.  
Symptom: NO TUNING, MAX. AUDIO NOT  
POSSIBLE.  
Cause: TV IN PSEUDO HOTEL MODE.  
Cure: PRESS/HOLD VOL+/- ON TV FRONT AND  
SWITCH SET ON AT FRONT. PRESS 2 VCR REC  
BUTTONS ON REMOTE. CHECK FOR "H" AT LOWER  
RIGHT OF MENU. IF PRESENT, DELETE USING  
-/- - BUTTON. THEN GO TO STANDBY.



Model: C2846TN

Colour tv

Subject: AUDIO



**Fault:** NO MONO SOUND NICAM SOUND OK  
**Symptom:** NO MONO SOUND, NICAM SOUND OK  
**Cause:** IC 1401 TYPE TA8777N  
**Cure:** REPLACE IC 1401  
 IC 1401 PART NUMBER J2004651

Model: C2847TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** DEAD SET - ZD951 SHORT CIRCUIT  
**Symptom:** SET DEAD, PROTECTION DIODE  
ZD951 HAS GONE SHORT CIRCUIT  
**Cause:** HT HAS RISEN TOO HIGH  
**Cure:** REPLACE ZD951 P#2344122M (25") /  
2344121M (21") AND IC901 OPTO COUPLER  
P# 2917782 TYPE CNX82A. CHECK R950 68K  
HAS NOT RISEN IN VALUE, AND IC951 &  
IC952 FOR DRY JOINTS.

Model: C2847TN COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: STUCK IN STANDBY.**  
**Symptom: STUCK IN STANDBY.**  
**Cause: DRY JOINTS ON IC 952.**  
**Cure: CHECK/RE- SOLDER JOINTS ON IC952.**  
**SEE ALSO FAULT NUMBER 497.**

Model : C2847TN COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** C46TN ON SCREEN ON SWITCH ON  
**Symptom:** WHEN SWITCHED ON THE O. S. D.  
PROMPT SHOWS C46TN  
**Cause:** SET IS IN FACTORY SET UP MODE  
**Cure:** USING THE REMOTE HANDSET;  
PRESS THE TWO VCR RECORD BUTTONS  
SIMULTANEOUSLY. WHEN THE MENU APPEARS  
GO TO STANDBY. SWITCH THE SET BACK ON  
AND THE O. S. D. PROMPT WILL BE REMOVED

Model: C2847TN COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** CHANNEL IDENT APPEARS WITH VCR PLAY

**Symptom:** WHEN PLAYING BACK A VCR TAPE  
THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.  
CAUSE. CORRUPTION TO SYNC FROM THE  
TAPE  
CURE. EACH TIME VCR PLAYBACK STARTS  
PRESS THE 'UPDATE' BUTTON ON THE T.V.  
HANDSET.

Model: C2847TN COLOUR TV

Subject: TUNING SELECTION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
Symptom: AFTER REPLACING I. C. 001 THE  
O. S. D. SHOWS THE PROMPT "C46TN"  
Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
Cure: FOLLOWING REPLACEMENT OF I. C. 001  
YOU WILL NEED TO BRING THE I. C. OUT OF  
THE SET UP MODE. TO DO THIS YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET

Model: C2847TN COLOUR TV

Subject: TUNING SELECTION  
Fault: "C46TN" OSD, AFTER REPLACING IC001  
1) PRESS THE VCR RECORD BUTTONS BOTH  
TOGETHER. THESE ARE THE TWO BOTTOM  
OUTER BUTTONS ON THE HANDSET. THE MENU  
ON SCREEN WILL CHANGE TO READ  
VERSION 46 V1.0  
STANDARD I  
DEFAULT 0  
AFC MID  
2) PUT THE SET INTO STAND BY.  
3) SWITCH THE SET BACK ON FROM STAND  
BY. THE AUTO TUNE MENU WILL APPEAR.  
THE SET MAY BE TUNED IN AS REQUIRED.

Model: C2847TN COLOUR TV

Subject: TUNING SELECTION  
Fault: CHANNEL IDENT APPEARS IN VCR PLAY  
Symptom: WHEN PLAYING BACK RECORDINGS  
OF OFF AIR PROGRAMMES, THE CHANNEL  
IDENT APPEARS INTERMITTANTLY.  
Cause: PACKET 830 IDENTIFICATION BY  
MICRO PROCESSOR.  
Cure: CHANGE I. C. 001 PT. No T900644.  
N. B. . VCR PLAYBACK MUST BE VIA SCART TO  
PREVENT RE-OCCURENCE OF SYMPTOMS.

Model: C2847TN COLOUR TV

Subject: TUNING SELECTION  
Fault: NO ON SCREEN GRAPHICS.  
Symptom: NO ON SCREEN GRAPHICS, BUT  
FUNCTIONS STILL OPERATE. I. E. VOL. ETC.  
Cause: HORIZONTAL PULSE MISSING FROM  
IC001 PIN26.  
Cure: CHECK/REPLACE ZD002, PT. NO.



T536174.

Model: C2847TN COLOUR TV

Subject: TUNER/IF  
Fault: NO SOUND OR PICTURE-BLANK RASTER  
Symptom: NO SOUND OR PICTURE, JUST A  
BLANK RASTER.  
Cause: FAULTY TUNER  
Cure: FIT NEW TUNER UNIT PT/No E710029

Model: C2847TN COLOUR TV

Subject: TUNER/IF  
Fault: PICTURE FLICKER - BLACK LINES  
Symptom: FLICKERING BLACK LINES CAN BE  
SEEN ACROSS THE PICTURE.  
Cause: INTERMITTANT TUNER UNIT  
Cure: REPLACE TUNER UNIT PT/No E710029

Model: C2847TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: LOSS OF COLOUR IN A. V. MODE  
Symptom: COLOUR LOSS AFTER A PERIOD OF  
TIME IN THE A. V. MODE  
Cause: TOLERANCES IN CAPACITORS.  
Cure: REPLACE C1308 WITH A 1n0 50v  
PART No 0880031.

Model: C2847TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR LOSS WITH MACRO VIDEO TAPES  
Symptom: COLOUR LOSS ON HIGH CHROMA  
SATURATION, THIN DARK AREA AT BOTTOM OF  
PICTURE WHEN USING MACRO TAPES.  
Cause: MACRO PROTECTION.  
Cure: REPLACE I. C. 201 PT/No T900623  
TYPE TDA8362-N4. IF ORIGINAL IC201 IS  
TYPE TDA8361, CHECK R523 IS 8K2 AND  
FIT AS NECESSARY, PART No 0700053

Model: C2847TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: NO BLUE SIGNAL.  
Symptom: NO BLUE SIGNAL.  
Cause: OPEN CIRCUIT CAPACITOR.  
Cure: CHECK/REPLACE C516.  
PT. NO. 0880057R.

Model: C2847TN

COLOUR TV

Subject: AUDIO

Fault: NO SOUND FROM OFF AIR STATIONS.

Symptom: PICTURE O. K. NO SOUND FROM  
OFF AIR STATIONS.

Cause: I. C. FAILURE.

Cure: CHECK / REPLACE I. C. 4051 TDA9800  
PART NUMBER T900602  
CHECK / REPLACE IC001 PT/NO T900644  
CHECK / REPLACE IC002 PT/NO E730045

Model: C2847TN

COLOUR TV

Subject: AUDIO

Fault: RANDOM APPEARANCE OF NICAM SYMBOLS

Symptom: RANDOM APPEARANCE OF NICAM  
SYMBOLS. ALSO SOUND "POPPING".

Cause: DRY JOINTS ON IC951 & IC952.

Cure: RE-MAKE JOINTS ON IC951 & IC952.  
SEE ALSO FAULT NO. 515.

Model: C2847TN

COLOUR TV

Subject: AUDIO

Fault: NO AUDIO, NICAM OR FM

Symptom: NO AUDIO, NICAM OR FM  
FM AUDIO GOING INTO IC4201 PIN 7.

Cause: FAULTY MEMORY IC.

Cure: CHANGE IC 002. PT. NO. E730045.

Model: C2847TN

COLOUR TV

Subject: TELETEXT

Fault: CHANNEL IDENT APPEARS WITH VCR PLAY

Symptom: WHEN PLAYING BACK A VCR TAPE  
THE STATION IDENT FROM TELETEXT MAY  
INTERMITTANTLY APPEAR.  
CAUSE. CORRUPTION TO SYNC FROM THE  
TAPE  
CURE. EACH TIME VCR PLAYBACK STARTS  
PRESS THE ' UPDATE ' BUTTON ON THE T. V.  
HANDSET.

Model: C2847TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: "MINI" HANDSET COMPATABILITY  
THERE ARE TWO VERSIONS OF THE "MINI"  
HANDSET AVAILABLE. THESE ARE USED IN  
CONJUNCTION WITH THE C21/5/846TN AND



THE C21/547TN. THE TYPE & PART NUMBERS ARE LISTED BELOW.

CL903 JHL00121 USE WITH 47 SERIES CTV  
CL903A JHL00122 USE WITH 46 & 47 CTV  
IF THE CL903 IS USED WITH THE 46 SERIES CTV, SOME BUTTONS MAY FAIL TO OPERATE THE TELEVISION SET.



**Model: C2847TN COLOUR TV**

**Subject:** SERVICE INFORMATION  
**Fault:** "C46TN" OSD, AFTER REPLACING IC001  
**Symptom:** AFTER REPLACING I. C. 001 THE O. S. D. SHOWS THE PROMPT "C46TN"  
**Cause:** WHEN FIRST USED THE I. C. WILL ENTER THE SET UP MODE.  
**Cure:** FOLLOWING REPLACEMENT OF I. C. 001 YOU WILL NEED TO BRING THE I. C. OUT OF THE SET UP MODE. TO DO THIS YOU WILL REQUIRE THE REMOTE CONTROL HANDSET  
1) PRESS THE VCR RECORD BUTTONS BOTH TOGETHER. THESE ARE THE TWO BOTTOM OUTER BUTTONS ON THE HANDSET. THE MENU ON SCREEN WILL CHANGE TO READ  
VERSION 46 V1.0  
STANDARD I  
DEFAULT 0  
AFC MID  
2) PUT THE SET INTO STAND BY.



**Model: C2847TN COLOUR TV**

**Subject:** SERVICE INFORMATION  
**Fault:** "C46TN" OSD, AFTER REPLACING IC001  
3) SWITCH THE SET BACK ON FROM STAND BY. THE AUTO TUNE MENUE WILL APPEAR. THE SET MAY BE TUNED IN AS REQUIRED.



**Model: C2847TN COLOUR TV**

**Subject:** PART NUMBER CHANGES  
**Fault:** UPDATED I. C. 201 - TDA8362-N4  
**Symptom:** IC201 HAS BEEN CHANGED TO AN ISSUE 4 MASK.  
**Cause:** MASK CHANGE BY IC MANUFACTURER  
**Cure:** WHEN ORDERING THIS NEW VERSION OF IC201 USE PART NUMBER T900623. IF THIS IS TO REPLACE TYPE TDA8361, CHECK R523 IS 8K2 AND REPLACE AS NECESSARY. PART No 0700053.



Model: C2848TN 66cm Ni cam CTV

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY.  
Symptom: STUCK IN STANDBY.  
Cause: DRY JOINTS.  
Cure: CHECK PRINT AROUND PINS 9&10 OF  
L. O. P. T. (T701) FOR DRY JOINTS.  
NB: IN THIS CONDITION POWER GOOD LINE  
IS LOW AS, ALTHOUGH 14V IS PRESENT,  
VOLTAGE APPLIED TO PIN 5 OF IC954 IS  
LOWER THAN NORMAL, OWING TO PSU MODE.

Model: C2848TN 66cm Ni cam CTV

Subject: TUNING SELECTION  
Fault: CHANGE OF MICROPROCESSOR IC 001  
SECTION: SYS.  
CONDITION: 1  
Symptom: 185 SOFTWARE UPGRADE  
DEFECT: A  
REPAIR: A IC001 PT# T900721  
NOTE: X001 MUST BE CHANGED TO 4MHZ  
WITH VERSION 2 MICRO X001 PT# J2940661

Model: C2848TN 66cm Ni cam CTV

Subject: TELETEXT  
Fault: TELETEXT BRIGHTNESS LOW.  
Symptom: TELETEXT BRIGHTNESS LOW.  
Cause: TEXT BRIGHTNESS IS AFFECTED BY  
PICTURE CONTRAST AND BRIGHTNESS  
SETTINGS.  
Cure: IF CUSTOMER PREFERRED PICTURE  
SETTINGS LEAVE TEXT BRIGHTNESS LOW,  
THE FOLLOWING CHANGES MAY BE CARRIED  
OUT: - ..... SEE NEXT PAGE.  
(CONTD)  
INCREASE C805, C806 & C807 TO 470PF,  
PT. NO. 0890083.  
CHANGE R2203(2K2) & R2204(560R) TO  
1% RESISTORS.  
IF EXTRA BRIGHTNESS REQUIRED, CHANGE  
R2204 TO 680 OHMS. HOWEVER THIS SHOULD  
ONLY BE DONE AS A LAST RESORT. TEXT MAY  
BEND AT HIGH CONTRAST LEVELS.

Model: C2848TN 66cm Ni cam CTV

Subject: SERVICE INFORMATION  
Fault: C\*\*\*48TN- 311 APPEARS ON SCREEN  
Symptom: 'C\*\*\*48TN- 311' OSD APPEARS ON  
SCREEN  
Cause: SET IS IN FACTORY SET UP MODE

Cure: REMOVE THE FLAP AT BOTTOM OF THE  
REMOTE CONTROL AND PRESS TUNING BUTTON  
THEN PRESS THE MENU BUTTON. FINALLY GO  
TO STANDBY. WHEN YOU EXIT STANDBY MODE  
THE SET PROMPT WILL BE REMOVED.

Model: C2848TN 66cm Ni cam CTV

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF RESISTORS R2203 AND R2204  
Symptom: CHANGE OF TOLERANCE OF R2203  
AND R2204  
Cause: IMPROVEMENT  
Cure: CHANGE R2203(2K2) AND R2204  
(560R) TO 1% TOLERANCE.  
PART NUMBERS R2203 R232725  
R2204 R526725

Model: C2848TN 66cm Ni cam CTV

Subject: PART NUMBER CHANGES  
Fault: CHANGE OF PART NUMBER , T901  
SECTION: PSU  
CONDITION: 1  
Symptom: 185 T901 PT# CHANGED  
DEFECT: A  
REPAIR: A NEW PART # FOR T901 IS  
L380119

Model: C2848TN 66cm Ni cam CTV

Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR NOISE ON SECAM RECEPTION  
Symptom: COLOUR NOISE ON SECAM  
RECEPTION.  
Cause: LOW CHROMA SIGNAL  
Cure: REPLACE R356 WITH WIRE LINK

Model: C2856TN 66cm Ni cam

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: C2856TN 66cm Ni cam

Subject: TUNER/IF  
Fault: DISTORTED SOUND

# HITACHI

SECTION: IFC IF CIRCUIT  
CONDITION: 1  
Symptom: 532 AUDIO DISTORTED  
DEFECT: C MIS-ALIGNED L203  
REPAIR: C MONITOR SCART AUDIO &  
ADJUST L203 FOR

Model: C2856TN 66cm Ni cam

Subject: TUNER/IF  
Fault: DISTORTED SOUND  
CLEAR WAVE FORM

Model: C2856TN 66cm Ni cam

Subject: Y/C SIGNAL PROCESSING  
Fault: BLANK SCREEN AT SWITCH ON  
SECTION: CRT  
CONDITION: 1  
Symptom: 315 BLANK SCREEN  
DEFECT: Y  
REPAIR A CHANGE R896, R897 AND R898  
FROM 150R TO 220R. CONNECT A METER TO  
THE GREEN CATHODE AND ADJUST THE  
SCREEN CONTROL FOR A READING OF 147V.

Model: C2856TN 66cm Ni cam

Subject: AUDIO  
Fault: DISTORTED SOUND AT LOW VOLUME  
SECTION: APA  
CONDITION: 1  
Symptom: 532 DISTORTED SOUND  
DEFECT: Z  
REPAIR: A REMOVE J203 AND J204 AND  
REPLACE WITH 100R RESISTORS. DECOUPLE  
PINS 60 AND 61 OF IC400 WITH 10nF 50V

Model: C2856TN 66cm Ni cam

Subject: VERTICAL STAGE  
Fault: IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
Symptom: 316 HORIZONTAL LINE  
DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J



Model : C2856TN                      66cm Ni cam

Subject: TELETEXT  
Fault: IMPROVEMENT OF TEXT BREATHING  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 IMPROVEMENT OF TEXT  
BREATHING  
DEFECT: Y  
REPAIR: A REPLACE WIRE LINK IN  
POSITION R5 WITH 220R PT# J0700032M

Model : C2856TN                      66cm Ni cam

**Subject: PART NUMBER CHANGES**  
**Fault: CONTROL DOOR DAMAGED**  
**SECTION: CBT**  
**CONDITION: 1**  
**Symptom: 185 IMPROVEMENT**  
**DEFECT: D CONTROL DOOR DAMAGED**  
**REPAIR: A MODIFIED CONTROL DOOR PART #**  
**X263536 FOR C21/25/2856TN**

Model : C2856TN 66cm Ni cam

Subject: PART NUMBER CHANGES  
 Fault: CONTROL DOOR DAMAGED  
 PART # X263537 FOR C2186TN  
 NOTE. MODIFIED CONTROL DOOR HAS BEEN  
 FITTED FROM S/NO. U7K001101 ON C2156TN  
 U7K002601 ON C2556TN  
 U7L005601 ON C2186TN

Model : C2856TN                      66cm Ni cam

**Subject: PART NUMBER CHANGES**  
**Fault: CHANGE OF PART #, IR LED LENS**  
**SECTION: REM REMOTE SECTION**  
**CONDITION: 1**  
**Symptom: 185 MODIFIED IR LENS**  
**DEFECT: Y**  
**REPAIR: A PART # FOR MODIFIED IR LENS**  
**ISX425144**

Model : C2856TN                      66cm Ni cam

**Subject:** TUNER/IF/VIDEO  
**Fault:** DISTORTED SOUND FROM COLD  
**SECTION:** TUN  
**CONDITION:** 6  
**Symptom:** 532 DISTORTED AUDIO FROM COLD  
**DEFECT:** C L203 MIS-ALIGNED  
**REPAIR:** C CONNECT METER TO THE JUNC-

TION OF R225 AND R226. ON A GOOD SIGNAL  
ADJUST L203 FOR A READING OF 4.25V

Model: C2858TN COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY SHUTS DOWN/PULSING  
Symptom: SET CUTS OUT INTERMITTANTLY, OR  
PULSES FROM COLD  
Cause: OVER VOLTS UNIT CONDUCTING.  
Cure: CHECK/REPLACE 0C941, Q941, ZD941  
(REPLACE WITH HITACHI PARTS ONLY).

