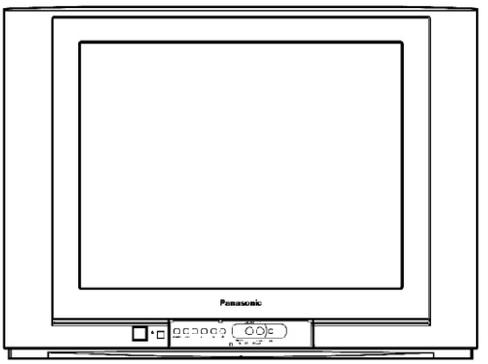
Service Manual



Colour Television

TC-21FJ22R
TC-21FJ12R
TC-14Z88RN/RBN
TC-1420DXN/DXSN
TC-21Z88RN/RBN/DX

(GP31 Chassis)

Specifications

Power Source : AC AUTO (110-240V), 50/60 Hz

Power Consumption : 79W for 21FJ12R, 99W for 21FJ22R, 89W for 21" (ROUND)& 61W for 14"

Aerial Impedance : 75Ω Unbalanced Co-axial type

Receiving System : 17 Systems

Tuning System : Frequency Synthesizer 100 position (Auto-search)

Receiving Channels : Regular TV

VHF BAND	2-12 (PAL/SECAM B, K1)
	0-12 (PAL B AUST.)
	1-9 (PAL B N.Z.)
	1-12 (PAL/SECAM D)
	1-12 (NTSC M Japan)
	2-13 (NTSC M U.S.A)
UHF BAND	21-69 (PAL G, H, I/SECAM G, K, K1)
	28-69 (PAL B AUST.)
	13-57 (PAL D, K)
	13-62 (NTSC M Japan)
	14-69 (NTSC M U.S.A.)
CATV	S1-S20 (OSCAR)
	1-125 (U.S.A. CATV)
	C13-C49 (JAPAN)
	S21-S41 (HYPER)
	Z1-Z37 (CHINA)
	5A, 9A (AUST.)

Intermediate Frequency : 38.0 MHz
Video : 38.0 MHz
Sound : 31.5 MHz (D, K) / 32.5 MHz (B, G)
32.0 MHz (I) / 32.5 MHz (M)
Colour : 33.57 MHz (PAL) /
33.6 MHz (SECAM)
34.42 MHz (NTSC) /
33.75 MHz (SECAM)

Receiving Sound System :
AV Stereo : TC-21FJ22R, TC-21Z88RN/RBN/DX
Mono : TC-21FJ12R, TC-14Z88RN/RBN/DXN/DXSN

Video / Audio Terminals :
AV In : Video In 1 Vp-p, 75 Ω
Audio In Approx. 400 mV
Monitor Out : Video Out 1 Vp-p, 75 Ω
Audio Out Approx. 400 mV

High Voltage : 27.5 ±1.5 KV at zero beam current (21")
24.5 ±0.7 KV at zero beam current (14")

Picture Tube : 21" (Flat) - A51LVV896X31
21" (Round) - A51KQK99X
14" - 37GDC86XTC01
Viewable Picture Tube measured diagonally
50.5 cm (21" Flat), 53 cm (21" Round)
34 cm (14")

Set Dimensions : (mm)
(WxDxH) : 648 x 488 x 472 (21FJ12R/21FJ22R)
(WxDxH) : 682 x 496 x 464 (21Z88RN/RBN/DX)
(WxDxH) : 410 x 380 x 388 (1420DXN/DXSN)
(WxDxH) : 460 x 375 x 354 (14Z88RN/RBN)

Net Weight (kg) : 24 kg (21FJ12R/21FJ22R), 10 kg (1420DXN/DXSN)
22 kg (21Z88RN/RBN/DX) & 10.4 kg (14Z88RN/RBN)

Accessories Supplied : Remote Controller x 1
"R6" Battery x 2

Specifications are subject to change without notice.
Weight and dimensions shown are approximate.

Panasonic

⚠ WARNING

This service literature is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warning cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professionals technicians. Any attempt to service or repair the product or products dealt with in this service literature by anyone else could result in serious injury or death.

Contents

Safety Precautions

General Guide Lines

1. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are properly installed.
3. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
4. Potential, as high as 28.5 KV is present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the receiver chassis before handling the tube.
5. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value, with an ohmmeter, between the jumper AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4 MW and 20 MW.
   When the exposed metal does not have a return path to the chassis, the reading must be infinite.

Leakage Current Hot Check (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2kW, non-inductive resistor and an AC/DC current meter, in series with each exposed metallic part on the receiver in turn and an earth such as a water pipe.
3. The current from any point should not exceed 0.7 mA peak AC or 2 mA DC. In the case of a measurement being outside of these limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

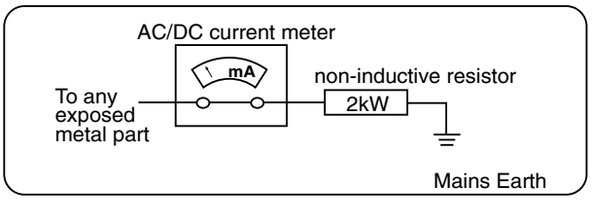


Fig. 1 Hot-Check Circuit

X-Radiation

Warning :

The potential sources of X-Radiation in TV set are the EHT section and the picture tube.

When using a picture tube test jig for service, ensure that jig is capable of handling 29.0kV(Max.) without causing X-Radiation.

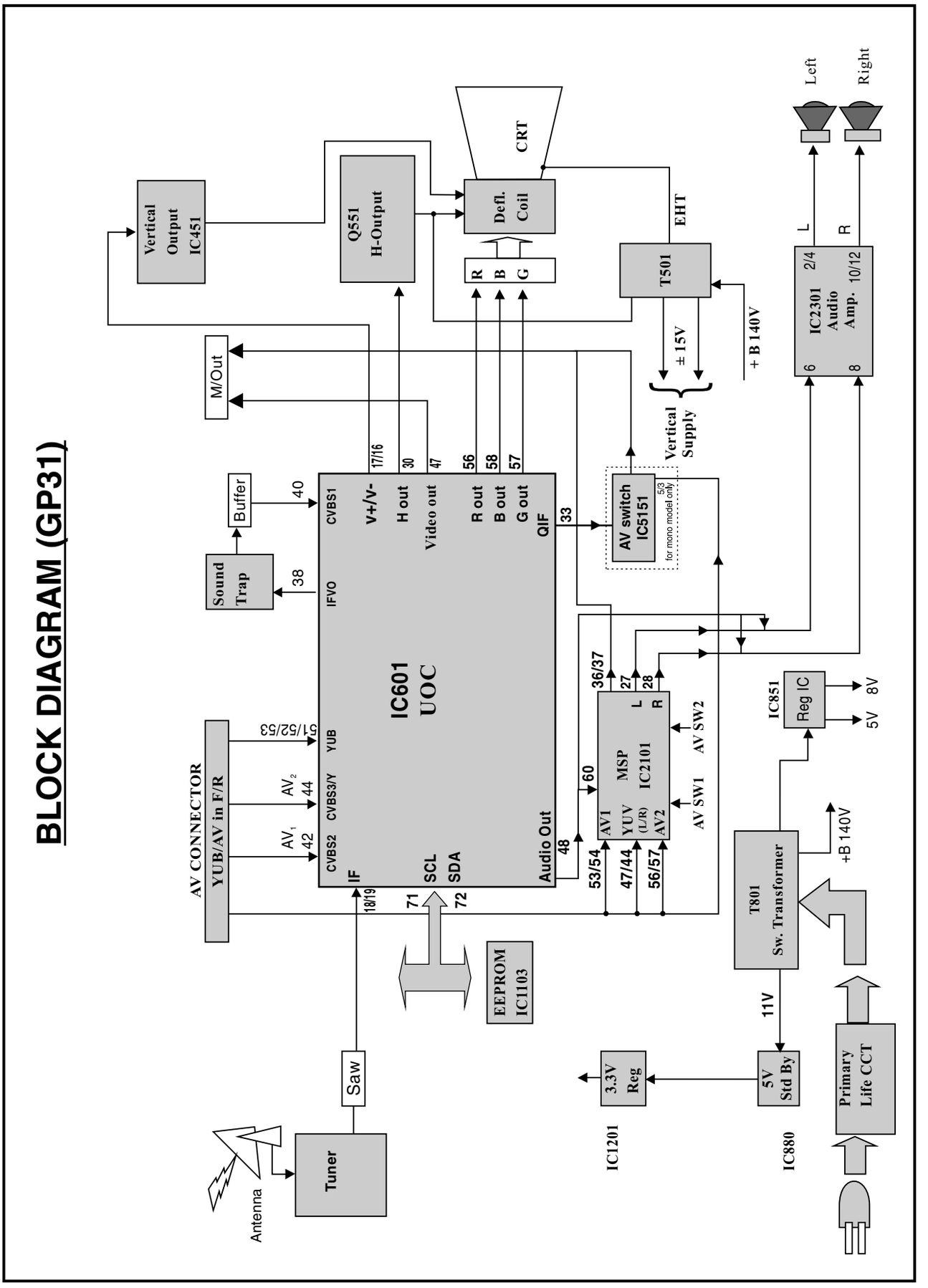
Note : It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum
2. Use the remocon to get into Service Mode.
3. Measure the EHT. The meter reading should indicate A*kV (refer table). If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
4. To prevent the possibility of X-Radiation, it is essential to use the specified picture tube, if service replacement becomes necessary.

* Table :

MODEL	A(KV)
21"	27.5 ±1.5 KV
14"	24.5 ±0.7 KV

CHASSIS BLOCK DIAGRAM



Factory Mode Adjustment

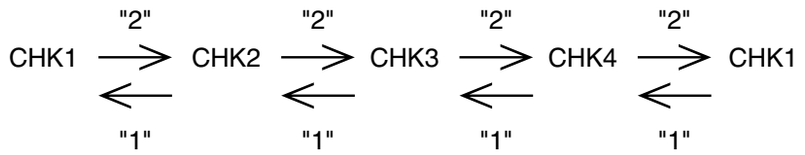
1. ADJUSTMENT

1) Set Timer ON (30 minutes) and Volume at 0 DAC.
Press remote's RECALL & panel's volume down (-) key together to select service mode.

2) CHK should appear on right side of TV screen
After few seconds CHK1 should appear on right side of TV screen.

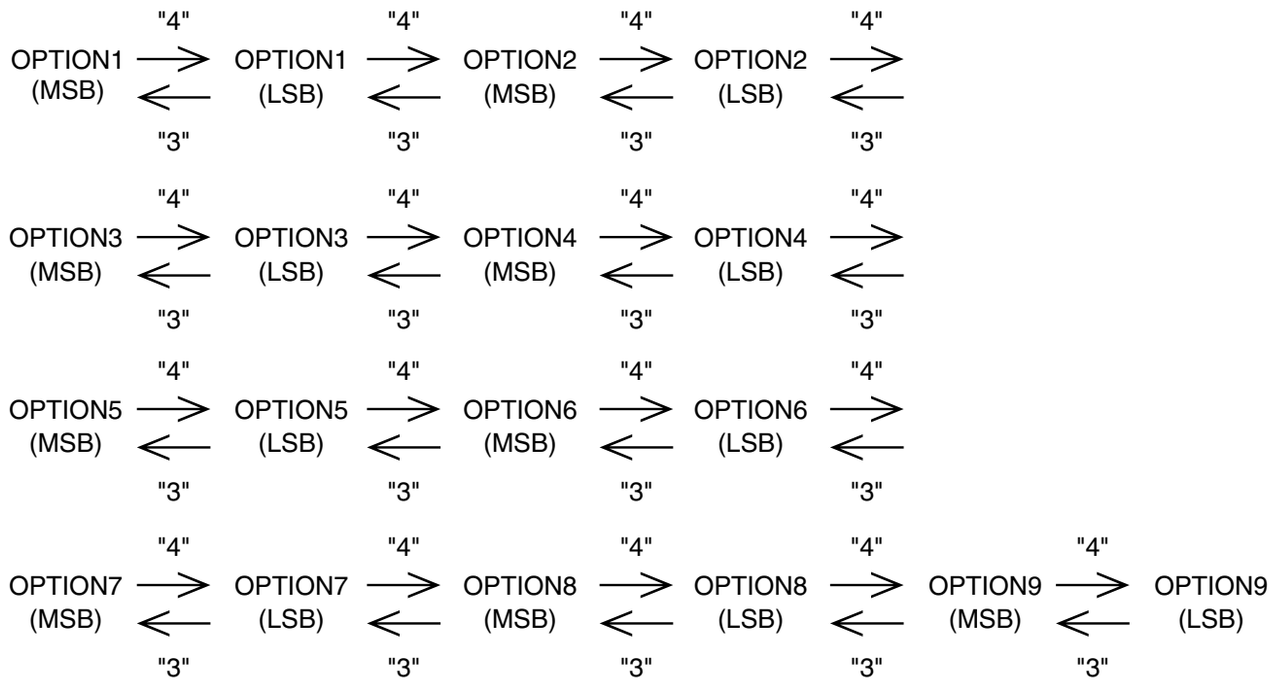
<NOTE>

To move from CHK1 to CHK2 mode, etc. please follow below rotation :-



<CHK1>

3) Press digit key "4" to move option mode forward.
Press digit key "3" to move option mode backward.
The function rotation will be as follows :-



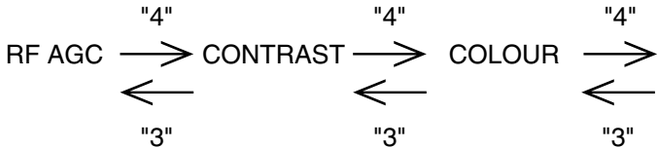
4) After selecting the required option mode press Vol up / Vol down
to adjust correct option. OSD will change to RED colour with YELLOW back ground.
Press digit "0" to memorize data.

