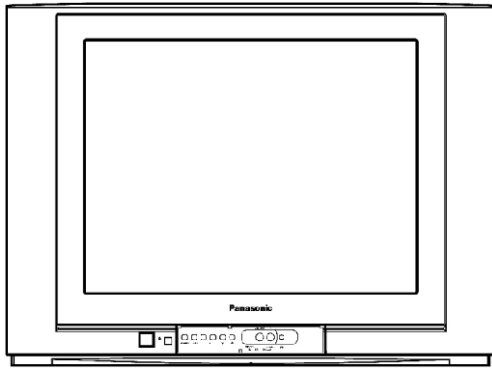


Service Manual



Colour Television
TC-14Z88RG
TC-14Z88RBG
TC-21FX10RSG

Specifications

Power Source : AC AUTO (110-240V), 50/60 Hz
Power Consumption : 58W for 21" model & 48W for 14" model
Aerial Impedance : 75 Ω 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 Mono

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 $\pm$ 1.5 KV at zero beam current (21" Model)
24.5 $\pm$ 0.7 KV at zero beam current (14" Model)

Picture Tube : 21" Model - A51LYZ395X21
14" Model - A34LEX10X30

Set Dimensions : (WxDxH): 648 x 488 x 472 (21" Model)
(mm) (WxDxH): 460 x 375 x 354 (14" Model)

Net Weight : 23 kg for 21" Model
10.4 kg for 14" Model

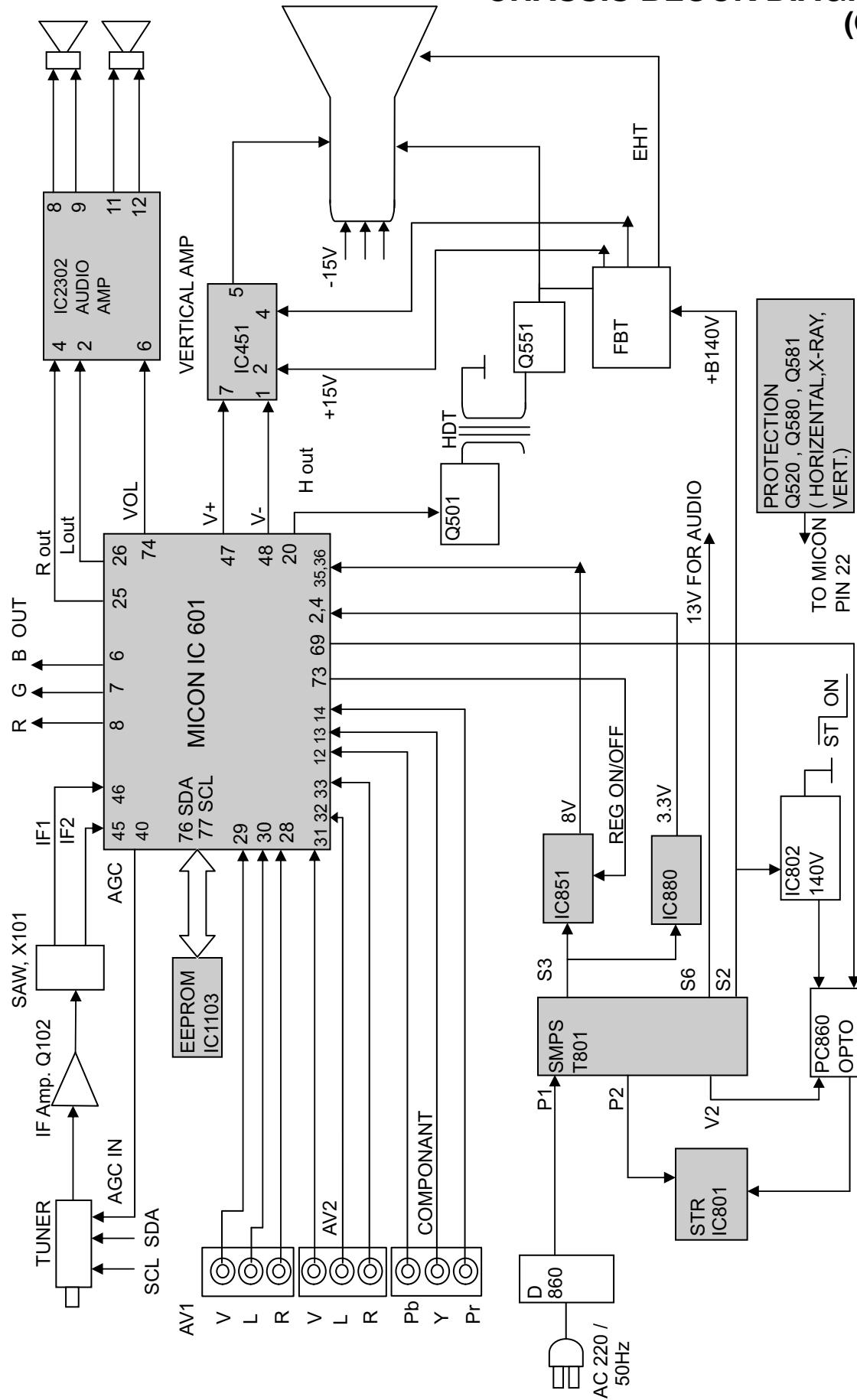
Accessories Supplied : Remote Controller x 1
"R6" Battery x 2

