

# TEAC®

## SERVICE MANUAL

---

# CTF687

68CM CTV

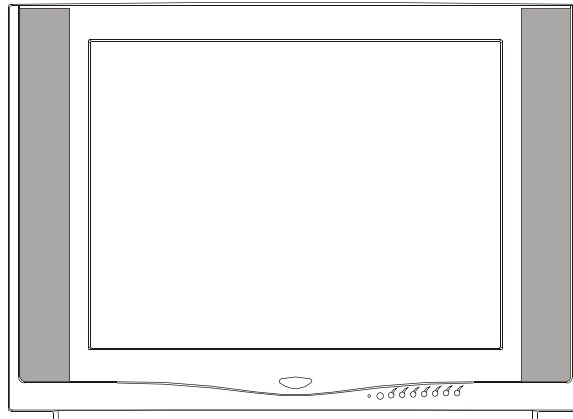
---

# TEAC

## SERVICE MANUAL

---

---



**CT-F687**

---

---

<b>1. Caution.....</b>	<b>2</b>
<b>2. Specification.....</b>	<b>6</b>
<b>3. BOM List.....</b>	<b>13</b>
<b>4. Alignment Procedure.....</b>	<b>24</b>
<b>5. Block Diagram.....</b>	<b>29</b>
<b>6. Schematic Diagram.....</b>	<b>30</b>
<b>7. PCB Layout.....</b>	<b>31</b>
<b>8. Exploded View Diagram.....</b>	<b>Temporary Absence</b>

---

---

This manual is the latest at the time of printing, and does not include the modification which may be made after the printing, by the constant improvement of product.

**CAUTION:**

Use of controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.

---



**CAUTION**  
**RISK OF ELECTRIC SHOCK DO NOT OPEN.**



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

---



The lightning flash with arrowhead symbol, with an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to the person.

---



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

---

**WARNING: TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

# **IMPORTANT SAFETY INSTRUCTIONS**

## **CAUTION:**

**Read all of these instructions. Save these instructions for later use. Follow all Warnings and Instructions marked on the audio equipment.**

1. Read Instructions- All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings- All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions- All operating and use instructions should be followed.

## **FOR YOUR PERSONAL SAFETY**

1. When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
2. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
3. Do not allow anything to rest on or roll over the power cord, and do not place the TV where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
4. Do not attempt to service this television set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
5. Never push objects of any kind into this television set through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television set.
6. If the television set has been dropped or the cabinet has been damaged, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
7. If liquid has been spilled into the television set, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
8. Do not subject your television set to impact of any kind. Be particularly careful not to damage the picture tube surface.
9. Unplug this television set from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 10.1. Do not place this television set on an unstable cart, stand, or table. The television set may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television set. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 10.2. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



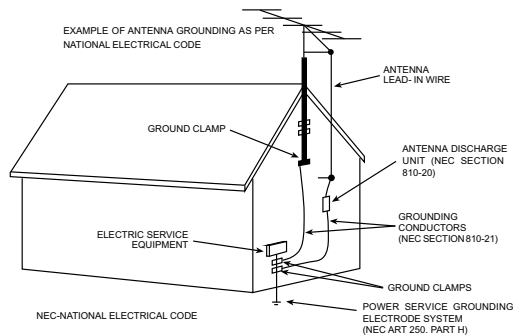
## **PROTECTION AND LOCATION OF YOUR SET**

11.
  - Do not use this television set near water ... for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
  - Never expose the set to rain or water. If the set has been exposed to rain or water, unplug the set from the wall outlet and refer servicing to qualified service personnel.
12. Choose a place where light (artificial or sunlight) does not shine directly on the screen.
13. Avoid dusty places, since piling up of dust inside TV chassis may cause failure of the set when high humidity persists.
14. The set has slots, or openings in the cabinet for ventilation purposes, to provide reliable operation of the receiver, to protect it from overheating. These openings must not be blocked or covered.
  - Never cover the slots or openings with cloth or other material.
  - Never block the bottom ventilation slots of the set by placing it on a bed, sofa, rug, etc.
  - Never place the set near or over a radiator or heat register.
  - Never place the set in a "built-in" enclosure, unless proper ventilation is provided.

## **PROTECTION AND LOCATION OF YOUR SET**

- 15.1. If an outside antenna is connected to the television set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges, Section 810 of the National Electrical Code, NFPA No. 70-1975, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrode, and requirements for the grounding electrode.

### EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS



- 15.2. Note to CATV system installer : (Only for the television set with CATV reception)

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric lights or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. For added protection for this television set during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage due to lightning and power-line surges.

## **OPERATION OF YOUR SET**

18. This television set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply at your home, consult your television dealer or local power company. For television sets designed to operate from battery power, refer to the operating instructions.
19. If the television set does not operate normally by following the operating instructions, unplug this television set from the wall outlet and refer servicing to qualified service personnel. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television set to normal operation.
20. When going on a holiday : If your television set is to remain unused for a period of time, for instance, when you go on a holiday, turn the television set " off " and unplug the television set from the wall outlet.

## **IF THE SET DOES NOT OPERATE PROPERLY**

21. If you are unable to restore normal operation by following the detailed procedure in your operating instructions, do not attempt any further adjustment. Unplug the set and call your dealer or service technician.
22. Whenever the television set is damaged or fails, or a distinct change in performance indicates a need for service, unplug the set and have it checked by a professional service technician.
23. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer or service technician.

## **FOR SERVICE AND MODIFICATION**

24. Do not use attachments not recommended by the television set manufacturer as they may cause hazards.
25. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
26. Upon completion of any service or repairs to the television set, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.

# PRODUCT SPECIFICATION

**MODEL: CT-F687**

## **AMBIENT CONDITIONS:**

### **AMBIENT TEMPERATURE:**

**OPERATING : -10°C ~ +40°C**

**STORAGE : -15°C ~ +45°C**

### **HUMIDITY**

**OPERATING: <80%**

**STORAGE: <90%**

**AIR PRESSURE: 86kpa ~ 106kpa**

**PREPARED BY :**

**DATE:**

**APPROVED BY:**

**DATE: \_**

A: GENERAL SPECIFICATION:

1: CRT

- 14"\_\_\_\_\_  20"\_\_\_\_\_
- 21"\_\_\_\_\_  25"\_\_\_\_\_
- 29"\_\_\_\_\_  34"\_\_\_\_\_  OTHER\_\_\_\_\_

2: CHASSIS:

- DIGITAL  NICAM STEREO  ANALOG
- SURROUND SOUND  TELETEXT  GERMAN STEREO
- S.VHS  OTHER \_\_\_\_\_

3: CPU:

- TSB M5C01  TSB M5C03  TSB M5ENG  TSB M6/M6A  TSB M7/M7A
- TSB M8A  TSB M8B  TSB CTS-654A  TSB M2A  SS M4F
- PHIL.CTV 222S  MIT.(2911)  SIE SDA 5352  其他(OTHERS) M13

4: TV BROADCASTING SYSTEM AND COUNTRY

- PAL-I  PAL-BG  PAL-DK  PAL-DK.1
- PAL-DK.BG  SECAM-BG  SECAM-L  SECAM-DK.BG
- PAL-N  NTSC-M  NTSC3.579/4.43 AV MODE  21 MULTI SYSTEM
- UK  HK  GERMAN  RUSSIA
- CHINA  USA  E.EUROPE  VIETNAM
- CANADA  DUBAI  INDONESIA  S.AFRICA
- MALAYSIA  MID. AMERICA  SINGAPORE  ISRAEL
- AUSTRALIA & NEW ZEALAND  TAIWAN  MOROCCO
- PHILIPPINES  OTHER\_\_\_\_\_

5: RECEIVING CHANNELS

- CH21--CH69  CH2--CH12 (CCIR)
- CHFA-CHS20 (FRANCE BAND)  CH2--CHS41 (HYPER BAND)
- CH21--CH69  CH21--CH69
- CH2--CHS20 (CABLE BAND)  CH2--CH13 (USA BAND)



CH21--CH69

CH14--CH83

CHR1--CHR12 (OIRT)

CH1--CH12/CH13-CH57 (CHINA BAND)

OTHER CATV 470MHz

6: SCANNING LINES AND FREQUENCIES

625 LINES 15.625kHz 50Hz

525 LINES 15.75kHz 60Hz

525/625 LINES 15.625kHz /15.75kHz 50/60Hz

7: COLOUR SUB-CARRIER

4.433MHz

3.579MHz

3.58MHz

8: INTERMEDIATE FREQUENCIES

PICTURE 39.5MHz

SOUND 6.0MHz

PICTURE 38.9MHz

SOUND 5.5MHz

PICTURE 38.0MHz

SOUND 6.5MHz

PICTURE 45.75MHz

SOUND 4.5MHz

OTHER \_\_\_\_\_  AM SOUND 6.5MHz

9: POWER CONSUMPTION :

65W

70W

75W

80W

110W

120W

130W  140W  180W  190W  OTHER \_\_\_\_\_

10: POWER SOURCE :

AC 120V 60Hz±10%

AC 200V 50Hz±10%

AC 220V 50Hz±10%

AC 220V 50Hz+10%~25%

AC 240V 50Hz±10%

AC 110V-240V 50/60Hz±10%

OTHER \_\_\_\_\_

11: AUDIO OUTPUT POWER (7%THD)

- 13" & 14" ---1W
- 20" & 21" ---2W
- 20" & 21" ---2W + 2W (R + L)
- 25" ---4W + 4W (R + L)
- 29"  $\geq 6W + 6W (R + L)$
- 34" ---8W + 8W(R + L)
- OTHER \_\_\_\_\_

12: AERIAL INPUT IMPEDANCE

- 75  $\Omega$  UNBALANCED DIN JACK ANT.INPUT75
- 75 $\Omega$  UNBALANCED F TYPE ANT.INPUT FOR NTSC
- 300  $\Omega$  BALANCED (TWO TERMINALS ANT.INPUT)
- OTHER \_\_\_\_\_

13: PRODUCT SAFETY REQUIREMENT

- BS APPROVAL
- VDE APPROVAL
- UL APPROVAL
- CHINA APPROVAL
- CB APPORVAL
- OTHER SAA EMC

14: PRODUCT EMC/EMI REQUIREMENT

- FTZ APPOVAL
- FCC APPROVAL
- CHINA APPOVAL
- OTHER \_\_\_\_\_

B: BASIC FEATURES OF CONTROLLER

1: CHANNEL TUNING METHOD

- VOLTAGE SYNTHESIZER (V.S.)

PLL FREQUENCY SYNTHESIZER (F.S.)

2: PRESETTABLE PROGRAM

50 PROGRAMS             0-99 PROGRAMS

100 PROGRAMS         181 PROGRAMS

OTHER \_\_\_\_\_

3: TUNING FOR VHF AND UHF BANDS

AUTO SEARCH)         MANUAL TUNING)

FINE TUNING

4: PICTURE AND SOUND ADJUSTMENT

BRIGHT, CONTRAST, COLOUR AND VOLUME CONTROL

TINT CONTROL(NTSC)

TREBLE, BASS, BALANCE CONTROL

SHARPNESS CONTROL

OTHER 4D FAULT SOUND STETTING, FIVE-BAND EQUALIZER

5: TELETEXT

SIMPLE TEXT                             TOP(TABLE OF PAGES)

FLOF (FASTEXT)                       LIST

6: ON SCREEN DISPLAY

GENERAL FEATURES\*                       STEREO DUAL LAN.

FOUR S.EFFECT INDICATOR               GERMAN STEREO INDICATOR

注: \*REMARK: OSD-GENERAL FEATURES OF CPU:  
VOLUME, BRIGHTNESS, CONTRAST, COLOUR, PROGRAM, BAND,  
AUTO SEARCH, MANUAL, TUNE, MUTING, AV AND SLEEP TIMER.