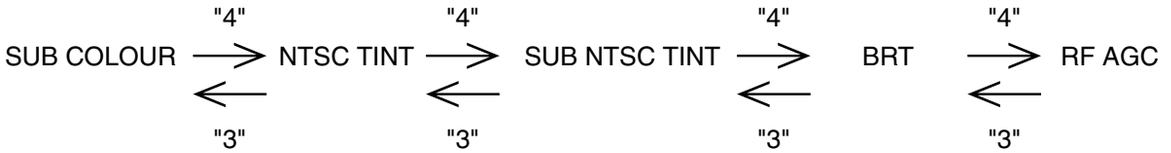
SETTINGS IN CHK1 MODE :

	21FJ12R	21FJ22R	21Z88	14Z88
OPTION 1	F0	F2	F0	F0
OPTION 2	00	00	00	00
OPTION 3	10	10	10	10
OPTION 4	77	77	77	77
OPTION 5	00	01	00	00
OPTION 6	60	20	20	60
OPTION 7	00	00	00	00
OPTION 8	31	35	35	31
OPTION 9	00	00	00	00

<CHK2>

5) Press digit key "2" to move forward to CHK2.
The function rotation will be as follows :-



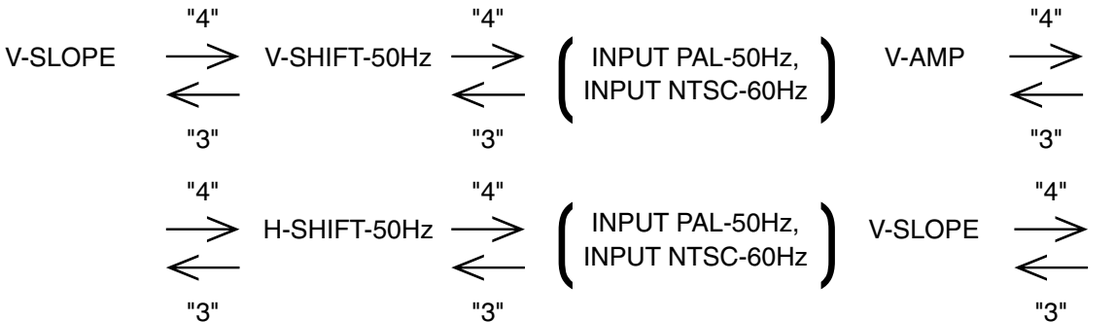


6) Press digit key "4" to move forward from RF AGC ⟶ CONTRAST, etc.
Press digit key "3" to move backward from CONTRAST ⟶ RF AGC, etc.

7) Press volume up / volume down to adjust setting.

<CHK3>

8) Press digit key "2" to move forward to CHK3.
The function rotation will be as follows :-

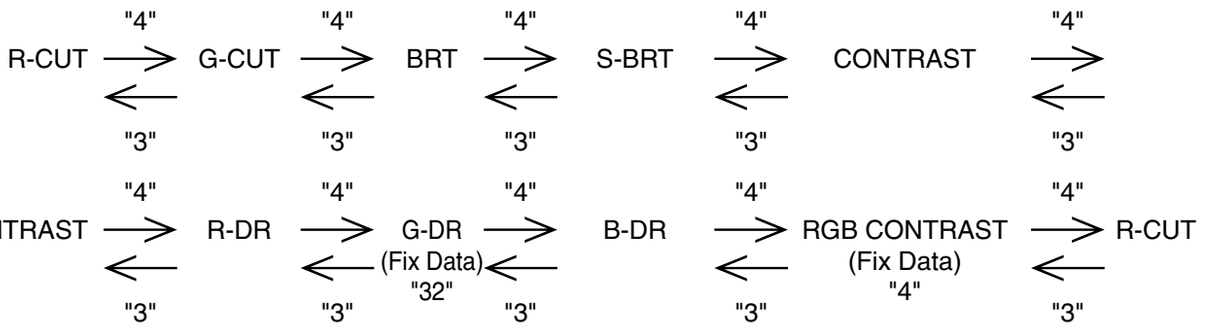


9) Press digit key "4" to move forward from V-SLOPE ⟶ V-SHIFT-50Hz, etc.
Press digit key "3" to move backward from V-SHIFT-50Hz ⟶ V-SLOPE, etc.

10) Press volume up / volume down to adjust required setting.

<CHK4>

11) Press digit key "2" to move forward to CHK4.
The function rotation will be as follows :-



12) After selecting the required mode, press Vol Up/Vol Down to adjust required setting.

13) Press digit key "5" to make the H-Line for screen adjustment.
Press digit key "5" to exit from CHK mode.

14) After finishing adjustment, press Power ON/OFF button on remote control to go to normal TV mode.

Hotel Mode Adjustment

Purpose Of Hotel Mode :

To limit the level of main functions of TV like Volume, Brightness, Tone, Sharpness, Colour and Contrast for hotel use.

How To Set : To set the hotel mode, press VOLUME to any DAC on the TV & TIMER SETTING 30 MIN by the Remote Control, then Press Channel UP on the TV together with Recall button on the Remote Control.

How To Cancel : To cancel the hotel mode, press VOLUME (-) DOWN on the TV together with TIMER Button on the Remote Control.

Self Check

Purpose Of Self Check :

To exit the set from CHK mode and returns to original factory adjusted shipment mode.

How to set : Press the Volume Down (-) button on TV together with TIMER button on the Remote Control

Service Hints

1. Sevice Position for A-Board

1.Remove the back cover.

2.Stand the TV set as shown in Fig. 2.

3.Remove the A-Board from the TV set by pulling the main board out as shown in Figure 2.

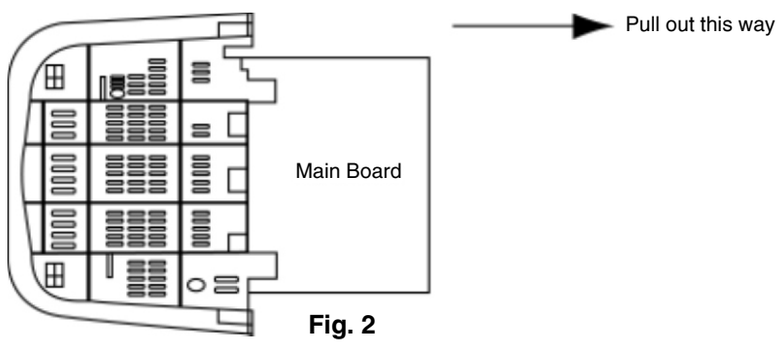
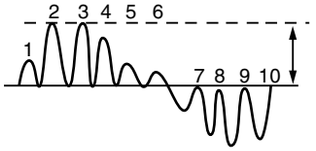


Fig. 2

Adjustment Procedure

Item/Preparation	Adjustment Procedure
+B Voltage 1. Operate the TV set. 2. Set control as follows : Brightness ..... minimum Contrast ..... minimum	Confirm the DC voltage at the indicated test points as follows : TPA 10 : 140.5 ± 1.5V TPA 8 : 8 ± 1V TPA 9 : 5 ± 1V TPA 21 : 175 ± 15V
RF AGC 1. Receive a colour bar signal at an RF level of 63 dB With 75Ω loaded. 2. Connect digital multimeter to RF AGC at Tuner (TPA15).	1. Select "RF AGC" indication in CHK2 On Screen by remote control at factory mode. 2. Set RF AGC by using remote control volume (+) or volume (-) button until voltage AGC at Tuner reach 2.3 ± 0.1V DC. 3. Increase RF signal strength by 2dB, confirm that AGC voltage drops more than 1V.
High Voltage 1. Receive the crosshatch pattern. 2. Set to 0 Beam Screen VR ..... minimum Contrast ..... minimum	1. Connect a DC voltage meter to TPA10 and confirm the +B voltage is 140.5 ± 1.5V. 2. Connect a high frequency voltmeter to heater and confirm that voltage reads 6.3 ± 0.24 (Vrms). 3. Confirm that high voltage is 27.5 ± 1.5 KV(21") & 24.5 ± 0.7KV(14"). 4. Normalize the brightness and contrast.

M-NTSC Sub-Tint Adjustment

Item/Preparation	Adjustment Procedure	Waveform
1. Connect Oscilloscope probe to TPL 1 (R-out) with 10K series resistor. 2. Press Main Menu and Set system to Use AV-NTSC (3.58MHz). DYNAMIC ..... Normal 3. Channel colour Set .... std. 4. <CHK 2> and press digit key "5" (AKB OFF) also confirm blue OSD colour. 5. Set user TINT (CHK2) to become 25 DAC (-7DAC from center).	1. Adjust Sub-Tint so that level of No. 2, 3 are similar to Fig. 3. 2. Press digit key "5" (AKB ON) and confirm OSD become white colour.	 **Fig. 3**

Pal Colour

1. Receive the PAL B/G studio colour bar pattern and adjust local frequency at the best tuned position.
2. Pic Menu: Dynamic Normal, Confirm Contrast - 100, Sub Contrast - 21.
3. Channel colour set --------- STD
4. “CHK2” and press digit key “5” (AKB OFF) also confirm OSD become blue colour.
5. Confirm RGB Contrast - 4 Dac in CHK4
6. Set (A) to 2.3 ± 0.2V by BRIGHT (CHK2) at measurement point TPL 2 Fig. 4

Adjustment

1. Connect oscilloscope probe to TPL 2 (G OUT) with 10k series resistor and adjust Contrast so that (B) as in Fig. 4 is 2.4 ± 0.1V. (CHK2)
2. Adjust ’Contrast" so that waveform as in Fig. 4, 2.40± 0.05V (CHK2).
3. Adjust "Sub Colour" so that wave from as in Fig. 4, 2.15 ± 0.05V (CHK2).
4. Connect oscilloscope probe to TPL 1 (R OUT) with 10k series resistor and confirm waveform as in Fig. 5 is 2.25±0.05V.
5. Press digit key "5" (AKB ON) and confirm the OSD becomes white colour.

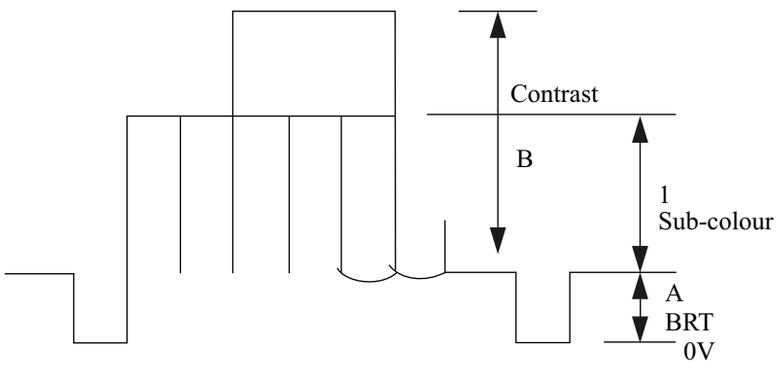


Fig. 4

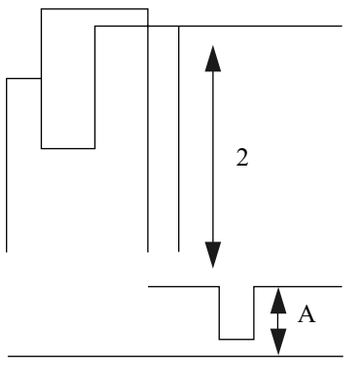


Fig.5

Adjustment for CRT Cut Off

Preparation :

1. Connect the oscilloscope probe to TPL5.
2. Screen VR min.
3. Set the below data: in (CHK4)

BRIGHT	-	50 Dac
Sub-Bright	-	32 H
Sub-Contrast	-	21 H
RGB-Contrast	-	4
R,G,B Drive	-	31 H
R,G,B Cut	-	31 H

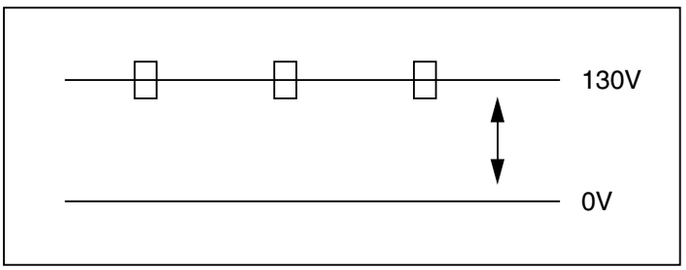


Fig.6

4. Press digit key "5" (from Remote) and confirm H-LIne made Can be seen.
5. Adjust bright so that voltage at TPL 7 is 130V as shown in figure 6.
6. Adjust screen by screen VR to just visible the H-Line (CHK2)
7. Press digit key "5" (from Remote) and confirm in picture mode.

Adjustment for White Balance

Preparation :

1. Receive the white balance pattern and aging should have been performed over 30 minutes.
2. Set the picture menu to DYNAMIC NORMAL.
3. Degausse the CRT face.
4. Fix the CRT colour analyzer receiver unit to CRT face.

Adjustment of Low Light

1. Adjustment Sub Bright, so that Y = 6.3 ± 1.0 nit.
2. Adjustment R-CUT OFF, so that X = 0.235 ± 0.010 nit.
3. Adjustment G-CUT OFF, so that Y = 0.235 ± 0.010 nit

Adjustment of High Light

1. Adjustment Sub Bright, so that Y = 270 nit.
2. Adjustment R-Drive, so that X = 0.265 ± 0.010 nit.
3. Adjustment B-Drive, so that Y = 0.265 ± 0.010 nit

Adjustment of Sub Bright

1. Adjustment Sub Bright in (CHK4) so that Y = 0.6

Adjustment of Sub Contrast

1. Receive the while balance pattern.
2. Adjustment Sub Contrast, so that Y = 280 ± 10

Note : After adjustment to exit from CHK mode, press main switch to off.

Before Colour Purity, Convergence and White Balance adjustments are attempted, V. Height, H. Centre and Focus adjustments must be completed.

Colour Purity

1. Set the Brightness and Contrast controls to their maximum positions.
2. Operate the TV set for 30 minutes.
3. Fully degauss the picture tube by using an external degaussing coil.
4. Apply a crosshatch pattern signal and adjust the static convergence magnets to the approximately correct position.
5. Receive a black and white signal.
6. Set the controls as follows :
   Red minimum
   Green minimum
   Blue minimum
7. Loosen the clamp screw for the deflection yoke A in Fig. 11 and move the deflection yoke as close to the purity magnet as possible.
8. Adjust the purity magnetic rings so that a vertical green field is obtained at the centre of the screen.