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

Panasonic

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CHASSIS BLOCK DIAGRAM (GL1)



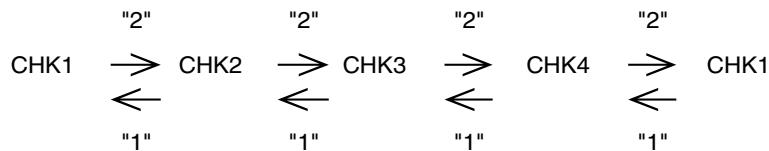
Factory Mode Adjustment

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.

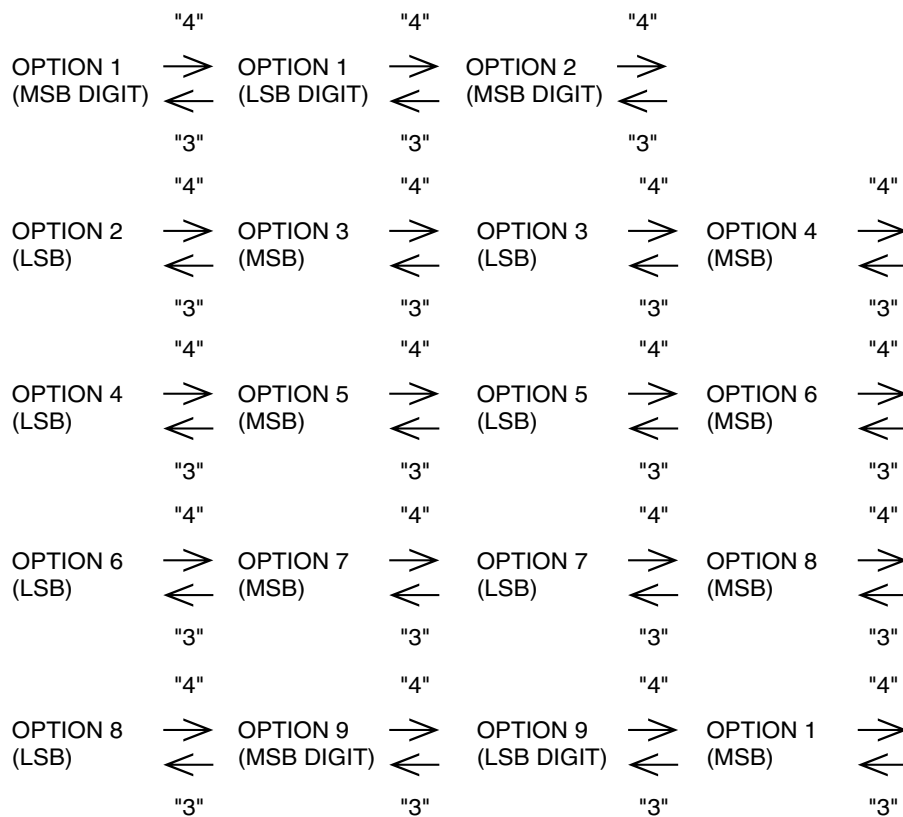
<NOTE>

To move from CHK1 to CHK 2 mode, etc., please follow below rotation :-



<CHK 1>

- 3) Press digit key "4" to move option mode forward. Press digit key "3" to move option 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.
Press digit "0" to memorize data.

OPTION TABLE

MODEL LOCATION	21FX10SG	14Z88RG	14Z88RBG
OPTION 1	10	10	10
OPTION 2	00	00	00
OPTION 3	10	10	10
OPTION 4	77	77	77
OPTION 5	00	00	00
OPTION 6	00	00	00
OPTION 7	00	00	00
OPTION 8	21	21	21
OPTION 9	0F	0F	0F