7: SLEEP TIMER

10-120 MINUTES WITH 10M.INCREMENT

8: AUTO OFF WHEN NO BROADCASTING SIGNAL

10 min             15 min             20 min

9: FULL FUNCTION INFRARED REMOTE CONTROL

P/N OF REMOTE CONTROL INLAY) : 58-HS46F2-MUI

10: REMOTE EFFECTIVE DISTANCE 8 m

C: CONSTRUCTION OF FRONT PANEL

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> MAIN POWER SWITCH         | <input type="checkbox"/> FUNCTION SELECT                   |
| <input checked="" type="checkbox"/> REMOTE SENSOR             | <input checked="" type="checkbox"/> MENU SELECT            |
| <input type="checkbox"/> SYSTEM FUNCTION                      | <input type="checkbox"/> S.VHS INPUT                       |
| <input type="checkbox"/> MICROPHONE INPUT                     | <input checked="" type="checkbox"/> TV/AV SELECT           |
| <input checked="" type="checkbox"/> STANDBY INDICATOR         | <input checked="" type="checkbox"/> PROGRAM VOLUME UP/DOMN |
| <input type="checkbox"/> BAND SELECT                          | <input checked="" type="checkbox"/> RCA SOCKET (SIDE)      |
| <input type="checkbox"/> EARPHONE INPUT                       | <input type="checkbox"/> OTHER _____                       |
| <input type="checkbox"/> AUTO SEARCH AND MANUAL TUNING SELECT |  |

D: CONSTRUCTION OF REAR PANEL

- 75Ω AERIAL TERMINAL
- 300Ω AERIAL TERMINAL
- RCA SOCKET(AV INPUT ONLY)
- RCA SOCKET--AV IN/OUT
- RCA SOCKET --A-R+L IN/OUT, V- IN/OUT
- RCA SOCKET --A-R+L /V INPUT X 2,
- SCART SOCKET
- S.VHS INPUT
- EXT/INT SPEAKER SELECT
- EXT.SPEAKERS (R+L) TERMINALS
- EXT.SPEAKERS (R+L) RCA SOCKET
- SUPER WOOFER TERMINAL
- OTHER YUV

E: AUDIO AND VIDEO INPUT/OUTPUT

- RCA SOCKET
- SCART SOCKET(AV)
- S SCART SOCKET(FULL)

SPECIFICATION	SCART	RCA
VIDEO INPUT 75Ω S	1V <sub>P-P</sub>	1V <sub>P-P</sub>
AUDIO INPUT 10kΩ (R+L)	0.5V <sub>rmS</sub>	0.5V <sub>rmS</sub>
VIDEO OUTPUT 75Ω	1V <sub>P-P</sub>	1V <sub>P-P</sub>
AUDIO OUTPUT 1kΩ (R+L)	0.5V <sub>rmS</sub>	0.5V <sub>rmS</sub>
RGB INTPUT 75Ω	0.7V <sub>P-P</sub>	
AUDIO LINE OUTPUT 1kΩ	1V <sub>P-P</sub>	

#### F: OTHERS INFORMATION

1. FLYBACK : 37-BSC290-1650X
2. TUNER : 07-389VI5-NX4
3. SAW FILTER : 45-SAWK33-50K
4. POWER CORD : \_\_\_\_\_
5. FUSE : \_\_\_\_\_
6. COLOUR TEMP : \_\_\_\_\_
7. MAGNETIC FIELD : \_\_\_\_\_
8. IC EEPROM : 13-00M24C-08P
9. IR RECEIVER : 11-IRR001-1X0
10. CIRCUIT DIAGRAM : 01-29274T-MA3
11. MAIN BOARD : 40-2916MT-MAH

Sheet1

03-29274T-AA3	Effective Date :	2002-8-30		Item	Quantity			
Parent Item	Parent Item Description	Item No.	Item Description	Type	Req.	Designator		
08-29274T-MAN	ASSY - MAIN BD	27-MBC104-J0X	CAP. M.P.E.0.1 UF 50V +/-5%	C	6	C102, C211, C212, C213, C242, C252		
08-29274T-MAN	ASSY - MAIN BD	27-PBC222-J0X	CAP. P.E. 2200 PF 50V +/-5%	C	2	C207, C221		
08-29274T-MAN	ASSY - MAIN BD	27-PBC223-J0X	CAP. P.E. 0.022UF 50V +/-5%	C	2	C611, C612		
08-29274T-MAN	ASSY - MAIN BD	27-PBC333-J0X	CAP. P.E 0.033UF 50V +/-5%	C	1	C302		
08-29274T-MAN	ASSY - MAIN BD	27-PBC393-J0X	CAP. P.E 0.039UF 50V +/-5%	C	1	C308		
08-29274T-MAN	ASSY - MAIN BD	27-PBC472-J0X	CAP. P.E. 4700PF 50V +/-5%	C	1	C244		
08-29274T-MAN	ASSY - MAIN BD	27-PBC563-J0X	CAP. P.E 0.056 UF 50V +/-5%	C	1	C304		
08-29274T-MAN	ASSY - MAIN BD	27-RHQ563-J0X	CAP. PP 0.056 UF 400V +/-5%	C	1	C451		
08-29274T-MAN	ASSY - MAIN BD	34-R120J2-0EX	COIL PL - 12 UH +/-5%	C	1	L256		
08-29274T-MAN	ASSY - MAIN BD	18-CB0393-JNX	RES. C.F. 39K OHM 1/6W +/-5%	C	1	R314		
08-29274T-MAN	ASSY - MAIN BD	18-CD0392-JNX	RES. C.F. 3.9K OHM 1/4W +/-5%	C	1	R312		
08-29274T-MAN	ASSY - MAIN BD	18-FG0479-JHX	RES. M.O. 4.7 OHM 2W +/-5%	C	1	R303		
08-29274T-MAN	ASSY - MAIN BD	27-ALQ392-J0X	CAP. M.PP 3900PF 1.6KV +/-5%	C	1	C415		
08-29274T-MAN	ASSY - MAIN BD	27-RHQ223-J0X	CAP. PP 0.022 UF 400V +/-5%	C	1	C416		
08-29274T-MAN	ASSY - MAIN BD	36-LIN210-XX1	COIL LINEARITY 21 UH	C	1	L413		
08-29274T-MAN	ASSY - MAIN BD	36-WID801-XX1	COIL WIDTH 800 UH	C	1	L414		
08-29274T-MAN	ASSY - MAIN BD	70-271510-00A	SERVICE CARD	C	1	FOR PRODUCTION USE		
08-29274T-MAN	ASSY - MAIN BD	18-CD0681-JNX	RES. C.F. 680 OHM 1/4W +/-5%	C	1	R724		
08-29274T-MAN	ASSY - MAIN BD	18-CD0272-JNX	RES. C.F. 2.7K OHM 1/4W +/-5%	C	2	J691, R313		
08-29274T-MAN	ASSY - MAIN BD	18-CD0472-JNX	RES. C.F. 4.7K OHM 1/4W +/-5%	C	1	R725		
08-29274T-MAN	ASSY - MAIN BD	18-CE0222-JNX	RES. C.F. 2.2K OHM 1/2W +/-5%	C	1	R309		
08-29274T-MAN	ASSY - MAIN BD	27-AHR434-J0X	CAP. M.PP 0.43 UF 400V +/-5%	C	1	C418		
08-29274T-MAN	ASSY - MAIN BD	27-ALQ272-J0X	CAP. M.PP 0.0027UF 1.6KV +/-5%	C	1	C413		
08-29274T-MAN	ASSY - MAIN BD	27-ALR103-J0X	CAP. M.PP 0.01 UF 1.6KV +/-5%	C	1	C414		
08-29274T-MAN	ASSY - MAIN BD	40-2916MT-MAH	P.C.B. MAIN BD	C	1			
08-29274T-MAN	ASSY - MAIN BD	62-2927MB-1UN	MAIN BD BRACKET	C	1			
08-29274T-MAN	ASSY - MAIN BD	46-12866W-02X	PIN BASE *2 S11-02W	C	1	P601		FOR FRONT CAB. (SPK)
08-29274T-MAN	ASSY - MAIN BD	18-EG0399-JHX	RES. FUS. 3.9 OHM 2W +/-5%	C	1	R461		
08-29274T-MAN	ASSY - MAIN BD	62-313410-OHA	BRACKET	C	1			
08-29274T-MAN	ASSY - MAIN BD	63-W30120-AB4	S/T SCREW W 3 X 12 AB	C	1	MTG FBT BKT & M.BD BKT		
08-29274T-MAN	ASSY - MAIN BD	18-CB0822-JNX	RES. C.F. 8.2K OHM 1/6W +/-5%	C	1	R286		
08-29274T-MAN	ASSY - MAIN BD	18-FG0100-JHX	RES. M.O. 10 OHM 2W +/-5%	C	1	J211		
08-29274T-MAN	ASSY - MAIN BD	25-BCA102-M1X	CAP. ELEC 1000 UF 16V +/-20%	C	1	C846		
08-29274T-MAN	ASSY - MAIN BD	66-343730-0B0	HOLLOW RIVET 1.6X3.0XL3.2	C	5	FOR T461		
08-29274T-MAN	ASSY - MAIN BD	13-000040-52P	IC 4052	H	2	IC961, IC962		
08-29274T-MAN	ASSY - MAIN BD	13-0TDA26-16S	IC TDA2616 (AUDIO O/P)	H	1	IC601		
08-29274T-MAN	ASSY - MAIN BD	13-TB1240-ANP	IC TB1240AN	H	1	IC201		
08-29274T-MAN	ASSY - MAIN BD	18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	C	25	R062, R067, R071, R091, R124, R220, R243, R269, R271, R301, R304, R451, R911, R912, R921, R922	R936, R938, R939, R945, R946, R947, R948, R966, R968	
08-29274T-MAN	ASSY - MAIN BD	18-CB0104-JNX	RES. C.F. 100K OHM 1/6W +/-5%	C	13	R053, R056, R205, R206, R917, R918, R919, R926, R927, R928, R929, R973, R983		
08-29274T-MAN	ASSY - MAIN BD	18-CB0106-JNX	RES. C.F. 10M OHM 1/6W +/-5%	C	1	R116		
08-29274T-MAN	ASSY - MAIN BD	18-CB0123-JNX	RES. C.F. 12K OHM 1/6W +/-5%	C	2	R244, R951		
08-29274T-MAN	ASSY - MAIN BD	18-CB0151-JNX	RES. C.F. 150 OHM 1/6W +/-5%	C	4	R127, R934, R935, R994		