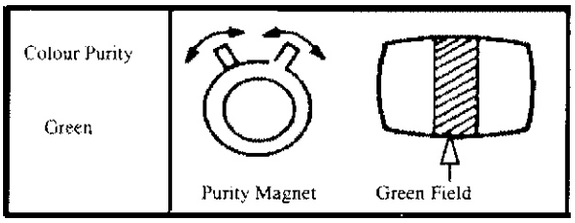


Fig.7

9. Slowly push the deflection yoke and set it where a uniform green field is obtained.

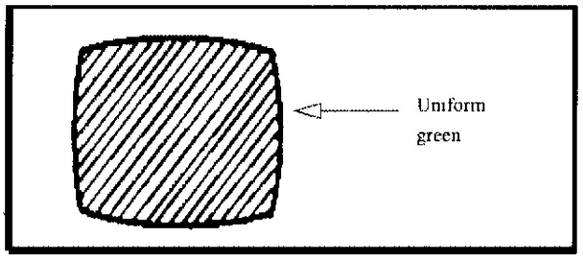


Fig.8

10. Re-adjust the Low Light controls to their correct settings and make sure that a uniform white field is obtained.
11. Tighten the clamp screw A in Fig. 11.

Convergence

1. Apply a crosshatch pattern signal and Normalize Contrast control to the maximum position.
2. Adjust Brightness until the grey portion of the cross-hatch pattern just becomes black.
3. Adjust the Red and Blue line at the centre of the screen by rotating the R-B static convergence magnetic rings.

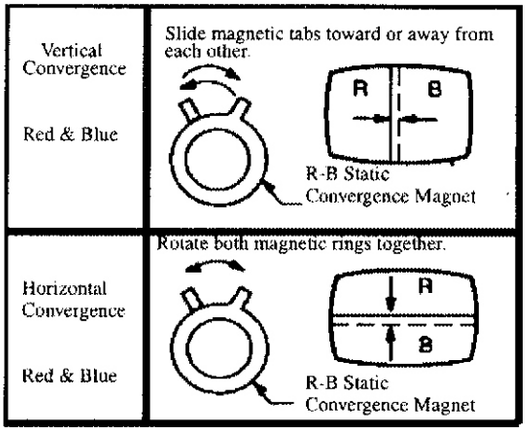


Fig.9

4. Adjust Red and Blue with the Green line at centre of the screen by rotating (RB)-G static convergence magnetic rings.
5. Lock convergence magnets with silicone sealer.
6. Remove the DY wedges and slightly tilt the deflection yoke vertically and horizontally to obtain the good overall convergence.

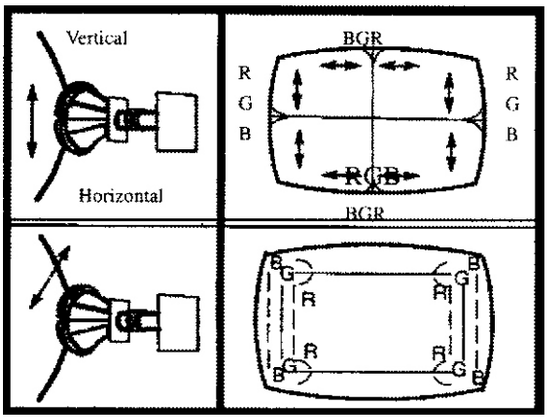


Fig.10

7. Fix the deflection yoke by re-inserting the DY wedges. Refer to Fig. 11 & 12.
8. If purity error is found, repeat "Colour Purity" adjustment.

Note :

1. Wedge A, B, and C should be inserted following the sequence of 1, 2 and 3 as shown in Fig. 12.
2. The wedges A, B and C should be set 120° apart from each other.
3. Be certain that three wedges A, B and C are firmly fixed and the Deflection Yoke is tightly clamped in place, otherwise the Deflection Yoke may shift its position and cause a loss of convergence and purity.

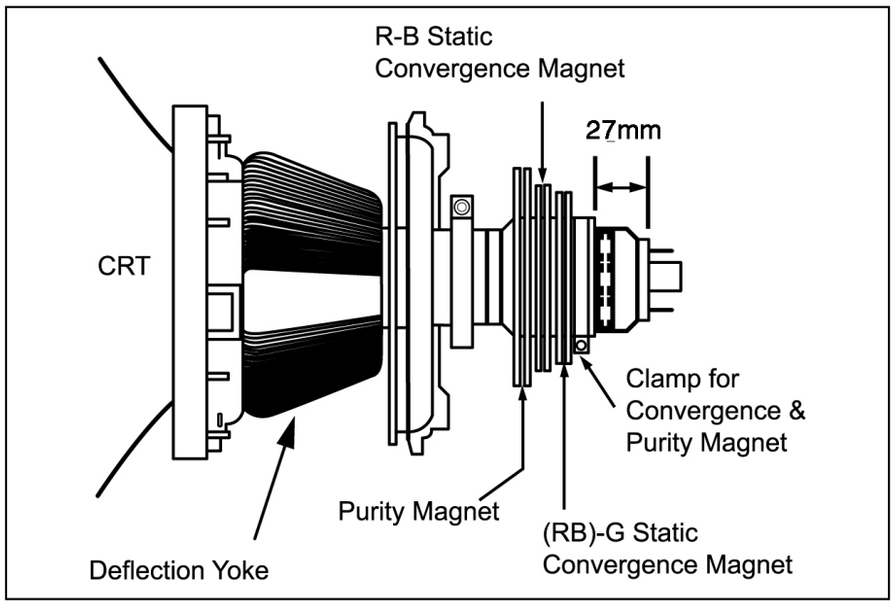


Fig. 11

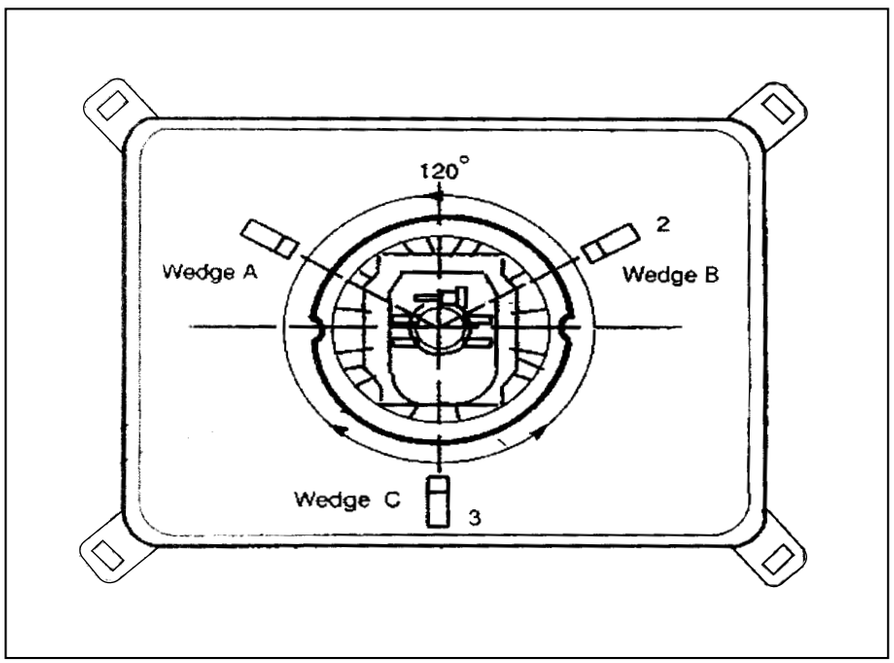
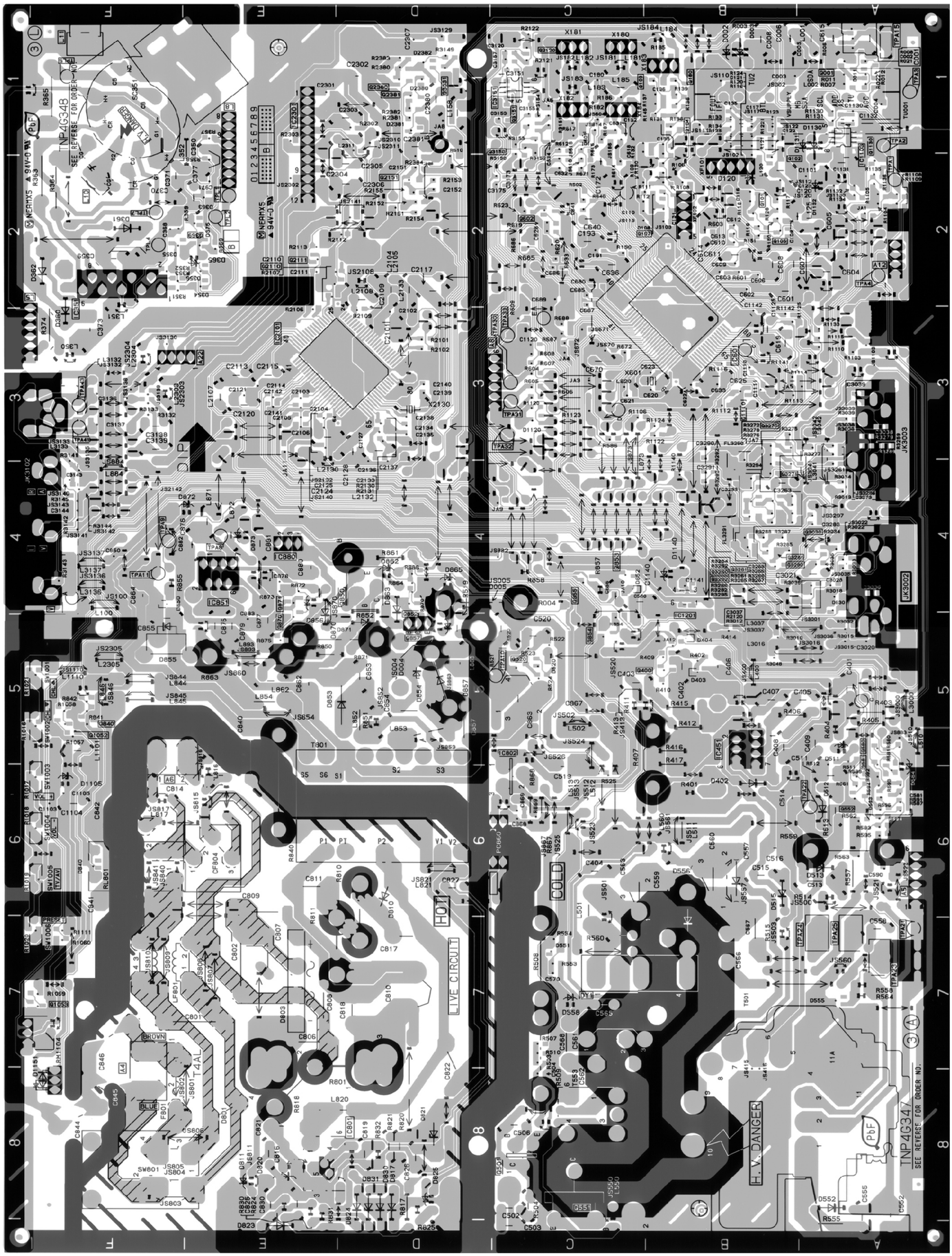


Fig. 12

Conductor View (Main Board)



Schematic Diagram

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Notes :

Resistor

All resistors are carbon 1/4W resistor, unless marked as follows :

Unit of resistance is OHM[Ω] (K=1,000, M=,000,000).

◯	Nonflammable	⊠	Metal Oxide
△	Solid	◎	Metal Film
⊠	Wire Wound	⊗	Fuse

Capacitor

All capacitors are ceramic 50V capacitor, unless marked as follows :

Unit of capacitance is μF, unless otherwise noted

⊗	Temperature Compensation	+‖−	Electrolytic
Ⓜ	Polyester	NP‖	Bipolar
ⓜ	Metalized Polyester	Ⓣ	Dipped Tantalum
⊠	Polypropylene	Ⓩ	Z-Type

Coil

Unit of capacitance is μH, unless otherwise noted

Test Point

○ Test Point position

Earth Symbol

⏚ Chassis Earth (Cold) ▽ Line Earth (Hot)

Voltage Measurement

Voltage is measured by a DC voltmeter.
Conditions of the measurement are the following :

Power Source	AC 220V, 50Hz
Receiving Signal	Colour Bar Signal (RF)
All customer's controls	Maximum position

When arrow mark (↗) is found, connection is easily found from the direction of arrow.

→ Indicates the major signal flow

This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks :

The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.
All circuits, except the Power Circuit, are cold.
Precautions

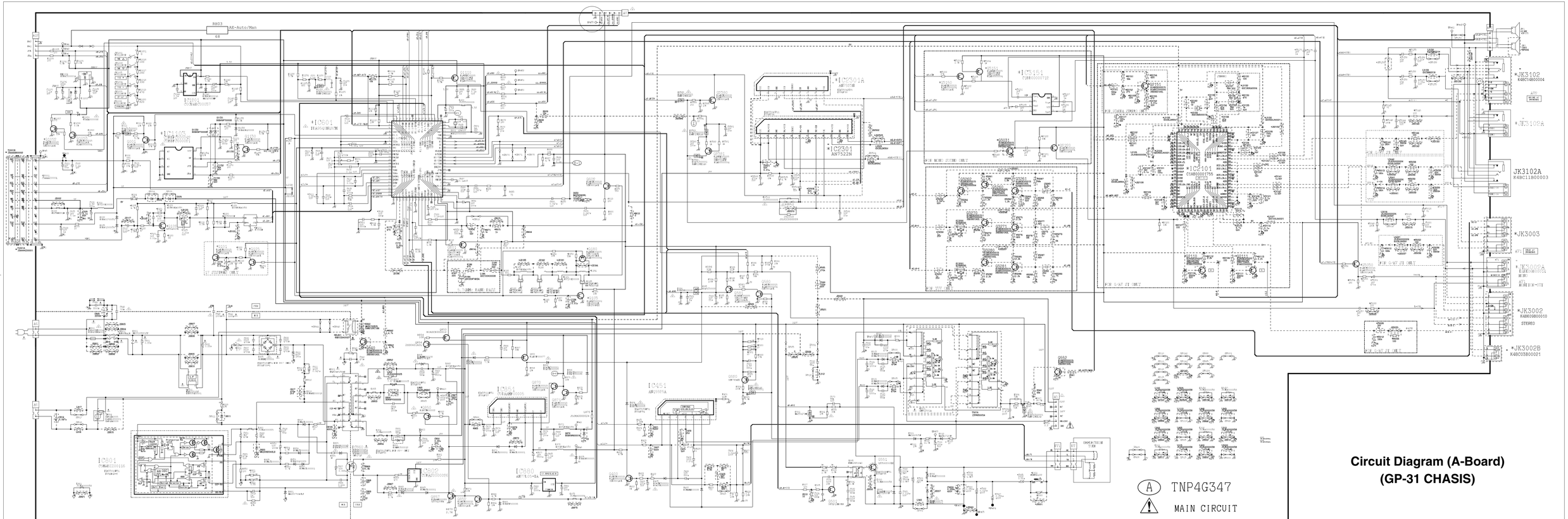
a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.

b. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.

c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.