Model: C2858TN COLOUR TV

Subject: POWER SUPPLY  
Fault: INTERMITTANT TO STANDBY  
Symptom: SET INTERMITTANTLY GOES INTO  
STANDBY.  
Cause: RESISTORS VARY IN VALUE.  
Cure: CHECK / REPLACE THE FOLLOWING  
R719 220K 0.24W 1% TOL P/NO R252721  
R910 0.5 OHM 0.5W PART NO R000505  
R907 12 OHM 0.25W PART NO R112330  
R914 33 OHM 0.25W PART NO R313330

Model: C2858TN COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY PULSES AT SWITCH ON  
Symptom: SET PULSATES FROM SWITCH ON  
Cause: POWER SUPPLY NOT STARTING UP  
Cure: CHECK / REPLACE THE FOLLOWING  
R915 22R (21") 0.25W PART NO R212330  
R915 33R (25") 0.25W PART NO R313330  
C908 470uF 25V PART NUMBER 0800075  
D902 BYD33D PART NUMBER T431112

Model: C2858TN COLOUR TV

Subject: POWER SUPPLY  
Fault: INT SWITCHES ON FROM STANDBY  
Symptom: SET COMES OUT OF STAND BY OF  
ITS OWN ACCORD  
Cause: INTERFERENCE ON PROCESSOR DATA  
LINES  
Cure: REPLACE IC1501 PT NO T900553  
(THIS NEW IC DOES NOT INCLUDE THE  
TIMER FUNCTION)





Model : C2858TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET PULSES IN STANDBY  
**Symptom:** SET PULSES WHEN IN STANDBY  
MODE, OR FROM COLD SWITCH ON  
**Cause:** OVER VOLTS FEEDBACK FAULTY  
**Cure:** REPLACE THE FOLLOWING COMPONENTS  
R941, VR941, ZD941, OC941.

Model : C2858TN COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: Q702 FAILS AFTER A FEW HOURS**  
**Symptom: Q702 FAILS AFTER A FEW HOURS**  
**Cause: 12V RAIL LOW**  
**Cure: CHECK / REPLACE R932 OR15 WHICH**  
**MAY HAVE RISEN IN VALUE**

Model : C2858TN                      COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET PULSES FROM COLD SWITCH ON  
**Symptom:** WHEN SWITCHED ON FROM COLD  
THE SET PULSES SEVERAL TIMES BEFORE  
COMING ON.  
**Cause:** CAPACITORS DRYING OUT.  
**Cure:** CHECK / REPLACE C908 470uF 25V  
PART NUMBER J0800075, ALSO CHECK D907  
BYV10-40 PART NUMBER T531056 FOR OPEN  
CIRCUIT.

Model : C2858TN                      COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** PULSATING POWER SUPPLY.  
**Symptom:** SET DEAD, POWER SUPPLY PULSES  
 APPEARING TO TRY TO START UP.  
**Cause:** OPEN CIRCUIT RESISTOR.  
**Cure:** CHECK / REPLACE R944 47K 1W  
 PART NUMBER R447542

Model : C2858TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** PULSATING POWER SUPPLY  
**Symptom:** POWER SUPPLY PULSATES.  
**Cause:** FAULTY CAPACITOR  
**Cure:** CHECK / REPLACE C932 1000uF 16V



Model : C2858TN COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: POWER SUPPLY TRIPPING.**  
**Symptom: POWER SUPPLY TRIPPING.**  
**Cause: FAULTY REGULATOR, LOADING SUPPLY**  
**Cure: CHECK/REPLACE IC932.**  
**PT. NO. T900326.**

Model : C2858TN COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD.  
Symptom: SET DEAD.  
Cause: FAULTY DIODE.  
Cure: CHECK/REPLACE D907 LEAKY.  
PT. NO. T531056.

Model : C2858TN                      COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** SET COMES ON IN STANDBY.  
**Symptom:** WHEN SWITCHED ON THE SET IS  
 IN STANDBY. FROM STANDBY THE CONTROL  
 LEVELS ARE ALL AT ZERO, AND TELETEXT  
 IS INOPERATIVE. LEVELS NOT STORING  
**Cause:** OPEN CIRCUIT REGULATOR.  
**Cure:** CHECK / REPLACE IC2110 5V REG. ON  
 TELETEXT PCB. PART NUMBER T900345

Model : C2858TN COLOUR TV

**Subject:** TUNER/IF  
**Fault:** PATTERNING AFTER TUNER REPLACEMENT  
**SECTION:** TUN  
**CONDITION:** 1  
**Symptom:** 345 LINES ON PICTURE  
**DEFECT:** Y  
**REPAIR:** A REPLACE WIRE LINK IN VT  
 LINE TO TUNER WITH A 47K RESISTOR

Model : C2858TN COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** PATTERNING VISIBLE ON DARK SCENES  
**Symptom:** WAVY PATTERNING LINES, SEEN  
 IN THE BACKGROUND ON DARK SCENE OR IF  
 AV MODE IS SELECTED WITH NO INPUT.  
**Cause:** POOR CAPACITANCE AND/OR LINE  
 RADIATION.  
**Cure:** CHECK/ REPLACE Q701, Q702, T702  
 C931, 932, 933, 934, 935, 936, 720 AND R937

Model: C2858TN

COLOUR TV

Subject: AUDIO

Fault: ONE OR BOTH CHANNELS NOT WORKING  
CHECK IC451. CHANGE IF NECESSARY.  
CHECK THAT AN 8K2 RESISTOR IS ADDED IN  
SERIES WITH BOTH C4055 AND C4056 ON  
NICAM PWB ASSEMBLY.  
THESE RESISTORS HAVE BEEN ADDED IN  
PRODUCTION AFTER SERIAL NO U1J.....



Model: C2858TN

COLOUR TV

Subject: AUDIO

Fault: CRACKLE ON NICAM WHEN WARM  
Symptom: CRACKLE ON NICAM WHEN WARM  
Cause: FAULTY VARI CAP DIODE IC(CD) 4007  
Cure: CHECK/REPLACE IC(CD) 4007  
PT. NO. T532016.



Model: C2858TN

COLOUR TV

Subject: VERTICAL STAGE

Fault: FRAME TWITCHING.  
Symptom: FRAME TWITCHING.  
Cause: DRY JOINT.  
Cure: CHECK/RE-MAKE DRY JOINT AT C604.



Model: C2858TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: Q702 FAILS AFTER A FEW HOURS  
Symptom: Q702 FAILS AFTER A FEW HOURS  
Cause: 12V RAIL LOW  
Cure: CHECK / REPLACE R932 OR15 WHICH  
MAY HAVE RISEN IN VALUE



Model: C2858TN

COLOUR TV

Subject: TELETEXT

Fault: WILL NOT OPERATE ON BAMBOOZLE  
Symptom: WILL NOT OPERATE THE HEXI-  
DECIMAL CODED TELETEXT PAGES - E. G:  
BAMBOOZLE  
Cause: SOFTWARE DIFFERENCES.  
Cure: THIS MODELS CANNOT OPERATE ON  
HEXIDECIMAL TEXT PAGES. THEIR TEXT  
SYSTEM WAS DESIGNED PRIOR TO USE OF  
THESE PAGES, AND NO UPDATE AVAILABLE.



Model: C2858TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: MAINS ON/OFF SWITCH

TWO VERSIONS PRODUCTION CHANGE.

EARLY SWITCH = PT NO J2632501

LATER SWITCH = PT NO J2633391

CABINET (PT NO A777916) AND PCB

(PT NO A520830) CAN BE USED WITH

EITHER SWITCH

Model: C2858TN

COLOUR TV

Subject: PART NUMBER CHANGES

Fault: STAND ASSEMBLY HAS BEEN CHANGED

THE PART NUMBER FOR THE REPLACEMENT

STAND IS X711156. THE NEW STAND IS

COMPLETELY INTERCHANGEABLE WITH THE

ORIGINAL STAND

Model: C2862TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: PICTURE FLARING.

Symptom: PICTURE FLARING ON ALL  
COLOURS.

Cause: FAULTY RESISTOR.

Cure: CHECK/REPLACE RH17, 1K.  
PT. NO. SAL 610011901.

Model: C2862TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: NO COLOUR, NO TEXT OR SOUND

Symptom: NO COLOUR, TELRTEXT OR SOUND

Cause: FAULTY MEMORY IC ID03

Cure: REPLACE ID03 PART NUMBER  
SAL 646002601

Model: C2862TN

COLOUR TV

Subject: AUDIO

Fault: NO COLOUR, NO TEXT OR SOUND

Symptom: NO COLOUR, TELRTEXT OR SOUND

Cause: FAULTY MEMORY IC ID03

Cure: REPLACE ID03 PART NUMBER  
SAL 646002601

Model: C2862TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: E/W FAILURE / LOW WIDTH

**Symptom:** EAST WEST FAILURE, LOW WIDTH  
AND THE LINE OUTPUT TRANSISTOR GETS  
VERY HOT.  
**Cause:** POOR CAPACITANCE.  
**Cure:** CHECK / REPLACE CH09 150nF 250V  
PART NUMBER SAL 622027201

Model: C2862TN COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** FAILURE OF TH02 LINE TRANSISTOR  
SYMPOM LINE TRANSISTOR TH02 FAILS  
IMMEDIATELY ON SWITCH ON.  
**Cause:** LOW CAPACITORS.  
**Cure:** REPLACE TH02, CH07, CH08, CH10

Model: C2862TN COLOUR TV

**Subject:** TELETEXT  
**Fault:** NO COLOUR, NO TEXT OR SOUND  
**Symptom:** NO COLOUR, TELRTEXT OR SOUND  
**Cause:** FAULTY MEMORY IC ID03  
**Cure:** REPLACE ID03 PART NUMBER  
SAL 646002601

Model: C2864TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** BRIGHT RASTER, SET TRIPPING(1B197)  
**Symptom:** SCREEN GOES BRIGHT RED, GREEN  
OR BLUE  
**Cause:** RGB DRIVE FAULTY.  
**Cure:** REPLACE IC800 TYPE TEA5101A  
PART NUMBER T900509, ON CRT BASE PCB.

Model: C2864TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET TRIPS OUT(1B218)  
**Symptom:** SET DEAD, PSU PULSING.  
**Cause:** SHORT CIRCUIT / LEAKY CAPACITOR  
**Cure:** REMOVE NICAM PCB, THEN SWITCH  
SET BACK ON. IF PULSING STOPS AND SET  
NOW WORKS O. K. CHECK / REPLACE BOTH  
C4015 AND C4016 470nF PART No C457421

Model: C2864TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET CUTS OUT, SCREEN BRIGHT WHITE.  
**Symptom:** SET CUTS OUT INTERMITTANTLY,  
SCREEN FLARES BRIGHT WHITE.

# HITACHI

Cause: DRY JOINTS.  
Cure: REMOVE SOLDER FROM METAL SPRING  
CLIPS HOLDING IC800 HEAT SINK. CLEAN  
BARE METAL AND RESOLDER, ENSURING A  
GOOD CONTACT. IC800 MAY ALSO BE FAULY  
AND REQUIRE REPLACING PT/No T900509

Model: C2864TN COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSES FROM COLD, THEN COMES ON  
Symptom: WHEN SWITCHED ON FROM COLD  
THE SET PULSES. IF LEFT, ONCE LINE OUT  
TRANSISTOR GETS WARM, THE SET STARTS  
TO WORK.  
Cause: INTERMITTANT TRANSISTOR.  
Cure: REPLACE LINE OUTPUT TRANSISTOR  
Q703.

Model: C2864TN COLOUR TV

Subject: POWER SUPPLY  
Fault: SET PULSING / DEAD - D704 FAILS.  
Symptom: SET DEAD / PULSES, D704 FAILS  
AFTER REPLACING.  
Cause: SHORTED TURNS ON INDUCTOR.  
Cure: REPLACE L651 PART No J2220642.  
ALSO CHECK Q652 PART No T631275 AND  
Q651 PART No T636046.

Model: C2864TN COLOUR TV

Subject: POWER SUPPLY  
Fault: SET DEAD, STANDBY LIGHT PULSING  
Symptom: SET DEAD, NO PRIMARY START UP  
NO 300V ON Q901. STANDBY LIGHT IS  
PULSING  
Cause: DRY JOINTS  
Cure: CHECK / RESOLDER DRY JOINTS ON  
FERRITE BEADS FB910 AND FB911.

Model: C2864TN COLOUR TV

Subject: POWER SUPPLY  
Fault: POP OR BUZZ ON SWITCH OFF(TNZ ONLY)  
Symptom: WHEN SWITCHED OFF POP OR BUZZ  
THROUGH SPEAKERS, (TNZ VERSION ONLY).  
Cause: POOR REGULATION OF THE +30 VOLT  
SUPPLY LINE.  
Cure: REPLACE Q931 BD908 P# T636059.



Model: C2864TN COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: SQUEALING FROM SPEAKER IN STANDBY.**  
**Symptom: SQUEALING FROM SPEAKER IN**  
**STANDBY. (TNZ MODELS ONLY).**  
**Cause: FAULTY TRANSISTOR.**  
**Cure: REPLACE Q937. PT. NO. T631247.**

Model : C2864TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** CUT OUT ON CHANNEL CHANGE.  
**Symptom:** CUT OUT ON CHANNEL CHANGE.  
**Cause:** POOR REGULATION OF HT SUPPLY.  
**Cure:** CHECK/CHANGE D945.  
PT. NO. T531053.

Model: C2864TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** SET TRIPS AFTER EHT COMES ON.  
**Symptom:** SET TRIPS AFTER EHT COMES ON.  
 FRAME SCAN SOMETIMES OK.  
**Cause:** FAULTY MICRO.  
**Cure:** CHECK/REPLACE IC1001.  
 P.T. NO. T900552.

Model : C2864TN COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** SKEWED OR NO PICTURE (IB215)

**Symptom:** PICTURE SKEWS AT TOP WHEN ANY VIDEO TAPE IS PLAYED BACK.

**Cause:** INCORRECT CHANNEL IN USE

**Cure:** FOR CLEAR PLAYBACK VCR SHOULD BE CONNECTED EITHER VIA SCART, OR WHEN USING VIA R. F. CHANNELS 56-59 MUST BE USED.

Model : C2864TN COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** I. C 500 UPGRADE (IB267)

**Symptom:** IC500 HAS BEEN UPGRADED FROM MC44140 TO MC441409, PT/No T900558

**Cause:** ORIGINAL NO LONGER AVAILABLE.

**Cure:** FIT THE NEW VERSION OF I. C. 500.  
IT IS NOW NECESSARY TO CARRY OUT THE FOLLOWING CHANGES IF REPLACING THE OLD TYPE OF IC WITH THE NEW.

Model: C2864TN

COLOUR TV

Subject: TUNING SELECTION

Fault: I. C 500 UPGRADE (IB267)

1. CHANGE C504 AND C505 TO 100NF  
PT. NO C150877.
2. CHANGE C502 AND C503 TO 1U0  
PT. NO J0800003R
3. ON THE PRINT SIDE OF THE SIGNAL AND  
CONTROL PANEL ADD A 10NF CAPACITOR  
PT. NO C140877, FROM PIN 16 OF I. C  
500 TO GROUND.



Model: C2864TN

COLOUR TV

Subject: TUNING SELECTION

Fault: NO PICTURE ON INITIAL START UP  
FIT THE CHROMA 4 START UP PACK.  
PT. NO A530554

THE KIT SHOULD BE ADDED TO THE  
COMPONENT SIDE OF THE SIGNAL AND  
CONTROL PANEL.

THE PACK SHOULD CONTAIN ONE LM7805  
+5V REGULATOR, AND A 30MM LENGTH OF 22  
SWG WIRE.

THE PACK SHOULD BE FITTED AS FOLLOWS  
CONNECT PIN 1 OF THE REGULATOR TO J507  
PIN 2 TO J508 AND CONNECT THE LENGTH  
OF WIRE BETWEEN PIN 3 OF THE REGULATOR  
AND J113.



Model: C2864TN

COLOUR TV

Subject: TUNING SELECTION

Fault: INTERMITTANT TO STANDBY

Symptom: SET INTERMITTANTLY GOES TO  
STANDBY.

Cause: LEAKY DIODE.

Cure: CHECK / REPLACE D704  
PART NUMBER T431117



Model: C2864TN

COLOUR TV

Subject: TUNING SELECTION

Fault: INTERMITTANT TO STANDBY

Symptom: SET INTERMITTANTLY GOES TO  
STANDBY

Cause: FAULTY MICRO PROCESSOR.