Sheet1

08-29274T-MAN	ASS'Y - MAIN BD	18-CB0152-JNX	RES. C.F. 1.5K OHM 1/6W +/-5%	C	5	R063, R204, R212, R213, R214	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0181-JNX	RES. C.F. 180 OHM 1/6W +/-5%	C	1	R123	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0182-JNX	RES. C.F. 1.8K OHM 1/6W +/-5%	C	1	R715	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0221-JNX	RES. C.F. 220 OHM 1/6W +/-5%	C	8	R012, R203, R215, R216, R217, R255, R261, R401	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0224-JNX	RES. C.F. 220K OHM 1/6W +/-5%	C	1	R251	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0271-JNX	RES. C.F. 270 OHM 1/6W +/-5%	C	1	R711	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0272-JNX	RES. C.F. 2.7K OHM 1/6W +/-5%	C	1	R227	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%	C	4	R222, R223, R229, R259	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0333-JNX	RES. C.F. 33K OHM 1/6W +/-5%	C	5	R114, R208, R287, R289, R714	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	C	4	R125, R252, R931, R932	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	C	5	R052, R115, R262, R263, R284	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0560-JNX	RES. C.F. 56 OHM 1/6W +/-5%	C	1	R122	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0561-JNX	RES. C.F. 560 OHM 1/6W +/-5%	C	1	R228	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0750-JNX	RES. C.F. 75 OHM 1/6W +/-5%	C	1	R933	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0820-JNX	RES. C.F. 82 OHM 1/6W +/-5%	C	4	R913, R923, R971, R981	
08-29274T-MAN	ASS'Y - MAIN BD	18-CD0181-JNX	RES. C.F. 180 OHM 1/4W +/-5%	C	1	R226	
08-29274T-MAN	ASS'Y - MAIN BD	18-CD0222-JNX	RES. C.F. 2.2K OHM 1/4W +/-5%	C	1	R723	
08-29274T-MAN	ASS'Y - MAIN BD	18-CD0829-JNX	RES. C.F. 8.2 OHM 1/4W +/-5%	C	2	R607, R608	
08-29274T-MAN	ASS'Y - MAIN BD	18-CE0121-JNX	RES. C.F. 120 OHM 1/2W +/-5%	C	1	R731	
08-29274T-MAN	ASS'Y - MAIN BD	18-FF0103-JGX	RES. M.O. 10K OHM 1W +/-5%	C	1	R421	
08-29274T-MAN	ASS'Y - MAIN BD	18-FF0221-JGX	RES. M.O. 220 OHM 1W +/-5%	C	1	R307	
08-29274T-MAN	ASS'Y - MAIN BD	18-FF0242-JGX	RES. M.O. 2.4K OHM 1W +/-5%	C	1	R402	
08-29274T-MAN	ASS'Y - MAIN BD	18-FF0681-JGX	RES. M.O. 680 OHM 1W +/-5%	C	1	R411	
08-29274T-MAN	ASS'Y - MAIN BD	18-FG0399-JHX	RES. M.O. 3.9 OHM 2W +/-5%	C	1	R726	
08-29274T-MAN	ASS'Y - MAIN BD	18-GF0109-JGX	RES WIRE ROUND 1 OHM 1W +/-5%	C	1	R311	
08-29274T-MAN	ASS'Y - MAIN BD	18-GG0109-JHX	RES WIRE ROUND 1 OHM 2W +/-5%	C	1	R422	
08-29274T-MAN	ASS'Y - MAIN BD	26-AIC221-KBX	CAP. CER 220 PF 500V +/-10% B	C	2	C431, C441	
08-29274T-MAN	ASS'Y - MAIN BD	26-AIC332-KBX	CAP. CER 3300 PF 500V +/-10% B	C	1	C402	
08-29274T-MAN	ASS'Y - MAIN BD	26-AIC391-KBX	CAP. CER 390 PF 500V +/-10% B	C	1	C403	
08-29274T-MAN	ASS'Y - MAIN BD	34-A608K6-1BX	COIL CHOKE 0.6 UH +/-10%	C	1	L412	
08-29274T-MAN	ASS'Y - MAIN BD	34-R100J2-0EX	COIL PL - 10 UH +/-5%	C	1	L252	
08-29274T-MAN	ASS'Y - MAIN BD	34-R101J2-0EX	COIL PL - 100 UH +/-5%	C	3	L201, L211, L271	
08-29274T-MAN	ASS'Y - MAIN BD	34-R220J2-0EX	COIL PL - 22 UH +/-5%	C	3	L051, L081, L251	
08-29274T-MAN	ASS'Y - MAIN BD	34-R229J2-0EX	COIL PL - 2.2 UH +/-5%	C	1	L053	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0080-B00	WIRE BARE JUMPER 8 MM	C	4	J201, J425, J443, J453	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0095-B00	WIRE BARE JUMPER 9.5MM	C	4	J226, J343, J344, J713	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0105-B00	WIRE BARE JUMPER 10.5MM	C	3	J311, J442, J622	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0115-B00	WIRE BARE JUMPER 11.5MM	C	6	J052, J246, J342, J522, J627, J628	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0140-B00	WIRE BARE JUMPER 14MM	C	5	J321, J335, J336, J337, J742	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0165-B00	WIRE BARE JUMPER 16.5MM	C	3	J221, J234, J314	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0180-B00	WIRE BARE JUMPER 18MM	C	2	J214, J623	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0195-B00	WIRE BARE JUMPER 19.5MM	C	4	J323, J355, J641, J731	
08-29274T-MAN	ASS'Y - MAIN BD	54-128700-0X0	FIBRE WASHER 3.3 X 10 X 0.8	C	2	MTG M.BD & FBT	
08-29274T-MAN	ASS'Y - MAIN BD	62-10654X-00F	UNI - TIE (2.5MMX95MM)	C	12		
08-29274T-MAN	ASS'Y - MAIN BD	62-227680-0UA	HOLDER CABLE FOR FBT (2)	C	1		
08-29274T-MAN	ASS'Y - MAIN BD	67-H27292-1A0	HEAT SINK-REGULATOR & DPC A=60	C	1	FOR Q722	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0201-JNX	RES. C.F. 200 OHM 1/6W +/-5%	C	1	R993	
08-29274T-MAN	ASS'Y - MAIN BD	18-CD0100-JNX	RES. C.F. 10 OHM 1/4W +/-5%	C	1	R064	
08-29274T-MAN	ASS'Y - MAIN BD	18-CE0470-JNX	RES. C.F. 47 OHM 1/2W +/-5%	C	1	R103	
08-29274T-MAN	ASS'Y - MAIN BD	26-AIM103-KBX	CAP. CER 0.01 UF 500V +/-10% B	C	1	C401	

## Sheet1

08-29274T-MAN	ASS'Y - MAIN BD	18-FE0121-JNX	RES. M.O. 120 OHM 1/2W +/-5%	C	1	R306	
08-29274T-MAN	ASS'Y - MAIN BD	25-BCB220-M1X	CAP. ELEC 22 UF 16V +/-20%	C	1	C278	
08-29274T-MAN	ASS'Y - MAIN BD	25-BEA221-M1X	CAP. ELEC 220 UF 35V +/-20%	C	1	C306	
08-29274T-MAN	ASS'Y - MAIN BD	25-BEB101-M1X	CAP. ELEC 100 UF 35V +/-20%	C	1	C731	
08-29274T-MAN	ASS'Y - MAIN BD	25-BEG222-M1X	CAP. ELEC 2200 UF 35V +/-20%	C	2	C303, C309	
08-29274T-MAN	ASS'Y - MAIN BD	25-BFB100-M1X	CAP. ELEC 10 UF 50V +/-20%	C	2	C222, C311	
08-29274T-MAN	ASS'Y - MAIN BD	25-BFB108-M1X	CAP. ELEC 0.1 UF 50V +/-20%	C	1	C271	
08-29274T-MAN	ASS'Y - MAIN BD	25-BFB478-M1X	CAP. ELEC 0.47 UF 50V +/-20%	C	1	C208	
08-29274T-MAN	ASS'Y - MAIN BD	25-BFB479-M1X	CAP. ELEC 4.7 UF 50V +/-20%	C	2	C101, C124	
08-29274T-MAN	ASS'Y - MAIN BD	25-BKA100-M1X	CAP. ELEC 10 UF 200V +/-20%	C	1	C421	
08-29274T-MAN	ASS'Y - MAIN BD	25-BKG101-M1X	CAP. ELEC 100 UF 200V +/-20%	C	1	C422	
08-29274T-MAN	ASS'Y - MAIN BD	25-BLA100-M1X	CAP. ELEC 10 UF 250V +/-20%	C	1	C442	
08-29274T-MAN	ASS'Y - MAIN BD	38-236560-00X	COIL I.F.T. 236560 FOR VCO	C	1	T271	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0190-B00	WIRE BARE JUMPER 19MM	C	1	J823	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0752-JNX	RES. C.F. 7.5K OHM 1/6W +/-5%	C	2	R221, R288	
08-29274T-MAN	ASS'Y - MAIN BD	25-BFB101-M1X	CAP. ELEC 100 UF 50V +/-20%	C	1	C605	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0302-JNX	RES. C.F. 3K OHM 1/6W +/-5%	C	2	R601, R602	
08-29274T-MAN	ASS'Y - MAIN BD	25-GFB109-K1X	CAP. ELEC 1UF 50V +/-10%	C	1	C223	
08-29274T-MAN	ASS'Y - MAIN BD	18-EG0109-JHX	RES. FUS. 1 OHM 2W +/-5%	C	1	R431	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0470-JNX	RES. C.F. 47 OHM 1/6W +/-5%	C	5	R021, R077, R084, R085, R940	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	C	8	J223, J249A, J251, J661, J771, J811, J912, J913	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	C	4	R066, R211, R965, R967	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0332-JNX	RES. C.F. 3.3K OHM 1/6W +/-5%	C	8	R013, R014, R074, R076, R111, R254, R302, R472	
08-29274T-MAN	ASS'Y - MAIN BD	67-H30147-1A0	HEAT SINK FOR HORIZ	C	1	FOR Q412	
08-29274T-MAN	ASS'Y - MAIN BD	67-H30179-3A0	HEAT SINK	C	1	FOR IC301	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0090-B00	WIRE BARE JUMPER 9MM	C	2	J031, J634	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0170-B00	WIRE BARE JUMPER 17MM	C	3	J231, J240, J835	
08-29274T-MAN	ASS'Y - MAIN BD	67-H30705-3A0	HEAT SINK	C	1	FOR IC601	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	C	8	R092, R631, R722, R915, R916, R920, R925, R952	
08-29274T-MAN	ASS'Y - MAIN BD	71-270870-0A9	LABEL	H	2		
08-29274T-MAN	ASS'Y - MAIN BD	27-PBC103-J0X	CAP. P.E. 0.01UF 50V +/-5%	C	1	C052	
08-29274T-MAN	ASS'Y - MAIN BD	25-BEA102-M1X	CAP. ELEC 1000 UF 35V +/-20%	C	2	C432, C610	
08-29274T-MAN	ASS'Y - MAIN BD	25-BEA471-M1X	CAP. ELEC 470 UF 35V +/-20%	C	2	C607, C608	
08-29274T-MAN	ASS'Y - MAIN BD	18-FE0472-JNX	RES. M.O. 4.7K OHM 1/2W +/-5%	C	1	R471	
08-29274T-MAN	ASS'Y - MAIN BD	18-GM0302-KTX	RES. CEMENT 3K OHM 7W +/-10%	C	1	R404	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	C	8	J410, J511, J514, J615, J632, J725, J729, R238	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0110-B00	WIRE BARE JUMPER 11MM	C	11	J227, J228, J244, J302, J313, J322, J324, J612, J614, J625, JP213	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0200-B00	WIRE BARE JUMPER 20MM	C	7	J312, J427, J624, J626, J727, J824, J831	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	C	12	J131, J206, J218, J222, J225, J263, J352, J643, J772, J813, J951, J981	
08-29274T-MAN	ASS'Y - MAIN BD	10-0BY228-F0X	DIODE BY228 (FAST RECTIFIER)	C	1	D411	
08-29274T-MAN	ASS'Y - MAIN BD	10-1N4001-EBX	DIODE 1N4001 (RECTIFIER)	C	1	D301	
08-29274T-MAN	ASS'Y - MAIN BD	10-55C12V-DBX	DIODE ZENER 12V 1/2W +/-5%	C	2	D731, D732	
08-29274T-MAN	ASS'Y - MAIN BD	10-55C4V7-DBX	DIODE ZENER 4.7V 1/2W +/-5%	C	1	D222	
08-29274T-MAN	ASS'Y - MAIN BD	10-55C5V1-DBX	DIODE ZENER 5V1 1/2W +/-5%	C	2	D061, D101	