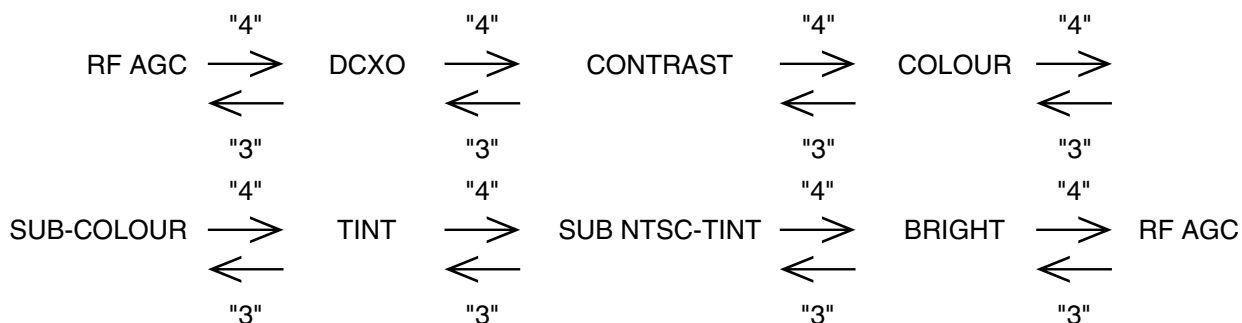
APPEAR ON CTV SCREEN

PANASONIC GL1 MDR 154		CHK1
OPT1	10	
OPT2	00	
OPT3	10	
OPT4	77	
OPT5	00	
OPT6	00	
OPT7	00	
OPT8	21	
OPT9	0F	

<CHK 2>

- 5) Press digit key "2" to move forward to CHK 2.
- 6) Press digit key "4" to move forward from Colour → Sub-Colour, etc.
Press digit key "3" to move backward from Sub-Colour → Colour, etc.

The function rotation will be as follows :-

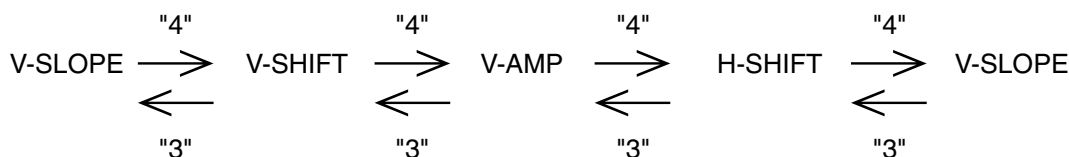


- 7) Press Volume up / Volume down to adjust setting.

<CHK 3>

- 8) Press digit key "2" to move forward to CHK 3.
- 9) Press digit key "4" to move forward from V-SLOPE → V-SHIFT.
Press digit key "3" to move backward from V-SHIFT → V-SLOPE.

The function rotation will be as follows :-

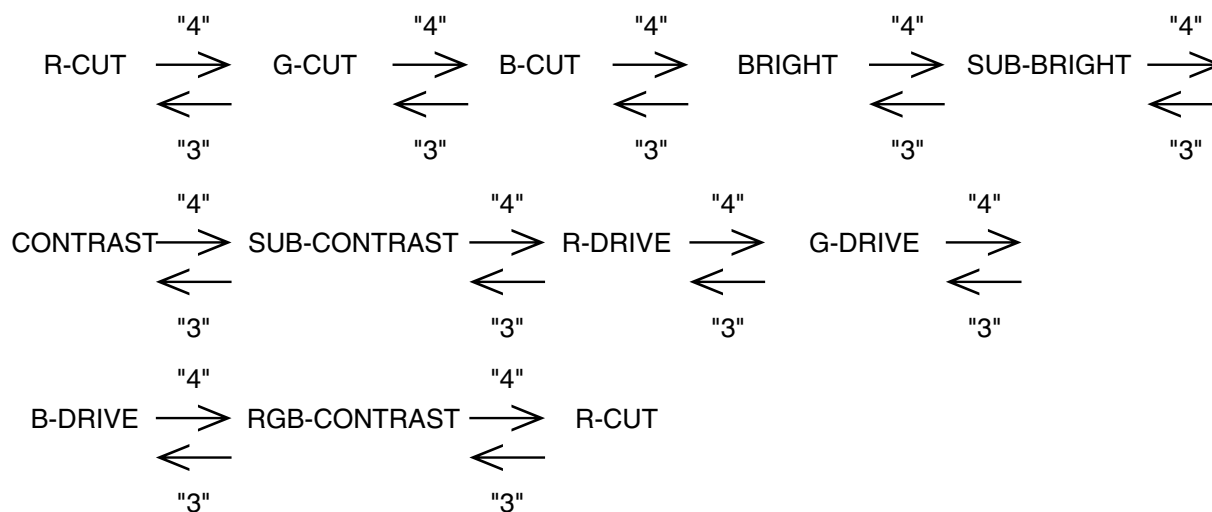


- 10) Press Volume up / Volume down to adjust required setting.

<CHK 4>

- 11) Press digit key "2" to move forward to CHK 4.
- 12) Press digit key "4" to move forward from R-CUT → G-CUT.
Press digit key "3" to move backward from G-CUT → R-CUT.

The function rotation will be as follows :-



Note : B-Cut & B-DRIVE is fixed. Please don't change.

- 13) Press Volume up / Volume down to adjust setting.
- 14) Press digit key "5" to make the AKB OFF and H-LINE mode - first time.
Press digit key "5" to make the AKB ON and Normal Picture - second time.
- 15) After finish adjustment, press Power ON / OFF button on the 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.