Cure: REPLACE I. C. 1001 PT/No T900552  
TYPE ST6393







Model: C2864TN COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** NOT STORING DIRECT TUNING (IB272)  
**Symptom:** SET WILL STORE CHANNELS FOUND  
 BY SEARCH TUNE METHOD, BUT WILL NOT  
 STORE DIRECT DIALED CHANNELS.  
**Cause:** CORRUPTED DATA  
**Cure:** CHANGE MAIN MICRO IC1001.



Model: C2864TN COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** IC1001 PART NUMBER CORRECTION (TNZ)  
**Symptom:** THE PART NUMBER FOR IC1001  
ST6393 IS INCORRECT IN THE SERVICE  
MANUAL FOR THE C2564TNZ/C2864TNZ  
**Cause:** PRINTING ERROR  
**Cure:** THE CORRECT PART NUMBER IS  
T900552



Model : C2864TN COLOUR TV

**Subject: TUNING SELECTION**

**Fault: CAUTION WHEN CHANGING SIGNAL PANEL WHEN CHANGING THE SIGNAL AND CONTROL PCB YOU MUST CHECK FOR PLUG PL101. IF THIS PLUG IS FITTED THEN YOU MUST BE SURE THAT THE SPEAKER CROSSOVER PCB IS THE ACTIVE TYPE (3D AMP). IF THIS IS NOT DONE C105 WILL BE DAMAGED. PLUG PL101 IS LOCATED NEXT TO THE AUDIO HEATSINK AND C105. 3D AMP PCB PART NO. A521770**



Model : C2864TN COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** 'FACTORY 05' ON SCREEN PERMANENT

**Symptom:** ON SCREEN DISPLAY SHOWS THE  
MESSAGE 'FACTORY 05' PERMANENTLY

**Cause:** SET IS IN FACTORY SET UP MODE

**Cure:** WITHDRAW THE BOTTOM FLAP ON THE  
REMOTE HANDSET. PRESS THE TWO VCR  
RECORD BUTTONS SIMULTANEOUSLY, THEN GO  
TO STANDBY BY HANDSET. SWITCH BACK ON  
AND THE OSD MESSAGE WILL BE REMOVED



Model : C2864TN COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** CUT OUT ON CHANNEL CHANGE.  
**Symptom:** CUT OUT ON CHANNEL CHANGE.

Cause: POOR REGULATION OF HT SUPPLY.  
Cure: CHECK/CHANGE D945.  
PT. NO. T531053.

Model: C2864TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: SET DEAD/PULSING (IB262)  
Symptom: SET DEAD, PSU PULSING.  
Cause: OPEN CIRCUIT FUSE / LINK  
Cure: REPLACE FUSE F902 CHECK LINK J53  
FOR DRY JOINTS (WHERE FITTED)

Model: C2864TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
Symptom: IC501 P/No T900559 MC44000  
HAS BEEN UPDATED TO T900568 XC44001  
Cause: PRODUCTION CHANGES.  
Cure: IN LATER MODELS THIS VERSION HAS  
ALREADY BEEN FITTED AND DIRECT ONE FOR  
ONE REPLACEMENT CAN BE MADE. HOWEVER  
IF THE ORIGINAL I. C. IS MC44000 THEN  
THE FOLLOWING CHANGES MUST BE MADE. .  
DELETE THE FOLLOWING: R532, 537, 517, 543  
544, 545, & IF FITTED R591 SOLDERED  
BETWEEN THE LEGS OF C590. ALSO DELETE  
C527 & C530 AND IF FITTED GREEN LEAD  
TO THE E/W PCB  
ADD 100nF CAP INTO HOLES OF R517  
ADD A 4n7 CAPACITOR INTO THE HOLES FOR  
C530. ADD A 15mm LEAD FROM THE LEG. . .  
OF THIS CAPACITOR WHICH IS AT THE  
JUNCTION WITH C529 TO THE VACANT HOLE  
C527 AT ITS JUNCTION WITH R517.  
CHANGE R2110 TO 6K8 - THIS MAY BE IN  
POSITION MARKED J2110 ON THE PWB  
ALSO CHANGE THE FOLLOWING ACCORDING TO  
THE SCREEN SIZE. . . . .

Model: C2864TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: UPDATING OF I. C. 501 MASK.  
59 AND 66CM VERSIONS :  
R511 SHOULD BE CHANGED TO 7K5  
R546 SHOULD BE CHANGED TO 4K7  
51CM VERSIONS:  
R511 SHOULD BE CHANGED TO 10K  
R546 SHOULD BE CHANGED TO 5K6

.....  
WHEN ALL CHANGES HAVE BEEN MADE IT

WILL BE NECESSARY TO RE-SET AND STORE  
ALL GEOMETRY ADJUSTMENTS, DETAILS OF  
WHICH CAN BE FOUND IN THE TECHNICAL  
INFORMATION BOOKLET X830798

Model: C2864TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: FLASHING OR PULSATING PICTURE/PSU.

SYMPTOM FLASHING/PULSATING PICTURE/PSU

Cause: FAULTY CAPACITOR, CHANGED VALUE

Cure: CHECK/REPLACE C927, 470MF, 25V.  
PT. NO. C001541.

Model: C2864TN

COLOUR TV

Subject: AUDIO

Fault: SOUND 'BUMP' ON SWITCH ON (IB180)

Symptom: AN AUDIBLE 'BUMP' CAN BE  
HEARD FROM THE SET SPEAKERS ON SWITCH  
ON.

Cause: TIME CONSTANT OF SOUND MUTING.

Cure: CHANGE THE VALUE OF R146 TO 470R  
PART NUMBER 0700036

Model: C2864TN

COLOUR TV

Subject: VERTICAL STAGE

Fault: IC601 UPDATE.

Symptom: IC601 SUPPLIED IS DIFFERENT  
TYPE TO THAT SPECIFIED IN THE MANUAL.

Cause: ORIGINAL TYPE IS NOT AVAILABLE.

Cure: NEW TYPE, TDA8171, IS DIRECT  
EQUIVALENT TO ORIGINAL. PT. NO. T900556.  
NO OTHER CHANGES ARE NECESSARY.

Model: C2864TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: POOR GEOMETRY UPON SWITCH ON(1B185)

Symptom: PICTURE GEOMETRY INCORRECT  
WHEN FIRST SWITCHED ON.

Cause: MICRO NOT RESETING FULLY.

Cure: R1053 HAS BEEN ADDED FROM +12V  
SUPPLY TO PIN 1 OF IC1004. R1052 HAS  
BEEN ADDED FROM PIN 1 OF IC1004 TO  
GROUND. PIN 3 OF IC1004 GOES TO PIN 41  
OF IC1001.

Model: C2864TN

COLOUR TV

Subject: HORIZONTAL STAGE

# HITACHI

Fault: SET DEAD, BLOWS LINE OUT TRANSISTOR  
Symptom: SET DEAD. LINE OUTPUT  
TRANSISTOR FAILED. TRANSISTOR FAILS  
AGAIN AFTER REPLACEMENT.  
Cause: OPEN CIRCUIT CRYSTAL.  
CURE; CHECK / REPLACE X520

Model: C2864TN COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: RAGGED VERT/BLOWS L/OP TRANSISTOR  
Symptom: RAGGED VERTICLES, BLOWS LINE  
OUTPUT TRANSISTOR IF LEFT ON.  
Cause: OPEN CIRCUIT / LEAKY CAPACITOR  
Cure: CHECK / REPLACE C514 2u2 50V  
PART NUMBER 0800005R.

Model: C2864TN COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: SET PULSES FROM COLD, THEN COMES ON  
Symptom: WHEN SWITCHED ON FROM COLD  
THE SET PULSES. IF LEFT, ONCE LINE OUT  
TRANSISTOR GETS WARM, THE SET STARTS  
TO WORK.  
Cause: INTERMITTANT TRANSISTOR.  
Cure: REPLACE LINE OUTPUT TRANSISTOR  
Q703.

Model: C2864TN COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: NO EAST WEST CORRECTION (TNZ ONLY)  
Symptom: EAST WEST PARABOLA CANNOT BE  
ADJUSTED (ON TNZ VERSIONS ONLY)  
Cause: POSSIBLE STATIC DISCHARGE.  
Cure: REPLACE IC650 PART No T900572  
ADD A 12V ZENER FROM PIN 3 TO PIN 1 OF  
PLUG PL701 WITH THE ANODE TO PIN 1.  
ADD A 33V & 7V5 IN SERIES FROM PIN 2  
TO PIN 1 WITH THE ANODE TO PIN 1

Model: C2864TN COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: SET PULSING / DEAD - D704 FAILS.  
Symptom: SET DEAD / PULSES, D704 FAILS  
AFTER REPLACING.  
Cause: SHORTED TURNS ON INDUCTOR.  
Cure: REPLACE L651 PART No J2220642.  
ALSO CHECK Q652 PART No T631275 AND  
Q651 PART No T636046.

Model: C2864TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: ARCING AND TRIPPING.

Symptom: ARCING IN LINE OUTPUT AREA AT  
SWITCH ON, THEN TRIPPING. SET COMES ON  
AFTER A TIME.

Cause: FAULTY CAPACITOR.

Cure: REPLACE C710. (DECOUPLING 12 VOLT  
SUPPLY TO LINE DRIVER STAGE).  
PT. NO. 0800082

Model: C2864TN

COLOUR TV

Subject: TELETEXT

Fault: TELETEXT CORRUPTION (IB212)  
THERE IS A SLIGHT POSSIBILITY OF  
CORRUPTION OCCURRING WHEN VIEWING  
TELETEXT FROM A VIDEOCRYPT SATELLITE  
CHANNEL.

THIS CAN OCCUR ON THE 3RD LINE OF  
TELETEXT FROM THE TOP OF PAGES  
100-199.

THE BROADCASTING AUTHORITIES ARE  
INVESTIGATING THE MATTER IN  
CONJUNCTION WITH BREMA.

Model: C2864TN

COLOUR TV

Subject: TELETEXT

Fault: LINE JITTER ON TEXT WHEN COLD (IB21

Symptom: A LINE JITTER IS VISIBLE WHEN  
THE SET IS SWITCHED ON FROM COLD.

Cause: SYNC CORRUPTION FROM TEXT PCB

Cure: REPLACE IC2001 SAA5191  
PART NUMBER T900505

Model: C2864TN

COLOUR TV

Subject: TELETEXT

Fault: NO TELETEXT OPERATION

ENTER THE PROGRAMME MODE OF THE SET  
BY PRESSING AND HOLDING BOTH THE  
VOLUME + AND VOLUME - BUTTONS WHILE  
SWITCHING THE SET ON BY THE MAINS ON  
OFF SWITCH.

AFTER A FEW SECONDS, THE CHANNEL  
DISPLAY WILL GO OUT AND THE SCREEN  
PROMPT "SERVICE 05" WILL APPEAR.  
PULL DOWN THE FRONT COVER OF THE  
REMOTE CONTROL HANDSET TO REVEAL THE  
VCR CONTROLS

PRESS THE TWO RECORD BUTTONS TWICE.  
THIS WILL BRING UP THE "TUBE" MENU.  
PRESS THE TELETEXT BUTTON ON THE  
REMOTE HANDSET, AND THE WORDS "TEXT  
SERVICE MODE" WILL FLASH  
YOU CAN NOW ADJUST THE DATA CAPTURE  
WINDOW BY USING THE BLUE COLOURED  
BUTTONS ON THE REMOTE HANDSET  
IT IS RECOMENDED THAT YOU START BY  
PRESSING THE BOTTOM BLUE BUTTON. EACH  
TIME YOU PRESS THE BUTTON WILL MOVE  
THE ADJUSTMENT ONE "NOTCH". YOU MAY  
NEED TO PRESS THE BUTTON 7- 10 TIMES



Model: C2864TN

COLOUR TV

Subject: TELETEXT

Fault: NO TELETEXT OPERATION

WHEN THE TEXT CLOCK STARTS TO RUN  
NOTE THAT POSITION. THEN CONTINUE TO  
PRESS THE SAME BLUE BUTTON ON THE  
REMOTE HANDSET, NOTING THE NUMBER OF  
EXTRA PRESSES REQUIRED, UNTIL THE TEXT  
CLOCK STOPS ONCE AGAIN.

NOW USING THE UPPER BLUE BUTTON, MOVE  
THE SETTING HALFWAY BETWEEN THE TWO  
POINTS YOU HAVE JUST NOTED

I. E. IF THERE ARE EIGHT STEPS BETWEEN  
THE TWO POINTS AT WHICH THE TEXT CLOCK  
STOPS THEN PRESS THE UPPER BLUE BUTTON  
FOUR TIMES.

WHEN YOU HAVE REACHED THIS POINT THE  
TEXT SHOULD RUN NORMALLY. PRESS THE  
STORE BUTTON ON THE REMOTE HANDSET  
AND THEN GO TO STANDBY TO EXIT THE  
SERVICE MODE.

CONT. . . .

IF FOLLOWING THIS ADJUSTMENT THESE  
SETTINGS WILL NOT STORE, REPLACE

I. C. 2002 PART No E740007



Model: C2864TN

COLOUR TV

Subject: TELETEXT

Fault: TELETEXT LOSES WINDOW MEMORY

Symptom: NO TEXT, JUST 'P100' IN TOP

LEFT HAND SIDE OF SCREEN AND LOWER  
MENU PROMTS. AFTER ADJUSTING WINDOW  
SET LOSES MEMORY AGAIN AFTER TIME

Cause: MEMORY IC FAILURE

Cure: IF WINDOW ADJUSTMENT IS LOST

MORE THAN ONCE REPLACE IC2002 E740007  
AND CARRY OUT WINDOW ADJUSTMENT AGAIN



Model : C2864TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: SET NEEDS ADJUSTMENT - MALADJUSTED  
PUT SET INTO SERVICE MODE AS INDICATED  
BELOW:

1. PRESS VOL- & VOL+ BUTTONS ON THE  
FRONT CONTROL PANEL SIMULTANEOUSLY  
WHILST SWITCHING SET ON BY ON/OFF  
SWITCH.

2. WITHDRAW FLAP AT BOTTOM OF  
REMOTE CONTROL TO REVEAL VCR  
OPERATING BUTTONS.

PRESS THE TWO RECORD BUTTONS TWICE,  
THESE BUTTONS ARE IDENTIFIED BY A  
LINE CONNECTING THE TWO, AND THE  
FOLLOWING MENU WILL BE DISPLAYED:

VA	VB	PA	PT	VL
20	32	15	45	52
CC	HA	HB	VS	HS
22	28	39	47	28

TUBE10- TUBE MODE ABBREVIATIONS

VA- VERT AMPLITUDE /VB- VERT BREATHING  
CORRECTION/PA- PARABOLA AMPLITUDE/

PT- PARABOLA TINT/VL- VERT LIN. /

CC- CORNER CORECTION/HA- HORIZONTAL

AMP/HB- HORIZONTAL BREATHING

CORRECTION/VS- VERT SHIFT/

HS- HORIZONTAL PHASE CONTROL.

PRESSING F BUTTON ON HANDSET ALTERNATE  
BETWEEN TUBE & USER MENU.

USER MODE ABBREVIATIONS:

BI - BLUE RELATIVE INTENSITY/GI - GREEN

RELATIVE INTENSITY/RI - RED RELATIVE

INTENSITY/CN- CONTRAST/BR- BRIGHTNESS/

CL- COLOUR/HU- HUE/PK- PEAKING/IS- SYSTEM

I DAC VALUE/A2- NOT USED



Model : C2864TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: SET NEEDS ADJUSTMENT - MALADJUSTED  
3. BY PRESSING THE TEXT BUTTON ON  
HANDSET WHEN IN SERVICE MODE  
ADJUSTMENTS TO TEXT DISPLAY CAN BE  
PERFORMED.

4. GREEN BUTTONS ON HANDSET TEXT  
VERT SHIFT.

5. YELLOW BUTTONS ON HANDSET TEXT  
HORIZONTAL SHIFT.

6. TO EXIT SERVICE MODE PRESS  
MEMORY BUTTON, THEN GO TO STANDBY.



Model: C2864TN

COLOUR TV

Subject: SERVICE INFORMATION  
Fault: POOR GEOMETRY UPON SWITCH ON(1B185)  
Symptom: PICTURE GEOMETRY INCORRECT  
WHEN FIRST SWITCHED ON.  
Cause: MICRO NOT RESETING FULLY.  
Cure: R1053 HAS BEEN ADDED FROM +12V  
SUPPLY TO PIN 1 OF IC1004. R1052 HAS  
BEEN ADDED FROM PIN 1 OF IC1004 TO  
GROUND. PIN 3 OF IC1004 GOES TO PIN 41  
OF IC1001.



Model: C2864TN

COLOUR TV

Subject: SERVICE INFORMATION  
Fault: ON SCREEN DISPLAY JITTER (1B217)  
Symptom: ON SCREEN DISPLAY JITTER  
Cause: SYNC INSTABILITY  
Cure: CHANGE C1062 TO 4n7 P/No C437877



Model: C2864TN

COLOUR TV

Subject: SERVICE INFORMATION  
Fault: POSSIBLE CRT SPOT BURN (1B225)  
REPLACE LINK J800 ON CRT BASE WITH  
IN4004 DIODE (PT. NO. T431040), WITH THE  
CATHODE CONNECTED TO THE CATHODE OF  
ZD800.  
ADD C813A (PT. NO. E884110) IN PARALLEL  
WITH C813 ON THE CRT TUBE BASE. ADD THE  
PACK (PT. NO A520674) SPOT BURN PACK. FIT  
THIS TO THE SIGNAL/CONTROL PANEL AS  
FOLLOWS  
USE INSULATION TAPE TO ENSURE THAT  
COMPONENTS DO NOT TOUCH THE PCB  
FIT THE PACK TO THE PRINT SIDE OF THE  
PCB  
1. THE THREE DIODES SHOULD BE FITTED TO  
I) R527 AT THE JUNCTION WITH ZD504  
II) R528 AT THE JUNCTION WITH ZD505  
III) R529 AT THE JUNCTION WITH ZD503  
CONNECT THE FREE END OF THE RESISTOR  
TO R507 AT THE +5V END  
CONNECT THE FREE LEG OF THE TRANSISTOR  
TO THE GROUND END OF C508



Model: C2864TN

COLOUR TV

Subject: SERVICE INFORMATION  
Fault: TECH INFO MANUAL ERROR ON PL1503  
Symptom: TECHNICAL INFORMATION BOOK  
(PT NO X830798) ERROR  
Cause: PRINTING ERROR.