Sheet1

08-29274T-MAN	ASS'Y - MAIN BD	10-55C8V2-DBX	DIODE ZENER 8V2 1/2W +/-5%	C	2	D240, D471	
08-29274T-MAN	ASS'Y - MAIN BD	10-CW574C-DJX	DIODE CW574CS	C	1	D111	
08-29274T-MAN	ASS'Y - MAIN BD	10-TFR104-FBX	DIODE TFR104 (FAST RECOVERY)	C	4	D412, D421, D431, D441	
08-29274T-MAN	ASS'Y - MAIN BD	11-SA1015-YBX	TRANSISTOR 2SA1015Y	C	7	Q061, Q211, Q241, Q242, Q633, Q721, Q934	
08-29274T-MAN	ASS'Y - MAIN BD	27-MBC224-J0X	CAP. M.P.E. 0.22 UF 50V +/-5%	C	1	C113	
08-29274T-MAN	ASS'Y - MAIN BD	11-0BC337-0BX	TRANSISTOR BC337-40 (NPN)	C	1	Q062	
08-29274T-MAN	ASS'Y - MAIN BD	11-2N3904-0BX	TRANSISTOR 2N3904 (NPN)	C	1	Q091	
08-29274T-MAN	ASS'Y - MAIN BD	11-SC1815-YBX	TRANSISTOR 2SC1815Y	C	24	Q001, Q002, Q031, Q051, Q251, Q252, Q261, Q451, Q631, Q711, Q911, Q912, Q913, Q921, Q922, Q923	Q931, Q932, Q933, Q963, Q964, Q971, Q981, Q991
08-29274T-MAN	ASS'Y - MAIN BD	11-SC3779-DBX	TRANSISTOR 2SC3779D (RF AMPL)	H	1	Q121	
08-29274T-MAN	ASS'Y - MAIN BD	11-SC4544-0AX	TRANSISTOR 2SC4544 (NPN)	C	1	Q401	
08-29274T-MAN	ASS'Y - MAIN BD	11-DD1556-0AX	TRANSISTOR 3DD1556 (HORIZ)	C	1	Q412	
08-29274T-MAN	ASS'Y - MAIN BD	11-SD1499-QAX	TRANSISTOR 2SD1499Q (POWER)	H	1	Q722	
08-29274T-MAN	ASS'Y - MAIN BD	11-SK2541-0BX	TRANSISTOR 2SK2541 (N-CHANNEL)	H	2	Q052, Q212	
08-29274T-MAN	ASS'Y - MAIN BD	25-264610-M1X	CAP. ELEC 4.7UF 50V +/-20% NP	C	1	C417	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP101-JCX	CAP. CER 100 PF 50V +/-5% CH	H	5	C032, C071, C254, C255, C272	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP102-KBX	CAP. CER 1000 PF 50V +/-10% B	H	16	C001, C002, C013, C061, C062, C127, C224, C305, C312, C411, C602, C606, C936, C937, C942, C971	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP120-JCX	CAP. CER 12 PF 50V +/-5% CH	H	1	C209	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP150-JCX	CAP. CER 15 PF 50V +/-5% CH	H	4	C041, C042, C043, C044	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP222-KBX	CAP. CER 2200PF 50V +/-10% B	H	1	C452	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP300-JZX	CAP. CER 30 PF 50V +/-5% SL	H	2	C055, C056	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP330-JZX	CAP. CER 33 PF 50V 5% SL TUBU	H	2	C128, C953	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP331-JCX	CAP. CER 330 PF 50V +/-5% CH	H	6	C004, C063, C084, C085, C091, C301	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP390-JCX	CAP. CER 39 PF 50V +/-5% CH	H	1	C051	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP470-JZX	CAP. CER 47 PF 50V +/-5% SL	H	4	C072, C073, C261, T141	
08-29274T-MAN	ASS'Y - MAIN BD	27-MCC272-J0X	CAP. P.E. 2700 PF 100V +/-5%	C	1	C471	
08-29274T-MAN	ASS'Y - MAIN BD	45-OSC4M4-3Y0	CRYSTAL 4.43 MHZ	C	1	X201	
08-29274T-MAN	ASS'Y - MAIN BD	45-TRA5M5-0Y0	CER. TRAP 5.5 MHZ	C	1	Z254	
08-29274T-MAN	ASS'Y - MAIN BD	45-OSC8M0-0Y0	CRYSTAL 8.0MHZ	C	1	X051	
08-29274T-MAN	ASS'Y - MAIN BD	46-20598W-04X	PIN BASE *4 TJC1-4A	C	1	P411	FOR DY CONNECT.
08-29274T-MAN	ASS'Y - MAIN BD	47-SVI002-XX0	SOCKET S-W16-J	C	1	P981	
08-29274T-MAN	ASS'Y - MAIN BD	63-B30100-BT4	S/T SCREW B 3 X 10 BT	C	2	MTG M.BD & FBT	
08-29274T-MAN	ASS'Y - MAIN BD	63-W30100-AB4	S/T SCREW W 3 X 10 AB	C	7	MTG M.BD & BKT	
08-29274T-MAN	ASS'Y - MAIN BD	64-P30080-104	M/C SCREW P 3 X 8	C	1	FOR Q722	
08-29274T-MAN	ASS'Y - MAIN BD	64-P30080-104	M/C SCREW P 3 X 8	C	1	FOR IC301	
08-29274T-MAN	ASS'Y - MAIN BD	64-P30080-104	M/C SCREW P 3 X 8	C	1	FOR Q412	
08-29274T-MAN	ASS'Y - MAIN BD	64-P30100-104	M/C SCREW P 3 X 10	C	2	FOR IC601	
08-29274T-MAN	ASS'Y - MAIN BD	65-Z30050-23M	NUT M 3	C	2	FOR IC301 & Q412	
08-29274T-MAN	ASS'Y - MAIN BD	65-Z30050-23M	NUT M 3	C	2	FOR IC601	
08-29274T-MAN	ASS'Y - MAIN BD	37-BSC290-1650X	FLYBACK BSC29-0165	C	1	T461	
08-29274T-MAN	ASS'Y - MAIN BD	25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	C	13	C202, C274, C911, C912, C913, C921, C922, C923, C931, C932, C943, C981, C991	

Sheet1

08-29274T-MAN	ASS'Y - MAIN BD	18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	C	20	R005, R012A, R017, R029, R031, R051, R054, R055, R061, R101, R102, R225, R237, R633, R716, R757	R960, R961, R962, R989
08-29274T-MAN	ASS'Y - MAIN BD	25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	C	2	C634, C933	
08-29274T-MAN	ASS'Y - MAIN BD	10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	C	13	D041, D042, D043, D044, D211, D212, D213, D221, D223, D280, D632, D711, D721	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0085-B00	WIRE BARE JUMPER 8.5MM	C	14	J122, J204, J205, J348, J409, J424, J441, J502, J503, J553, J554, J621, J723, J822	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0135-B00	WIRE BARE JUMPER 13.5MM	C	7	J224, J236, J247, J248A, J345, J411, R228A	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0130-B00	WIRE BARE JUMPER 13MM	C	3	J239, J346, J413	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP221-JCX	CAP. CER 220 PF 50V +/-5% CH	H	4	C021, C092, C112, C228A	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0153-JNX	RES. C.F. 15K OHM 1/6W +/-5%	C	7	R057, R072, R112, R113, R452, R632A, R987	
08-29274T-MAN	ASS'Y - MAIN BD	46-33079W-04X	PIN BASE *4 TJC3-4A	C	1	P421	FOR CRT BD P502
08-29274T-MAN	ASS'Y - MAIN BD	46-33079W-06X	PIN BASE *6 TJC3-6A	C	1	P002	FOR W.BAL. ADJUST
08-29274T-MAN	ASS'Y - MAIN BD	46-33079W-06X	PIN BASE *6 TJC3-6A	C	1	P003	FOR SIDE AV BD
08-29274T-MAN	ASS'Y - MAIN BD	46-33079W-02X	PIN BASE *2 TJC3-2A	C	1	P602	FOR FRONT CAB. (SPK)
08-29274T-MAN	ASS'Y - MAIN BD	46-33079W-05X	PIN BASE *5 TJC3-5A	C	1	P001	FOR F CTL BD P001B
08-29274T-MAN	ASS'Y - MAIN BD	46-33079W-05X	PIN BASE *5 TJC3-5A	C	1	P201	FOR CRT BD P503
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP220-JCX	CAP. CER 22 PF 50V +/-5% CH	H	2	C053, C054	
08-29274T-MAN	ASS'Y - MAIN BD	47-RCA023-XX1	RCA JACK 3PV YEL WHI RED/SW	H	2	P911, P931	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0060-B00	WIRE BARE JUMPER 6MM	C	42	J022A, J044, J123, J132, J141, J229, J230, J232, J242, J261, J301, J327, J328, J338, J401, J421	J512, J523, J543, J601, J633, J732, J733, J825, J826, J832, J834, J836, J837, J838, J911, J921, R023, R024, R025, R026, R027, R028A, R028B, R028C, R126, R224
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	C	33	D141, J041, J043, J124, J151, J152, J154, J207, J208, J217, J241, J331, J351, J405, J406, J407	J400, J412, J541, J544, J551, J642, J651, J656, J693, J712, J734, J812, J821, J833, J851, J915, J941
08-29274T-MAN	ASS'Y - MAIN BD	07-389V15-NX4	TUNER UV1355-BK2(BG/HB/IEC/5V)	H	1	TU101	
08-29274T-MAN	ASS'Y - MAIN BD	36-HDR001-XX1	TRANSFORMER HORIZ DRIVE	C	1	T401	
08-29274T-MAN	ASS'Y - MAIN BD	90-209770-SR1	SILICONE GREASE G-746 (1KG/CAN	H	0.0009	FOR IC601 & Q412 & Q722	
08-29274T-MAN	ASS'Y - MAIN BD	90-269080-ZU0	CLEAN COATING TC-131L 14KG/BAR	H	0.0001		
08-29274T-MAN	ASS'Y - MAIN BD	13-00M24C-08P	IC M24C08 EEPROM 8K		1	IC002	
08-29274T-MAN	ASS'Y - MAIN BD	13-0TA842-7KS	IC TA8427K		1	IC301	
08-29274T-MAN	ASS'Y - MAIN BD	34-A109K2-1IX	COIL CHOKE 1 UH +/-10% (5MM)	C	2	L121, L141	
08-29274T-MAN	ASS'Y - MAIN BD	25-BCA471-M1X	CAP. ELEC 470 UF 16V +/-20%	C	1	C082	
08-29274T-MAN	ASS'Y - MAIN BD	45-SAWK33-50K	SAW FILTER K3350K (38.9MHZ)	H	1	Z141	
08-29274T-MAN	ASS'Y - MAIN BD	27-MBC474-J0X	CAP. M.P.E. 0.47 UF 50V +/-5%	C	4	C225, C243, C603, C604	

Sheet1

08-29274T-MAN	ASS'Y - MAIN BD	13-274020-00P	IC TMP87PS38N M3 TSB CPU (OTP)	H	1	IC001	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	C	11	R003, R006, R007, R009, R015, R016, R065, R073, R075, R241, R253	
08-29274T-MAN	ASS'Y - MAIN BD	25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	C	8	C074, C106, C214, C227, C276, C651, C655, C952	
08-29274T-MAN	ASS'Y - MAIN BD	25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	C	7	C064, C217, C228, C257, C934, C944, C969	
08-29274T-MAN	ASS'Y - MAIN BD	25-BFB109-M1X	CAP. ELEC 1 UF 50V +/-20%	C	3	C206, C253, C631	
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP103-ZFX	CAP. CER 0.01UF 50V +80-20% F	H	18	C075, C083, C111, C121, C125, C126, C203, C205, C215, C226, C229, C256, C273, C275, C732, C935	C961, C962
08-29274T-MAN	ASS'Y - MAIN BD	26-EBP104-ZFX	CAP. CER 0.1UF 50V +80-20% F	H	7	C107, C114, C204, C609, C635, C745, C945	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0050-B00	WIRE BARE JUMPER 5MM	C	20	C262, C661, C662, C946, J410A, J415, J416, J417, J418, J419, J420, J435, J436, J437, J636, J637	J773, J871, J954, J955
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0070-B00	WIRE BARE JUMPER 7MM	C	8	J023, J233A, J426, J513, J671, J672, J726, J741	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0100-B00	WIRE BARE JUMPER 10MM	C	18	J001, J002, J061, J134, J135, J203, J402, J423, J432, J501, J611, J631, J652, J653, J692, J728	J735, J916
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0120-B00	WIRE BARE JUMPER 12MM	C	7	J051, J250, J253, J254, J434, J644, J711	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0150-B00	WIRE BARE JUMPER 15MM	C	15	J032, J133, J153, J235, J237, J243, J245, J255, J262, J347, J461, J542, J714, J761, J931	
08-29274T-MAN	ASS'Y - MAIN BD	41-WJ0160-B00	WIRE BARE JUMPER 16MM	C	5	J238, J325, J334, J431, J645	
08-29274T-MAN	ASS'Y - MAIN BD	46-27306H-02X	HS 2P24 150/5 F/W S11-02H	C	1	FOR Q931(B)&Q932(B) TO NICAM BD P1003	
08-29274T-MAN	ASS'Y - MAIN BD	18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	C	15	D215, D631, R041, R042, R043, R044, R218, R242, R713, R914, R924, R972, R982, R988, R991	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	67-H29550-8A0	HEAT SINK	C	1	FOR IC801	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	67-H34692-0A0	HEAT SINK	C	1	FOR IC801	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	26-AKK222-KRX	CAP. CER 2200 PF 1KV +/-10% R	C	1	C814	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	13-00SE12-5NS	IC SE125N-LF12 ERROR	H	1	IC831	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CD0472-JNX	RES. C.F. 4.7K OHM 1/4W +/-5%	C	1	R831	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	66-343730-0B0	HOLLOW RIVET 1.6X3.0XL3.2	C	4	FOR T802	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	13-STRF66-56P	IC STR-F6656	H	1	IC801	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CB0152-JNX	RES. C.F. 1.5K OHM 1/6W +/-5%	C	1	R833	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	C	1	R840	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CB0332-JNX	RES. C.F. 3.3K OHM 1/6W +/-5%	C	1	R838	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CB0392-JNX	RES. C.F. 3.9K OHM 1/6W +/-5%	C	1	R841	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CD0102-JNX	RES. C.F. 1K OHM 1/4W +/-5%	C	2	R805, R808	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CD0272-JNX	RES. C.F. 2.7K OHM 1/4W +/-5%	C	1	R813	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CD0470-JNX	RES. C.F. 47 OHM 1/4W +/-5%	C	1	R809	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CD0479-JNX	RES. C.F. 4.7 OHM 1/4W +/-5%	C	1	R811	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CD0829-JNX	RES. C.F. 8.2 OHM 1/4W +/-5%	C	1	R842	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CE0105-JNX	RES. C.F. 1M OHM 1/2W +/-5%	C	2	R806, R806A	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-CE0563-JNX	RES. C.F. 56K OHM 1/2W +/-5%	C	2	R803, R804	
08-02927T-PW1	ASS'Y - POWER PARTS "AUST"	18-FG0223-JHX	RES. M.O. 22K OHM 2W +/-5%	C	1	R836	