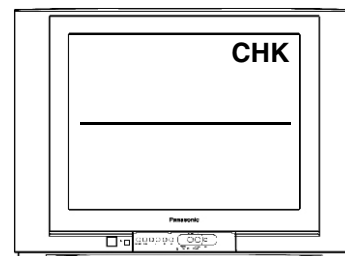
Self Check

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

{ If you find a white Raster with horizontal line in the centre of the screen & CHK appear on right top corner of the screen, follow above mentioned procedure to exit from this mode. }



Adjustment Procedure

Item/Preparation	Adjustment Procedure
<u>+B Voltage</u> 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 9 : $5 \pm 1V$ TPA 10 : $141 \pm 1.5V$ TPA 12 : $3.3 \pm 0.5V$
<u>EHT & Heater Voltage</u> 1. Receive the crosshatch pattern. 2. Set to 0 Beam Brightness minimum Contrast minimum	1. Connect a DC voltage meter to TPA10 and confirm the +B voltage is $141 \pm 1.5V$. 2. Connect a TRUE RMS voltmeter to heater and confirm the voltage $6.3 \pm 0.24 (V_{rms})$. 3. Confirm that high voltage is $27.5 \pm 1.5 KV (21")$ & $24.5 \pm 0.7 KV (14")$. 4. Normalize the brightness and contrast.
<u>RF AGC</u> 1. Receive a colour bar signal at an RF level of 69dB with 75Ω loaded. 2. Connect digital multimeter to RF AGC at Tuner (TPA-5).	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 $2.20 \pm 0.15V DC$. 3. Increase RF signal strength by 2dB, confirm that AGC voltage drops more than 1V.

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.

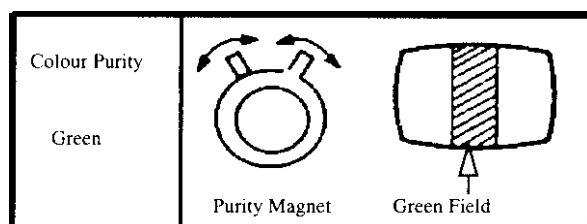


Fig.7

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

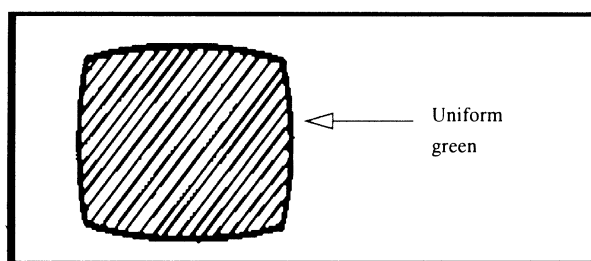


Fig.8

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.

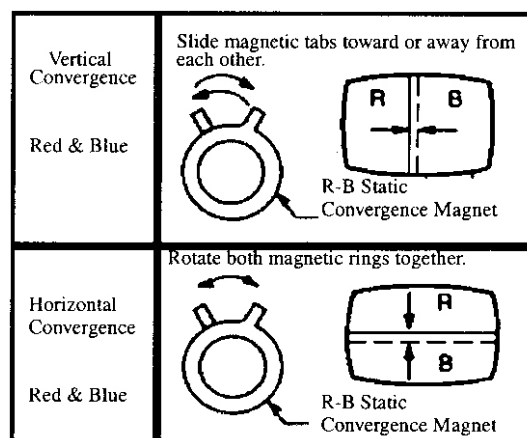


Fig.9

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.

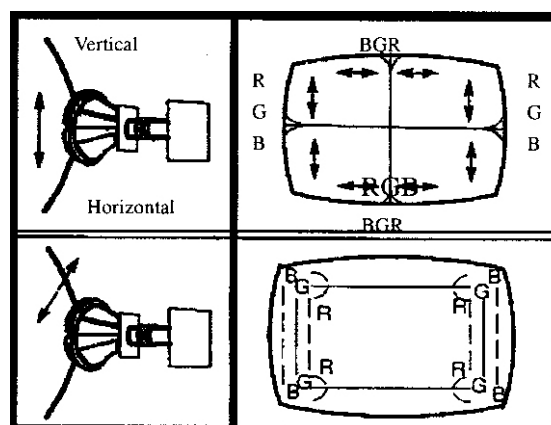


Fig.10

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.