Cure: PAGE 22 SHOULD SHOW PL1503 PIN  
14 AS HORIZONTAL DRIVE, AND PL1503 PIN  
19 AS VERTICLE POSITION.

Model: C2864TN COLOUR TV

Subject: SERVICE INFORMATION  
Fault: 'FACTORY 05' ON SCREEN PERMANENT  
Symptom: ON SCREEN DISPLAY SHOWS THE  
MESSAGE 'FACTORY 05' PERMANENTLY  
Cause: SET IS IN FACTORY SET UP MODE  
Cure: WITHDRAW THE BOTTOM FLAP ON THE  
REMOTE HANDSET. PRESS THE TWO VCR  
RECORD BUTTONS SIMULTANEOUSLY, THEN GO  
TO STANDBY BY HANDSET. SWITCH BACK ON  
AND THE OSD MESSAGE WILL BE REMOVED

Model: C2864TN COLOUR TV

Subject: SERVICE INFORMATION  
Fault: CAUTION WHEN CHANGING SIGNAL PANEL  
WHEN CHANGING THE SIGNAL AND CONTROL  
PCB YOU MUST CHECK FOR PLUG PL101. IF  
THIS PLUG IS FITTED THEN YOU MUST BE  
SURE THAT THE SPEAKER CROSSOVER PCB IS  
THE ACTIVE TYPE (3D AMP). IF THIS IS  
NOT DONE C105 WILL BE DAMAGED.  
PLUG PL101 IS LOCATED NEXT TO THE  
AUDIO HEATSINK AND C105.  
3D AMP PCB PART NO. A521770

Model: C2864TN COLOUR TV

Subject: SERVICE INFORMATION  
Fault: PROBLEMS WITH REPLACEMENT CHASSIS.  
Symptom: PROBLEMS WHEN REPLACING  
SIGNAL PCB WITH PT. NO. A530450.  
Cause: REPLACEMENT PCB IS LATER  
VERSION (AS USED IN THE TNZ CHASSIS).  
Cure: CARRY OUT THE FOLLOWING CHANGES:  
1. CHANGE R515 TO 1K PT. NO. 0700041.  
2. DELETE R551, 180R, FROM Q500 COLLECTOR  
TO CHASSIS ON PRINT SIDE. SEE NEXT PAGE

Model: C2864TN COLOUR TV

Subject: SERVICE INFORMATION  
Fault: PROBLEMS WITH REPLACEMENT CHASSIS.  
3. FIT R513, 22K, PT. NO. 0700058, WHERE  
MARKED ON PCB.  
4. FIT ZD317, 9V1, PT. NO. T536229, IN  
POSITION MARKED ON PCB.  
5. FIT R366, 270R, 1W, PT. NO. R227542, IN

PLACE OF LINK IN R366 POSITION ON PCB.  
6. CUT PRINT AT PL1504 PIN9 AND LINK  
PRINT(NOT PIN) TO PL1504 PIN13, 12VOLTS.

SEE NEXT PAGE.

7. CHECK SPEAKER CROSSOVER PCB, UNDER  
RIGHT HAND SPEAKER, (FROM FRONT), IS  
ACTIVE TYPE, FITTED WITH IC190, TDA2009A  
IF NOT FIT ACTIVE TYPE. PT. NO. A521770.  
N. B. IF THIS IS NOT DONE, C105 WILL BE  
DAMAGED.

8. NOTE WIRE CONNECTIONS FROM NEW PCB  
AS FOLLOWS: -

SHORT, THICK BLUE/WHITE PAIR TO RH  
SPEAKER(FROM FRONT). SEE NEXT PAGE.  
LONG. THICK RED/BLUE PAIR TO LH SPEAKER  
(FROM FRONT).

4WAY BRO/RED/OR/BLU CABLE TO SPEAKER  
PLUG, PL100, ON SIGNAL PCB, NOTING  
COLOUR CODING.

SINGLE THIN YELLOW WIRE TO PL101 ON  
SIGNAL PCB, (POLARISATION UNIMPORTANT).

8. ON THE NICAM PCB CONFIRM THAT THE  
GATE CCT. OF IC 4011 HAS C4050, 100NF  
CONNECTED TO CHASSIS. SEE NEXT PAGE.  
CONFIRM ALSO THAT THE GATE CCT. OF  
IC4011 HAS A LINK TO PL4002 PIN7.  
CONFIRM THAT R4050, D4001 AND A BLACK  
FLYING LEAD TO R1046(ON THE MAIN PCB)  
ARE REMOVED.

9. MAKE SPEAKER CONNECTION FROM REAR  
SPEAKER CONNECTOR, PINS 1 & 2, INTO  
PL191 ON THE SPEAKER CROSSOVER PCB.



**Model: C2865TN**

**Colour tv**

**Subject:** POWER SUPPLY

**Fault:** INTERMITTANT GOES TO STANDBY

**Symptom:** INTERMITTANTLY GOES TO STAND  
BY, POSSIBLY ONLY WITH VCR PLAYBACK.

**Cause:** HT IS TOO HIGH

**Cure:** CHECK / REPLACE R952 68K. RESET  
HT LEVEL 146V +/- 0.2V ON POSITIVE LEG  
OF C701. THIS SETTING IS CRITICAL AND  
ONLY SETTING WITH A DIGITAL METER IS  
SUITABLE.



**Model: C2865TN**

**Colour tv**

**Subject:** POWER SUPPLY

**Fault:** SET STUCK IN STANDBY

**Symptom:** SET STUCK IN STANDBY.

**Cause:** SOUND OUTPUT IC SHORT CIRCUIT

**Cure:** DISCONNECT PIN 9 OF IC4451 TO  
SHOW THAT SET COMES ON. CHANGE IC4451

Model: C2865TN Colour tv

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY  
Symptom: SET GETS STUCK IN STANDBY  
MODE.  
Cause: FAULTY I. R. RECEIVER  
Cure: CHECK INPUT TO PIN 17 OF IC001.  
IF NO GO REPLACE IR RECEIVER. U001  
PART NUMBER: T549010

Model: C2865TN Colour tv

Subject: TUNING SELECTION  
Fault: "NO MODEL SET UP" AFTER IC001 CHANGE  
Symptom: "NO MODEL SET UP" O. S. D. IS  
DISPLAYED FOLLOWING REPLACEMENT OF  
I. C. 001.  
Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.  
Cure: TO EXIT THE SET UP MODE YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET.  
..... (CONT)  
1) PULL DOWN THE FLAP ON THE HANDSET  
TO REVEAL THE VCR CONTROLS. PRESS THE  
TWO VCR RECORD BUTTONS SIMULTANEOUSLY.  
THE ON SCREEN MENU WILL CHANGE  
VERSION 1D (CANNOT BE ALTERED)  
STANDARD I (IF NOT I PRESS BUTTON 9)  
DFAULT 0 (DO NOT ALTER)  
AFC HIGH (CANNOT BE ALTERED)  
2) PRESS THE STORE BUTTON ON THE HAND  
SET.  
3) PUT THE T. V. INTO STANDBY FROM THE  
HANDSET.  
4) SWITCH THE SET ON AGAIN. THE SET  
WILL NOW ENTER THE AUTO TUNE MENU, AND  
MAY BE TUNED IN AS REQUIRED.

Model: C2865TN Colour tv

Subject: TUNING SELECTION  
Fault: 'NO MODEL SET UP' CANNOT BE REMOVED  
Symptom: O. S. D. PROMPT 'NO MODEL SET  
UP' CANNOT BE REMOVED USING NORMAL  
METHOD.  
Cause: DRY JOINT.  
Cure: CHECK FOR DRY JOINT ON CRYSTAL  
X001 ON PINS 31 & 32 OF IC001.



Model : C2865TN

Colour tv

**Subject: TUNING SELECTION**

**Fault: STUCK IN STANDBY**

**Symptom: SET GETS STUCK IN STANDBY MODE.**

**Cause: FAULTY I. R. RECEIVER**

**Cure:** CHECK INPUT TO PIN 17 OF IC001.  
IF NO GO REPLACE IR RECEIVER. U001  
PART NUMBER: T549010



Model : C2865TN

Col our tv

**Subject: TUNER/I F**

**Fault: LOCK OUT/BLANK SCREEN ON UHF CH26**

**Symptom:** WHEN TUNED TO UHF CHANNEL 26  
ONLY A BLANK SCREEN IS OBTAINED.

**Cause: TUNER LOCKS UP.**

**Cure: REPLACE TUNER UNIT E710029**



Model : C2865TN

Colour tv

**Subject: TUNER/I F**

**Fault: PICTURE FLICKER - BLACK LINES**

**Symptom:** FLICKERING BLACK LINES CAN BE SEEN ACROSS THE PICTURE.

**Cause:** I N T E R M I T T A N T T U N E R U N I T

**Cure: REPLACE TUNER UNIT PT/No E710029**



Model : C2865TN

Colour tv

**Subject: Y/C SIGNAL PROCESSING**

**Fault: LOW CONTRAST- POSSIBLE TRIPPING.**

**Symptom:** LOW CONTRAST. POSSIBLE  
TRIPPING. CHANGES WITH PICTURE CONTENT.

**Cause: FAULTY RESISTOR.**

**Cure:** CHECK/REPLACE R728, 68K, 0. 25W.  
PT. NO. R648330.



Model : C2865TN

Colour tv

**Subject: AUDIO**

**Fault: VOLUME TOO HIGH AT MINIMUM SETTING**

**Symptom:** CUSTOMER COMPLAINS THAT THE  
VOLUME IS TOO HIGH AT MINIMUM VOLUME  
SETTING (NOT MUTE)

**Cure: VOLUME LEVELS CAN BE REDUCED BY CHANGING THE FOLLOWING**

**R1325 FROM 5K6 TO 2K7 PT/NO 0700046**

R1320 FROM 68K TO 47K PT/NO 0700063

**R1324 FROM 5K6 TO 2K7 PT/N0 0700046**

**R1321 FROM 68K TO 47K PT/NO 0700063**





Model : C2865TN

Col our tv

**Subject: AUDIO**

**Fault: SET STUCK IN STANDBY**

**Symptom:** SET STUCK IN STANDBY.

**Cause:** SOUND OUTPUT IC SHORT CIRCUIT

**Cure:** DISCONNECT PIN 9 OF IC4451 TO  
SHOW THAT SET COMES ON. CHANGE IC4451  
TYPE TDA7283M PART NO 2020012



Model : C2865TN

Colour tv

**Subject: AUDIO**

**Fault: NO NICAM SOUND**

**Symptom:** NO NICAM SOUND, SET STUCK IN MONO.

**Cause: FAULTY MICRO PROCESSOR.**

**Cure:** CHECK PINS 19 & 20 OF IC001.THEY  
SHOULD READ 3.8V MONO AND 0.1V NICAM  
IF STUCK AT 6-7V PERMANENTLY CHANGE  
CHANGE IC001 PT No A523817



Model : C2865TN

Col our tv

**Subject: AUDIO**

**Fault:** DISTORTED / LOW SOUND. ALL CHANNELS.

**Symptom: DISTORTED / LOW SOUND ALL CHANNELS.**

**Cause: FAULTY TRANSISTOR.**

**Cure:** CHECK/REPLACE Q443. TYPE BC558B.  
PT. NO. T631276. CAUSING PARTIAL MUTE.



Model : C2865TN

Colour tv

**Subject: AUDI 0**

**Fault: DISTORTED AND/OR LOW AUDIO.**

**Symptom: DISTORTED AND/OR LOW AUDIO.**

**Cause:** FAULTY TRANSISTOR.

**Cure: CHECK/REPLACE Q443.  
PT. NO. T631276.**



Model : C2865TN

Colour tv

**Subject: VERTICAL STAGE**

**Fault: LOW HEIGHT.**

**Symptom:** LOW HEIGHT.

**Cause: FAULTY CAPACITOR.**

**Cure:** CHECK/REPLACE C701, 100MF, 200V.  
PT. NO. 0253491.





Model : C2865TN

Colour tv

**Subject: HORIZONTAL STAGE**

**Fault: LACK OF WIDTH ON SWITCH ON**

**Symptom:** LACK OF WIDTH WHEN SWITCHED ON FROM COLD

**Cause: CAPACITORS CHANGE VALUE**

**Cure:** CHECK / REPLACE C758 100uF 31.5V  
PART NO 0800052 AND C753 10uF 50V  
PART NO J0800018R



Model : C2865TN

Colour tv

**Subject: HORIZONTAL STAGE**

**Fault:** DEAD SET, D706 FAILS REGULARLY.

**Symptom: SET DEAD, D706 FAILS SHORTLY AFTER REPLACEMENT.**

**Cause: DRY JOINTS**

**Cure:** RESOLDER DRY JOINTS ON EDGE CONNECTORS E180, 181 BETWEEN SIGNAL AND POWER PCB. RESOLDER D/J ON R610. CHECK THOROUGHLY AROUND THE FRAME IC. IC601 AND CLOSE PROXIMITY COMPONENTS FOR D/J



Model : C2865TN

Colour tv

**Subject: HORIZONTAL STAGE**

**Fault: E/W CIRCUIT FAILED.**

**Symptom:** E/W CIRCUIT FAILED, CONTROL ACTS MORE LIKE WIDTH CONTROL.

**Cause: LEAKY TRANSISTORS.**

**Cure: CHECK/REPLACE Q601 PT. NO. T631288  
AND Q603 PT. NO. T631275.  
ALSO CHECK FOR DRY JOINTS IN FRAME  
STAGE.**



Model : C2865TN

Colour tv

**Subject: TELETEXT**

**Fault t: TELETEXT BECOMES MISPOSITIONED**

**Symptom:** TELETEXT IS MISSPOSITIONED  
I. E. MOVED OVER TO ONE SIDE OR UP INTO  
ONE CORNER OF SCREEN.

**Cause: MEMORY FAILURE**

**Cure: REPLACE MICRO-PROCESSOR I. C. 001  
AND MEMORY I. C. 002 WITH KIT :  
PART NUMBER- A523817**



Model : C2865TN

## Colour tv

**Subject: TELETEXT**

**Fault t: NOT STORING SUB PAGE ON CNN ON SKY.**

**Symptom:** NOT STORING SUB PAGE ON CNN

FROM SKY SATELLITE

Cause: PRINTING ERROR.

Cure: 30 SECONDS SHOULD BE ALLOWED  
AFTER ENTERING SUB PAGES BEFORE  
ACCESSING BY USING THE SUB PAGE ACCESS  
BUTTON.

Model: C2865TN

Colour tv

Subject: SERVICE INFORMATION

Fault: "NO MODEL SET UP" AFTER IC001 CHANGE

Symptom: "NO MODEL SET UP" O. S. D. IS  
DISPLAYED FOLLOWING REPLACEMENT OF  
I. C. 001.

Cause: WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.

Cure: TO EXIT THE SET UP MODE YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET.

..... (CONT)

- 1) PULL DOWN THE FLAP ON THE HANDSET  
TO REVEAL THE VCR CONTROLS. PRESS THE  
TWO VCR RECORD BUTTONS SIMULTANEOUSLY.  
THE ON SCREEN MENU WILL CHANGE  
VERSION 1D (CANNOT BE ALTERED)  
STANDARD I (IF NOT I PRESS BUTTON 9)  
DFAULT 0 (DO NOT ALTER)  
AFC HIGH (CANNOT BE ALTERED)
- 2) PRESS THE STORE BUTTON ON THE HAND  
SET.
- 3) PUT THE T. V. INTO STANDBY FROM THE  
HANDSET.
- 4) SWITCH THE SET ON AGAIN. THE SET  
WILL NOW ENTER THE AUTO TUNE MENU, AND  
MAY BE TUNED IN AS REQUIRED.

Model: C2865TN

Colour tv

Subject: SERVICE INFORMATION

Fault: LINE O/P TRANSFORMER DRAWING WRONG.

Symptom: LINE OUTPUT TRANSFORMER  
DRAWING IN SERVICE MANUAL INCORRECT.

Cause: PRINTING ERROR.

Cure: WINDING FROM PIN 1 SHOULD BE  
CONNECTED TO PIN 2. DELETE CONNECTION  
TO PIN 9.

Model: C2866TN

66CM NICAM (EXCLUSIVE) SEE2846

Subject: POWER SUPPLY

Fault: INTERMITTANT GOES TO STANDBY

Symptom: SET INTERMITTANTLY REVERTS TO  
'STANDBY' OR CUTS OUT.

Cause: DRY JOINTS

Cure: CHECK IC951 AND IC952 FOR DRY  
JOINTS AND RESOLDER AS NECESSARY.