Sheet1

08-02927T-PW1	ASSY - POWER PARTS "AUST"	18-FG0333-JHX	RES. M.O. 33K OHM 2W +/-5%	C	2	R810, R839		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	18-GG0228-JHX	RES WIRE ROUND 0.22 OHM 2W 5%	C	1	R830		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	26-AIC221-KBX	CAP. CER 220 PF 500V +/-10% B	C	5	C830, C833, C836, C841, C844		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	26-AIM103-KBX	CAP. CER 0.01 UF 500V +/-10% B	C	3	C805, C834, C837		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	26-AQK472-ZFX	CAP. CER 4700PF 250VAC+80-20%F	C	2	C803, C804		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	27-AQT224-MVF	CAP. M.PP 0.22UF 250VAC 20% CB	H	2	C801, C802		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	35-237250-00X	FERR. BEAD HF70	C	2	FOR D804		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	C	2	J271, J281		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0190-B00	WIRE BARE JUMPER 19MM	C	1	J354		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0200-B00	WIRE BARE JUMPER 20MM	C	1	J381		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	66-20516X-0B0	FUSE HOLDER	C	2	FOR F801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	67-H10918-4M2	HEAT SINK	C	2	FOR IC841 & IC851		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	13-00MC78-09S	IC MC7809C LINEAR +9V 1A	H	1	IC851		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	27-MHM104-K0X	CAP. METAL P.E. 0.1UF 400V 10%	C	1	C802A		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	35-237250-00X	FERR. BEAD HF70	C	2	FOR D831		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	35-237250-00X	FERR. BEAD HF70	C	2	FOR D832		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	35-237250-00X	FERR. BEAD HF70	C	2	FOR D833		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	35-237250-00X	FERR. BEAD HF70	C	2	FOR D834		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	50-26931D-1VS	FUSE 3.15AT 250VAC 5X20MM BELL	H	1	F801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	18-CD0560-JNX	RES. C.F. 56 OHM 1/4W +/-5%	C	1	R837		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	C	2	C849, C855		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	25-BDB470-M1X	CAP. ELEC 47 UF 25V +/-20%	C	1	C809		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	25-BEA102-M1X	CAP. ELEC 1000 UF 35V +/-20%	C	1	C832		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	25-BKA100-M1X	CAP. ELEC 10 UF 200V +/-20%	C	2	C808, C838		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	25-BKJ221-M1X	CAP. ELEC 220 UF 200V +/-20%	C	1	C835		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	C	1	J451		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0100-B00	WIRE BARE JUMPER 10MM	C	3	J371, J654, J655		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0145-B00	WIRE BARE JUMPER 14.5MM	C	1	J491		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0180-B00	WIRE BARE JUMPER 18MM	C	1	J353		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	C	1	J471		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0155-B00	WIRE BARE JUMPER 15.5MM	C	2	J561, J562		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	18-KE0105-JNX	RES. H. VOLT. CC 1M OHM 1/2W	C	1	R801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	35-237250-00X	FERR. BEAD HF70	C	2	FOR D830		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	36-TRF001-XX2	TRANSFORMER CONV. KB49C1640	C	1	T802		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	25-BCB331-M1X	CAP. ELEC 330 UF 16V +/-20%	C	1	C843		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	18-GG0158-JHX	RES WIRE ROUND 0.15 OHM 2W 5%	C	1	R807		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-0TEU1Z-FBX	DIODE EU1Z (FAST RECOVERY)	C	3	D804, D805, D806		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-0EG01C-FBX	DIODE EG01C (FAST RECTIFIER)	C	1	D803		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-1N4004-EBX	DIODE IN4004 (RECTIFIER)	C	1	D843		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	C	1	D842		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-55C10V-DBX	DIODE ZENER 10V 1/2W +/-5%	C	1	D840		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-55C16V-DBX	DIODE ZENER 16V 1/2W +/-5%	C	1	D807		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-55C2V4-DBX	DIODE ZENER 2V4 1/2W 5%	C	1	D841		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-55C3V9-DBX	DIODE ZENER 3.9V 1/2W +/-5%	C	1	D839		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-T3SB60-H7X	DIODE T3SB60 (BRIDGE RECT.)	C	1	DB801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-TFR104-FBX	DIODE TFR104 (FAST RECOVERY)	C	1	D832		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	11-0BF422-0BX	TRANSISTOR BF422	H	1	Q831		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	11-SB649A-0AX	TRANSISTOR 2SB649A	H	1	Q830		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	11-SC4793-0AX	TRANSISTOR 2SC4793 (VM)	H	1	Q801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	13-000L78-05S	IC L7805 CV 5V 1A (REGULATOR)	H	1	IC841		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	13-SFH615-A3P	PHOTO COUPLER SFH615A3C	H	1	IC802		

Sheet1

08-02927T-PW1	ASSY - POWER PARTS "AUST"	22-NTC479-XX0	NTC 4.7 OHM +/-18% NTC4.7D2-14	C	1	R802		
						C831, C842, C845, C847, C848, C854,		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	26-EBP104-ZFX	CAP. CER 0.1UF 50V +80-20% F	H	7	C856		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	26-AMK221-JZX	CAP. CER 220 PF 2KV +/-5% SL	C	1	FOR P2 - P3 OF IC801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	26-AMK221-JZX	CAP. CER 220 PF 2KV +/-5% SL	C	1	C807		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	26-EBP102-KBX	CAP. CER 1000 PF 50V +/-10% B	H	1	C811		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	26-EBP103-ZFX	CAP. CER 0.01UF 50V +80-20% F	H	1	C815		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	26-EBP221-JCX	CAP. CER 220 PF 50V +/-5% CH	H	1	C810		
							FOR DEGAUSSING COIL	
08-02927T-PW1	ASSY - POWER PARTS "AUST"	46-10962W-02X	PIN BASE *2 TJC2-2A	C	1	P801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	46-28559W-02X	PIN BASE *2 TJC1-2A	C	1	P802A		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	65-Z30050-23M	NUT M 3	C	1	FOR IC801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0050-B00	WIRE BARE JUMPER 5MM	C	6	J802, J804, J805, J806, J807, J808		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0150-B00	WIRE BARE JUMPER 15MM	C	1	R812		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	C	2	J361, J492		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	22-PTC140-XX0	PTC 14 OHM	C	1	RT801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	18-KF0825-JHX	VOLTAGE RES. 8.2M OHM 1W +/-5%	C	1	R835		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	36-LIF002-XX0	LINE FILTER 20 MH	C	1	T803		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	36-LIF005-XX0	LINE FILTER	C	1	T801		
						MTG H.SINK(67-H29550-8A0&67-		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	64-P30080-104	M/C SCREW P 3 X 8	C	2	H34692-0A0)		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	64-P30080-104	M/C SCREW P 3 X 8	C	2	FOR IC841 & IC851		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	64-B30120-104	M/C SCREW B 3 X 12	C	1	FOR IC801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-0EU2YX-F0X	DIODE EU2YX (FAST RECOVERY)	C	2	D833, D834		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-0RU3AM-F01	DIODE RU3AM (FAST RECOVERY)	F	1	D831		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	10-0RU4YX-F0X	DIODE RU4YX (FAST RECOVERY)	C	1	D830		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	34-R220K2-1BX	COIL CHOKE 22 UH +/-10%	C	1	L838		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	25-BMJ221-M1X	CAP. ELEC 220 UF 400V +/-20%	C	1	C806		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	34-A608K6-1BX	COIL CHOKE 0.6 UH +/-10%	C	1	L801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	66-343730-0B0	HOLLOW RIVET 1.6X3.0XL3.2	C	2	FOR DB801		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	26-APK222-ME4	CAP. CER 2200PF 400VAC +/-20% E	C	1	C839		
08-02927T-PW1	ASSY - POWER PARTS "AUST"	26-APK471-KB4	CAP. CER 470PF 400VAC +/-10% B	H	2	C812, C813		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	40-2927UA-FBA	P.C.B. FRONT CTL & SW BD	C	1			
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	C	1	J075		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	48-325390-002	SWITCH POWER PS5E-B	C	1	S801B		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	62-269940-0HA	POWER SW. ADAPTER	C	1			
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	18-CB0332-JNX	RES. C.F. 3.3K OHM 1/6W +/-5%	C	1	R025A		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	18-CB0470-JNX	RES. C.F. 47 OHM 1/6W +/-5%	C	1	R070A		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	C	1	R033B		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	C	1	R033A		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	18-CB0822-JNX	RES. C.F. 8.2K OHM 1/6W +/-5%	C	2	R022A, R026A		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	18-CB0153-JNX	RES. C.F. 15K OHM 1/6W +/-5%	C	1	R027A		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	51-JC0243-0CH	POWER CORD SAA PLUG W/HOUSING	H	1			
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	62-310430-0HA	LED HOLDER (COMMON) (8MM)	C	1			
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	18-CB0152-JNX	RES. C.F. 1.5K OHM 1/6W +/-5%	C	1	R023A		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	18-CB0182-JNX	RES. C.F. 1.8K OHM 1/6W +/-5%	C	1	R024A		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	C	1	R027B		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	C	1	C070A		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	41-WJ0060-B00	WIRE BARE JUMPER 6MM	C	3	J070, J071, J074		
08-02927T-FB1	ASSY - F.CTL & SW.BD "AUST"	14-LED05R-XX0	LED HFR105 (5MM)	C	1	D1001		