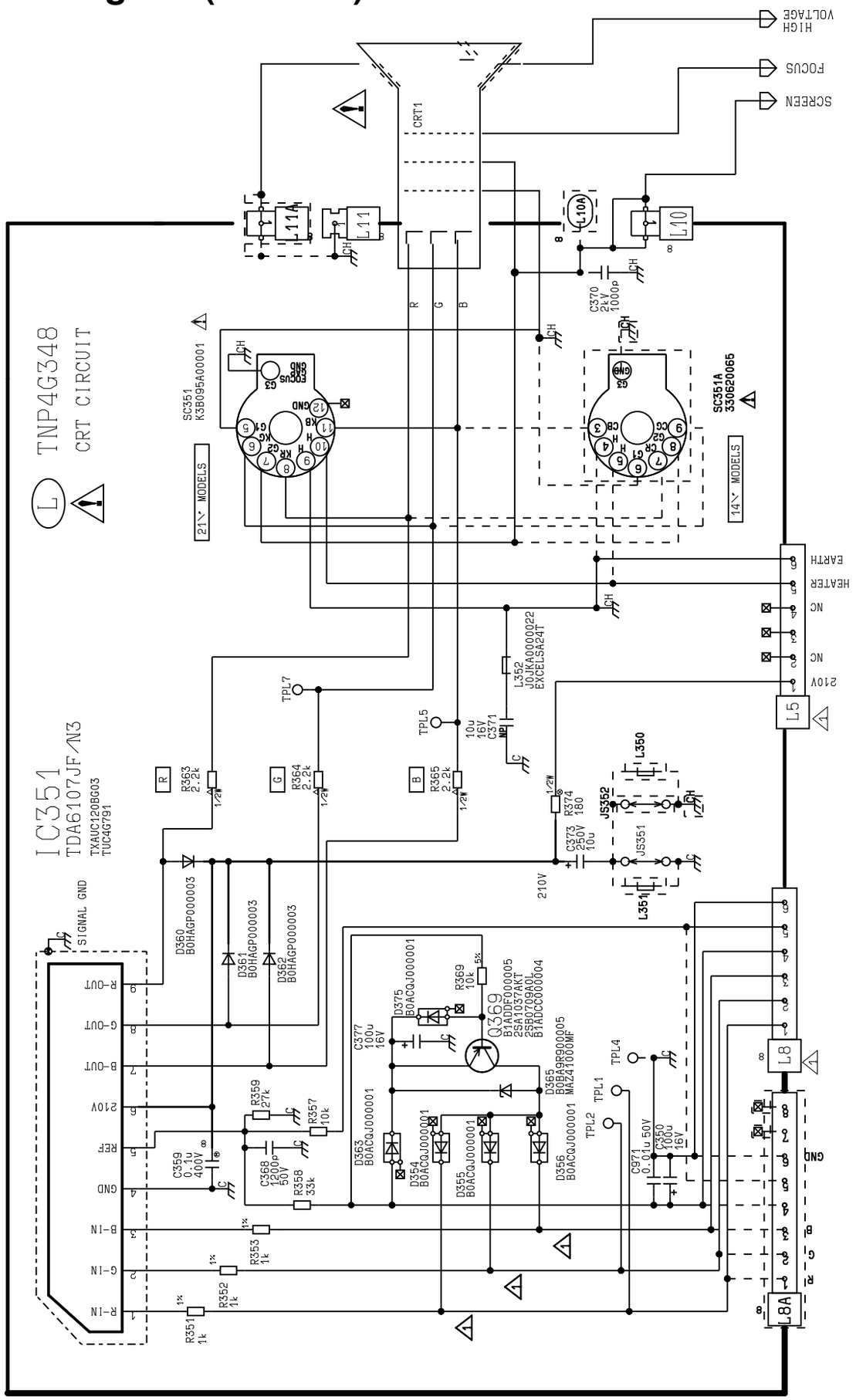
Connect the earth of instruments to the earth connection of the circuit being measured.

d. Make sure to disconnect the power plug before removing the chassis.

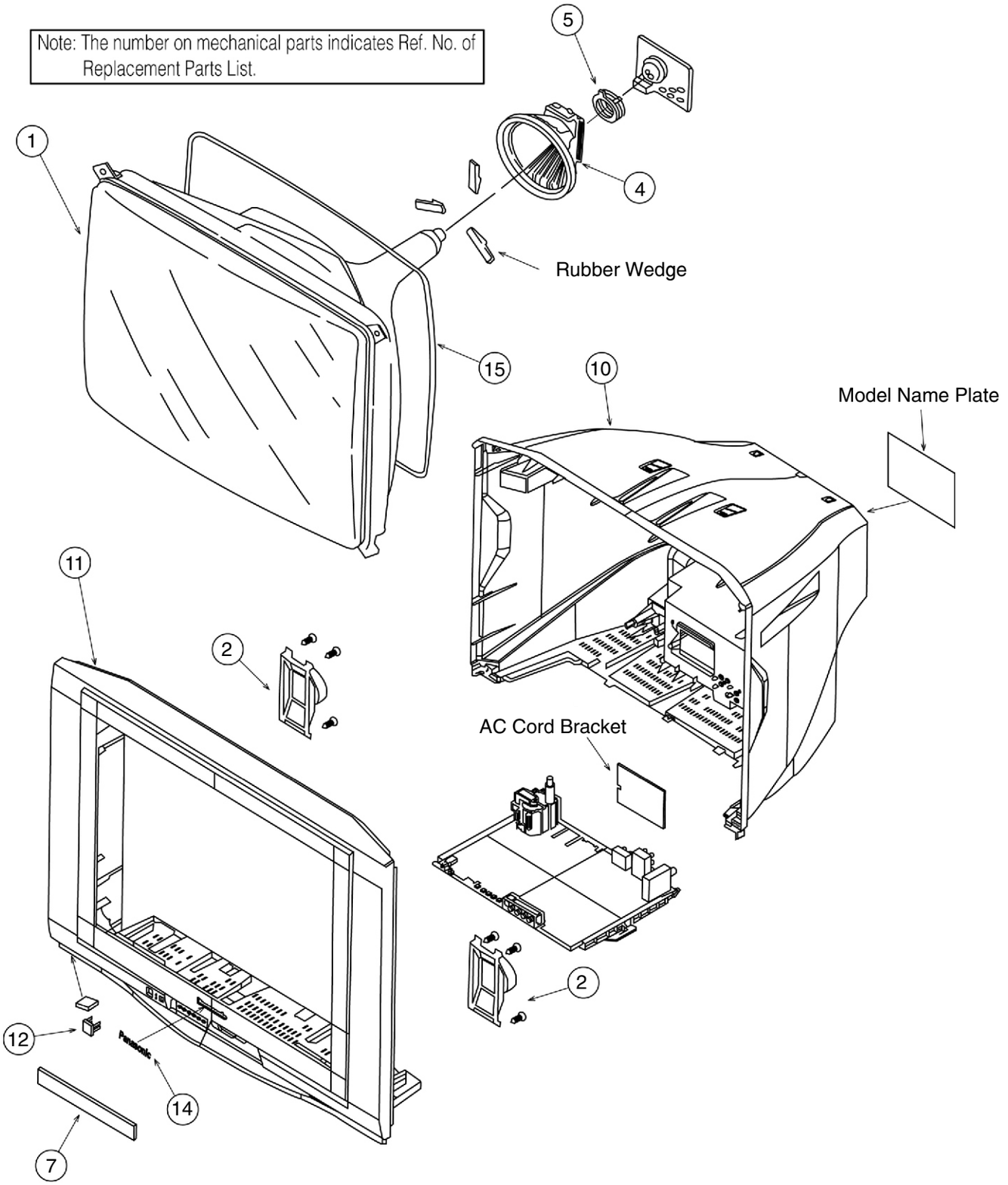


Circuit Diagram (A-Board)
(GP-31 CHASIS)

Circuit Diagram (L-Board)



Parts Locations



Replacement Parts List

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Note: Printed circuit board assembly with "NLA" is no longer available after production discontinuation of the complete set.

Abbreviation of part name and description

1. Resistor

Example :
ERD25TJ104 C 100KW, J, 1/4W
Type Allowance

Type	Allowance
C : Carbon	F : ± 1%
F : Fuse	G : ± 2%
M : Metal Oxide Metal Film	J : ± 5% K : ± 10%
S : Solid	M : ± 20%
W : Wire Wound	

2. Capacitor

Example :
ECKF1H103ZF C 0.01mF, Z, 50V
Type Allowance

Type	Allowance
C : Ceramic	C : ± 0.25pF
E : Electrolytic	D : ± 0.5pF
P : Polyester Polypropylene	F : ± 1pF G : ± 3%
T : Tantalum	J : ± 5%
	K : ± 10%
	L : ± 15%
	M : ± 20%
	P : + 100%, -0%
	Z : + 80%, -20%

Replacement Parts List

MECHANICAL PARTS (STEREO MODELS)							
SCHM NO.	PART No.	DESCRIPTION	21FJ22R	21Z88RN	21Z88RBN	21Z88DX	
	A51LVV896X31	CRT YAMMED (MTPDT)	1	X	X	X	
	A51KQK99X	CRT BARE (SAMSUNG)	X	1	1	1	
	TKY2W4GA2412J-3	CABINET ASSY.	1	X	X	X	
	TKY2W4GA1000S-2	CABINET ASSY.	X	1	X	X	
	TKY2W4GA1000B-2	CABINET ASSY.	X	X	1	X	
	TKY2W4GA1000D-1	CABINET ASSY.	X	X	X	1	
	TKU2W4GA1320J-1	BACK .COVER	1	X	X	X	
	TKU2W4GA0400S-1	BACK .COVER	X	1	X	1	
	TKU2W4GA0400B-1	BACK .COVER	X	X	1	X	
	TBX2W4G90111	POWER BUTTON	1	X	X	X	
	TBX2W4G88800	POWER BUTTON	X	1	X	1	
	TBX2W4G88810	POWER BUTTON	X	X	1	X	
	TKP2W4G13031	DOOR PANEL	1	X	X	X	
	TKP2W4G12770	DOOR PANEL	X	1	X	1	
	TKP2W4G12771	DOOR PANEL	X	X	1	X	
	TKP4G13062	SMOKED PANEL	1	X	X	X	
	TKP4G12871	SMOKED PANEL	X	1	X	1	
	TKP4G12872	SMOKED PANEL	X	X	1	X	
	TKK2W4G8578	LED.TRANS.PANEL	X	1	1	1	
	TBM4G3013	PANASONIC BADGE	1	X	X	X	
	TBM4G3003	PANASONIC BADGE	X	1	1	1	
	TKR4G080	ORNAMENT	X	1	1	1	
	EASG15S02H2	SPEAKER	2	X	X	X	
	EAS2WG12D350A2-1	SPEAKER	X	4	4	4	
	TSX4G111L	AC CORD	1	1	1	1	
	TLK4G9037X	DEGAUSSING COIL	1	X	X	X	
	TLK4G9012A	DEGAUSSING COIL	X	1	1	1	
	TKR4G080	ORNAMENT	X	1	1	1	
	TLY4G331S	DY	X	1	1	1	
	JH291U-009	CY	X	1	1	1	
	TCD2W21333E	DY	1	X	X	X	
	JH291U-009	CY	1	X	X	X	
	TPD2W4G1101-1	TOP CUSHION	X	1	1	1	
	TPD2W4G2090-2	BOTTOM CUSHION	X	1	1	1	
	TPD2W4G1129	TOP CUSHION	1	X	X	X	
	TPD2W4G2114	BOTTOM CUSHION	1	X	X	X	
	TPC2W4G48207C	PACKING CASE	X	1	1	X	
	TPC2W21Z88DX	PACKING CASE	X	X	X	1	
	TPC2W4G50111	PACKING CASE	1	X	X	X	
	EUR7717020	REMOTE CONTROL					
	TC1MCS15	CHASSIS ASSEMBLY	X	1	1	1	
	TC1MCS12	CHASSIS ASSEMBLY	1	X	X	X	

MECHANICAL PARTS (MONO MODELS)							
SCHM NO.	PART No.	DESCRIPTION	21FJ12R	14Z88RN	14Z88RBN	1420DXN	1420DXSN
	A51LVV896X31	CRT YAMMED (MTPDT)	1	X	X	X	X
	37GDC86XTC01	CRT YAMMED (SAMSUNG)	X	1	1	1	1
	TKY2W4GA2420J-1	CABINET ASSY.	1	X	X	X	X
	TKY2W4111S-1	CABINET ASSY.	X	1	X	X	X
	TKY2W4111B-1	CABINET ASSY.	X	X	1	X	X
	TKY2W4G3254S	CABINET ASSY.	X	X	X	X	1
	TKY2W4G3254B	CABINET ASSY.	X	X	X	1	X
	TKU2W4GA1331J-1	BACK .COVER	1	X	X	X	X
	TKU2W4110S-1	BACK .COVER	X	1	X	X	X
	TKU2W4110B-1	BACK .COVER	X	X	1	X	X
	TKU2W4G3211-B	BACK .COVER	X	X	X	1	X
	TKU2W4G3211-1	BACK .COVER	X	X	X	X	1
	TBX2W4G90111	POWER BUTTON	1	X	X	X	X
	TBX2W04101	POWER BUTTON	X	1	X	X	X
	TBX2W04101B	POWER BUTTON	X	X	1	X	X
	TBX4G81600	POWER BUTTON	X	X	X	1	1
	TKP2W4G13031	DOOR PANEL	1	X	X	X	X
	TKP2W4101S	DOOR PANEL	X	1	X	X	X
	TKP2W4101B	DOOR PANEL	X	X	1	X	X
	TKP2W04200	SMOKED PANEL	X	1	1	X	X
	TKP4G13062	SMOKED PANEL	1	X	X	X	X
	TKK2W04100	LED PANEL	X	1	1	X	X