Model: C2866TN 66CM NICAM (EXCLUSIVE) SEE2846

Subject: POWER SUPPLY  
Fault: LOSS OF COLOUR & INTERMITTENT TRIP.  
Symptom: LOSS OF COLOUR & INTERMITTENT  
TRIP.  
Cause: ZENER DIODE.  
REPLACE ZD002. 5.1v ZENER.  
PART NO. T536174

Model: C2866TN 66CM NICAM (EXCLUSIVE) SEE2846

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY.  
Symptom: STUCK IN STANDBY.  
Cause: DRY JOINTS ON IC 952.  
Cure: CHECK/RE-SOLDER JOINTS ON IC952.  
SEE ALSO FAULT NUMBER 497.

Model: C2866TN 66CM NICAM (EXCLUSIVE) SEE2846

Subject: TUNING SELECTION  
Fault: CHANNEL IDENT APPEARS IN VCR PLAY  
Symptom: WHEN PLAYING BACK RECORDINGS  
OF OFF AIR PROGRAMMES, THE CHANNEL  
IDENT APPEARS INTERMITTANTLY.  
Cause: PACKET 830 IDENTIFICATION BY  
MICRO PROCESSOR.  
Cure: CHANGE I. C. 001 PT. No T900644.  
N. B. . VCR PLAYBACK MUST BE VIA SCART TO  
PREVENT RE-OCCURENCE OF SYMPTOMS.

Model: C2866TN 66CM NICAM (EXCLUSIVE) SEE2846

Subject: TUNING SELECTION  
Fault: NO ON SCREEN GRAPHICS.  
Symptom: NO ON SCREEN GRAPHICS, BUT  
FUNCTIONS STILL OPERATE. I. E. VOL. ETC.  
Cause: HORIZONTAL PULSE MISSING FROM  
IC001 PIN26.  
Cure: CHECK/REPLACE ZD002, PT. NO.  
T536174.

Model: C2866TN 66CM NICAM (EXCLUSIVE) SEE2846

Subject: Y/C SIGNAL PROCESSING  
Fault: APPEARANCE OF NICAM INDICATOR  
Symptom: ERRATIC APPEARANCE OF THE  
NICAM SYMBOLS USUALLY UPON SCENE





**CHANGES FROM LIGHT TO DARK.**  
Cause: SHORT CIRCUIT ON NICAM I. C.  
Cure: CHECK FOR SHORT CIRCUIT OF PINS  
24 & 25 OF I. C. 4201. IF S/C EXISTS  
REMOVE.

Model: C2866TN 66CM NI CAM (EXCLUSIVE) SEE2846

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** DIAGONAL PATTERNING ON LOW SIGNAL  
**Symptom:** DIAGONAL COLOURED LINES IN  
 LOW SIGNAL CONDITIONS.  
**Cause:** NICAM INTERFERENCE  
**Cure:** REPLACE FERRITE BEADS FB005, 6, 7  
 & 8 WITH 10uH COIL PART No J2122239.  
 MOVE THE POSITION OF C4235 TO THE I.C.  
 SIDE OF FB005 SO THE IT IS NOW AT THE  
 JUNCTION OF FB005 AND PIN 3 OF IC4201

Model : C2866TN 66CM NI CAM (EXCLUSIVE) SEE2846

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** LOSS OF COLOUR & INTERMITTENT TRIP.  
**Symptom:** LOSS OF COLOUR & INTERMITTENT TRIP.  
**Cause:** ZENER DIODE.  
 REPLACE ZD002. 5.1v ZENER.  
 PART NO. T536174

Model: C2866TN 66CM NI CAM (EXCLUSIVE) SEE2846

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** NO BLUE SIGNAL.  
**Symptom:** NO BLUE SIGNAL.  
**Cause:** OPEN CIRCUIT CAPACITOR.  
**Cure:** CHECK/REPLACE C516.  
 PT. NO. 0880057R.

**Model : C2866TN                      66CM NI CAM (EXCLUSIVE)    SEE2846**

**Subject:** AUDIO  
**Fault:** APPEARANCE OF NICAM INDICATOR  
**Symptom:** ERRATIC APPEARANCE OF THE  
NICAM SYMBOLS USUALLY UPON SCENE  
CHANGES FROM LIGHT TO DARK.  
**Cause:** SHORT CIRCUIT ON NICAM I. C.  
**Cure:** CHECK FOR SHORT CIRCUIT OF PINS  
24 & 25 OF I. C. 4201. IF S/C EXISTS  
REMOVE.



Model: C2866TN      66CM NI CAM (EXCLUSIVE) SEE2846

**Subject:** AUDIO  
**Fault:** RANDOM APPEARANCE OF NICAM SYMBOLS  
**Symptom:** RANDOM APPEARANCE OF NICAM  
 SYMBOLS. ALSO SOUND "POPPING".  
**Cause:** DRY JOINTS ON IC951 & IC952.  
**Cure:** RE-MAKE JOINTS ON IC951 & IC952.  
 SEE ALSO FAULT NO. 515.

Model: C2866TN 66CM NI CAM (EXCLUSIVE) SEE2846

**Subject:** AUDIO  
**Fault:** NO AUDIO, NICAM OR FM  
**Symptom:** NO AUDIO, NICAM OR FM  
 FM AUDIO GOING INTO IC4201 PIN 7.  
**Cause:** FAULTY MEMORY IC.  
**Cure:** CHANGE IC 002. PT. NO. E730045.

Model: C2866TN 66CM NI CAM (EXCLUSIVE) SEE2846

**Subject:** VERTICAL STAGE  
**Fault:** FLYBACK LINES AT TOP OF PICTURE  
**Symptom:** FLYBACK LINES VISIBLE AT THE  
TOP OF THE PICTURE.  
**Cause:** FAULTY FRAME I. C.  
**Cure:** REPLACE FRAME IC601 TYPE TA8427K  
PART NUMBER J2003951

Model: C2866TN 66CM NI CAM (EXCLUSIVE) SEE2846

**Subject:** SERVICE INFORMATION

**Fault:** NO TUNING/ MAX. AUDIO NOT POSSIBLE.

**Symptom:** NO TUNING, MAX. AUDIO NOT POSSIBLE.

**Cause:** TV IN PSEUDO HOTEL MODE.

**Cure:** PRESS/HOLD VOL+/- ON TV FRONT AND SWITCH SET ON AT FRONT. PRESS 2 VCR REC BUTTONS ON REMOTE. CHECK FOR "H" AT LOWER RIGHT OF MENU. IF PRESENT, DELETE USING - / - - BUTTON. THEN GO TO STANDBY.

**Model: C2867TN                      28" Ni cam (Exclusive)**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** SPOT BURN-IMPROVEMENT  
**SECTION:** APR LUMINANCE PROCESSING  
**CONDITION:** 1  
**Symptom:** 385 IMPROVEMENT OF SPOT BURN  
**DEFECT:** Y  
**REPAIR:** A TO IMPROVE SPOT BURN, R593  
IS CHANGED FROM 10K TO 22K



**Model : C2867TN                      28" Ni cam (Exclusive)**

**Subject:** PART NUMBER CHANGES  
**Fault:** CHANGE OF PART NUMBER , T901  
**SECTION:** PSU  
**CONDITION:** 1  
**Symptom:** 185 T901 PT# CHANGED  
**DEFECT:** A  
**REPAIR:** A NEW PART # FOR T901 IS  
 L380119

Model : C2867TN 28" Ni cam (Exclusive)

Subject: TUNER/IF/VIDEO  
Fault: CHANGE OF COMPOSITE VIDEO LEVEL  
SECTION: IFC  
CONDITION: 1  
Symptom: 185 CHANGE OF COMP. VIDEO LEVEL  
DEFECT: Y  
REPAIR: A CHANGE R505 FROM 270R TO  
220R. PART # J0700032M

Model: C2867TN2      28" Ni cam - DSG Exclusive

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** IMPROVEMENT OF PICTURE SATURATION  
**SECTION:** CPA  
**CONDITION:** 1  
**Symptom:** 185 IMPROVEMENT OF SATURATION  
**DEFECT:** Y  
**REPAIR:** A CHANGE ZD501, ZD502 AND ZD503  
 FROM 5V1 TO 8V2 ZENER PT# T536186

Model: C2868TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** INT SWITCHES ON FROM STANDBY  
**Symptom:** SET COMES OUT OF STAND BY OF ITS OWN ACCORD  
**Cause:** INTERFERENCE ON PROCESSOR DATA LINES  
**Cure:** REPLACE IC1501 PT NO T900553 (THIS NEW IC DOES NOT INCLUDE THE TIMER FUNCTION)

Model: C2868TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** PULSATING POWER SUPPLY.  
**Symptom:** SET DEAD, POWER SUPPLY PULSES  
 APPEARING TO TRY TO START UP.  
**Cause:** OPEN CIRCUIT RESISTOR.  
**Cure:** CHECK / REPLACE R944 47K 1W

Model: C2868TN COLOUR TV

Subject: POWER SUPPLY  
Fault: POWER SUPPLY TRIPPING.  
Symptom: POWER SUPPLY TRIPPING.  
Cause: FAULTY REGULATOR, LOADING SUPPLY  
Cure: CHECK/REPLACE IC932.  
PT. NO. T900326.

Model: C2868TN COLOUR TV

Subject: TUNER/IF  
Fault: PATTERNING AFTER TUNER REPLACEMENT  
SECTION: TUN  
CONDITION: 1  
Symptom: 345 LINES ON PICTURE  
DEFECT: Y  
REPAIR: A REPLACE WIRE LINK IN VT  
LINE TO TUNER WITH A 47K RESISTOR

Model: C2868TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: PATTERNING VISIBLE ON DARK SCENES  
Symptom: WAVY PATTERNING LINES, SEEN  
IN THE BACKGROUND ON DARK SCENE OR IF  
AV MODE IS SELECTED WITH NO INPUT.  
Cause: POOR CAPACITANCE AND/OR LINE  
RADIATION.  
Cure: CHECK/ REPLACE Q701, Q702, T702  
C931, 932, 933, 934, 935, 936, 720 AND R937

Model: C2868TN COLOUR TV

Subject: AUDIO  
Fault: ONE OR BOTH CHANNELS NOT WORKING  
CHECK IC451. CHANGE IF NECESSARY.  
CHECK THAT AN 8K2 RESISTOR IS ADDED IN  
SERIES WITH BOTH C4055 AND C4056 ON  
NICAM PWB ASSEMBLY.  
THESE RESISTORS HAVE BEEN ADDED IN  
PRODUCTION AFTER SERIAL NO U1J.....

Model: C2868TN COLOUR TV

Subject: VERTICAL STAGE  
Fault: FRAME TWITCHING.  
Symptom: FRAME TWITCHING.  
Cause: DRY JOINT.  
Cure: CHECK/RE-MAKE DRY JOINT AT C604.

Model: C2868TN

COLOUR TV

Subject: SERVICE INFORMATION

Fault: SERVICE MANUAL ERRORS

SERVICE MANUAL X830731 PAGE 5 SHOWS  
IF BOARD AND IC301 CONNECTIONS GOING  
TO SCART 1 IN TWO PLACES (TOP LEFT AND  
TOP RIGHT OF CIRCUIT). THESE  
CONNECTIONS SHOULD GO TO PL302 AS  
FOLLOWS: -

IF BOARD A1L TO PL302 PINS 17 & 4

A1R TO PL302 PIN 2

AOL TO PL302 PIN 18, AOR1 TO  
PL302 PIN3, VIDEO OUT TO PL302 PIN 6  
IC301 PIN 1 TO PL302 PIN 7 (VIDEO IN)  
PIN 9 TO PL302 PIN 9 (FAST

BLANKING)

PIN 16 TO PL302 PIN 10 (RED), PIN 2 TO  
PL302 PIN 13 (GREEN), PIN 8 TO PL302  
PIN15 (BLUE).

PL302 PIN 16 TO D304 ANODE

Model: C2874TN

COLOUR TV

Subject: POWER SUPPLY

Fault: INTERMITTANT GOES TO STANDBY

Symptom: INTERMITTANTLY GOES TO STAND  
BY, POSSIBLY ONLY WITH VCR PLAYBACK.

Cause: HT IS TOO HIGH

Cure: CHECK / REPLACE R952 68K. RESET  
HT LEVEL 146V +/- 0.2V ON POSITIVE LEG  
OF C701. THIS SETTING IS CRITICAL AND  
ONLY SETTING WITH A DIGITAL METER IS  
SUITABLE.

Model: C2874TN

COLOUR TV

Subject: POWER SUPPLY

Fault: SET STUCK IN STANDBY

Symptom: SET STUCK IN STANDBY.

Cause: SOUND OUTPUT IC SHORT CIRCUIT

Cure: DISCONNECT PIN 9 OF IC4451 TO  
SHOW THAT SET COMES ON. CHANGE IC4451  
TYPE TDA7283M PART NO 2020012

Model: C2874TN

COLOUR TV

Subject: POWER SUPPLY

Fault: STUCK IN STANDBY

Symptom: SET GETS STUCK IN STANDBY  
MODE.

Cause: FAULTY I. R. RECEIVER



**Cure:** CHECK INPUT TO PIN 17 OF IC001.  
IF NO GO REPLACE IR RECEIVER. U001  
PART NUMBER: T549010

Model: C2874TN COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** "NO MODEL SET UP"

**Symptom:** WHEN SWITCHED ON THE O. S. D. SHOWS THE PROMPT "NO MODEL SET UP"

**Cause:** THE SET IS IN FACTORY SET UP MODE.

**Cure:** USING THE REMOTE HANDSET, PRESS THE TWO VCR RECORD BUTTONS TOGETHER. PRESS THE STORE BUTTON, THEN GO TO STANDBY.

Model: C2874TN COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** "CL. . . 74TAN-351" OSD PROMPT

**Symptom:** AFTER REPLACING MICRO PROCESS  
I. C. 001 THE OSD PROMPT "CL. . 74TAN-351"  
APPEARS AND THE SET CANNOT BE TUNED IN

**Cause:** SET IS IN SET UP MODE.

**Cure:** USING REM/CONTROL FIRST PRESS THE  
TWO VCR RECORD BUTTONS, THEN PRESS THE  
MEMORY BUTTON, AND FINALLY GO TO STAND  
BY. SWITCH ON AGAIN AND TUNE IN.

Model: C2874TN COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** "NO MODEL SET UP" AFTER IC001 CHANGE

**Symptom:** "NO MODEL SET UP" O. S. D. IS  
DISPLAYED FOLLOWING REPLACEMENT OF  
I. C. 001.

**Cause:** WHEN FIRST USED THE I. C. WILL  
ENTER THE SET UP MODE.

**Cure:** TO EXIT THE SET UP MODE YOU WILL  
REQUIRE THE REMOTE CONTROL HANDSET.

..... (CONT)

Model : C2874TN      COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** "NO MODEL SET UP" AFTER IC001 CHANGE

1) PULL DOWN THE FLAP ON THE HANDSET TO REVEAL THE VCR CONTROLS. PRESS THE TWO VCR RECORD BUTTONS SIMULTANEOUSLY. THE ON SCREEN MENU WILL CHANGE

VERSION 1D (CANNOT BE ALTERED)

STANDARD I (IF NOT I PRESS BUTTON 9)

# HITACHI

DFAULT 0 (DO NOT ALTER)  
AFC HIGH (CANNOT BE ALTERED)  
2) PRESS THE STORE BUTTON ON THE HAND  
SET.  
3) PUT THE T. V. INTO STANDBY FROM THE  
HANDSET.  
4) SWITCH THE SET ON AGAIN. THE SET  
WILL NOW ENTER THE AUTO TUNE MENU, AND  
MAY BE TUNED IN AS REQUIRED.



## Model: C2874TN COLOUR TV

Subject: TUNING SELECTION  
Fault: SET LOCKS UP, NO FUNCTIONS OPERATE  
Symptom: THE SET LOCKS UP, NO REMOTE  
OPERATION OR OTHER FUNCTIONS . SWITCH  
OFF THE SET TO RELEASE.  
Cause: CORRUPTION TO DATA LINES.  
Cure: CHECK / REPLACE IC4604 TDA9860  
PART NUMBER J2020002.



## Model: C2874TN COLOUR TV

Subject: TUNING SELECTION  
Fault: CHANGE OF MICRO- PROCESSOR  
Symptom: I. C. 001 MICRO PROCESSOR HAS  
BEEN CHANGED.  
Cause: PRODUCTION CHANGES.  
Cure: WHEN REPLACING I. C. 001 ORDER KIT  
PART NUMBER A523817. THIS WILL INCLUDE  
I. C. 001 AND I. C. 002, THESE SHOULD BE  
FITTED AS A PAIR TO ENSURE COORECT  
OPERATION.



## Model: C2874TN COLOUR TV

Subject: TUNING SELECTION  
Fault: ' NO MODEL SET UP' CANNOT BE REMOVED  
Symptom: O. S. D. PROMPT ' NO MODEL SET  
UP' CANNOT BE REMOVED USING NORMAL  
METHOD.  
Cause: DRY JOINT.  
Cure: CHECK FOR DRY JOINT ON CRYSTAL  
X001 ON PINS 31 &32 OF IC001.



## Model: C2874TN COLOUR TV

Subject: TUNING SELECTION  
Fault: SPEAKER LEVELS NOT MEMORISED  
Symptom: SPEAKER LEVELS NOT MEMORISED.  
Cause: FAULTY MICROPROCESSOR.  
Cure: REPLACE IC001 & IC002 WITH KIT  
PT. NO. A523817.