Sheet1

08-02927T-FB1	ASS'Y - F.CTL & SW.BD "AUST"	46-28559W-02X	PIN BASE *2 TJC1-2A	C	1	P801B	FOR POWER CORD
08-02927T-FB1	ASS'Y - F.CTL & SW.BD "AUST"	46-28559W-02X	PIN BASE *2 TJC1-2A	C	1	P801A	
08-02927T-FB1	ASS'Y - F.CTL & SW.BD "AUST"	63-P30060-0B3	S/T SCREW P 3 X 6 B (BLACK)	C	5	MTG F.CTL BD & M.BD BKT	
08-02927T-FB1	ASS'Y - F.CTL & SW.BD "AUST"	46-30407H-05X	HS UL2468#24 5C/TS 180 TJC3-5Y	C	1	P001B	FOR M. BD P001
08-02927T-FB1	ASS'Y - F.CTL & SW.BD "AUST"	46-32269H-02X	HS 2P22 200 TJC1-2Y/TJC1-2Y	C	1	FOR F. CTL BD(P801A) & M.BD(P802A)	
08-02927T-FB1	ASS'Y - F.CTL & SW.BD "AUST"	11-IRR001-1X0	IR RECEIVER HS0038A2	C	1	IR001	
08-02927T-FB1	ASS'Y - F.CTL & SW.BD "AUST"	48-TAC002-XX0	SW. TACT VERT (H=4MM L=6.4MM)	C	7	S001A, S002A, S003A, S004A, S005A, S006A, S007A	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	18-FG0183-JHX	RES. M.O. 18K OHM 2W +/-5%	C	3	R516, R517, R518	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	C	1	R515	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	18-CB0561-JNX	RES. C.F. 560 OHM 1/6W +/-5%	C	3	R501, R505, R510	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	18-CB0681-JNX	RES. C.F. 680 OHM 1/6W +/-5%	C	8	R502, R503, R506, R508, R509, R511, R513, R522	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	35-237250-00X	FERR. BEAD HF70	C	2	FOR C508 (L505 & L506)	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	41-WJ0050-B00	WIRE BARE JUMPER 5MM	C	1	L504	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	C	1	J503	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	18-CB0272-JNX	RES. C.F. 2.7K OHM 1/6W +/-5%	C	1	R514	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	47-265540-1U5	SOCKET CRT GZS10-2-108D	C	1	S501	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	25-BLA100-M1X	CAP. ELEC 10 UF 250V +/-20%	C	1	C504	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	18-FE0272-JNX	RES. M.O. 2.7K OHM 1/2W +/-5%	C	3	R519, R520, R521	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	C	3	D501, D502, L501	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	40-02501C-CRG	P.C.B. CRT BD	C	1		
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	11-A562TM-0BX	TRANSISTOR 2SA562TM-0	C	1	Q507	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	11-SC1815-YBX	TRANSISTOR 2SC1815Y	C	3	Q502, Q504, Q506	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	11-SC4544-0AX	TRANSISTOR 2SC4544 (NPN)	C	3	Q501, Q503, Q505	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	26-EBP471-JCX	CAP. CER 470 PF 50V +/-5% CH	H	1	C503	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	26-EBP391-JCX	CAP. CER. 390PF 50V +/-5% CH	H	2	C501, C502	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	26-EBP103-ZFX	CAP. CER 0.01UF 50V +80-20% F	H	2	C508, C509	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	46-10967W-01X	PIN BASE *1 TJC1-1A	C	1	P501	FOR CRT GROUNDING HOUS.
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	46-30615H-04X	HS 4P24 460 F/W TJC3-4Y/SCN-4	C	1	P502	FOR M. BD P421
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	41-WJ0060-B00	WIRE BARE JUMPER 6MM	C	4	J510, R504, R507, R512	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	34-R220K2-1BX	COIL CHOKE 22 UH +/-10%	C	2	L502, L503	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	25-BCA471-M1X	CAP. ELEC 470 UF 16V +/-20%	C	1	C506	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	26-AMK182-KRX	CAP. CER 1800PF 2KV +/-10% R	C	1	C505	
08-02916T-CR3	ASS'Y - CRT BD (NOVEL)	46-37030H-05X	HS 5P 2468#24 450 TJC3-5Y/SCN	C	1	P503	FOR M. BD P201
08-02927T-AVY	ASS'Y - SIDE AV BD	46-29272H-06X	HS 6P24 275 F/W TJC3-6Y/SCN-6Y	C	1	P902	P2-P7 FOR M. BD P003
08-02927T-AVY	ASS'Y - SIDE AV BD	40-2927MT-SIB	P.C.B. SIDE AV BD	C	1		
08-02927T-AVY	ASS'Y - SIDE AV BD	41-WJ0060-B00	WIRE BARE JUMPER 6MM	C	4	C954, C955, J955, R953	
08-02927T-AVY	ASS'Y - SIDE AV BD	41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	C	2	R952, R967	
08-02927T-AVY	ASS'Y - SIDE AV BD	41-WJ0070-B00	WIRE BARE JUMPER 7MM	C	2	J952, J953	
08-02927T-AVY	ASS'Y - SIDE AV BD	47-RCA041-XX0	JACK RCA 3PH H=8MM YL WH RD/SW	C	1	P951	
08-29274T-FCN	ASS'Y - FRONT CABINET	02-GND029-XX0	ASS'Y-CRT GND WIRE & HOUS.(29)	C	1		
08-29274T-FCN	ASS'Y - FRONT CABINET	36-294960-017	DEGAUSSING XC-74A-3100-TCL 29"	C	1		
08-29274T-FCN	ASS'Y - FRONT CABINET	44-29NFLS-YX4A	CRT 73SX707Y22-DC01 (AUST)	H	1	CRT01	
08-29274T-FCN	ASS'Y - FRONT CABINET	46-14026H-02X	HS 2P24 5707 F/W S11-02H	C	1	P601H	FOR M. BD P601
08-29274T-FCN	ASS'Y - FRONT CABINET	54-113971-0UE	PVC TUBE #6 L=160MM	H	2	FOR SPK HOUSING	

Sheet1

08-29274T-FCN	ASSY - FRONT CABINET	63-H60300-0B4	S/T SCREW H 6 X 30 B	C	4	MTG CRT & FRONT CAB.	
08-29274T-FCN	ASSY - FRONT CABINET	63-W30100-AB4	S/T SCREW W 3 X 10 AB	C	1	MTG LENS & FRONT CAB.	
08-29274T-FCN	ASSY - FRONT CABINET	63-W30100-AB4	S/T SCREW W 3 X 10 AB	C	3	MTG PUSH BUTTON & FRONT CAB.	
08-29274T-FCN	ASSY - FRONT CABINET	63-W30140-HS4	S/T SCREW W 3 X 14 HS	C	8	MTG SPK & FRONT CAB.	
08-29274T-FCN	ASSY - FRONT CABINET	65-A60180-20E	EXT. TOOTH WASHTER 6 X 18 X 2	C	4	FOR CRT & FRONT CAB.	
08-29274T-FCN	ASSY - FRONT CABINET	59-130460-00X	RUBBER PAD (25MMX7MM)	C	4	FOR CRT & SPK	
08-29274T-FCN	ASSY - FRONT CABINET	62-216340-0UA	HOLDER POWER CORD	C	1		
08-29274T-FCN	ASSY - FRONT CABINET	63-B30080-BT4	S/T SCREW 3 X 8 BT	C	2	MTG SIDE AV BD & FRONT CAB.	
08-29274T-FCN	ASSY - FRONT CABINET	42-81608F-XX1	SPEAKER (80MMX160MM) 8 OHM 8W	C	2	SP601, SP602	
08-29274T-FCN	ASSY - FRONT CABINET	46-27580H-02X	HS 2P22 600/7 F/W TJC3-2Y	C	1	P602H	FOR M. BD P602
08-29274T-FCN	ASSY - FRONT CABINET	54-205140-000	SPACER CRT MOUNTING T=2MM	C	4	MTG. CRT TO F.CAB	
08-29274T-FCN	ASSY - FRONT CABINET	54-314740-0X0	CRT FIBRE SHEET T=0.8MM	C	4		
08-29274T-FCN	ASSY - FRONT CABINET	59-130460-00X	RUBBER PAD (25MMX7MM)	C	2	STICK ON F. CAB.(FOOTING)	
08-29274T-FCN	ASSY - FRONT CABINET	59-312160-000	SPONGE CUSHION	C	8		
08-29274T-FCN	ASSY - FRONT CABINET	62-10654X-00F	UNI - TIE (2.5MMX95MM)	C	13		
08-29274T-FCN	ASSY - FRONT CABINET	67-216790-0E0	SPRING CRT 6MMX50MMX0.6MM	C	2		
08-29274T-FCN	ASSY - FRONT CABINET	67-242830-0E0	SPRING POWER KNOB	C	1		
08-29274T-FCN	ASSY - FRONT CABINET	55-2927FC-0AN	FRONT CABINET (94V-0 100%)	C	1		
08-29274T-FCN	ASSY - FRONT CABINET	56-2927LE-0HC	LENS - SENSOR	C	1		
08-29274T-FCN	ASSY - FRONT CABINET	58-2927SI-3UI	INLAY SIDE AV (RCA-3)	C	1		
08-29274T-FCN	ASSY - FRONT CABINET	56-2927PK-1HA	POWER KNOB	C	1		
08-29274T-FCN	ASSY - FRONT CABINET	56-2927FB-1HA	PUSH BUTTON	C	1		
08-29274T-RCN	ASSY - REAR CABINET	54-114000-00X	FELT TAPE 150X19MM	C	10	STICK ON REAR CAB.	
08-29274T-RCN	ASSY - REAR CABINET	55-2975RC-1AN	REAR CABINET (94V-0 100%)	C	1		
08-29274T-RCN	ASSY - REAR CABINET	58-2927RI-2UI	INLAY TERMINAL BD	C	1		
08-29274T-RCN	ASSY - REAR CABINET	58-2927MP-0UI	PLATE MODEL NO.	C	1		
08-29274T-RCN	ASSY - REAR CABINET	59-130460-00X	RUBBER PAD (25MMX7MM)	C	2	FOR REAR CAB. BUTTOM	
08-29274T-RCN	ASSY - REAR CABINET	63-B40200-AB3	S/T SCREW B 4 X 20 AB	C	11	MTG FRONT & REAR CAB.	
08-29274T-RCN	ASSY - REAR CABINET	63-F30100-BT3	S/T SCREW F 3 X 10 BT (BLACK)	C	2	MTG RCA JACK & REAR CAB.	
08-29274T-PAN	ASSY - PACKING	72-29274T-E03	OPERATION MANUAL	C	1		
08-29274T-PAN	ASSY - PACKING	74-022032-6WE	POLYBAG (22CMX32CMX0.06MM)	C	1		
08-29274T-PAN	ASSY - PACKING	74-130130-80HAA	POLYBAG W/SUFFOCATION WARNING	C	1		
08-29274T-PAN	ASSY - PACKING	75-2927LR-CC0	POLYFOAM (LR)	C	1		
08-29274T-PAN	ASSY - PACKING	75-2927LL-CC0	POLYFOAM "LL"	C	1		
08-29274T-PAN	ASSY - PACKING	75-2927UL-CC0	POLYFOAM "UL"	C	1		
08-29274T-PAN	ASSY - PACKING	75-2927UR-CC0	POLYFOAM "UR"	C	1		
08-29274T-PAN	ASSY - PACKING	76-A2927U-OAT	CARTON BOX	C	1		
08-29274T-PAN	ASSY - PACKING	49-341790-BAT	BATTERY AA SIZE	C	2		
08-02918T-NIY	ASSY - NICAM BD	13-P3410G-8BP	IC MSP 3410G B8	H	1	IC1001	
08-02918T-NIY	ASSY - NICAM BD	18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	C	2	R1022, R1023	
08-02918T-NIY	ASSY - NICAM BD	18-CB0152-JNX	RES. C.F. 1.5K OHM 1/6W +/-5%	C	1	R1002	
08-02918T-NIY	ASSY - NICAM BD	18-CB0332-JNX	RES. C.F. 3.3K OHM 1/6W +/-5%	C	1	R1003	
08-02918T-NIY	ASSY - NICAM BD	18-CB0470-JNX	RES. C.F. 47 OHM 1/6W +/-5%	C	1	R1001	
08-02918T-NIY	ASSY - NICAM BD	18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	C	3	R1019, R1020, R1021	
08-02918T-NIY	ASSY - NICAM BD	25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	C	2	C1001, C1013	
08-02918T-NIY	ASSY - NICAM BD	25-BFB109-M1X	CAP. ELEC 1 UF 50V +/-20%	C	1	C1005	
08-02918T-NIY	ASSY - NICAM BD	25-BFB339-M1X	CAP. ELEC 3.3 UF 50V +/-20%	C	1	C1020	
08-02918T-NIY	ASSY - NICAM BD	26-ABC152-KBX	CAP. CER 1500 PF 50V +/-10% B	C	1	C1017	
08-02918T-NIY	ASSY - NICAM BD	26-ABC272-KBX	CAP. CER 2700 PF 50V +/-10% B	C	2	C1006, C1007	
08-02918T-NIY	ASSY - NICAM BD	26-ABC339-CZX	CAP. CER 3.3 PF 50V +/-0.25 SL	C	2	C1026, C1027	
08-02918T-NIY	ASSY - NICAM BD	26-EBP102-KBX	CAP. CER 1000 PF 50V +/-10% B	H	4	C1008, C1009, C1010, C1011	