SCHM NO.	PART No.	DESCRIPTION	21FJ12R	14Z88RN	14Z88RBN	1420DXN	1420DXSN
	TKK2W4G8570	LED.TRANS.PANEL	X	X	X	1	1
	TKK2W4G8597	SPEAKER BRACKET	2	X	X	X	X
	L0A2WAKAB1235X	SPEAKER	X	2	2	X	X
	EASG15S02H2	SPEAKER	2	X	X	X	X
	EAS2WG12D562A2-1	SPEAKER	X	X	X	1	1
	EAS3FP10AAG	TWEETER	X	X	X	1	1
	TKR2W4G090	ORNAMENT	X	1	1	X	X
	TBM4G3013	PANASONIC BADGE	1	X	X	X	X
	TBM4G3008	PANASONIC BADGE	X	1	1	X	X
	TBM173056	PANASONIC BADGE	X	X	X	1	1
	KDY2W3GCE47F-1	DY	X	1	1	1	1
	JH225U-013	CY	1	X	X	1	1
	TCD2W21333E	DY	1	X	X	X	X
	JH291U-009	CY	1	X	X	X	X
	TSN63115-4	PURITY MAGNET					
	TSM10032-4	CORRECTION MAGNET					
	TLK4G9037X	DEGAUSSING COIL	1	X	X	X	X
	TLK4G9006T	DEGAUSSING COIL	1	1	1	1	1
	TSX4G111L	AC CORD	1	X	X	1	1
	TSX4G102H2	AC CORD	X	1	1	X	X
	TPD2W4G1129	TOP CUSHION	1	X	X	X	X
	TPD2W4G2114	BOTTOM CUSHION	1	X	X	X	X
	TPD2W4G1015	TOP CUSHION	X	X	X	1	1
	TPD2W4G2014	BOTTOM CUSHION	X	X	X	1	1
	TPD2W4100	TOP CUSHION	X	1	1	X	X
	TPD2W4200	BOTTOM CUSHION	X	1	1	X	X
	TPC2W21FJ12R	PACKING CASE	1	X	X	X	X
	TPC2W14Z88E	PACKING CASE	X	1	1	X	X
	TPC2W1420DXN	PACKING CASE	X	X	X	1	X
	TPC2W1420DXNE	PACKING CASE	X	X	X	X	1
	EUR7717010	REMOTE CONTROL	1	1	1	1	1
	TC1MCS05	CHASSIS ASSEMBLY	1	X	X	X	X
	TC1MCD15	CHASSIS ASSEMBLY	X	1	1	X	X
	TC1MCD16	CHASSIS ASSEMBLY	X	X	X	1	1

ELECTRICAL PARTS (ALL MODELS)

CAPACITORS

SCHEM	PART No.	DESCRIPTION	21FJ22R	21Z88RN/RBN	21FJ12R	14Z88RN/RBN& 1420DXN/DXSN	
C001	F2A1C220A147	E , 22uF , 16V	1	1	1	1	
C002	ECJ2VF1C104Z	C , 100nF , Z , 16V	1	1	1	1	
C003	ECJ2VF1C104Z	C , 100nF , Z , 16V	1	1	1	1	
C006	F2A0J221A181	E , 220uF , 6.3V	1	1	1	1	
C008	F2A1H1R0A145	E , 1uF , 50V	1	1	1	1	
C100	ECQE2334KFB	P , 0.33uF , 250V	1	1	X	X	
C109	ECJ2VF1C104Z	C , 100nF , Z , 16V	1	1	1	1	
C1101	ECJ2VF1C104Z	C , 100nF , Z , 16V	1	1	1	1	
C1103	ECJ2VC1H331J	C , 330pF , J , 50V	1	1	1	1	
C1104	F2A1C101A180	E , 100uF , 16V	1	1	1	1	
C1105	ECJ2VF1C104Z	C , 100nF , Z , 16V	1	1	1	1	
C1125	F2A1C100A147	E , 10uF , 16V	1	1	1	1	
C113	ECJ2VF1C104Z	C , 100nF , Z , 16V	1	1	X	X	
C1120	ECJ2VF1H103Z	C , 10nF , Z , 50V	X	X	1	1	
C1130	ECJ2VC1H560J	C , 56pF , J , 50V	1	1	1	1	
C1131	F2A0J221A181	E , 220uF , 6.3V	1	1	1	1	
C1132	ECJ2VC1H560J	C , 56pF , J , 50V	1	1	1	1	
C1140	F2A1C101A180	E , 100uF , 16V	1	1	1	1	
C1141	ECJ2VF1C104Z	C , 100nF , Z , 16V	1	1	1	1	
C1142	ECJ2VF1C104Z	C , 100nF , Z , 16V	1	1	1	1	
C117	ECJ2VB1H103J	C , 10nF ,J, 50V	1	1	1	1	
C121	ECJ2VF1H103Z	C , 10nF , Z , 50V	1	1	1	1	
C122	ECJ2VF1H103Z	C , 10nF , Z , 50V	1	1	1	1	
C123	ECJ2VB1H103J	C , 10nF ,J, 50V	1	1	1	1	
C191	F1J1H104A717	C , 100nF , 50V	1	1	1	1	
C193	F2A1C100A180	E , 10uF , 16V	1	1	1	1	
C2101	F2A1C101A180	E , 100uF , 16V	1	1	X	X	
C2102	ECJ2VF1C104Z	C , 100nF , Z , 16V	1	1	X	X	
C2103	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	X	X	
C2104	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	X	X	
C2105	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	X	X	

SCHM NO.	PART No.	DESCRIPTION	21FJ22R	21Z88RN/RBN	21FJ12R	14Z88RN/RBN& 1420DXN/DXSN	
C2106	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	X	X	
C2109	F2A1C100A180	E , 10uF , 16V	1	1	X	X	
C2110	F1J1H332A766	C, 3.3nF , 50V	1	1	X	X	
C2111	F1J1H332A766	C, 3.3nF , 50V	1	1	X	X	
C2113	F2A1H4R7A182	E , 4.7uF , 50V	1	1	X	X	
C2114	ECJ2VF1H104Z	C , 100nF ,Z, 50V	1	1	X	X	
C2115	F2A1H4R7A182	E , 4.7uF , 50V	1	1	X	X	
C2117	F2A1C101A180	E , 100uF , 16V	1	1	X	X	
C2120	F2A1H3R3A182	E , 3.3uF ,50V	1	1	X	X	
C2121	ECJ2VF1C104Z	C , 100nF , Z , 16V	1	1	X	X	
C2124	F2A1C100A180	E , 10uF , 16V	1	1	X	X	
C2125	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	X	X	
C2127	ECJ2VF1C104Z	C , 100nF , Z , 16V	1	1	X	X	
C2128	F2A1C101A180	E , 100uF , 16V	1	1	X	X	
C2138	ECJ2VC1H470J	C , 47pF , 50V	1	1	X	X	
C2139	ECJ2VC1H040C	C , 4pF , 50V	1	1	X	X	
C2140	ECJ2VC1H040C	C , 4pF , 50V	1	1	X	X	
C2141	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	X	X	X	
C2142	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	X	X	X	
C2302	F2A1C222A260	E , 2200uF , 16V	1	1	X	X	
C2302	F2A1E471A151	E , 470uF , 25V	X	X	1	1	
C2303	F2A1C101A180	E , 100uF , 16V	1	1	1	1	
C2304	ECEA1HKN0R1B	E , 0.1uF , 50V	1	1	X	1	
C2304	ECEA1HKN010B	E , 1uF , 50V	X	X	1	1	
C2305	ECEA1HKN0R1B	E , 0.1uF , 50V	1	1	X	X	
C2305	ECEA1HKN010B	E , 1uF , 50V	X	X	1	1	
C2306	F2A1H100A162	E , 10uF , 50V	1	1	1	X	
C2306	F2A1H220A162	E , 22uF , 50V	X	X	X	1	
C2380	F2A1C101A180	E , 100uF , 16V	1	1	1	1	
C2381	F2A1C100A180	E , 10uF , 16V	1	1	1	1	
C3020	ECJ2VB1H392K	C , 3.9nF ,K, 50V	1	1	1	1	
C3021	F2A1C4710045	E , 470uF , 16V	1	1	1	1	
C3028	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	X	X	
C3036	ECJ2VB1H392K	C , 3.9nF ,K, 50V	1	1	X	X	
C3037	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	1	1	
C3038	ECJ2VB1H392K	C , 3.9nF ,K, 50V	1	X	X	X	
C3039	ECJ2VB1H392K	C , 3.9nF ,K, 50V	1	X	X	X	
C3120	ECJ2VF1C105Z	C , 1uF , Z , 16V	X	X	1	1	
C3136	ECJ2VF1H103Z	C , 10nF , Z , 50V	1	X	1	1	
C3137	ECJ2VF1H103Z	C , 10nF , Z , 50V	1	1	1	1	
C3138	F2A1C100A180	E , 10uF , 16V	1	1	1	1	
C3139	F2A1C100A180	E , 10uF , 16V	1	1	1	1	
C3143	ECJ2VB1H392K	C , 3.9nF ,K, 50V	1	1	X	X	
C3144	ECJ2VB1H392K	C , 3.9nF ,K, 50V	1	1	1	1	
C3151	ECJ2VF1C105Z	C , 1uF , Z , 16V	X	X	1	1	
C3153	ECJ2VF1C105Z	C , 1uF , Z , 16V	X	X	1	1	
C3155	ECJ2VF1C105Z	C , 1uF , Z , 16V	X	X	1	1	
C3157	ECJ2VF1C105Z	C , 1uF , Z , 16V	X	X	1	1	
C3173	ECJ2VF1C105Z	C , 1uF , Z , 16V	X	X	1	1	
C3175	ECJ2VF1C105Z	C , 1uF , Z , 16V	X	X	1	1	
C3290	F1J1C1050032	C ,1000nF , 16V	1	X	X	X	
C3291	F1J1C1050032	C ,1000nF , 16V	1	X	X	X	
C3293	ECJ2YB1H473K	C , 47nF ,K, 50V	1	X	X	X	
C350	F2A1C101A180	E , 100uF , 16V	1	1	1	1	
C359	ECQ2WM4104KZB	P , 100nF , 400V	1	1	1	1	
C368	ECJ2VC1H122J	C ,1200pF ,J,50V	1	1	1	1	
C370	ECKW3D102KBP	C ,1000pF , K,2KV	1	1	1	1	
C371	F2J1C100A025	E , 10uF , 16V	1	1	1	1	
C373	F2A2E1000011	E , 10uF , 250V	1	1	1	1	
C377	F2A1C2210044	E , 220uF , 16V	1	1	X	1	
C377	F2A1C101A180	E , 100uF , 16V	X	X	1	1	
C402	F2A1V1010038	E , 100uF , 35V	1	1	1	1	
C404	ECQB1333JF3	P , 33nF , J , 100V	1	1	1	1	
C406	F2A1H221A247	E , 220uF , 50V	1	1	1	1	
C407	ECQB1H103JF3	P , 10nF , J , 50V	1	1	1	1	
C408	ECQB1274JF3	P , 270nF , 100V	1	1	1	1	
C502	F1B2H821A025	C , 820pF , 500V	1	1	1	1	
C503	F1B2H821A025	C , 820pF , 500V	1	1	1	1	
C504	ECJ2VB1H681K	C , 680pF , K , 50V	1	1	1	1	
C506	F1A2H1000002	C , 10pF , 500V	1	1	1	1	

SCHM NO.	PART No.	DESCRIPTION	21FJ22R	21Z88RN/RBN	21FJ12R	14Z88RN/RBN& 1420DXN/DXSN	
C511	F2A1V1010038	E , 100uF , 35V	1	1	1	1	
C513	ECKW3D331JBP	C , 330pF , 2KV	1	1	1	1	
C514	F2A1E102A151	E , 1000uF , 25V	1	1	1	1	
C515	F1B2H331A025	C , 330pF , 500V	1	1	1	1	
C516	F2A1E102A151	E , 1000uF , 25V	1	1	1	1	
C519	F2A2C330A096	E , 33uF , 160V	1	1	1	1	
C520	F2A0J221A181	E , 220uF , 6.3V	1	1	1	1	
C552	F2A2E1000011	E , 10uF , 250V	1	1	1	1	
C555	F1B2H471A025	C , 470pF , 500V	1	1	1	1	
C558	F2A2CR47A028	E , 4.7uF , 160V	1	1	1	1	
C559	ECWH16752JVB	P , 7.5nF , 1600V	1	1	1	X	
C559	ECWH16822JVB	P , 6.8nF , 1600V	X	X	X	1	
C560	ECQ2WM4393JZW	P , 39nF , J , 400V	1	X	1	X	
	ECQ2WM4473JZW	P , 47nF , J , 400V	X	1	1	X	
	ECQM4183JZW	P , 18nF , J , 400V	X	X	X	1	
C561	ECKW3D271KBR	C , 270 Pf, 2kv	1	1	1	X	
C561	ECKW3D221JBR	C , 220 Pf, 2kv	X	X	X	1	
C562	ECKW3D152KBR	C , 1500 Pf, 2kv	1	1	1	X	
C562	ERD25T0V	0 , OHM	X	X	X	1	
C563	ECWF2224JSR	P , 0.22uF ,J, 250V	1	1	1	X	
C563	F0C2E3040001	P , 0.30uF ,J, 250V	X	X	X	1	
C565	ECQP1H183JZ3	P , 18nF ,J, 50V	1	1	1	1	
C566	ECQ2WM4153JZW	P, 15nF , J , 400V	1	1	1	X	
C566	ECQM4182JZW	P, 1.8nF , J , 400V	X	X	X	1	
C567	ECQ2WM4393JZW	P , 39nF , J , 400V	1	1	1	X	
C567	ECQ2WM4123JZ	P , 12nF , J , 400V	X	X	X	1	
C568	ECWH16332JVB	P , 3.3nF ,J, 1600V	1	1	1	X	
C568	ECKW3D821JBR	C , 820 Pf, 2kv	X	X	X	1	
C570	ECJ2VC1H330J	C , 33pF ,J, 50V	1	1	1	1	
C580	F2A1H220A162	E ,22uF , 50V	1	1	1	1	
C581	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	1	1	
C601	F2A1C101A180	E , 100uF , 16V	1	1	1	1	
C602	F1J1H104A717	C , 100nF , 50V	1	1	1	1	
C603	ECJ2VB1H472K	C , 4.7nF ,K, 50V	1	1	1	1	
C604	ECQV1H224JL3	P , 220nF ,J, 50V	1	1	1	1	
C605	ECQV1H224JL3	P , 220nF ,J, 50V	1	1	1	1	
C606	F1J1H2220019	C, 2.2nF , 50V	1	1	X	X	
C606	ECJ2VC1H222J	C , 2200pF ,J, 50V	X	X	1	1	
C607	F2A1H1R0A145	E , 1uF , 50V	1	1	1	1	
C608	F2A1H100A145	E , 10uF , 50V	1	1	1	1	
C609	F1J1H104A717	C , 100nF , 50V	1	1	1	1	
C610	ECJ2VB1H103J	C , 10nF ,J, 50V	1	1	X	1	
C611	ECEA1HKAR22B	E , 0.22uF , 50V	X	X	1	1	
C612	ECJ2VB1H472K	C , 4.7nF ,K, 50V	1	1	1	1	
C613	ECJ2VB1H472K	C , 4.7nF ,K, 50V	1	1	1	1	
C614	ECQV1H104JL3	P , 100nF ,J, 50V	1	1	1	1	
C615	ECQV1H224JL3	P , 220nF ,J, 50V	1	1	1	1	
C618	F1B1H681A130	C , 680pF , 50V	1	1	1	1	
C619	ECQV1H104JL3	P , 100nF ,J, 50V	1	1	1	1	
C620	ECJ2VC1H330J	C , 33pF ,J, 50V	1	1	1	1	
C621	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	1	1	
C622	ECJ2VF1H104Z	C , 100nF ,Z, 50V	1	1	1	1	
C623	ECJ2VC1H330J	C , 33pF ,J, 50V	1	1	1	1	
C625	F2A0J221A181	E , 220uF , 6.3V	1	1	1	1	
C628	ECJ2YB1H473K	C , 47nF ,K, 50V	1	1	1	1	
C631	ECJ2VB1H222K	C , 2.2nF , K , 50V	1	1	1	1	
C632	ECJ2VB1H392K	C , 3.9nF ,K, 50V	1	1	1	1	
C633	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	1	1	
C636	F2A1C101A180	E , 100uF , 16V	1	1	1	1	
C640	F2A1C100A180	E , 10uF , 16V	1	1	1	1	
C641	F1J1H1000013	C, 2.2nF , 50V	1	1	X	X	
C641	ECJ2VC1H100C	C , 10pF ,J, 50V	X	X	1	1	
C670	F2A1C100A180	E , 10uF , 16V	1	1	1	1	
C680	ECJ2YB1H473K	C , 47nF ,K, 50V	1	1	1	1	
C685	ECJ2VC1H101K	C 100pF ,K, 50V	1	1	1	1	
C686	ECJ2YB1H473K	C , 47nF ,K, 50V	1	1	1	1	
C687	ECJ2VF1H104Z	C , 100nF ,Z, 50V	1	1	1	1	
C689	ECJ2VF1H104Z	C , 100nF ,Z, 50V	1	1	1	1	
C801	B81130C1224M	P , 0.22uF , 250V	1	1	1	1	
C802	B81130C1224M	P , 0.22uF , 250V	1	1	1	1	