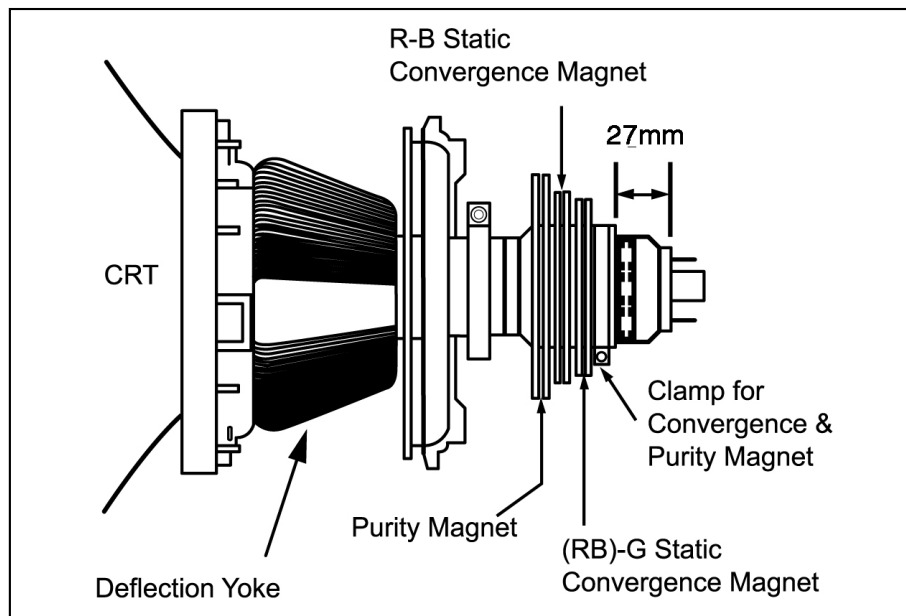


Fig. 11

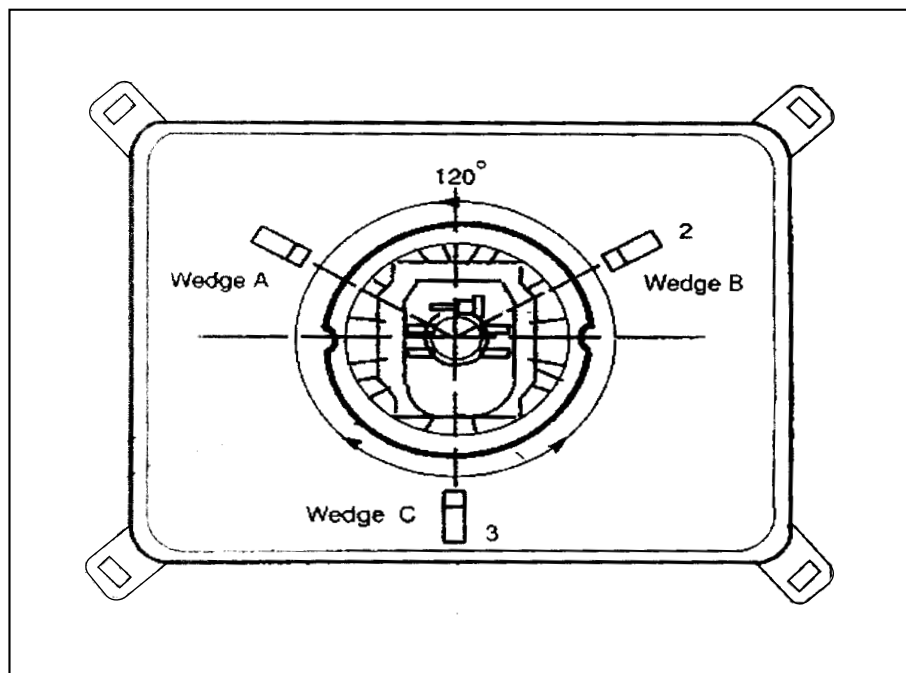
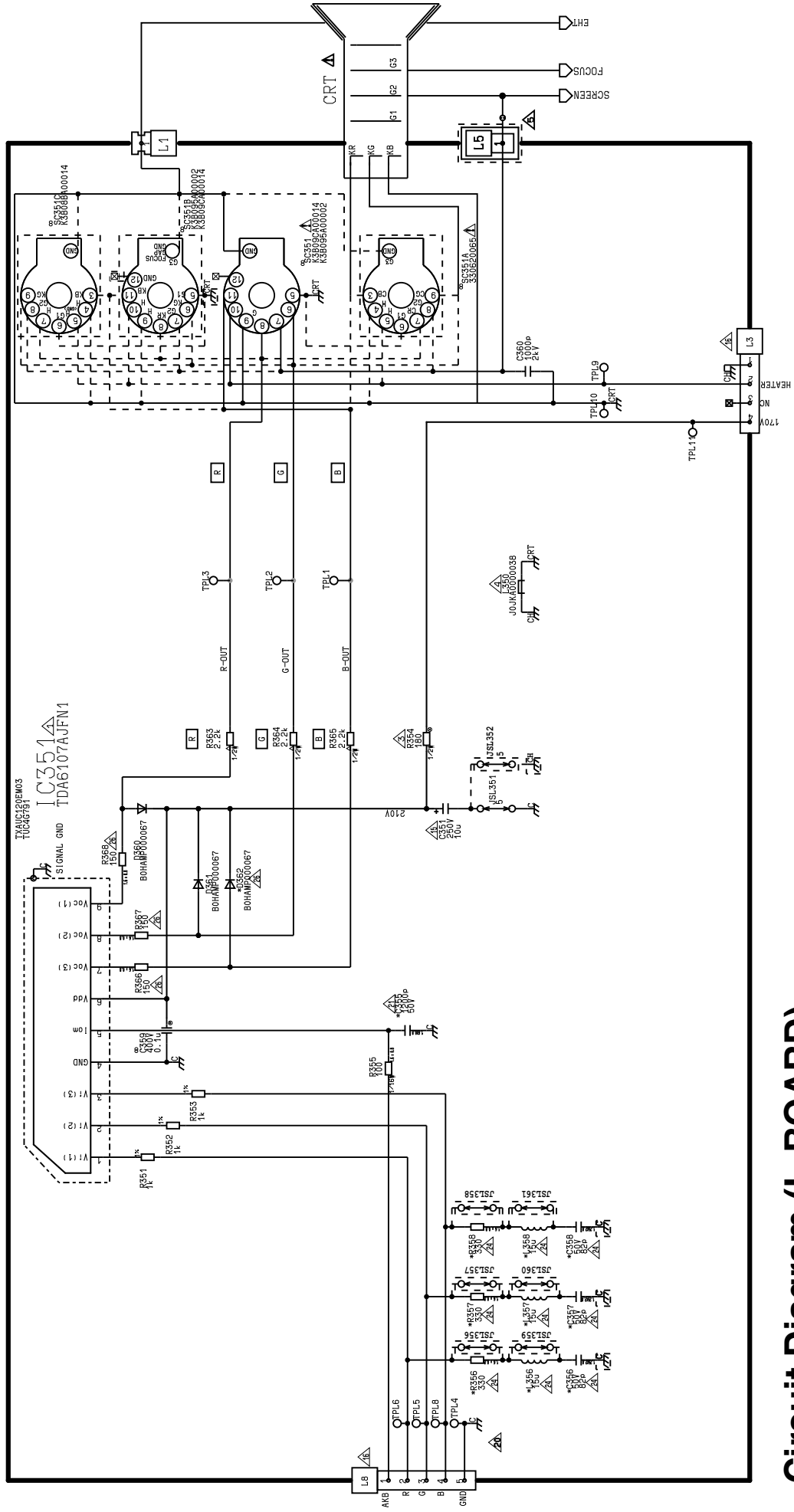