Model: C2874TN COLOUR TV

Subject: TUNING SELECTION  
Fault: STUCK IN STANDBY  
Symptom: SET GETS STUCK IN STANDBY  
MODE.  
Cause: FAULTY I. R. RECEIVER  
Cure: CHECK INPUT TO PIN 17 OF IC001.  
IF NO GO REPLACE IR RECEIVER. U001  
PART NUMBER: T549010

Model: C2874TN COLOUR TV

Subject: TUNER/IF  
Fault: LOCK OUT/BLANK SCREEN ON UHF CH26  
Symptom: WHEN TUNED TO UHF CHANNEL 26  
ONLY A BLANK SCREEN IS OBTAINED.  
Cause: TUNER LOCKS UP.  
Cure: REPLACE TUNER UNIT E710029

Model: C2874TN COLOUR TV

Subject: TUNER/IF  
Fault: NO SOUND OR PICTURE- BLANK RASTER  
Symptom: NO SOUND OR PICTURE, JUST A  
BLANK RASTER.  
Cause: FAULTY TUNER  
Cure: FIT NEW TUNER UNIT PT/No E710029

Model: C2874TN COLOUR TV

Subject: TUNER/IF  
Fault: PICTURE FLICKER - BLACK LINES  
Symptom: FLICKERING BLACK LINES CAN BE  
SEEN ACROSS THE PICTURE.  
Cause: INTERMITTANT TUNER UNIT  
Cure: REPLACE TUNER UNIT PT/No E710029

Model: C2874TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: "NO MODEL SET UP"  
Symptom: WHEN SWITCHED ON THE O. S. D.  
SHOWS THE PROMPT "NO MODEL SET UP"  
Cause: THE SET IS IN FACTORY SET UP  
MODE.  
Cure: USING THE REMOTE HANDSET, PRESS  
THE TWO VCR RECORD BUTTONS TOGETHER.  
PRESS THE STORE BUTTON, THEN GO TO  
STANDBY.



Model: C2874TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: VERTICLE GREEN LINES ON SCREEN

Symptom: ON DARK SCENES A FAINT GREEN  
BAR MAY BE SEEN ON THE PICTURE.

Cause: CHROMA LEVELS TOO HIGH.

Cure: ADJUST VR501 TO REMOVE THE BAR,  
TAKE CARE NOT TO REDUCE TOO FAR.  
IF THIS DOES NOT CURE. REPLACE DELAY  
LINE DL501 PT NO 2164051.

Model: C2874TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: COLOUR LOSS WITH PRE- REC TAPES

Symptom: COLOUR LOSS WHEN VIEWING  
PRE- RECORDED VIDEO TAPES

Cause: MACRO PROTECTION DIFFICULTIES

Cure: CHANGE R515 FROM 47K TO 150K  
CHANGE R516 FROM 47K TO 180K  
CHANGE R563 FROM 10K TO 56K  
CHANGE C525 FROM 47NF TO 10NF  
CHANGE C526 FROM 33NF TO 1NF

Model: C2874TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: COLOUR LOSS WITH PRE- REC TAPES

THIS MODIFICATION HAS BEEN CARRIED OUT  
IN PRODUCTION FROM SERIAL NUMBERS  
STARTING U4F.....

Model: C2874TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: "CL. . . . 74TAN- 351" OSD PROMPT

Symptom: AFTER REPLACING MICRO PROCESS  
I. C. 001 THE OSD PROMPT "CL. . 74TAN- 351"  
APPEARS AND THE SET CANNOT BE TUNED IN

Cause: SET IS IN SET UP MODE.

Cure: USING REM/CONTROL FIRST PRESS THE  
TWO VCR RECORD BUTTONS, THEN PRESS THE  
MEMORY BUTTON, AND FINALLY GO TO STAND  
BY. SWITCH ON AGAIN AND TUNE IN.

Model: C2874TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: HORIZONTAL BLACK LINES ON PICTURE.

Symptom: HORIZONTAL BLACK LINES ON

PICTURE.  
Cause: FAULTY CAPACITOR.  
Cure: REPLACE C103. 10NFD. AGC LINE.  
PART NO. 0800015.

Model: C2874TN COLOUR TV  
Subject: Y/C SIGNAL PROCESSING  
Fault: LOW CONTRAST- POSSIBLE TRIPPING.  
Symptom: LOW CONTRAST. POSSIBLE  
TRIPPING. CHANGES WITH PICTURE CONTENT.  
Cause: FAULTY RESISTOR.  
Cure: CHECK/REPLACE R728, 68K, 0. 25W.  
PT. NO. R648330.

Model: C2874TN COLOUR TV  
Subject: AUDIO  
Fault: NO AUDIO FROM REAR SPEAKERS  
Symptom: NO AUDIO FROM REAR SPEAKERS  
WHEN A KNOWN DOLBY SOURCE IS PLAYED IN  
VCR.  
Cause: VCR INCORRECTLY SET  
Cure: BY USING THE CH1/CH2 BUTTON ON  
THE VCR HANDSET ENSURE THAT BOTH AUDIO  
CHANNELS ARE SWITCHED ON ON THE VCR. IF  
ONE IS OFF REAR SPKRS WILL NOT WORK.  
STEREO SIGNAL IS NOT AVAILABLE

Model: C2874TN COLOUR TV  
Subject: AUDIO  
Fault: DOLBY PCB COMPATIBILITY  
WHEN REPLACING THE DOLBY PCB PART NO  
A530580 AND/OR THE AUDIO SUB PCB PART  
NO A530590 IT MAY BE NECESSARY TO  
REPLACE R4675 WITH PACK A523756 OR  
VICE VERSA REPLACE PACK WITH R4675  
PART NO 0700027 100R  
THE REPLACEMENT PCBS WILL CONTAIN ONE  
OR THE OTHER.  
CONT. . . .  
THE FOLLOWING TABLE SHOWS HOW THE PCBS  
MATCH UP BY ISSUE NO AND ANY MODS YOU  
MAY HAVE TO CARRY OUT.  
MOD A = REPLACE PACK WITH R4675  
MOD B = REPLACE R4675 WITH PACK  
NUMBER UNDER PCBS ARE ISSUE NUMBERS  
WHICH CAN BE FOUND ON THE PCBS  
AUDIO SUB DOLBY ASSY MODIFY  
PC382 PC376 DOLBY  
PRE ISSUE 3 FROM ISSUE 4 A  
FROM ISSUE 3 PRE ISSUE 4 B

Model: C2874TN

COLOUR TV

Subject: AUDIO

Fault: VOLUME TOO HIGH AT MINIMUM SETTING

Symptom: CUSTOMER COMPLAINS THAT THE  
VOLUME IS TOO HIGH AT MINIMUM VOLUME  
SETTING (NOT MUTE)

Cure: VOLUME LEVELS CAN BE REDUCED BY  
CHANGING THE FOLLOWING

R1325 FROM 5K6 TO 2K7 PT/NO 0700046

R1320 FROM 68K TO 47K PT/NO 0700063

R1324 FROM 5K6 TO 2K7 PT/NO 0700046

R1321 FROM 68K TO 47K PT/NO 0700063

Model: C2874TN

COLOUR TV

Subject: AUDIO

Fault: LOUD BUZZ ON LEFT AND RIGHT SPEAKER

Symptom: A VERY LOUD BUZZ IS HEARD ON  
THE LEFT AND RIGHT SPEAKERS WHEN IN  
DOLBY, MATRIX & HALL MODES. THIS IS  
REMOVED WHEN IN OFF POSITION.

Cause: DECODER FAULT

Cure: REPLACE I. C. 4603 ON DOLBY PCB  
TYPE: KM4164D PART NUMBER T900573

Model: C2874TN

COLOUR TV

Subject: AUDIO

Fault: SET STUCK IN STANDBY

Symptom: SET STUCK IN STANDBY.

Cause: SOUND OUTPUT IC SHORT CIRCUIT

Cure: DISCONNECT PIN 9 OF IC4451 TO  
SHOW THAT SET COMES ON. CHANGE IC4451  
TYPE TDA7283M PART NO 2020012

Model: C2874TN

COLOUR TV

Subject: AUDIO

Fault: NO NICAM SOUND

Symptom: NO NICAM SOUND, SET STUCK IN  
MONO.

Cause: FAULTY MICRO PROCESSOR.

Cure: CHECK PINS 19 & 20 OF IC001. THEY  
SHOULD READ 3.8V MONO AND 0.1V NICAM  
IF STUCK AT 6-7V PERMANENTLY CHANGE  
CHANGE IC001 PT No A523817

Model: C2874TN

COLOUR TV

Subject: AUDIO



**Fault:** HISS ON SPEAKERS.  
**Symptom:** HISS ON SPEAKERS, BUT TV NOT IN  
 SPEAKER SET UP MODE.  
**Cause:** NOISEY ZENER DIODE ZD4402.  
**Cure:** REPLACE ZD4402 TYPE BZX79C4V3  
 P#T536213. ZD4402 IS LOCATED ON PIN 1  
 OF IC4451 ON THE SIGNAL PCB.

Model: C2874TN COLOUR TV

**Subject:** AUDIO  
**Fault:** AUDIO FLUCTUATING.  
**Symptom:** AUDIO LEVEL FLUCTUATING AND  
SUB PSU FLUCTUATING.  
**Cause:** FAULTY IC.  
**Cure:** CHECK/REPLACE IC 4902.  
PT. NO. T900523.

Model: C2874TN COLOUR TV

**Subject: AUDIO**  
**Fault: DISTORTED / LOW SOUND. ALL CHANNELS.**  
**Symptom: DISTORTED / LOW SOUND ALL CHANNELS.**  
**Cause: FAULTY TRANSISTOR.**  
**Cure: CHECK/REPLACE Q443. TYPE BC558B.**  
**PT. NO. T631276. CAUSING PARTIAL MUTE.**

Model: C2874TN COLOUR TV

**Subject: AUDIO**  
**Fault: DISTORTED AND/OR LOW AUDIO.**  
**Symptom: DISTORTED AND/OR LOW AUDIO.**  
**Cause: FAULTY TRANSISTOR.**  
**Cure: CHECK/REPLACE Q443.**  
**PT. NO. T631276.**

Model: C2874TN COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** PINCUSSION DISTORTION  
**SYMPTOM :** PINCUSSION DISTORTION  
**CAUSE :** POOR SOLDER CONNECTION  
**Cure:** RESOLDER DRY JOINTS ON C614

Model : C2874TN COLOUR TV

**Subject:** VERTICAL STAGE  
**Fault:** LOW HEIGHT.  
**Symptom:** LOW HEIGHT.  
**Cause:** FAULTY CAPACITOR.  
**Cure:** CHECK/REPLACE C701, 100MF, 200V.

PT. NO. 0253491.

Model: C2874TN

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: LACK OF WIDTH ON SWITCH ON  
Symptom: LACK OF WIDTH WHEN SWITCHED  
ON FROM COLD  
Cause: CAPACITORS CHANGE VALUE  
Cure: CHECK / REPLACE C758 100uF 31.5V  
PART NO 0800052 AND C753 10uF 50V  
PART NO J0800018R

Model: C2874TN

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: DEAD SET, D706 FAILS REGULARLY.  
Symptom: SET DEAD, D706 FAILS SHORTLY  
AFTER REPLACEMENT.  
Cause: DRY JOINTS  
Cure: RESOLDER DRY JOINTS ON EDGE  
CONNECTORS E180, 181 BETWEEN SIGNAL AND  
POWER PCB. RESOLDER D/J ON R610. CHECK  
THOROUGHLY AROUND THE FRAME I.C. IC601  
AND CLOSE PROXIMITY COMPONENTS FOR D/J

Model: C2874TN

COLOUR TV

Subject: HORIZONTAL STAGE  
Fault: E/W CIRCUIT FAILED.  
Symptom: E/W CIRCUIT FAILED, CONTROL  
ACTS MORE LIKE WIDTH CONTROL.  
Cause: LEAKY TRANSISTORS.  
Cure: CHECK/REPLACE Q601 PT. NO. T631288  
AND Q603 PT. NO. T631275.  
ALSO CHECK FOR DRY JOINTS IN FRAME  
STAGE.

Model: C2874TN

COLOUR TV

Subject: TELETEXT  
Fault: TELETEXT BECOMES MISPOSITIONED  
Symptom: TELETEXT IS MISPOSITIONED  
I. E. MOVED OVER TO ONE SIDE OR UP INTO  
ONE CORNER OF SCREEN.  
Cause: MEMORY FAILURE  
Cure: REPLACE MICRO-PROCESSOR I. C. 001  
AND MEMORY I. C. 002 WITH KIT :  
PART NUMBER- A523817

## Model: C2874TN COLOUR TV

**Subject:** TELETEXT  
**Fault:** NOT STORING SUB PAGE ON CNN ON SKY.  
**Symptom:** NOT STORING SUB PAGE ON CNN  
 FROM SKY SATELLITE  
**Cause:** PRINTING ERROR.  
**Cure:** 30 SECONDS SHOULD BE ALLOWED  
 AFTER ENTERING SUB PAGES BEFORE  
 ACCESSING BY USING THE SUB PAGE ACCESS  
 BUTTON.



## Model: C2874TN COLOUR TV

**Subject:** SERVICE INFORMATION  
**Fault:** DOLBY PCB COMPATIBILITY  
 WHEN REPLACING THE DOLBY PCB PART NO  
 A530580 AND/OR THE AUDIO SUB PCB PART  
 NO A530590 IT MAY BE NECESSARY TO  
 REPLACE R4675 WITH PACK A523756 OR  
 VICE VERSA REPLACE PACK WITH R4675  
 PART NO 0700027 100R  
 THE REPLACEMENT PCBS WILL CONTAIN ONE  
 OR THE OTHER.

CONT. . . .



## Model: C2874TN COLOUR TV

**Subject:** SERVICE INFORMATION  
**Fault:** DOLBY PCB COMPATIBILITY  
 THE FOLLOWING TABLE SHOWS HOW THE PCBS  
 MATCH UP BY ISSUE NO AND ANY MODS YOU  
 MAY HAVE TO CARRY OUT.  
 MOD A = REPLACE PACK WITH R4675  
 MOD B = REPLACE R4675 WITH PACK  
 NUMBER UNDER PCBS ARE ISSUE NUMBERS  
 WHICH CAN BE FOUND ON THE PCBS  

AUDIO SUB	DOLBY ASSY	MODIFY
PC382	PC376	DOLBY
PRE ISSUE 3	FROM ISSUE 4	A
FROM ISSUE 3	PRE ISSUE 4	B



## Model: C2874TN COLOUR TV

**Subject:** SERVICE INFORMATION  
**Fault:** "NO MODEL SET UP" AFTER IC001 CHANGE  
**Symptom:** "NO MODEL SET UP" O. S. D. IS  
 DISPLAYED FOLLOWING REPLACEMENT OF  
 I. C. 001.  
**Cause:** WHEN FIRST USED THE I. C. WILL  
 ENTER THE SET UP MODE.  
**Cure:** TO EXIT THE SET UP MODE YOU WILL  
 REQUIRE THE REMOTE CONTROL HANDSET.

. . . . . (CONT)



1) PULL DOWN THE FLAP ON THE HANDSET TO REVEAL THE VCR CONTROLS. PRESS THE TWO VCR RECORD BUTTONS SIMULTANEOUSLY. THE ON SCREEN MENU WILL CHANGE

VERSION	1D (CANNOT BE ALTERED)
STANDARD	I (IF NOT I PRESS BUTTON 9)
DEFAULT	0 (DO NOT ALTER)
AFC	HIGH (CANNOT BE ALTERED)

Model : C2874TN                      COLOUR TV

**Subject: SERVICE INFORMATION**

**Fault: "NO MODEL SET UP" AFTER IC001 CHANGE**

- 2) PRESS THE STORE BUTTON ON THE HAND SET.**
- 3) PUT THE T. V. INTO STANDBY FROM THE HANDSET.**
- 4) SWITCH THE SET ON AGAIN. THE SET WILL NOW ENTER THE AUTO TUNE MENU, AND MAY BE TUNED IN AS REQUIRED.**

Model : C2874TN                      COLOUR TV

**Subject:** SERVICE INFORMATION  
**Fault:** PART No IC320 CORRECTION TO S/MAN  
**Symptom:** THE PART NUMBER FOR I. C. 320  
IS INCORRECT IN THE SERVICE MANUAL.  
**Cause:** PRINTING ERROR.  
**Cure:** THE CORRECT PART NUMBER FOR  
I. C. 320 TYPE No TDA8128 IS  
T900576

Model : C2874TN                      COLOUR TV

**Subject:** SERVICE INFORMATION  
**Fault:** LINE O/P TRANSFORMER DRAWING WRONG.  
**Symptom:** LINE OUTPUT TRANSFORMER  
DRAWING IN SERVICE MANUAL INCORRECT.  
**Cause:** PRINTING ERROR.  
**Cure:** WINDING FROM PIN 1 SHOULD BE  
CONNECTED TO PIN 2. DELETE CONNECTION  
TO PIN 9.

Model : C2874TN COLOUR TV

**Subject: SERVICE INFORMATION**  
**Fault: ZD4903/4/5/6, SERVICE MANUAL ERROR.**  
**Symptom: ZENER DIODE INFORMATION IN**  
**MANUAL INCORRECT.**  
**Cause: PRINTING ERROR.**  
**Cure: ZD4903, ZD4904, ZD4905 & ZD4906**  
**ARE SHOWN AS BZX793V3. SHOULD BE**  
**BZX79C4V7.**

PT. NO. IS T536213.

Model: C2874TN

COLOUR TV

Subject: PART NUMBER CHANGES

Fault: CHANGE OF MICRO-PROCESSOR

Symptom: I. C. 001 MICRO PROCESSOR HAS  
BEEN CHANGED.

Cause: PRODUCTION CHANGES.

Cure: WHEN REPLACING I. C. 001 ORDER KIT  
PART NUMBER A523817. THIS WILL INCLUDE  
I. C. 001 AND I. C. 002, THESE SHOULD BE  
FITTED AS A PAIR TO ENSURE COORECT  
OPERATION.