## Sheet1

08-02918T-NIY	ASS'Y - NICAM BD	26-EBP103-ZFX	CAP. CER 0.01UF 50V +80-20% F	H	1	C1002	
08-02918T-NIY	ASS'Y - NICAM BD	26-EBP104-ZFX	CAP. CER 0.1UF 50V +80-20% F	H	5	C1004, C1012, C1019, C1021, C1023	
08-02918T-NIY	ASS'Y - NICAM BD	26-EBP471-JCX	CAP. CER 470 PF 50V +/-5% CH	H	1	C1018	
08-02918T-NIY	ASS'Y - NICAM BD	26-EBP560-JCX	CAP CER 56PF 50V +/-5% CH	H	3	C1024, C1025, C1028	
08-02918T-NIY	ASS'Y - NICAM BD	27-MBC334-J0X	CAP. M.P.E 0.33UF 50V +/-5%	C	2	C1029, C1030	
08-02918T-NIY	ASS'Y - NICAM BD	27-PBC102-J0X	CAP. P.E. 1000 PF 50V +/-5%	C	1	C1031	
08-02918T-NIY	ASS'Y - NICAM BD	34-R100J2-0EX	COIL PL - 10 UH +/-5%	C	1	L1001	
08-02918T-NIY	ASS'Y - NICAM BD	40-2918NT-NIB	P.C.B. NICAM BD	C	1		
08-02918T-NIY	ASS'Y - NICAM BD	41-WJ0060-B00	WIRE BARE JUMPER 6MM	C	1	J1011	
08-02918T-NIY	ASS'Y - NICAM BD	41-WJ0065-B00	WIRE BARE JUMPER 6.5MM	C	2	J1003, J1014	
08-02918T-NIY	ASS'Y - NICAM BD	41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	C	2	J1001, J1002	
08-02918T-NIY	ASS'Y - NICAM BD	41-WJ0090-B00	WIRE BARE JUMPER 9MM	C	4	J1009, J1010, J1012, J1013	
08-02918T-NIY	ASS'Y - NICAM BD	45-OSC18M-4Y0	CRYSTAL 18.432M	C	1	X1001	
08-02918T-NIY	ASS'Y - NICAM BD	46-21550W-12X	HEADER *12 TS12B-SQ-1 L=10MM	C	1	P1001	FOR M.BD P1200
08-02918T-NIY	ASS'Y - NICAM BD	46-12866W-02X	PIN BASE *2 S11-02W	C	1	P1003	
08-02918T-NIY	ASS'Y - NICAM BD	67-257870-1T0	BRACKET IF BD	C	1		
08-02918T-NIY	ASS'Y - NICAM BD	67-257870-2T0	BRACKET IF BD	C	1		
08-02918T-NIY	ASS'Y - NICAM BD	18-CB0224-JNX	RES. C.F. 220K OHM 1/6W +/-5%	C	2	R1006, R1008	
08-02918T-NIY	ASS'Y - NICAM BD	11-SC1815-YBX	TRANSISTOR 2SC1815Y	C	3	Q1001, Q1002, Q1003	
08-02918T-NIY	ASS'Y - NICAM BD	41-WJ0150-B00	WIRE BARE JUMPER 15MM	C	6	J1004, J1005, J1006, J1007, J1008, J1015	
08-02918T-NIY	ASS'Y - NICAM BD	25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	C	7	C1003, C1014, C1015, C1016, C1022, C1033, C1034	
08-02918T-NIY	ASS'Y - NICAM BD	25-BCB220-M1X	CAP. ELEC 22 UF 16V +/-20%	C	1	C1032	
08-02918T-NIY	ASS'Y - NICAM BD	18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	C	4	R1011, R1014, R1017, R1018	
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	67-26968X-0E2	BATT. TERMINAL (+/-)	C	1		
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	67-310280-0E2	SPRING - BATTERY (-)	C	1		
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	67-310290-0E2	SPRING - BATTERY (+)	C	1		
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	74-009022-60C	POLYBAG HANDSET (9CMX22CM)	C	1		
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	49-HS46F0-00X	RUBBER PAD KEYS	C	1		
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	55-HS46FB-0HA	CASE LOWER - REMOTE HANDSET	C	1		
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	55-HS46FD-0HA	DOOR BATT. - REMOTE HANDSET	C	1		
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	55-HS46FT-0HA	CASE UPPER - REMOTE HANDSET	C	1		
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	58-HS46F2-MUI	INLAY IR TRANS.BD (NI/BG/SW)	C	1		
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	18-CB0229-JNX	RES. C.F. 2.2 OHM 1/6W +/-5%	C	1	R1502	
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	18-CB0682-JNX	RES. C.F. 6.8K OHM 1/6W +/-5%	C	1	R1501	
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	40-2909NT-RMB	P.C.B. REMOTE HANDSET	C	1		
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	10-1N4148-ABX	DIODE 1N4148 (SWITCHING)	C	5	D1502, D1503, D1504, D1505, D1507	
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	11-0BC337-0BX	TRANSISTOR BC337-40 (NPN)	C	1	Q1501	
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	14-IRE05B-XX0	INFARED EMITTING DIODE	C	1	D1501	
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	25-HBB470-M1X	CAP. ELEC 47UF 10V +/-20%	C	1	C1503	
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	26-EBP101-JCX	CAP. CER 100 PF 50V +/-5% CH	H	2	C1501, C1502	
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	45-COS455-KY0	CER RESONATOR 455 KHZ	C	1	X1501	
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	63-B26060-BT2	S/T SCREW B 2.6 X 6 BT	C	1		
08-HS46F0-M13C	ASS'Y - IR HANDSET (NI/BG/SW)	13-TC9028-23B	IC TC9028-023 (IR TRANS.)		1	IC1501	



# **TB1240 + TCLM13 chassis alignment instruction**

## Enter factory mode in production line

Simply press the D-mode key on the factory remote handset.

## Enter service mode

Press and hold the VOLUME DOWN key tightly on the unit until minimum level and don't release the VOLUMN DOWN key, then press the DISPLAY key on the remote handset three times.

"D" letter on the screen indicated that the factory mode was entered. Now you can use the shortcut key to access the factory menu. All change in factory data will save in EEPROM automatically

Note:

1. You can disable the D-Mode key (on factory remote handset) by change "BIT-0" of "MODE2" to "0". If the D-Mode key was disabled, you can't enter D-Mode by the D-mode key on the factory remote (but you can still enter service mode). It is suggested to disable the D-Mode key before the set leave the factory.
2. On the factory remote handset, you can find the "BUS OFF" key. It can cut off the I<sup>2</sup>C control from the CPU to other IC. This is only useful when automatic adjustment of white balance.
3. All system data in menu of "key 7" must keep unchanged when servicing. Otherwise, the set may not work properly.

## Setting method:

No	Adjustment Items	Data Name (default value inside blanket)	Conditions and input signal	Setting method (need enter D-mode)
1	Screen voltage	-----	"IRGB cut off" must set to 80 (all pattern)	● Press "MUTE" key on the remote handset and the screen will become a horizontal line. Then adjust the "screen" VR on the flyback until the horizontal line can just be seen (minimum visible intensity).
2	Focus voltage	-----	Cross hatch pattern.	● Adjust the "focus" VR on the flyback until the screen becomes clear.
3	VCO	-----	Apply an IF signal (see tuner spec. For frequency) to the IF input.	● Monitor the DC voltage at pin 48 of IC201, then adjust T271 until the voltage at pin 48 become 4.62 +/- 0.02 V. ● Press the AFT button on the factory remote and AFT adjustment will be done automatically.

4	Vertical geometry for PAL system (Key 2)	VPOS50 (04) HIGH50 (25) VLIN50 (04) VSC50 (05) OSD50 (20)	Input a PAL cross hatch pattern.	<ul style="list-style-type: none"> <li>● Adjust VPOS50 for vertical position.</li> <li>● Adjust HIGH50 for vertical amplitude.</li> <li>● Adjust VLIN50 for vertical linearity.</li> <li>● Adjust VSC50 for vertical S-correction</li> <li>● Adjust OSD50 for OSD position (normally use default value).</li> </ul>
5	Vertical geometry for NTSC system (Key 3)	VPOS60 (00) HIGH60 (2E) VLIN60 (05) VSC60 (0A) OSD60 (89)	Input a NTSC cross hatch pattern.	<ul style="list-style-type: none"> <li>● Adjust VPOS60 for vertical position.</li> <li>● Adjust HIGH60 for vertical amplitude.</li> <li>● Adjust VLIN60 for vertical linearity.</li> <li>● Adjust VSC60 for vertical S-correction</li> <li>● Adjust OSD60 for OSD position (normally use default value).</li> </ul>
6	Horizontal geometry for PAL system (Key 4)	HPOS50 (0D) HSIZE50 (2A) PARA50 (14) TRAP50 (0E) CORN50 (0A) VEHT50 (03) HEHT50 (02)	Input a PAL cross hatch pattern with black and white background.	<ul style="list-style-type: none"> <li>● Adjust HPOS50 for horizontal position.</li> <li>● Adjust HSIZE50 for horizontal width.</li> <li>● Adjust PARA50, TRAP50 and CORN50 until the vertical line at left and right side of the picture become straight.</li> <li>● VEHT and HENT is for the picture size stability when changing the brightness of the screen. Receive pattern of cross hatch with black background and then change to white background, then compare the vertical and horizontal size between black and white background. Adjust VEHT and HEHT until you get the minimum difference of screen size. After you adjust VEHT and HEHT, you must re-adjust vertical and horizontal amplitude.</li> </ul>
7	Horizontal geometry for NTSC system (Key 5)	HPOS60 (11) HSIZE60 (2A) PARA60 (18) TRAP60 (0D) CORN60 (0D) VEHT60 (03) HEHT60 (02)	Input a NTSC cross hatch pattern with black and white background.	<ul style="list-style-type: none"> <li>● Adjust HPOS60 for horizontal position.</li> <li>● Adjust HSIZE60 for horizontal width.</li> <li>● Adjust PARA60, TRAP60 and CORN60 until the vertical line at left and right side of the picture become straight.</li> <li>● Adjust VEHT and HEHT using same method of PAL system. Also need re-adjustment of vertical and horizontal amplitude.</li> </ul>
1 2	Key 6 (Status adjustment)	RFAGC (25) PIFAFT (44) HAFC (00) S-B-Y (08) S-R-Y (08) VOL 05 (48) VOL 25 (65) VOL OUT(73)	Receive a 60dB grey scale + color bar signal	<ul style="list-style-type: none"> <li>● RFAGC – monitor the voltage at AGC pin of the tuner. Then increase the setting of RFAGC until the tuner AGC voltage reach maximum (about 5V). Then decrease the RFAGC setting until the AGC voltage just drop.</li> <li>● Adjust S-B-Y and S-R-Y to get the optimal color for SECAM system.</li> <li>● Please keep the PIFAFT value after auto AFT adjustment.</li> <li>● HAFC item must use the default value.</li> </ul>

	(curve of volume control)		-----	<ul style="list-style-type: none"> <li>● VOL05 is the volume output level at 5%</li> <li>● VOL25 is the volume output level at 25%</li> </ul> <p>Remark: The value of VOL05 and VOL25 was not suggested to vary in every set. It is suggested to use the default value.</p>
13	White balance adjustment (key 1)	R CUT (6B) G CUT (9E) B CUT (7C) G DRV (39) B DRV (35)	Black and white pattern (PAL)	<ol style="list-style-type: none"> <li>1. Measure the dark side of the picture with a color analyzer and set RCUT to 80. Then adjust BCUT and GCUT until the data on the analyzer become x = 284, y = 299.</li> <li>2. Measure the bright side of the picture, Then adjust BDRV and GDRV until the data on the analyzer become x = 284, y = 299.</li> <li>3. Repeat step 1 and 2 until you get right color on both dark and bright side of the screen.</li> </ol>

#### Other adjustment (default value was suggested, except BRTC)

8	Key 0	OSD (0A) TXCX (30) RGCN (20) TNTX (25) TNTN (32) FM MODE (13) DKFMMD (20)	-----	<p>OSD – OSD position TXCX – OSD intensity when maximum contrast RGCN – OSD intensity when minimum contrast TNTX – maximum tint level TNTN – minimum tint level FM MODE – frequency shift for FM (mono) mode, only useful for NICAM model DKFMMD - frequency shift for DK NICAM mode</p>
9	Key 8	SCNT (0F) CNTX (3F) CNTN (00) BRTX (20) BRTN (25) COLX (35) COLN (00)	-----	<p>SCNT – sub contrast for luminance signal CNTX – maximum contrast CNTN – minimum contrast BRTX – maximum brightness BRTN – minimum brightness COLX – maximum color COLN – minimum color</p>
10	Key 9	CNTC (22) BRTC (37) COLC (50) TNTC (35) COLP (00) COLS (54) BRTS (00)	-----	<p>CNTC – 50% contrast BRTC – 50% brightness COLC – 50% color TNTC – 50% tint COLP – color level for PAL COLS – color level for SECAM BRTS – sub brightness for SECAM</p> <ul style="list-style-type: none"> <li>● For the adjustment of BRTC, receive an 8 step grey scale pattern and adjust all picture settings to 50%. Then adjust BRTC until the first and second step on the screen can just be distinguished.</li> </ul>

11	Two digit key -/-- (sharpness adjustment)	SHPTV3 (1A) SHPAV3 (1A) SHPTV4 (18) SHPAV4 (18) SHPX (1A) SHPN (1F)	-----	SHPTV3 – 50% sharpness in 3.58 system (TV) SHPAV3 – 50% sharpness in 3.58 system (AV) SHPTV4 – 50% sharpness in 4.43 system (TV) SHPAV4 – 50% sharpness in 4.43 system (AV) SHPX – maximum sharpness SHPN – minimum sharpness
13	KEY CALL	DBE STR 50 DBE HMC 0D DBE HP 07 DBE LP 00 DBE LIM FO SUB FRE 15 SUB HP 02 VOLMAI 03	Richly Music Signal	Effect Strength Harmonic Content High Pass Corner Frequency Low Pass Corner Frequency Amplitude Limit Subwoofer Corner Frequency Subwoofer Complementary High Pass Filter Volume Loudspeaker

### System data:

	Item	Adjust item	Default value
12	Key 7	VCDM0 VCDM1 VCDM2 MODE0 MODE1 MODE2 OPTION	It is subject to the current ODF. Please check the sample to get the value.