Fig. 12



Schematic Diagram

Important Safety Notice

Components identified by $\triangle$ 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
	Solid
	Wire Wound

	Metal Oxide
	Metal Film
	Fuse

Capacitor

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

Unit of capacitance is μ F, unless otherwise noted

	Temperature Compensation
	Polyester
	Metalized Polyester
	Polypropylene

	Electrolytic
	Bipolar
	Dipped Tantalum
	Z-Type

Coil

Unit of capacitance is μ H, 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

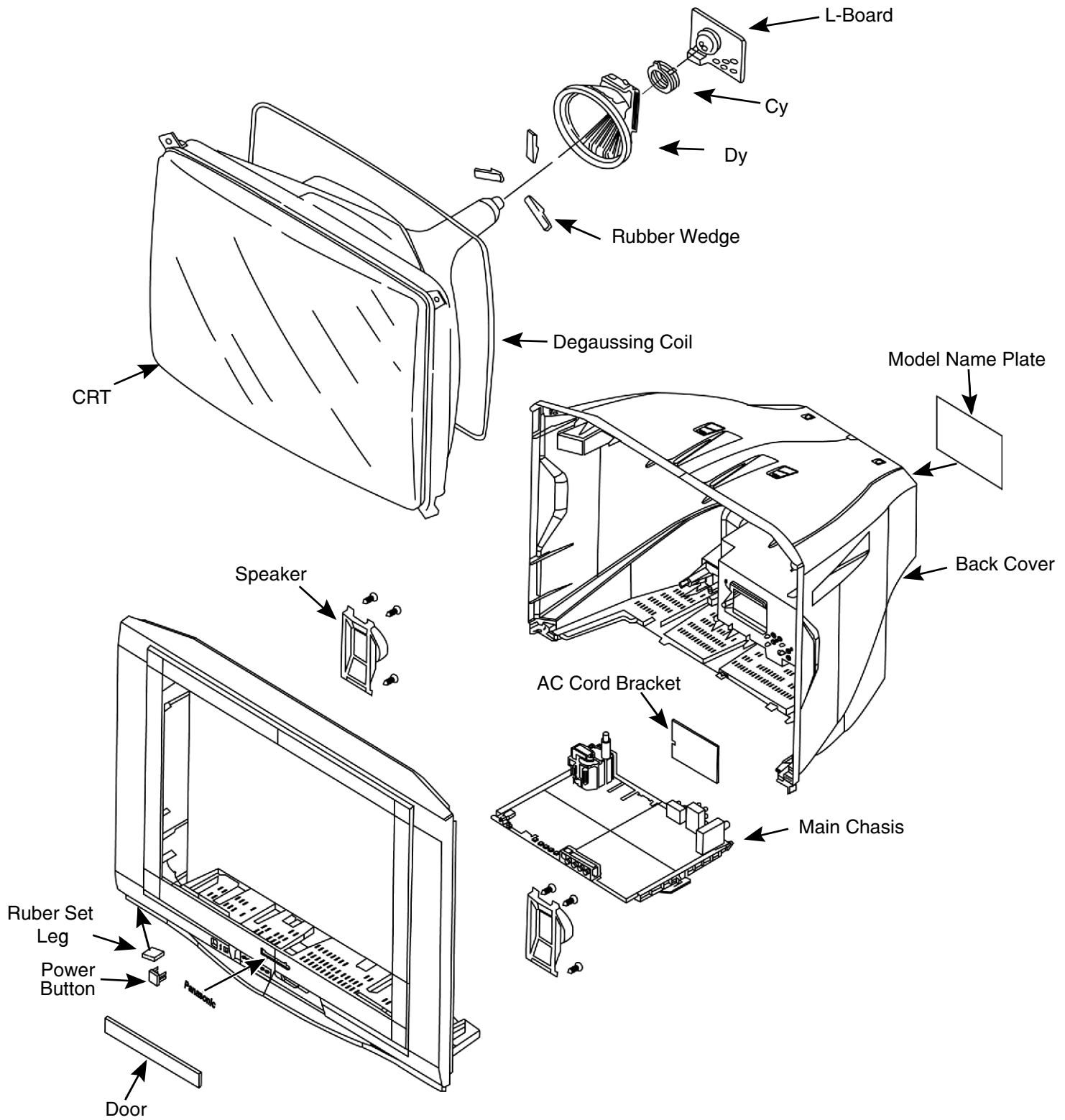
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.