SCHM NO.	PART No.	DESCRIPTION	21FJ22R	21Z88RN/RBN	21FJ12R	14Z88RN/RBN& 1420DXN/DXSN	
C806	ECKWAE472ZED	C , 4700pF , Z , 250V AC	1	1	1	1	
C807	ECKWAE472ZED	C , 4700pF , Z , 250V AC	1	1	1	1	
C808	ECKWAE472ZED	C , 4700pF , Z , 250V AC	1	1	1	1	
C809	ECKWAE472ZED	C , 4700pF , Z , 250V AC	1	1	1	1	
C810	F2B2G1810011	E , 180uF, 400V	1	1	1	1	
C811	ECQ2WM4473JZW	P , 47nF , J , 400V	1	1	1	1	
C814	ECQE2A473JFB	P , 47KpF ,K, 100V	X	X	1	1	
C816	F2A1H3300037	E , 33uF , 50V	1	1	1	1	
C817	ECKW3D471KBR	C , 470pF , 2KV	X	X	1	1	
C819	F2A1H1R0A162	E , 1uF , 50V	1	1	X	X	
C819	F2A1H1R0A145	E , 1uF , 50V	X	X	1	1	
C821	ECKW3D471KBR	C , 470pF ,K, 2KV	1	1	1	1	
C822	ECKW3D331JBR	C , 330pF ,J, 2KV	1	1	1	1	
C825	ECQB1H471JF3	P , 470pF , J , 50V	1	1	1	1	
C826	F0A1H103A039	P , 10nF , 50V	1	1	1	1	
C827	ECQB1H683JF3	P , 68nF , J , 50V	1	1	1	1	
C830	ECQB1H102JF3	P , 1000pF ,J, 50V	1	1	1	1	
C840	F1A2E471A002	C , 470pF ,250V	1	1	1	1	
C841	F1A2E102A001	C , 1000PF , 250V	1	1	1	1	
C842	F1A2E102A001	C , 1000PF , 250V	1	1	1	1	
C844	F1BAF2220033	C , 2200pF , 440V	1	1	1	1	
C846	F1A2E101A002	C , 100pF , 250V	1	1	1	1	
C850	ECJ2VF1H224Z	C , 220nF ,Z, 50V	X	X	X	1	
C853	F1B2H561A025	C , 330pF , 500V	1	1	1	1	
C854	ECKW3D122KBP	C , 1200pF,K,2KV	1	1	X	X	
C854	ECKW3D102KBP	C , 1000pF,K,2KV	X	X	1	X	
C854	ECKW3D821KBP	C , 820pF,K,2KV	X	X	X	1	
C855	F1B2H331A025	C , 330pF , 500V	1	1	1	1	
C856	F2A1C100A180	E , 10uF , 16V	1	1	1	1	
C862	F2A1C332A232	E , 3300uF , 16V	1	1	1	1	
C863	F2A2C2210013	E , 220uF , 160V	1	1	1	1	
C864	F2A1C102A252	E , 1000uF , 16V	1	1	1	1	
C875	F2A1C101A180	E , 100uF , 16V	1	1	1	1	
C876	F2A1C101A180	E , 100uF , 16V	1	1	1	1	
C877	F2A1A471A161	E , 470uF, 10V	1	1	X	X	
C877	F2A1C101A180	E , 100uF, 10V	X	X	1	1	
C879	ECQV1H104JL3	P , 100nF ,J, 50V	1	1	1	1	
C880	F2A1C1020049	E , 1000uF , 16V	1	1	1	1	
C881	F2A1C101A180	E , 100uF , 16V	1	1	1	1	
C882	ECJ2VF1H104Z	C , 100nF ,Z, 50V	1	1	1	1	
C883	ECJ2VF1H104Z	C , 100nF ,Z, 50V	1	1	1	1	
C971	ECJ2VF1H103Z	C , 10nF , Z , 50V	1	1	1	1	
		DIODES					
CF804	TAP4GA0005	POSISTOR	1	1	1	1	
D002	B0BA01700031	DIODE	1	1	1	1	
D003	B0BA01500036	DIODE	1	1	1	1	
D011	B0ACQJ000001	DIODE	1	1	1	1	
D1105	B0BA7R500006	ZENER DIODE	1	1	1	1	
D1120	B0ACQJ000001	DIODE	1	1	1	1	
D1130	B0BA5R700008	ZENER DIODE	1	1	1	1	
D1131	B0BA5R700008	ZENER DIODE	1	1	1	1	
D1132	B0BA5R400008	ZENER DIODE	1	1	1	1	
D1140	B0BA5R600016	ZENER DIODE	1	1	1	1	
D1151	B3AGA0000089	LED	1	1	1	X	
D1151	B3AGA0000092	LED	X	X	X	1	
D120	MA2C85800E	DIODE	1	1	1	1	
D2380	B0ACQJ000001	DIODE	1	1	1	1	
D2381	B0ACQJ000001	DIODE	1	1	1	1	
D2382	B0ACQJ000001	DIODE	1	1	1	1	
D354	B0ACQJ000001	DIODE	1	1	1	1	
D355	B0ACQJ000001	DIODE	1	1	1	1	
D356	B0ACQJ000001	DIODE	1	1	1	1	
D360	B0HAGP000003	DIODE	1	1	1	X	
D360	B0HAMP000067	DIODE	X	X	X	1	
D361	B0HAGP000003	DIODE	1	1	1	X	
D361	B0HAMP000067	DIODE	X	X	X	1	
D362	B0HAGP000003	DIODE	1	1	1	X	
D362	B0HAMP000067	DIODE	X	X	X	1	
D363	B0ACQJ000001	DIODE	1	1	1	1	

SCHM NO.	PART No.	DESCRIPTION	21FJ22R	21Z88RN/RBN	21FJ12R	14Z88RN/RBN& 1420DXN/DXSN	
D365	B0BA9R900005	ZENER DIODE	1	1	1	1	
D375	B0ACQJ000001	DIODE	1	1	1	1	
D402	B0HAHM000008	DIODE	1	1	1	1	
D403	B0ACMJ000001	DIODE	1	1	1	1	
D404	B0ACMJ000001	DIODE	1	1	1	1	
D511	MAZ4108J0F	DIODE	1	1	1	1	
D512	MA2B17100E	DIODE	1	1	1	1	
D513	B0HAJP000015	DIODE	1	1	1	1	
D515	B0HAJP000015	DIODE	1	1	1	1	
D520	B0ACQJ000001	DIODE	1	1	1	1	
D551	MAZ30470HL	DIODE	1	1	1	1	
D552	B0HAJP000015	DIODE	1	1	1	1	
D555	B0ACQJ000001	DIODE	1	1	1	1	
D556	B0EAKV000008	DIODE	1	1	1	1	
D557	B0HAMR000073	DIODE	1	1	1	1	
D558	B0AADM000003	DIODE	1	1	1	1	
D583	B0ACQJ000002	DIODE	1	1	1	1	
D584	B0BA5R600016	ZENER DIODE	1	1	1	1	
D801	ERZV10V621CS	SURGE ABSORBER	1	1	1	1	
D803	B0EBNT000009	DIODE	1	1	1	1	
D810	B0EAKT000018	DIODE	1	1	1	1	
D817	B0HAJL000001	DIODE	1	1	1	1	
D821	MAZ20750A0LS	DIODE	1	1	1	1	
D823	B0HAJL000001	DIODE	1	1	1	1	
D824	B0HAJL000001	DIODE	1	1	1	1	
D825	B0BA6R100043	ZENER DIODE	1	1	1	1	
D830	B0HAJL000001	DIODE	1	1	1	1	
D831	B0BA02400029	DIODE	1	1	1	1	
D840	B0ACQJ000001	DIODE	1	1	X	X	
D850	B0ACMJ000001	DIODE	1	1	1	1	
D852	B0ACMJ000001	DIODE	1	1	1	1	
D853	B0HAMM000108	DIODE	1	1	1	1	
D854	B0HAPV000009	DIODE	1	1	1	1	
D855	B0HFRJ000012	DIODE	1	1	1	1	
D856	B0BA7R400019	ZENER DIODE	1	1	1	1	
D862	B0BA2R100016	ZENER DIODE	1	1	1	1	
D863	B0HAJL000001	DIODE	1	1	1	1	
D865	B0BA3R500006	ZENER DIODE	1	1	1	1	
D870	B0HAJL000001	DIODE	1	1	1	1	
D871	B0HAJL000001	DIODE	1	1	1	1	
D873	B0BA8R200005	ZENER DIODE	1	1	1	1	
F801	K5D402BK0004	FUSE	1	1	1	1	
INTEGRATED CIRCUITS							
IC1103	C3EBFC000042	EEPROM IC (MENTION MOD	1	1	1	1	
IC1201	C0CBABC00160	RESET IC	1	1	1	1	
IC2101	C1AB00001987	MSP	1	1	X	X	
IC2301	AN17820B	AUDIO IC	1	1	X	X	
IC2301A	AN7522N	AUDIO IC	X	X	1	1	
IC3151	C1BB00000712	SWITCHING	X	X	1	1	
IC351	TDA6107JF/N3	RGB IC	1	1	1	1	
IC451	AN15525A	VERTICAL (C1AA00000754)	1	1	1	1	
IC601	TDA9541N48DB	MICON IC (UOC)	1	1	1	1	
IC801	C5HABZZ00116	STR	1	1	1	1	
IC802	C0EAS0000026	140 V REGULATOR	1	1	1	1	
IC851	C0DAAHF00005	STV	1	1	1	1	
IC880	AN77L05-TA	5V REGULATOR	1	1	1	1	
COILS							
J231	G0C4R7JA0003	COIL	X	X	1	1	
JS2310	J0JCC0000009	COIL	X	X	1	1	
L001	G0C220K00008	PEAKING COIL,22uH	1	1	X	X	
L001	G0C100K00008	PEAKING COIL,10uH	X	X	1	1	
L002	EXC3BB221H	COIL	1	1	1	1	
L100	ECQE2234KFB	P , 0.23uF , 250V	X	X	1	1	
L1101	TALV35VB331K	COIL	1	1	1	1	
L120	G0CR56KA0030	PEAKING COIL , 0.56uH	1	1	1	1	
L125	G0C8R2KA0030	PEAKING COIL , 8.2uH	1	1	1	1	
L181	G0C100K00008	PEAKING COIL , 10uH	1	1	1	1	
L182	TALV35VB6R8K	COIL	1	1	1	1	
L183	G0C5R6KA0030	PEAKING COIL , 5.6uH	1	1	1	1	