Model: C2874TN

COLOUR TV

Subject: PART NUMBER CHANGES

Fault: PART No IC320 CORRECTION TO S/MAN

Symptom: THE PART NUMBER FOR I. C. 320  
IS INCORRECT IN THE SERVICE MANUAL.

Cause: PRINTING ERROR.

Cure: THE CORRECT PART NUMBER FOR  
I. C. 320 TYPE No TDA8128 IS  
T900576

Model: C2875TN

COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD OR INTERMITTANT DEAD  
REPLACE R919, R920, R931, R932, AND  
C912

Model: C2875TN

COLOUR TV

Subject: Y/C SIGNAL PROCESSING

Fault: VERY DIM PICTURE

Symptom: PICTURE IS VERY DARK, IMAGE  
BARELY VISIBLE.

Cause: COMPONENTS GO LEAKY

Cure: CHECK / REPLACE D808 IN4148 PART  
NUMBER T531053 AND C831 PART NUMBER  
0252945 47uF 16V

Model: C2876TN

COLOUR TV

Subject: POWER SUPPLY

Fault: STUCK IN STANDBY.

Symptom: STUCK IN STANDBY.

Cause: FAULTY ZENER DIODE.

Cure: CHECK/REPLACE ZD958,  
PT. NO. T536235.



Model: C2876TN COLOUR TV

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY  
Symptom: STUCK IN STANDBY.  
Cause: FAULTY IC AND DIODES.  
Cure: CHECK/REPLACE IC601, PT. NO. T900642  
AND D718 AND D719, PT. NO. T431113.

Model: C2877TN COLOUR TV

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY.  
Symptom: STUCK IN STANDBY.  
Cause: FAULTY ZENER DIODE.  
Cure: CHECK/REPLACE ZD958,  
PT. NO. T536235.

Model: C2877TN COLOUR TV

Subject: POWER SUPPLY  
Fault: STUCK IN STANDBY  
Symptom: STUCK IN STANDBY.  
Cause: FAULTY IC AND DIODES.  
Cure: CHECK/REPLACE IC601, PT. NO. T900642  
AND D718 AND D719, PT. NO. T431113.

Model: C2886TN 28" Pro-logic

Subject: TUNING SELECTION  
Fault: CHANGE OF MEMORY IC002  
SECTION: SYS  
CONDITION: 1  
Symptom: 185 CHANGE OF IC002  
DEFECT: 1 UPDATED SOFTWARE  
REPAIR A PT# E730188

Model: C2886TN 28" Pro-logic

Subject: Y/C SIGNAL PROCESSING  
Fault: BLANK SCREEN AT SWITCH ON  
SECTION: CRT  
CONDITION: 1  
Symptom: 315 BLANK SCREEN  
DEFECT: Y  
REPAIR A CHANGE R896, R897 AND R898  
FROM 150R TO 220R. CONNECT A METER TO  
THE GREEN CATHODE AND ADJUST THE  
SCREEN CONTROL FOR A READING OF 147V.



Model: C2886TN 28" Pro-logic

**Subject: AUDIO**  
**Fault: DISTORTED SOUND AT LOW VOLUME**  
**SECTION: APA**  
**CONDITION: 1**  
**Symptom: 532 DISTORTED SOUND**  
**DEFECT: Z**  
**REPAIR: A REMOVE J203 AN J204 AND**  
**REPLACE WITH 100R RESISTORS. DECOUPLE**  
**PINS 60 AND 61 OF IC400 WITH 10nF 50V**



Model : C2886TN                      28" Pro-logic

**Subject:** VERTICAL STAGE  
**Fault:** IC 601 FAILURE  
SECTION: DFL FRAME DEFLECTION  
CONDITION: 1  
**Symptom:** 316 HORIZONTAL LINE  
DEFECT: A  
REPAIR: A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J



Model : C2886TN                      28" Pro-logic

Subject: TELETEXT  
Fault: IMPROVEMENT OF TEXT BREATHING  
SECTION: TXT  
CONDITION: 1  
Symptom: 286 IMPROVEMENT OF TEXT  
BREATHING  
DEFECT: Y  
REPAIR: A REPLACE WIRE LINK IN  
POSITION R5 WITH 220R PT# J0700032M



Model: C2886TN      28" Pro-logic

**Subject:** TUNER/IF/VIDEO  
**Fault:** DISTORTED SOUND FROM COLD  
SECTION: TUN  
CONDITION: 6  
**Symptom:** 532 DISTORTED AUDIO FROM COLD  
DEFECT: C L203 MIS-ALIGNED  
REPAIR: C CONNECT METER TO THE JUNC-  
TION OF R225 AND R226. ON A GOOD SIGNAL  
ADJUST L203 FOR A READING OF 4.25V



Model: C2976TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** INTERMITTENT CUT OUT.  
**Symptom:** INTERMITTENT CUT OUT.



**Cause:** DAMAGED PRINT.  
**Cure:** CHECK/REPAIR DAMAGED PRINT AT CATHODE OF DIODE PACK D512, ENSURING THAT TRACK IS CONTINUOUS FROM R563 (NOT IC501 PIN 14 END) TO D512 CATHODE.

Model: C2976TN COLOUR TV

**Subject:** POWER SUPPLY  
**Fault:** STUCK IN STANDBY.  
**Symptom:** STUCK IN STANDBY.  
**Cause:** FAULTY ZENER DIODE.  
**Cure:** CHECK/REPLACE ZD958,  
PT. NO. T536235.

Model: C2976TN COLOUR TV

**Subject: POWER SUPPLY**  
**Fault: STUCK IN STANDBY**  
**Symptom: STUCK IN STANDBY.**  
**Cause: FAULTY IC AND DIODES.**  
**Cure: CHECK/REPLACE IC601, PT. NO. T900642**  
**AND D718 AND D719. PT. NO. T431113.**

Model: C2976TN COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** STUCK IN STANDBY  
**Symptom:** SET STUCK IN STANDBY, WILL NOT COME ON FROM REMOTE CONTROL OR FRONT BUTTONS.  
**Cause:** DRY JOINTS.  
**Cure:** CHECK / RESOLDER DRY JOINTS ON C015 BETWEEN PIN 18 AND 15 OF IC001. ALSO CHECK FOR DRY JOINTS ON SHIELD PLATE OF IC201.

Model: C2976TN      COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** PART NUMBER FOR I. C. 002  
**Symptom:** THE PART NUMBER FOR I. C. 002  
GIVEN IN THE PRELIMINARY MANUAL IS  
INCORRECT.  
**Cause:** PRINTING ERROR.  
**Cure:** DELETE PART NUMBER T900668. THE  
CORRECT PART NUMBER FOR I. C. 002 IS  
SCANDINAVIA: E730160  
EUROPE & UK: E730138



Model : C2976TN                      COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** REMOTE CONTROL LOCK UP.  
**Symptom:** REMOTE CONTROL LOCK UP.  
 REMOVE BATTERIES AND SHORT CIRCUIT  
 REMOTE CONTROL TERMINALS.  
**Cause:** LOW OR POOR BATTERIES.  
**Cure:** USE ALKALINE BATTERIES IN  
 REMOTE CONTROL.

Model : C2976TN                      COLOUR TV

**Subject:** TUNING SELECTION

**Fault:** 'C\*\*\*76TN-311' OSD APPEARS ON SCREEN

**Symptom:** THE OSD PROMPT 'C\*\*\*76TN-311' APPEARS ON SCREEN ON SWITCH ON

**Cause:** SET IS IN SERVICE MODE

**Cure:** PRESS THE ESC BUTTON UNDER THE BOTTOM FLAP OF THE REMOTE CONTROL. THEN GO TO STANDBY. WHEN THE SET IS BROUGHT OUT OF STANDBY THE PROMPT WILL HAVE BEEN REMOVED.

Model : C2976TN                      COLOUR TV

**Subject:** TUNING SELECTION  
**Fault:** LOCKS UP IN TEXT MODE & OSD CORRUPT  
**Symptom:** WHEN SWITCHING IN AND OUT OF  
TELETEXT MODE THE SET LOCKS UP. THE OSD  
CORRUPTS INTERMITTANT. CAN ONLY BE  
RESET BY SWITCH OFF AT MAINS SWITCH  
**Cause:** CORRUPTED MEMORY.  
**Cure:** REPLACE IC002 WITH NEW VERSION  
SCANDINAVIA: E730160  
EUROPEAN: E730138

Model: C2976TN COLOUR TV

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** INTERMITTENT CUT OUT.  
**Symptom:** INTERMITTENT CUT OUT.  
**Cause:** DAMAGED PRINT.  
**Cure:** CHECK/REPAIR DAMAGED PRINT AT  
 CATHODE OF DIODE PACK D512, ENSURING  
 THAT TRACK IS CONTINUOUS FROM R563  
 (NOT IC501 PIN 14 END) TO D512 CATHODE.

Model: C2976TN COLOUR TV

Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR CAST OVER WHOLE PICTURE.  
Symptom: COLOUR CAST OVER WHOLE



**PICTURE.**

**Cause: FAULTY DIODES.**

**Cure: CHECK/REPLACE D860, D861 AND D862  
PT. NOS. J2348921M**

Model : C2976TN                      COLOUR TV

**Subject: Y/C SIGNAL PROCESSING**

**Fault: BENT HORIZONTAL LINES**

**Symptom:** BENT HORIZONTAL LINES WHEN  
BACK CABINET IS FITTED.

**Cause: POOR MAGNETIC SHIELDING OF SPEAKER.**

**Cure: REPLACE SPEAKER WITH NEW TYPE.  
PART NUMBER E511131**

Model : C2976TN                      COLOUR TV

**Subject: Y/C SIGNAL PROCESSING**

Fault: SPOT BURN ON TUBE

**Symptom: PHOSPHOR BURN ON TUBE**

**Cause:** SPOT TOO BRIGHT.

Cure: **DELETE TRANSISTOR Q510**

Model : C2976TN                      COLOUR TV

**Subj ect: HORIZONTA L STAGE**

**Fault: STUCK IN STANDBY**

**Symptom:** SET STUCK IN STANDBY, WILL NOT COME ON FROM HANDSET OR FRONT PUSH BUTTONS.

**Cause: SCREEN VOLTS TOO HIGH.**

**Cure:** REDUCE SCREEN VOLTS USING  
CONTROL ON LOPTX. ONCE SET COMES ON  
RESET TO CORRECT LEVEL.

Model : C2976TN      COLOUR TV

**Subject: TELETEXT**

**Fault t: SET' LOCKS UP' AND/OR TEXT MOVES LEFT**

**Symptom:** WHEN IN TELETEXT MODE THE SET  
MAY 'LOCK UP' (FREEZE) AND THE TEXT  
PICTURE MOVE TO THE LEFT.

**Cause:** TOLERANCES IN COIL.

**Cure:** REPLACE COIL L591 WITH 22uH PART  
NUMBER JBH00032R. - THIS CHANGE HAS  
BEEN MADE IN ALL PRODUCTION FROM SERI  
SERIAL NYUMBERS U6B\*\*\*\*\*

Model: C2976TN COLOUR TV

**Subject: SERVICE INFORMATION**

**Fault:** SERVICE MODE ADJUSTMENTS  
**Symptom:** SET REQUIRES ADJUSTMENT.  
**Cause:** POOR ADJUSTMENT.  
**Cure:** ADJUSTMENTS FOR HEIGHT, E/W ,  
 GREY SCALE ARE ALL ACHIEVED BY THE  
 SERVICE MODE AND REMOTE HANDSET.  
 FOLLOW THIS METHOD:

..... CONT.

1) PRESS AND HOLD THE VOLUME + & -  
 BUTTONS INSIDE THE FRONT FLAP ON THE  
 T.V. SET, WHILE SWITCHING ON THE SET  
 FROM THE MAINS ON/OFF SWITCH.

2) WHEN THE SET COMES ON RELEASE THE  
 VOLUME CONTROLS. AFTER A SHORT WHILE  
 THE MODEL NUMBER WILL BE DISPLAYED ON  
 SCREEN.

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3) PULL DOWN THE COVER ON THE REMOTE  
 HANDSET. PRESS THE 'ESC' BUTTON TO  
 DISPLAY THE SERVICE MODE MENU.

GEOM	REG.	00
GEOM	VALUE	00
GREY	REG	00
GREY	VALUE	00

ETC.



**Model:** C2976TN

**COLOUR TV**

**Subject:** SERVICE INFORMATION

**Fault:** SERVICE MODE ADJUSTMENTS

4) USE THE < AND > CURSOR BUTTONS ON  
 THE HANDSET TO SELECT THE ADJUSTMENT  
 MODE YOU REQUIRE. FOR PICTURE ADJUST  
 SUCH AS HEIGHT, WIDTH THESE ARE IN THE  
 GEOM REG ADJUSTMENTS.  
 FOR GREY SCALE ADJUST THESE ARE IN THE  
 GREY REG. MENUS

..... CONT.

A FULL TABLE FOR GEOMETRY ADJUSTMENTS  
 FOLLOWS:

GEOM REG 00	HORIZONTAL SHIFT
GEOM REG 01	EAST WEST WIDTH
GEOM REG 02	EAST WEST PARABOLA WIDTH
GEOM REG 03	EAST WEST CORNER PARABOLA
GEOM REG 04	EAST WEST TRAPEZIUM
GEOM REG 05	VERTICLE SLOPE

GEOM REG 06 VERTICLE AMPLITUDE  
GEOM REG 07 S CORRECTION  
GEOM REG 08 VERTICLE SHIFT.  
SO IF FOR EXAMPLE WE REQUIRE TO ADJUST  
THE PICTURE HEIGHT: ALIGN THE CUSOR  
ARROWS ON GEOM REG. USING THE CURSOR  
UP AND DOWN BUTTONS ON THE REMOTE.  
USE THE CURSOR < & > BUTTONS TO SELECT  
GEOM REG. 06. CURSOR DOWN TO GEOM  
VALUE AND USE THE < & > BUTTONS ON THE  
HANDSET TO REDUCE OR INCREASE AS REQ'D  
GREY SCALE IS ACHEIVED IN THE SAME  
MANNER USING THE GREY REG. AND GREY  
VALUE MENU AS FOLLOWS:  
GREY REG 00 RED GAIN  
GREY REG 01 GREEN GAIN  
GREY REG 02 BLUE GAIN  
GREY REG 03 RED LEVEL  
GREY REG 04 GREEN LEVEL  
GREY REG 05 BLUE LEVEL  
ONCE ALL ADJUSTMENTS HAVE BEEN MADE GO  
TO STANDBY TO MEMORISE AND EXIT THE  
SERVICE MODE.



**Model: C2976TN COLOUR TV**

Subject: SERVICE INFORMATION  
Fault: 'C\*\*\*76TN-311' OSD APPEARS ON SCREEN  
Symptom: THE OSD PROMPT 'C\*\*\*76TN-311'  
APPEARS ON SCREEN ON SWITCH ON  
Cause: SET IS IN SERVICE MODE  
Cure: PRESS THE ESC BUTTON UNDER THE  
BOTTOM FLAP OF THE REMOTE CONTROL. THEN  
GO TO STANDBY. WHEN THE SET IS BROUGHT  
OUT OF STANDBY THE PROMPT WILL HAVE  
BEEN REMOVED.



**Model: C2976TN COLOUR TV**

Subject: PART NUMBER CHANGES  
Fault: PART NUMBER FOR I. C. 002  
Symptom: THE PART NUMBER FOR I. C. 002  
GIVEN IN THE PRELIMINARY MANUAL IS  
INCORRECT.  
Cause: PRINTING ERROR.  
Cure: DELETE PART NUMBER T900668. THE  
CORRECT PART NUMBER FOR I. C. 002 IS  
SCANDINAVIA: E730160  
EUROPE & UK: E730138



**Model: C2977TN COLOUR TELEVISION**

Subject: POWER SUPPLY



**Fault:** INTERMITTENT CUT OUT.  
**Symptom:** INTERMITTENT CUT OUT.  
**Cause:** DAMAGED PRINT.  
**Cure:** CHECK/REPAIR DAMAGED PRINT AT  
 CATHODE OF DIODE PACK D512, ENSURING  
 THAT TRACK IS CONTINUOUS FROM R563  
 (NOT IC501 PIN 14 END) TO D512 CATHODE.

Model: C2977TN COLOUR TELEVISION

**Subject:** POWER SUPPLY  
**Fault:** STUCK IN STANDBY.  
**Symptom:** STUCK IN STANDBY.  
**Cause:** FAULTY ZENER DIODE.  
**Cure:** CHECK/REPLACE ZD958,  
PT. NO. T536235.

Model: C2977TN COLOUR TELEVISION

**Subject:** POWER SUPPLY  
**Fault:** STUCK IN STANDBY  
**Symptom:** STUCK IN STANDBY.  
**Cause:** FAULTY IC AND DIODES.  
**Cure:** CHECK/REPLACE IC601, PT. NO. T900642  
AND D718 AND D719. PT. NO. T431113.

Model: C2977TN COLOUR TELEVISION

**Subject:** TUNING SELECTION  
**Fault:** STUCK IN STANDBY  
**Symptom:** SET STUCK IN STANDBY, WILL NOT COME ON FROM REMOTE CONTROL OR FRONT BUTTONS.  
**Cause:** DRY JOINTS.  
**Cure:** CHECK / RESOLDER DRY JOINTS ON C015 BETWEEN PIN 18 AND 15 OF IC001. ALSO CHECK FOR DRY JOINTS ON SHIELD PLATE OF IC201.