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. | earth connection of the circuit being measured. |
| b. | Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break. | d. Make sure to disconnect the power plug before removing the chassis. |
| 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

Parts Locations



Replacement Parts List

Important Safety Notice

Components identified by $\triangle$ 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 : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide Metal Film	J : $\pm 5\%$ K : $\pm 10\%$
S : Solid	M : $\pm 20\%$
W : Wire Wound	

2. Capacitor

Example :

ECKF1H103ZF C 0.01mF, Z, 50V

Type Allowance

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

Replacement Parts List

PARTS SUPPLIED BY PAVCI

REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
	EAS2WG15S02H2-1	SPEAKER	X	X	2
	L0A2WAKAB1235F-1	SPEAKER	2	2	X
	TBX2W04101S	POWER BUTTON	1	X	X
	TBX2W04101B	POWER BUTTON	X	1	X
	TBX2W4G90111	POWER BUTTON	X	X	1
	TKP2W4101S	DOOR PANEL	1	X	X
	TKP2W4101B	DOOR PANEL	X	1	X
	TKP2W4G13031	DOOR PANEL	X	X	1
	TKP2W04200	SMOKED PANEL	1	1	X
	TKP4G13062	SMOKED PANEL	X	X	1
	TKU2W4110RU-1	BACK .COVER ASSY.	1	X	X
	TKU2W4110RB-1	BACK .COVER ASSY.	X	1	X
	TKU2W1355J-1	BACK .COVER ASSY.	X	X	1
	TKY2W4111S-2	CABINET ASSY.	1	X	X
	TKY2W4111B-2	CABINET ASSY.	X	1	X
	TKY2W2420J-3	CABINET ASSY.	X	X	1
	TLK2W4G9014-E	DEGAUSSING COIL	1	1	X
	TLK2W4G9101X	DEGAUSSING COIL	X	X	1
	TPC2W14Z88E	PACKING CASE	1	1	X
	TPC2W21FJ10RS	PACKING CASE	X	X	1
	TPD2W4100	TOP CUSHION	1	1	X
	TPD2W4200	BOTTOM CUSHION	1	1	X
	TPD2W4G1129	TOP CUSHION	X	X	1
	TPD2W4G2114	BOTTOM CUSHION	X	X	1
	TC1MES06	CHASSIS ASSY.	X	X	1
	TC1MES08	CHASSIS ASSY.	1	1	X

OTHER PARTS

REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
	A51LYZ395X21	YAMMED CRT	X	X	1
	A34LEX10X30	YAMMED CRT	1	1	X
	TBM4G3008	PANASONIC BADGE	1	1	X
	TBM4G3013A	PANASONIC BADGE	X	X	1
	EUR7717060	REMOTE CONTROL	1	1	1
	TSX4G102L2	AC CORD ASSY	1	1	X
	TSX4G166L-1	AC CORD ASSY	X	X	1
	R6UW/2ST	BATTERY (1 PACK)	1	1	1