SCHM NO.	PART No.	DESCRIPTION	21FJ22R	21Z88RN/RBN	21FJ12R	14Z88RN/RBN& 1420DXN/DXSN	
L184	TALV35VB6R8K	COIL	1	1	1	1	
L2104	G0C330JA0021	PEAKING COIL,33uH	1	1	X	X	
L2107	G0C100JA0021	PEAKING COIL,10uH	1	1	X	X	
L2130	G0C330JA0021	PEAKING COIL,33uH	1	1	X	X	
L2133	EXCELDR35V	BEAD CORE	1	1	X	X	
L2311	J0JCC0000009	COIL	X	X	1	1	
L3136	EXCELSA35T	BEAD CORE	1	1	1	1	
L3137	EXCELSA35T	BEAD CORE	1	1	1	1	
L352	EXCELSA24T	BEAD CORE	1	1	1	1	
L501	ELH2W5L4104	LINEARITY COIL	X	1	1	X	
	ELH2W5L4152	LINEARITY COIL	1	X	1	X	
L502	EXCELSA35T	BEAD CORE	1	1	1	X	
L511	EXCELSA35T	BEAD CORE	1	1	1	1	
L550	J0JKB0000038	COIL	1	1	1	1	
L620	J0JCC0000009	COIL	1	1	1	1	
L820	J0JKA0000025	COIL	1	1	1	1	
L821	EXCELSA35T	BEAD CORE	1	1	1	1	
L852	EXCELSA35B	COIL	1	1	X	X	
L852	J0JKA0000023	COIL	X	X	X	1	
L853	J0JKA0000025	COIL	1	1	1	1	
L854	J0JKA0000023	COIL	1	1	1	1	
L862	G0C1R5KA0030	PEAKING COIL , 1.5uH	1	1	1	1	
L871	G0C1R5KA0030	PEAKING COIL , 1.5uH	1	1	1	1	
L872	G0C1R5KA0030	PEAKING COIL , 1.5uH	1	1	1	1	
L873	EXCELSA39V	BEAD CORE	1	1	1	1	
L875	EXCELSA39V	BEAD CORE	1	1	1	X	
TRANSISTORS							
PC860	B3PAA0000261	PHOTO COUPLER	1	1	1	1	
Q001	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q101	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q102	2SC24800VL	TRANSISTOR	1	1	1	1	
Q103	B1ABGC000001	TRANSISTOR	1	1	1	1	
Q105	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q1052	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q1053	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q1110	B1ADDF000005	TRANSISTOR	1	1	1	1	
Q1130	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q180	B1ADDF000005	TRANSISTOR	1	1	1	1	
Q2110	B1ADDF000005	TRANSISTOR	1	1	X	X	
Q2111	B1ADDF000005	TRANSISTOR	1	1	X	X	
Q2120	B1ABCE000015	TRANSISTOR	X	X	1	1	
Q2380	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q2381	B1ADDF000005	TRANSISTOR	1	1	1	1	
Q3030	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q3031	B1ABCE000015	TRANSISTOR	X	X	1	1	
Q3150	B1ABCE000015	TRANSISTOR	X	X	1	1	
Q3151	B1ADDF000005	TRANSISTOR	X	X	1	1	
Q369	B1ADDF000005	TRANSISTOR	1	1	1	1	
Q400	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q501	2SC4212H00LB	TRANSISTOR	1	1	1	1	
Q520	2SB792ATX	TRANSISTOR	1	1	1	1	
Q551	2SC5902000LK	TRANSISTOR	1	1	1	1	
Q580	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q581	B1ADDF000005	TRANSISTOR	1	1	1	1	
Q601	B1ADDF000005	TRANSISTOR	1	1	1	1	
Q602	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q840	B1ABCE000015	TRANSISTOR	1	1	X	X	
Q850	B1BCCM000002	TRANSISTOR	1	1	1	1	
Q852	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q853	B1ADCE000012	TRANSISTOR	1	1	1	1	
Q854	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q855	B1ADCF000077	TRANSISTOR	1	1	1	X	
Q855	B1ADCE000012	TRANSISTOR	X	X	X	1	
Q857	B1BAAN000029	TRANSISTOR	1	1	1	1	
Q870	B1ABCE000015	TRANSISTOR	1	1	1	1	
Q871	B1ABCE000015	TRANSISTOR	1	1	1	1	
RESISTORS							
R003	D0GD100JA017	M , 10 OHM ,J, 1/10W	1	1	1	1	
R004	ERG3FJ183H	M , 18KOHM ,J, 3W	1	1	1	1	

SCHM NO.	PART No.	DESCRIPTION	21FJ22R	21Z88RN/RBN	21FJ12R	14Z88RN/RBN& 1420DXN/DXSN	
R006	D0GD273JA017	M , 27 KOHM ,J, 1/10W	1	1	1	1	
R007	D0GD302JA017	M , 3 KOHM ,J, 1/10W	1	1	1	1	
R008	D0GD681JA017	M , 680 OHM ,J, 1/10W	1	1	1	1	
R011	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R012	D0GD332JA017	M , 3.3 KOHM ,J, 1/10W	1	1	1	1	
R021	D0GD273JA017	M , 27 KOHM ,J, 1/10W	1	1	1	1	
R022	D0GD473JA017	M , 47 KOHM ,J, 1/10W	1	1	1	1	
R1016	TSR6GTF1800V	M , 180 OHM ,F, 1/10W	1	1	1	1	
R1017	TSR6GTF2400V	M , 240 OHM ,F, 1/10W	1	1	1	1	
R1018	D1BD3300A026	M ,330 OHM ,F, 1/10W	1	1	1	1	
R1019	TSR6GTF4700V	M , 470 OHM ,F, 1/10W	1	1	1	1	
R1020	TSR6GTF8200V	M , 820 OHM ,F, 1/10W	1	1	1	1	
R1021	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
R1057	D0GD271JA017	M , 270 OHM ,J, 1/10W	1	1	1	1	
R1058	D0GD333JA017	M , 33 KOHM ,J, 1/10W	1	1	1	1	
R1059	D0GD222JA017	M , 2.2 KOHM ,J, 1/10W	1	1	1	1	
R1060	D0GD683JA017	M , 68 KOHM ,J, 1/10W	1	1	1	1	
R1103	D0GD680JA017	M , 68 OHM ,J, 1/10W	1	1	1	1	
R1104	D0GD562JA017	M , 5.6 KOHM ,J, 1/10W	1	1	1	1	
R1105	D0GD562JA017	M , 5.6 KOHM ,J, 1/10W	1	1	1	1	
R1106	D0GD102JA017	M , 1 KOHM ,J, 1/10W	1	1	1	1	
R1108	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	1	1	
R1109	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	1	1	
R1110	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R1111	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R1113	D0GD682JA017	M , 6.8 KOHM ,J, 1/10W	X	X	1	1	
R1114	D0GD682JA017	M , 6.8 KOHM ,J, 1/10W	X	X	1	1	
R1112	D0GD332JA017	M , 3.3 KOHM ,J, 1/10W	1	1	1	1	
R1115	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	X	X	
R1116	D0GD332JA017	M , 3.3 KOHM ,J, 1/10W	1	1	1	1	
R1120	D0GD102JA017	M , 1 KOHM ,J, 1/10W	1	1	1	1	
R1122	D0GD332JA017	M , 3.3 KOHM ,J, 1/10W	1	1	1	1	
R1123	D0GD680JA017	M , 68 OHM ,J, 1/10W	1	X	1	X	
	D0GD681JA017	M , 680 OHM ,J, 1/10W	X	1	X	X	
R1123	D0GD821JA017	M , 820 OHM ,J, 1/10W	X	X	1	X	
R1123	D0GD112JA017	M , 1.1 KOHM ,J, 1/10W	X	X	X	1	
R1124	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
R1125	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R1130	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	1	1	
R1131	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	1	1	
R1132	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	1	1	
R1133	D0GD562JA017	M , 5.6 KOHM ,J, 1/10W	1	1	1	1	
R1134	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R1135	D0GD333JA017	M , 33 KOHM ,J, 1/10W	1	1	1	1	
R1136	D0GD332JA017	M , 3.3 KOHM ,J, 1/10W	1	1	1	1	
R1141	D0GD562JA017	M , 5.6 KOHM ,J, 1/10W	1	1	1	1	
R1142	D0GD100JA017	M , 10 OHM ,J, 1/10W	1	1	1	1	
R116	D0GD222JA017	M , 2.2 KOHM ,J, 1/10W	1	1	1	1	
R117	D0GD682JA017	M , 6.8 KOHM ,J, 1/10W	1	1	1	1	
R118	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R119	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R120	D0GD680JA017	M , 68 OHM ,J, 1/10W	1	1	1	1	
R121	D0GD122JA017	M , 1.2 KOHM ,J, 1/10W	1	1	1	1	
R122	D0GD470JA017	M , 47 OHM ,J, 1/10W	1	1	1	1	
R123	D0GD472JA017	M , 4.7 KOHM ,J, 1/10W	1	1	1	1	
R124	D0GD122JA017	M , 1.2 KOHM ,J, 1/10W	1	1	1	1	
R126	D0GD222JA017	M , 2.2 KOHM ,J, 1/10W	1	1	1	1	
R136	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R137	D0GD683JA017	M , 68 KOHM ,J, 1/10W	1	1	1	1	
R138	D0GD102JA017	M , 1 KOHM ,J, 1/10W	1	1	1	1	
R139	D0GD333JA017	M , 33 KOHM ,J, 1/10W	1	1	1	1	
R145	D0GD473JA017	M , 47 KOHM ,J, 1/10W	1	1	1	1	
R150	D0GD222JA017	M , 2.2 KOHM ,J, 1/10W	1	1	1	1	
R151	D0GD333JA017	M , 33 KOHM ,J, 1/10W	1	1	1	1	
R182	D0GD221JA017	M , 220 OHM ,J, 1/10W	1	1	1	1	
R185	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R190	D0GD391JA017	M , 390 OHM ,J, 1/10W	1	1	1	1	
R2101	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	X	X	
R2102	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	X	X	
R2106	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	X	X	

SCHM NO.	PART No.	DESCRIPTION	21FJ22R	21Z88RN/RBN	21FJ12R	14Z88RN/RBN& 1420DXN/DXSN	
R2107	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	X	X	
R2109	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	X	X	
R2112	D0GD222JA017	M , 2.2 KOHM ,J, 1/10W	1	1	X	X	
R2113	D0GD222JA017	M , 2.2 KOHM ,J, 1/10W	1	1	X	X	
R2120	D0GD184JA017	M , 180 KOHM ,J, 1/10W	1	1	1	X	
R2120	D0GD103JA017	M , 10 KOHM ,J, 1/10W	X	X	1	1	
R2121	D0GD683JA017	M , 68 KOHM ,J, 1/10W	X	X	1	1	
R2122	D0GD683JA017	M , 68 KOHM ,J, 1/10W	X	X	1	1	
R2302	D0GD153JA017	M , 15 KOHM ,J, 1/10W	1	1	1	1	
R2303	D0GD472JA017	M , 4.7 KOHM ,J, 1/10W	1	1	1	1	
R2380	D0GD151JA017	M , 150 OHM ,J, 1/10W	1	1	1	1	
R2381	D0GD102JA017	M , 1 KOHM ,J, 1/10W	1	1	1	1	
R2382	D0GD102JA017	M , 1 KOHM ,J, 1/10W	1	1	1	1	
R2383	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R2384	D0GD100JA017	M , 10 OHM ,J, 1/10W	1	1	1	1	
R3010	D0GD184JA017	M , 180 KOHM ,J, 1/10W	1	1	X	X	
R3012	D0GD184JA017	M , 180 KOHM ,J, 1/10W	1	1	X	X	
R3013	D0GD184JA017	M , 180 KOHM ,J, 1/10W	1	X	X	X	
R3014	D0GD184JA017	M , 180 KOHM ,J, 1/10W	1	X	X	X	
R3015	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	1	1	
R3018	D0GD750JA017	M , 75 OHM ,J, 1/10W	1	1	1	1	
R3022	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	1	1	
R3032	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	X	X	
R3033	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	X	X	
R3034	D0GD181JA017	M , 180 OHM ,J, 1/10W	1	1	1	1	
R3035	D0GD560JA017	M , 56 OHM ,J, 1/10W	1	1	1	1	
R3036	D0GD330JA017	M , 33 OHM ,J, 1/10W	1	1	1	1	
R3038	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	X	X	X	
R3039	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	X	X	X	
R3048	D0GD184JA017	M , 180 KOHM ,J, 1/10W	1	1	1	1	
R3132	D0GD331JA017	M , 330 OHM ,J, 1/10W	1	1	1	1	
R3133	D0GD331JA017	M , 330 OHM ,J, 1/10W	1	1	1	1	
R3141	D0GD184JA017	M , 180 KOHM ,J, 1/10W	1	1	X	X	
R3142	D0GD184JA017	M , 180 KOHM ,J, 1/10W	1	1	1	1	
R3143	D0GD750JA017	M , 75 OHM ,J, 1/10W	1	1	1	X	
R3144	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	X	X	
R3145	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	1	1	
R3149	D0GD331JA017	M , 330 OHM ,J, 1/10W	X	X	1	1	
R3150	D0GD273JA017	M , 27 KOHM ,J, 1/10W	X	X	1	1	
R3151	D0GD152JA017	M , 1.5 KOHM ,J, 1/10W	X	X	1	1	
R3152	D0GD681JA017	M , 680 OHM ,J, 1/10W	X	X	1	1	
R3153	D0GD561JA017	M , 560 OHM ,J, 1/10W	X	X	1	1	
R3154	D0GD102JA017	M , 10 KOHM ,J, 1/10W	X	X	1	1	
R3259	D0GD750JA017	M , 75 OHM ,J, 1/10W	1	X	X	X	
R3279	D0GD750JA017	M , 75 OHM ,J, 1/10W	1	X	X	X	
R3289	D0GD750JA017	M , 75 OHM ,J, 1/10W	1	X	X	X	
R351	D1BD1001A027	M ,1.KOHM ,F, 1/10W	1	1	1	1	
R352	D1BD1001A027	M ,1.KOHM ,F, 1/10W	1	1	1	1	
R353	D1BD1001A027	M ,1.KOHM ,F, 1/10W	1	1	1	1	
R357	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R358	D0GD333JA017	M , 33 KOHM ,J, 1/10W	1	1	1	1	
R359	D0GD273JA017	M , 27 KOHM ,J, 1/10W	1	1	1	1	
R363	ERC12GK222D	S , 2.2KOHM ,K, 1/2W	1	1	1	1	
R364	ERC12GK222D	S , 2.2KOHM ,K, 1/2W	1	1	1	1	
R365	ERC12GK222D	S , 2.2KOHM ,K, 1/2W	1	1	1	1	
R369	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R374	ERQ12AJ181P	F , 180 OHM ,J, 1/2W	1	1	1	1	
R401	D0AE104JA046	C, 100K OHM , J , 1/4W	1	1	1	1	
R402	D0GD470JA017	M , 47 OHM ,J, 1/10W	1	1	1	1	
R403	EROS2THF2491	M ,2.49 KOHM ,F, 1/4W	1	1	1	1	
R404	D0AE751JA046	C , 750 OHM ,J, 1/4W	1	1	1	1	
R405	EROS2THF2701	M ,2.7 KOHM ,F, 1/4W	1	1	1	1	
R406	ERDS1FJ1R0T	C , 1 OHM ,J, 1/2W	1	1	1	1	
R407	ERG2FJ331H	M , 330 OHM ,J, 2W	1	1	1	1	
R409	D0GD512JA017	M , 5.1 KOHM ,J, 1/10W	1	1	1	1	
R410	D0GD202JA017	M , 2 KOHM ,J, 1/10W	1	1	1	1	
R414	D0GD432JA017	M , 4.3 KOHM ,J, 1/10W	1	1	1	1	
R415	EROS2THF7500	M , 750 OHM ,F, 1/4W	1	1	1	1	
R416	ERDS1TJ1R2T	C , 1.2 OHM ,J, 1/2W	1	1	1	X	
R416	ERDS1TJ1R8T	C , 1.8 OHM ,J, 1/2W	X	X	X	1	