## System setting of M13

VCDM0 (default value: 28)

BIT	Item
0	System switch: 0 : normal identify mode 1 : weak signal identify mode
1	White peak suppress: 0: on 1: off
2,3	ABL gain 00: -0.74v 01: -0.64v 10: -0.37v 11: -0.12v
4,5	ABL start point 00: -0.01v 01: -0.11v 10: -0.3v 11: -0.45v
6	CW-SW: TB1238N, pin 29 Fsc CW output 0 : AUTO, 1 : 4.43M
7	In force system mode, the status of color killer when weak signal 0: on 1: off

VCDM1 (default value: 00)

BIT	Item
0	Blanking: 0: on 1: off
1,2,3,4,5	V-Mute timing: = 200ms + 8ms ×Data
6	Base band filter in NTSC system: 0: on, 1: off
7	VMOD

VCDM2 (default value: 40 for 38MHz IF, 30 for 38.9MHz IF)

BIT	Item
0	AFT-mute: 0: off, 1: on (brightness off)
1	SECAM-ADJ: 0: SECAM correction off, 1: SECAM correction on
2	TB1238N_VMOD
3	PIF VCO ADJ
6,5,4	IF frequency: 111: 33.9MHz    110: 33.95MHz    101: 34.47MHz    100: 38MHz 011: 38.9MHz    010: 39.5MHz    001: 45.75MHz    000: 58.75MHz
7	No use

MODE0

BIT	Item
0	0: normal AV 1: SCART (CATV)
1	SRS: 0: OFF 1: ON
2	SECAM system: 0: off, 1: on
3	High Sensibility: 0: off 1: on
4, 5	STANDBY status after switch on : 00 or 10: force STANDBY 01: force on. 11: status before switch off
6,7	Mode0.6, Mode0.7: 0X: English 10: English + Russia 11: English + Vietnamese

MODE1

BIT	Item
0	BG : 0 : off 1 : on
1	I : 0 : off 1 : on
2	DK : 0 : off 1 : on
3	M : 0 : off 1 : on
4, 5	SSIF1, SSIFO Default sound system after auto search: 00 : BG 01 : I 10 : DK 11 : M
6	AV/TV: 0: TV/AV 1: TV AV1/AV2
7	Number of channels: 0: 50 1: 100

MODE2

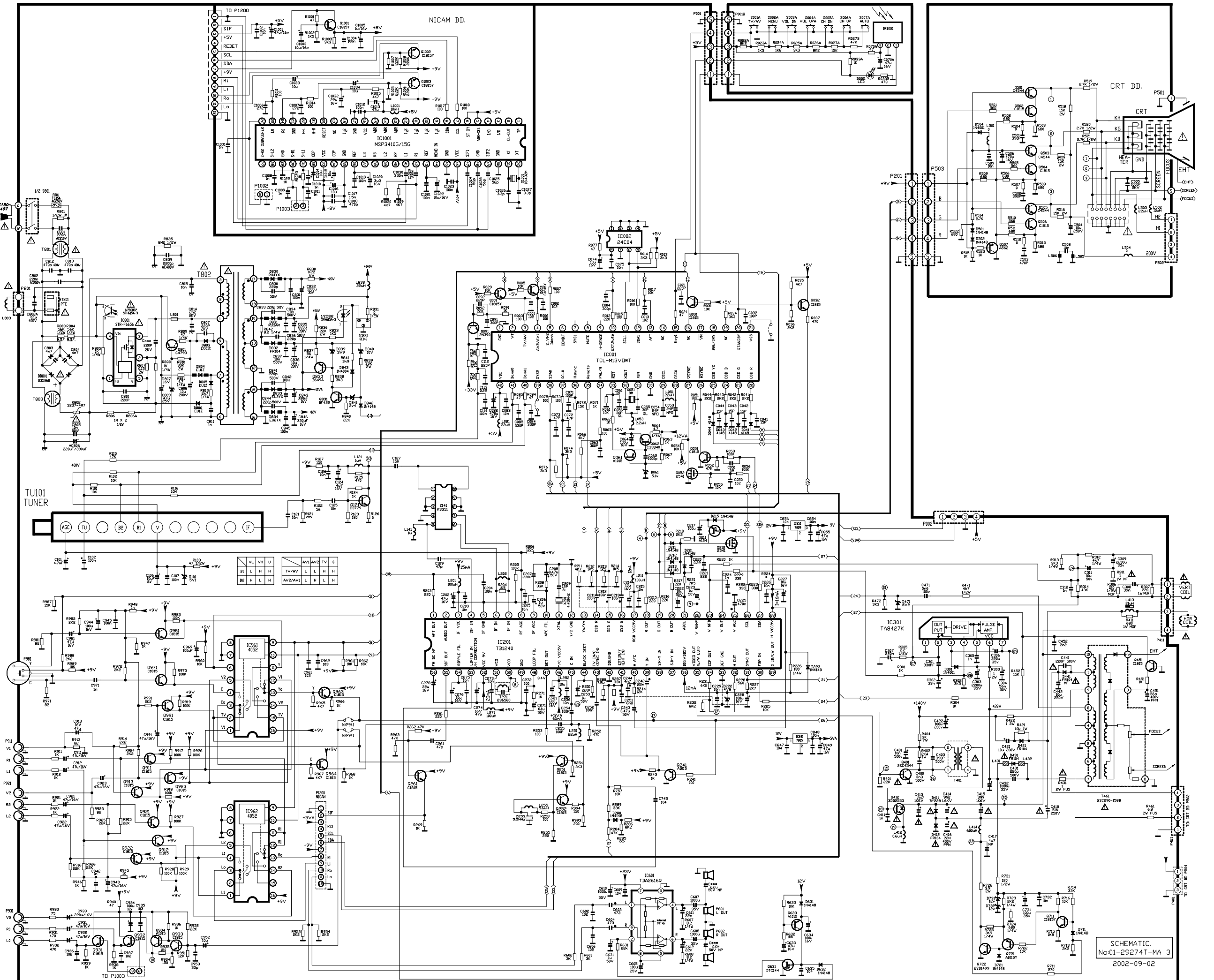
BIT	Item
0	D-MODE : 0: off 1: on
1	Teletext 0: off 1: on
2	COMB Filter 0: off 1: on
3	BBE 0: off 1: on
4	NICAM & IGR 0: off 1: on
5	WOOFER 0: off 1: on
6	DBE 0: off 1: on
7	VM 0: off 1: on

OPTION (default value: 10)

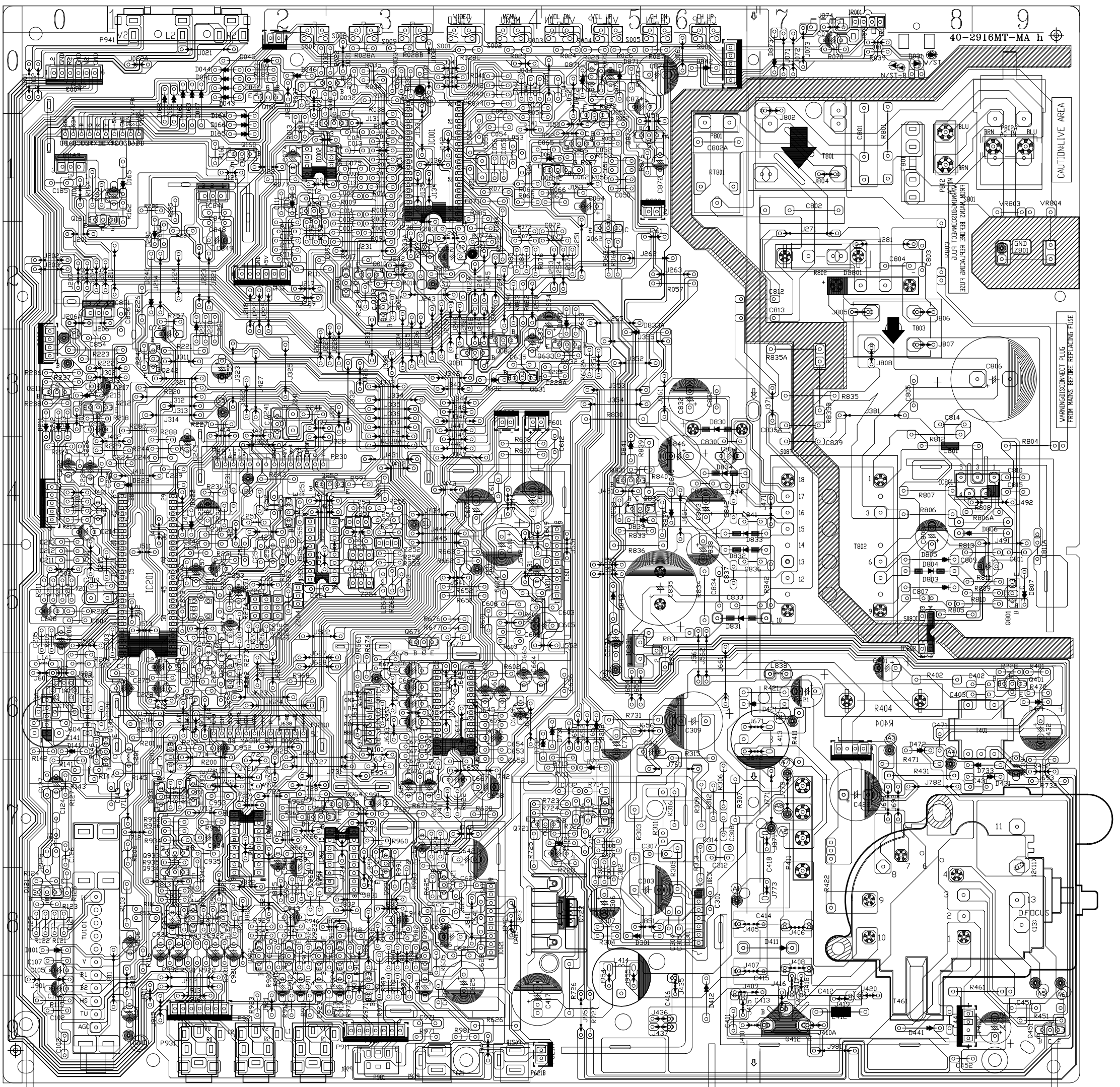
BIT	Item
0	When blue background off (mute pin of CPU): 0: audio mute on 1: audio mute off
1	When blue background off (external mute pin of CPU): 0: audio mute on 1: audio mute off
2	When change channel: 0: picture mute on 1: picture mute off
3	Audio demodulation gain setting: 0: 50KHz 1: 25KHz
4	When no signal: 0: search channel by changing VT 1: use memorized VT
5	Logo: 0: off 1: on
6	OSD black background: 0: off 1: on
7	Display on Sound Mode Changing: 0: on 1: off

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L



SCHEMATIC.  
No.01-29274T-MA 3  
2002-09-02



40-2916MT-MA h

CAUTION: LIVE AREA

WARNING: DISCONNECT PLUG FROM MAINS BEFORE REPLACING FUSE

11