Model: C2977TN COLOUR TELEVISION

**Subject:** TUNING SELECTION  
**Fault:** PART NUMBER FOR I. C. 002  
**Symptom:** THE PART NUMBER FOR I. C. 002  
 GIVEN IN THE PRELIMINARY MANUAL IS  
 INCORRECT.  
**Cause:** PRINTING ERROR.  
**Cure:** DELETE PART NUMBER T900668. THE  
 CORRECT PART NUMBER FOR I. C. 002 IS  
 SCANDINAVIA: E730160  
 EUROPE & UK: E730138





## Model: C2977TN COLOUR TELEVISION

**Subject:** TUNING SELECTION  
**Fault:** REMOTE CONTROL LOCK UP.  
**Symptom:** REMOTE CONTROL LOCK UP.  
 REMOVE BATTERIES AND SHORT CIRCUIT  
 REMOTE CONTROL TERMINALS.  
**Cause:** LOW OR POOR BATTERIES.  
**Cure:** USE ALKALINE BATTERIES IN  
 REMOTE CONTROL.



## Model: C2977TN COLOUR TELEVISION

**Subject:** TUNING SELECTION

**Fault:** 'C\*\*\*76TN-311' OSD APPEARS ON SCREEN

**Symptom:** THE OSD PROMPT 'C\*\*\*76TN-311' APPEARS ON SCREEN ON SWITCH ON

**Cause:** SET IS IN SERVICE MODE

**Cure:** PRESS THE ESC BUTTON UNDER THE BOTTOM FLAP OF THE REMOTE CONTROL. THEN GO TO STANDBY. WHEN THE SET IS BROUGHT OUT OF STANDBY THE PROMPT WILL HAVE BEEN REMOVED.



## Model : C2977TN COLOUR TELEVISION

**Subject:** TUNING SELECTION  
**Fault:** LOCKS UP IN TEXT MODE & OSD CORRUPT  
**Symptom:** WHEN SWITCHING IN AND OUT OF  
TELETEXT MODE THE SET LOCKS UP. THE OSD  
CORRUPTS INTERMITTANT. CAN ONLY BE  
RESET BY SWITCH OFF AT MAINS SWITCH  
**Cause:** CORRUPTED MEMORY.  
**Cure:** REPLACE IC002 WITH NEW VERSION  
SCANDINAVIA: E730160  
EUROPEAN: E730138



## Model: C2977TN COLOUR TELEVISION

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** INTERMITTENT CUT OUT.  
**Symptom:** INTERMITTENT CUT OUT.  
**Cause:** DAMAGED PRINT.  
**Cure:** CHECK/REPAIR DAMAGED PRINT AT  
 CATHODE OF DIODE PACK D512, ENSURING  
 THAT TRACK IS CONTINUOUS FROM R563  
 (NOT IC501 PIN 14 END) TO D512 CATHODE.



## Model: C2977TN COLOUR TELEVISION

Subject: Y/C SIGNAL PROCESSING  
Fault: COLOUR CAST OVER WHOLE PICTURE.  
Symptom: COLOUR CAST OVER WHOLE



**PICTURE.**

**Cause: FAULTY DIODES.**

**Cure: CHECK/REPLACE D860, D861 AND D862  
PT. NOS. J2348921M**

Model: C2977TN COLOUR TELEVISION

**Subject: Y/C SIGNAL PROCESSING**

**Fault: BENT HORIZONTAL LINES**

**Symptom:** BENT HORIZONTAL LINES WHEN  
BACK CABINET IS FITTED.

**Cause: POOR MAGNETIC SHIELDING OF SPEAKER.**

**Cure: REPLACE SPEAKER WITH NEW TYPE.  
PART NUMBER E511131**

Model: C2977TN COLOUR TELEVISION

**Subject: Y/C SIGNAL PROCESSING**

Fault: SPOT BURN ON TUBE

**Symptom: PHOSPHOR BURN ON TUBE**

**Cause:** SPOT TOO BRIGHT.

Cure: **DELETE TRANSISTOR Q510**

Model: C2977TN COLOUR TELEVISION

**Subj ect: HORIZONTA L STAGE**

**Fault: STUCK IN STANDBY**

**Symptom:** SET STUCK IN STANDBY, WILL NOT COME ON FROM HANDSET OR FRONT PUSH BUTTONS.

**Cause: SCREEN VOLTS TOO HIGH.**

**Cure:** REDUCE SCREEN VOLTS USING  
CONTROL ON LOPTX. ONCE SET COMES ON  
RESET TO CORRECT LEVEL.

Model: C2977TN COLOUR TELEVISION

**Subject: TELETEXT**

**Fault t: SET' LOCKS UP' AND/OR TEXT MOVES LEFT**

**Symptom:** WHEN IN TELETEXT MODE THE SET  
MAY 'LOCK UP' (FREEZE) AND THE TEXT  
PICTURE MOVE TO THE LEFT.

**Cause: TOLERANCES IN COIL.**

**Cure: REPLACE COIL L591 WITH 22uH PART  
NUMBER JBH00032R. - THIS CHANGE HAS  
BEEN MADE IN ALL PRODUCTION FROM SERI  
SERIAL NYUMBERS U6B\*\*\*\*\***

Model: C2977TN COLOUR TELEVISION

**Subject: SERVICE INFORMATION**

**Fault:** SERVICE MODE ADJUSTMENTS  
**Symptom:** SET REQUIRES ADJUSTMENT.  
**Cause:** POOR ADJUSTMENT.  
**Cure:** ADJUSTMENTS FOR HEIGHT, E/W ,  
 GREY SCALE ARE ALL ACHIEVED BY THE  
 SERVICE MODE AND REMOTE HANDSET.  
 FOLLOW THIS METHOD:

..... CONT.

1) PRESS AND HOLD THE VOLUME + & -  
 BUTTONS INSIDE THE FRONT FLAP ON THE  
 T.V. SET, WHILE SWITCHING ON THE SET  
 FROM THE MAINS ON/OFF SWITCH.

2) WHEN THE SET COMES ON RELEASE THE  
 VOLUME CONTROLS. AFTER A SHORT WHILE  
 THE MODEL NUMBER WILL BE DISPLAYED ON  
 SCREEN.

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**Model:** C2977TN

**COLOUR TELEVISION**

**Subject:** SERVICE INFORMATION

**Fault:** SERVICE MODE ADJUSTMENTS

3) PULL DOWN THE COVER ON THE REMOTE  
 HANDSET. PRESS THE 'ESC' BUTTON TO  
 DISPLAY THE SERVICE MODE MENU.

GEOM	REG.	00
GEOM	VALUE	00
GREY	REG	00
GREY	VALUE	00

ETC.

4) USE THE < AND > CURSOR BUTTONS ON  
 THE HANDSET TO SELECT THE ADJUSTMENT  
 MODE YOU REQUIRE. FOR PICTURE ADJUST  
 SUCH AS HEIGHT, WIDTH THESE ARE IN THE  
 GEOM REG ADJUSTMENTS.  
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..... CONT.

A FULL TABLE FOR GEOMETRY ADJUSTMENTS  
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GEOM REG 01	EAST WEST WIDTH
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GEOM REG 05	VERTICLE SLOPE

GEOM REG 06 VERTICLE AMPLITUDE  
GEOM REG 07 S CORRECTION  
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SO IF FOR EXAMPLE WE REQUIRE TO ADJUST  
THE PICTURE HEIGHT: ALIGN THE CUSOR  
ARROWS ON GEOM REG. USING THE CURSOR  
UP AND DOWN BUTTONS ON THE REMOTE.  
USE THE CURSOR < & > BUTTONS TO SELECT  
GEOM REG. 06. CURSOR DOWN TO GEOM  
VALUE AND USE THE < & > BUTTONS ON THE  
HANDSET TO REDUCE OR INCREASE AS REQ'D  
GREY SCALE IS ACHEIVED IN THE SAME  
MANNER USING THE GREY REG. AND GREY  
VALUE MENU AS FOLLOWS:  
GREY REG 00 RED GAIN  
GREY REG 01 GREEN GAIN  
GREY REG 02 BLUE GAIN  
GREY REG 03 RED LEVEL  
GREY REG 04 GREEN LEVEL  
GREY REG 05 BLUE LEVEL

Model: C2977TN COLOUR TELEVISION

Subject: SERVICE INFORMATION  
Fault: SERVICE MODE ADJUSTMENTS  
ONCE ALL ADJUSTMENTS HAVE BEEN MADE GO  
TO STANDBY TO MEMORISE AND EXIT THE  
SERVICE MODE.

Model: C2977TN COLOUR TELEVISION

Subject: SERVICE INFORMATION  
Fault: 'C\*\*\*76TN-311' OSD APPEARS ON SCREEN  
Symptom: THE OSD PROMPT 'C\*\*\*76TN-311'  
APPEARS ON SCREEN ON SWITCH ON  
Cause: SET IS IN SERVICE MODE  
Cure: PRESS THE ESC BUTTON UNDER THE  
BOTTOM FLAP OF THE REMOTE CONTROL. THEN  
GO TO STANDBY. WHEN THE SET IS BROUGHT  
OUT OF STANDBY THE PROMPT WILL HAVE  
BEEN REMOVED.

Model: C2977TN COLOUR TELEVISION

Subject: PART NUMBER CHANGES  
Fault: PART NUMBER FOR I. C. 002  
Symptom: THE PART NUMBER FOR I. C. 002  
GIVEN IN THE PRELIMINARY MANUAL IS  
INCORRECT.  
Cause: PRINTING ERROR.  
Cure: DELETE PART NUMBER T900668. THE  
CORRECT PART NUMBER FOR I. C. 002 IS  
SCANDINAVIA: E730160

Model: C2984TN

COLOUR TV

Subject: POWER SUPPLY

Fault: DEAD SET ' PHYSICAL ' SCREECH'

Symptom: SET DEAD, BUT A PHYSICAL  
SCREECH CAN BE HEARD FROM THE REAR OF  
THE SET.

Cause: SHORT CIRCUIT TRANSISTOR.

Cure: CHECK / REPLACE LINE OUTPUT  
TRANSISTOR Q702 PART No 2315272. IT IS  
RECOMENDED THAT YOU REPLACE IC501 TYPE  
YAT016H P/No J2020322

Model: C2984TN

COLOUR TV

Subject: TUNING SELECTION

Fault: BRIGHTNESS & SHARPNESS NOT WORKING.

Symptom: BRIGHTNESS & SHARPNESS  
CONTROLS NOT WORKING.

Cause: FAULTY ZENER DIODE AND/OR IC.

Cure: CHECK VOLTS ON IC0003 PINS 12&21  
APPROX. 5V6. IF HIGH CHANGE ZD0100, 5V6  
PT. NO. T536224, AND IC0003, TYPE M2358P,  
PT. NO. 2008721. NB. CIRCUIT SHOWS ZD0100  
WRONGLY AS 5V1 ZENER.

Model: C2984TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: DEAD SET ' PHYSICAL ' SCREECH'

Symptom: SET DEAD, BUT A PHYSICAL  
SCREECH CAN BE HEARD FROM THE REAR OF  
THE SET.

Cause: SHORT CIRCUIT TRANSISTOR.

Cure: CHECK / REPLACE LINE OUTPUT  
TRANSISTOR Q702 PART No 2315272. IT IS  
RECOMENDED THAT YOU REPLACE IC501 TYPE  
YAT016H P/No J2020322

Model: C2984TN

COLOUR TV

Subject: HORIZONTAL STAGE

Fault: FAILURE OF Q702

Symptom: LINE OUTPUT TRANSISTOR FAILS  
SHORT CIRCUIT.

Cause: IC501 MISSES OUT HORIZONTAL  
PULSE.

Cure: REPLACE Q702 P/N 2315272 AND  
IC501 TYPE YAT016H P/N J2020322



COLOUR TV

**Subject:** HORIZONTAL STAGE  
**Fault:** FAILURE OF EAST/WEST CIRCUIT  
**Symptom:** IC751, R752, AND D707 IN EAST  
WEST CIRCUIT FAIL AFTER REPLACEMENT.  
**Cause:** D706 RUNS TOO HOT  
**Cure:** FIT HITACHI PARTS ONLY TO:  
IC751 : P/N J2004941 R752 P/N 01195051  
D706 P/N T431117 D712 P/N T431117

COLOUR TV

**Subject:** TELETEXT

**Fault:** SET LOCKS UP WHEN CHANNEL CHANGE

**Symptom:** WHEN CHANNELS ARE CHANGED QUICKLY, THE SET MAY LOCK UP.

**Cause:** CORRUPTION TO TEXT PROCESSING

**Cure:** THE TEXT PCB SHOULD BE ALTERED;

1. CUT THE PRINT FROM PIN 15 OF IC2201 TO PIN 9 OF IC2202.
2. REMOVE LINKS J2203 AND J2207

COLOUR TV

**Subject: TELETEXT**  
**Fault: SET LOCKS UP WHEN CHANNEL CHANGE**

**3. CONNECT A 15pF CAP PART No 0890063 BETWEEN PINS 6 & 7 OF IC2202. AND A FURTHER 15pF CAP BETWEEN PINS 6 & 10 OF THE SAME IC2202.**

**4. CONNECT A WIRE LINK FROM PIN 9 TO PIN 10 OF IC2202.**

**5. CONNECT A 1K RESISTOR PT/No 0187065 FROM PIN 28 OF IC2202 AND THE DVCC INPUT. (I. E THE LEG OF L2202). BE SURE TO SLEEVE THE LEGS OF THE RESISTOR TO PREVENT SHORTING TO OTHER COMPONENTS.**

**6. CONNECT A 13.875MHz CRYSTAL OSC PT/No J2168671 BETWEEN PINS 7 & 10 OF IC2202.**

## COLOUR TELEVISION

**Subject:** TUNING SELECTION  
**Fault:** CHANGE OF MEMORY IC002  
**SECTION:** SYS  
**CONDITION:** 1  
**Symptom:** 185 CHANGE OF IC002  
**DEFECT:** 1 UPDATED SOFTWARE  
**REPAIR** A PT# E730188

**Model : C32WD2TN COLOUR TELEVISION**

**Subject:** Y/C SIGNAL PROCESSING  
**Fault:** INCREASE IN HEATER VOLTAGE  
**SECTION:** CRT  
**CONDITION:** 1  
**Symptom:** 185 INCREASE OF HEATER  
VOLTAGE  
**DEFECT:** Y  
**REPAIR:** A REPLACE L801 WITH  
470uH PT # JBH00036R



**Model : C32WD2TN COLOUR TELEVISION**

**Subject:** VERTICAL STAGE  
**Fault:** IC 601 FAILURE  
**SECTION:** DFL FRAME DEFLECTION  
**CONDITION:** 1  
**Symptom:** 316 HORIZONTAL LINE  
**DEFECT:** A  
**REPAIR:** A WHEN REPLACING IC601,  
ADD DIODE D603 IF NOT ALREADY FITTED  
PT# T431113 TYPE BYD33J



**Model : C32WD2TN COLOUR TELEVISION**

**Subject:** HORIZONTAL STAGE  
**Fault:** TRIPPING IN STANDBY MODE  
**SECTION:** DFL  
**CONDITION:** H IN STANDBY MODE ONLY  
**Symptom:** 11B TRIPPING IN S/BY MODE  
**DEFECT:** Y  
**REPAIR:** A CHANGE R750A FROM 33K TO 15K  
ADJUST +B LINE TO 149V



**Model : C32WD2TN COLOUR TELEVISION**

**Subject:** SERVICE INFORMATION  
**Fault:** CHANGE OF SOFTWARE FLOPPY DISK  
**SECTION:** SFT SOFTWARE  
**CONDITION:** 1  
**Symptom:** 185 SOFTWARE UPGRADE  
V4.1 TO V4.2  
**DEFECT:** 1  
**REPAIR:** C PT# FOR PC CONNECT  
DISK IS E770100



**Model : C32WD2TN COLOUR TELEVISION**

**Subject:** PART NUMBER CHANGES  
**Fault:** CHANGE OF PART #, IR LED LENS  
**SECTION:** REM REMOTE SECTION  
**CONDITION:** 1

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Symptom: 185 MODIFIED IR LENS  
DEFECT: Y  
REPAIR: A PART # FOR MODIFIED IR LENS  
ISX425144

Model: C32WD2TN COLOUR TELEVISION

Subject: SERVICE INFORMATION  
Fault: IMPROVEMENT OF 16:9 COMPRESSION SW  
SECTION: VPA  
CONDITION: 1  
Symptom: 185 RUNNING CHANGE  
DEFECT: Y  
REPAIR: A R1304 IN 16:9 COMPRESSION  
SWITCH IS CHANGED FROM 10K TO 47K

Model: C32WD2TN COLOUR TELEVISION

Subject: TUNER/IF/VIDEO  
Fault: CHANGE OF COMPOSITE VIDEO LEVEL  
SECTION: IFC  
CONDITION: 1  
Symptom: 185 CHANGE OF COMP. VIDEO LEVEL  
DEFECT: Y  
REPAIR: A CHANGE R505 FROM 270R TO  
220R. PART # J0700032M

Model: C33P909 COLOUR TV

Subject: AUDIO  
Fault: BUZZ ON SOUND  
FIT 14CM INSULATED WIRE LINK FROM  
EARTH POINT OF IC403 HEAT SINK TO  
TUNER EARTH POINT (ADJACENT TO  
CP201). WIRE SHOULD AVOID MF401  
FILTER AND BE SECURED WITH HOT  
MELT.

Model: SA5 Infra-red speaker system (pair)

Subject: AUDIO  
Fault: HISS ON AUDIO.  
Symptom: HISS ON AUDIO.  
Cause: CHECK SET UP AS BELOW.  
Cure: TO REDUCE HISS WHEN NO SURROUND  
SOUND IS PRESENT. SET H/L ON ACTIVE  
SPEAKER TO L AND ADJUST SURROUND  
CHANNEL AS NECESSARY. POSITION IR  
TRANSMITTER IN LINE OF SIGHT WITH  
ACTIVE SPEAKER.

\*\*\*\* End of Data \*\*\*\*