SCHM NO.	PART No.	DESCRIPTION	21FJ22R	21Z88RN/RBN	21FJ12R	14Z88RN/RBN& 1420DXN/DXSN	
R417	ERDS1TJ1R2T	C , 1.2 OHM ,J, 1/2W	1	1	1	1	
R502	D0GD182JA017	M , 1.8 KOHM ,J, 1/10W	1	1	1	1	
R503	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
R504	ERG2SJ682E	M , 6.8 KOHM ,J, 2W	1	1	1	1	
R507	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	1	1	
R508	ERG3FJ152H	M, 1.5 KOHM , J , 3W	1	1	1	X	
R508	ERG3FJ222H	M, 2.2 KOHM , J , 3W	X	X	X	1	
R509	ERG3FJ182H	M, 1.8 KOHM , J , 3W	1	1	1	X	
R509	ERG3FJ222H	M, 2.2 KOHM , J , 3W	X	X	X	1	
R511	D1BD1002A028	M, 10K OHM , F , 1/10W	1	1	1	X	
R511	D1BD1052A028	M, 10.5K OHM , F , 1/10W	X	X	X	1	
R512	D1BD1152A028	M, 11.5K OHM , F , 1/10W	1	1	1	1	
R513	ERQ14AJ100E	F, 10 OHM , J , 1/4W	1	1	1	1	
R519	ERQ12AJ100E	F , 10 OHM ,J, 1/2W	1	1	1	X	
R520	ERQ12AJ100E	F , 10 OHM ,J, 1/2W	1	1	1	X	
R520	ERQ12AJ6R8E	F , 6.8 OHM ,J, 1/2W	X	X	X	1	
R521	ERQ12AJ100E	F , 10 OHM ,J, 1/2W	1	1	1	X	
R521	ERQ12AJ6R8E	F , 6.8 OHM ,J, 1/2W	X	X	X	1	
R522	D0GD273JA017	M , 27 KOHM ,J, 1/10W	1	1	1	1	
R523	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R524	D0GD104JA017	M , 100 KOHM ,J, 1/10W	1	1	1	1	
R525	D0GD392JA017	M , 3.9 KOHM ,J, 1/10W	1	1	1	1	
R553	D0GD223JA017	M , 22 KOHM ,J, 1/10W	1	1	1	1	
R554	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	X	
R555	ERQ14AJ2R0P	F , 2 OHM ,J, 1/4W	1	1	1	1	
R557	ERO50PHF1403	M , 140 KOHM ,F, 1/2W	X	1	X	X	
	ERO50PHF9532	M , 95.3 KOHM ,F, 1/2W	1	X	1	X	
	ERO50PKF1743	M , 174 KOHM ,F, 1/2W	X	X	X	1	
R558	D0AE513JA046	C , 51KOHM ,J, 1/4W	1	1	1	1	
R559	ERQ1CJP1R0S	F, 1.0 OHM , J , 1W	X	1	X	X	
	ERQ1CJP2R2S	F, 2.2 OHM , J , 1W	1	X	1	1	
R560	ERG1SJ102E	M , 1.2 KOHM ,J, 1W	1	1	1	1	
R563	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
R564	D0AE393JA046	C , 39KOHM ,J, 1/4W	1	1	1	1	
R580	D0GD392JA017	M , 3.9 KOHM ,J, 1/10W	1	1	1	1	
R581	D0GD332JA017	M , 3.3 KOHM ,J, 1/10W	1	1	1	1	
R583	D0GD274JA017	M , 270 KOHM ,J, 1/10W	1	1	1	1	
R584	D0GD563JA017	M , 56 KOHM ,J, 1/10W	1	1	1	1	
R586	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R587	D0GD823JA017	M , 82 KOHM ,J, 1/10W	1	1	1	1	
R588	D0GD104JA017	M , 100 KOHM ,J, 1/10W	1	1	1	1	
R591	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R592	D0GD222JA017	M , 2.2 KOHM ,J, 1/10W	1	1	1	1	
R593	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R594	D0GD104JA017	M , 100 KOHM ,J, 1/10W	1	1	1	1	
R596	D0GD333JA017	M , 33 KOHM ,J, 1/10W	1	1	1	1	
R601	D0GD153JA017	M , 15 KOHM ,J, 1/10W	1	1	1	1	
R603	D0GD393JA017	M , 39 KOHM ,J, 1/10W	1	1	1	1	
R604	D0GD821JA017	M , 820 OHM ,J, 1/10W	1	1	1	X	
R604	D0GD101JA017	M , 100 OHM ,J, 1/10W	X	X	X	1	
R605	D0GD821JA017	M , 820 OHM ,J, 1/10W	1	1	1	X	
R605	D0GD101JA017	M , 100 OHM ,J, 1/10W	X	X	X	1	
R606	D0GD821JA017	M , 820 OHM ,J, 1/10W	1	1	1	X	
R606	D0GD101JA017	M , 100 OHM ,J, 1/10W	X	X	X	1	
R607	D0GD101JA017	M , 100 OHM ,J, 1/10W	1	1	1	1	
R610	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	X	X	
R612	D0GD102JA017	M , 1 KOHM ,J, 1/10W	1	1	1	1	
R614	D0GD392JA017	M , 3.9 KOHM ,J, 1/10W	1	1	1	1	
R617	D0GD391JA017	M , 390 OHM ,J, 1/10W	1	1	1	1	
R619	D0GD121JA017	M , 120 OHM ,J, 1/10W	1	1	1	1	
R620	D0GD121JA017	M , 120 OHM ,J, 1/10W	1	1	1	1	
R623	D0GD331JA017	M , 330 OHM ,J, 1/10W	1	1	1	1	
R633	D0GD470JA017	M , 47 OHM ,J, 1/10W	1	1	1	1	
R640	D0GD822JA017	M , 8.2 KOHM ,J, 1/10W	1	1	1	1	
R672	D0GD181JA017	M , 180 OHM ,J, 1/10W	1	1	1	1	
R685	D0GD750JA017	M , 75 OHM ,J, 1/10W	X	X	X	1	
R686	D0GD470JA017	M , 47 OHM ,J, 1/10W	1	1	1	1	
R687	D0GD472JA017	M , 4.7 KOHM ,J, 1/10W	1	1	1	1	
R688	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R801	D0D72R2KA002	W , 2.2 OHM, 7W	1	1	1	X	

SCHM NO.	PART No.	DESCRIPTION	21FJ22R	21Z88RN/RBN	21FJ12R	14Z88RN/RBN& 1420DXN/DXSN	
R801	D0D72R7KA002	W , 2.7 OHM, 7W	X	X	1	1	
R810	ERG2FJ470	M , 47 OHM ,J, 2W	1	1	1	1	
R811	ERG2FJ104H	M , 100 KOHM ,J, 2W	1	1	1	1	
R817	ERDS1TJ390T	C, 39 OHM , J , 1/2 W	1	1	1	X	
R817	ERDS1TJ100T	C, 10 OHM , J , 1/2 W	X	X	X	1	
R818	ERG2FJ473H	M , 47 KOHM ,J, 2W	1	1	1	X	
R818	ERG2FJ683H	M , 68 KOHM ,J, 2W	X	X	X	1	
R820	ERX12SJR33E	M , 0.33 OHM ,J, 1/2W	1	1	1	1	
R821	ERX12SJR27E	M, 0.27 OHM , J , 1/2W	1	1	1	1	
R824	D0AE152JA046	C, 1.5K OHM , J , 1/4W	1	1	1	1	
R825	D0AE102JA046	C 1K OHM , J , 1/4W	1	1	1	1	
R830	D0AE101JA046	C, 100 OHM , J , 1/4W	1	1	1	1	
R831	EROS2THF1102	M , 11 KOHM ,F, 1/4W	1	1	1	1	
R832	D0AE473JA046	C, 47K OHM , J , 1/4W	1	1	1	1	
R840	ERD75TAJ825	C, 8.2M OHM , J , 3/4 W	1	1	1	1	
R841	D0GD472JA017	M , 4.7 KOHM ,J, 1/10W	1	1	X	X	
R842	D0GD472JA017	M , 4.7 KOHM ,J, 1/10W	1	1	X	X	
R850	ERG3SJS470H	M, 47 OHM , J , 3W	1	1	1	1	
R851	ERX2SJR47E	M, 0.47 OHM , J , 2W	X	X	1	1	
R852	D0AE272JA046	C , 2.7 KOHM ,J, 1/4W	1	1	1	1	
R854	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R855	D0AE752JA046	C , 7.5 KOHM ,J, 1/4W	1	1	1	1	
R857	ERDS2TJ683T	C , 68 KOHM ,J, 1/4W	1	1	1	1	
R858	D0AE153JA046	C , 15 KOHM ,J, 1/4W	1	1	1	1	
R861	ERDS1TJ221T	C, 220 OHM , J , 1/2 W	1	1	1	1	
R864	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
R866	D0GD472JA017	M , 4.7 KOHM ,J, 1/10W	1	1	1	1	
R867	D0AE272JA046	C , 2.7 KOHM ,J, 1/4W	1	1	1	X	
R867	D0AE362JA046	C , 3.6 KOHM ,J, 1/4W	X	X	X	1	
R868	ERDS1TJ471T	C , 470 OHM ,J, 1/2W	1	1	1	1	
R870	D0GD222JA017	M , 2.2 KOHM ,J, 1/10W	1	1	1	1	
R871	ERDS1TJ103T	C , 10 KOHM ,J, 1/2W	1	1	1	1	
R872	D0GD272JA017	M , 2.7 KOHM ,J, 1/10W	1	1	1	1	
R873	D0GD472JA017	M , 4.7 KOHM ,J, 1/10W	1	1	1	1	
R875	D0GD103JA017	M , 10 KOHM ,J, 1/10W	1	1	1	1	
RL801	K6B1CDA00027	RELAY	1	1	X	X	
JA1	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JA10	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JA11	TRJ6GEY0R00V	M , 0 OHM , 1/10W	X	X	1	1	
JA12	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JA3	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JA4	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JA5	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JA6	TRJ6GEY0R00V	M , 0 OHM , 1/10W	X	X	1	1	
JA7	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JA8	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JA9	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS110	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS111	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS112	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS113	TRJ6GEY0R00V	M , 0 OHM , 1/10W	X	X	1	1	
JS2132	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	X	X	
JS2140	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS2141	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS3001	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS3129	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS3132	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS3133	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS3140	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	X	X	
JS3141	TRJ6GEY0R00V	M , 0 OHM , 1/10W	X	X	1	1	
JS3261	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	X	X	X	
JS3296	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	X	X	X	
JS3297	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	X	X	X	
JS415	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS416	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
JS610	TRJ6GEY0R00V	M , 0 OHM , 1/10W	X	X	1	1	
JS670	TRJ6GEY0R00V	M , 0 OHM , 1/10W	X	1	1	1	
JS671	TRJ6GEY0R00V	M , 0 OHM , 1/10W	X	1	1	1	
JS672	TRJ6GEY0R00V	M , 0 OHM , 1/10W	X	1	1	1	
JS882	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	

SCHM NO.	PART No.	DESCRIPTION	21FJ22R	21Z88RN/RBN	21FJ12R	14Z88RN/RBN& 1420DXN/DXSN	
JS883	TRJ6GEY0R00V	M , 0 OHM , 1/10W	1	1	1	1	
MISC ITEMS							
RM1104	B3RAC0000010	REMOCON RECEIVER	1	1	1	1	
SC351	K3B095A00001	CRT SOCKET	1	1	1	X	
SC351	K3B08BA00007	CRT SOCKET	X	X	X	1	
SW1001	EVQ11G05R	SWITCH	1	1	1	1	
SW1002	EVQ11G05R	SWITCH	1	1	1	1	
SW1003	EVQ11G05R	SWITCH	1	1	1	1	
SW1004	EVQ11G05R	SWITCH	1	1	1	1	
SW1005	EVQ11G05R	SWITCH	1	1	1	1	
SW1006	EVQ11G05R	SWITCH	1	1	1	1	
SW801	ESB92DA1B	POWER SWITCH	1	1	1	1	
JK3002	K4BK09B00011	REAR AV TERMINAL	1	1	X	X	
JK3002A	K4BK06B00019	REAR AV TERMINAL	X	X	1	1	
JK3003	K4BK07B00008	YUV TERMINAL	1	X	X	X	
JK3102	K4BC14B00004	FRONT AV TERMINAL	1	1	X	X	
JK3102A	K4BC11B00003	FRONT AV TERMINAL	X	X	1	1	
T501	ZTFP12501A	FBT	1	1	1	X	
T501	ZTFP12506A	FBT	X	X	X	1	
T553	ETH19Y210AZ	HDT	1	1	1	1	
T801	ETS35AH1A6AC	SMPS	1	1	1	1	
LF801	ELF21V012S	LINE FILTER	1	1	1	1	
TU001	ENV2W59D89G3-E	TUNER	1	1	1	1	
X180	EFCS5M7MW3	CERAMIC FILTER	1	1	1	1	
X181	EFCS6R0MW5	CERAMIC FILTER	1	1	1	1	
X182	EFCS6R5MW5	CERAMIC FILTER	1	1	1	1	
X183	EFCS4R5MW5	CERAMIC FILTER	1	1	1	1	
X2130	H0D184500015	CRYSTAL	1	1	X	X	
X601	H0D120500020	CRYSTAL	1	1	1	1	
XF101	K7256M	SAW FILTER	1	1	1	1	