CAPACITORS

REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
C001	F2A1H2R2A182	E , 2.2uF , 50V	1	1	1
C006	F2A0J221A317	E , 220uF , 6.3V	1	1	1
C007	ECJ2VB1C224K	C , .22uF , 16V	1	1	1
C008	F2A1H1R0A145	E , 1.0uF , 50V	1	1	1
C109	ECJ2VF1C104Z	C , 0.1uF , 16V	1	1	1
C1101	ECJ2VF1C104Z	C , 0.1uF , 16V	1	1	1
C1103	ECJ2VC1H331J	C , 330pF , 50V	1	1	1
C1104	ECEA1CKA101B	E , 100uf , 16V	1	1	1
C1142	ECJ2VF1C104Z	C , 0.1uF , 16V	1	1	1
C121	ECJ2VF1H103Z	C , 10nF , Z , 50V	1	1	1
C122	ECJ2VF1H103Z	C , 10nF , Z , 50V	1	1	1
C123	ECJ2VB1H103J	C , 10nF , Z , 50V	1	1	1
C191	ECJ2VF1C104Z	C , 0.1uF , 16V	1	1	1
C2302	F2A1C101A310	E , 100uF , 16V	1	1	1
C2304	F2A1C1000079	E , 10uF , 16V	1	1	1
C2305	F2A1E471A139	E , 470uF , 25V	1	1	1
C2307	F2A1C470A310	E , 47uF , 16V	1	1	1
C2310	ECEA1HKN0R1B	E , 0.1uF , 50V	1	1	1
C2311	ECEA1HKN0R1B	E , 0.1uF , 50V	1	1	1
C2312	F2A1H330A342	E , 33uF , 50V	1	1	1
C3021	F2A1C471A339	E , 470uF , 16V	1	1	1

REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
C3037	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	1
C3136	ECJ2VF1H103Z	C , 10nF , Z , 50V	1	1	1
C3137	ECJ2VF1H103Z	C , 10nF , Z , 50V	1	1	1
C3138	F2A1C1000079	E , 10uF , 16V	1	1	1
C3139	F2A1C1000079	E , 10uF , 16V	1	1	1
C3144	ECJ2VB1H392K	C , 3.9kpF , 50V	1	1	1
C351	F2A2E1000011	E , 10uF , 250V	1	1	1
C355	ECJ2VB1H122K	C , 1200pF , 50V	1	1	1
C356	ECJ2VC1H820J	C , 82pF , 50V	1	1	1
C357	ECJ2VC1H820J	C , 82pF , 50V	1	1	1
C358	ECJ2VC1H820J	C , 82pF , 50V	1	1	1
C359	ECQ2WM4104KZB	P , 0.1uF , 400V	1	1	1
C360	ECKW3D102KBP	C , 1000pF,K, 2KV	1	1	1
C402	F2A1V101A246	E , 100uF , 35V	1	1	1
C404	ECQB1333JF3	P , 33nF , J , 100V	1	1	1
C406	F2A1H221A247	E , 220uF , 50V	1	1	1
C407	F0A1H103A039	P , 10nF , 50V	1	1	1
C408	ECQB1274JF3	P , 0.27uF , 100V	1	1	1
C502	F1B2H821A025	C , 820pF , 500V	1	1	1
C503	F1B2H821A025	C , 820pF , 500V	1	1	1
C504	ECJ2VB1H681K	C , 680pF , 50V	1	1	1
C506	F1A2H1000002	C , 10pF , 500V	1	1	1
C511	F2A1V1010038	E , 100uF , 35V	1	1	1
C513	ECKW3D331JBP	C , 330pF , 2KV	1	1	1
C514	F2A1E102A199	E , 1000uF , 25V	1	1	1
C515	F1B2H331A025	C , 330pF , 500V	1	1	1
C516	F2A1E102A199	E , 1000uF , 25V	1	1	1
C519	F2A2C330A096	E , 33uF , 160V	1	1	1
C520	F2A0J221A317	E , 220uF , 6.3V	1	1	1
C550	ECQ2WM4223JZ7	P , 22nF , 400V	X	X	1
	ECQ2WM4683JZW	P , 68nF , 400V	1	1	X
C552	F2A2E1000023	E , 10uF , 250V	1	1	1
C555	F1B2H471A025	C , 470pF , 500V	1	1	1
C558	F2A2ER47A186	E , 0.47uF , 250V	1	1	1
C559	F0C3C752A002	P , 7500 PF,J, 2KV	1	1	1
C560	ECQ2WM4223JZ7	P , 22nF , 400V	1	1	X
	ECQ2WM4393JZW	P , 39nF , J , 400V	X	X	1
C561	ECKW3D221JBR	C , 220pF , 2KV	1	1	X
	ECKW3D271JBR	C , 270pF , 2KV	X	X	1
C562	ECKW3D102KBR	C , 1000pF,K, 2KV	1	1	1
C563	F0C2E184A088	P , 180KPF , 250V	X	X	1
	F0C2E274A039	P , 270 KPF, 250V	1	1	X
C565	ECQB1H273JF3	P , 27nF , J , 50V	1	1	1
C567	ECQ2WM4473JZW	P , 47nF , J , 400V	X	X	1
	F0C2E244A039	P , 240nF , 250V	1	1	X
C570	ECJ2VC1H330J	C , 33pF ,J, 50V	1	1	1
C602	F2A1C1000079	E , 10uF , 16V	1	1	1
C603	ECJ2VB1H472K	C , 4.7kpF , 50V	1	1	1
C604	ECJ2VB1C224K	C , .22uF , 16V	1	1	1
C605	ECJ2VB1C224K	C , .22uF , 16V	1	1	1
C606	ECJ2VF1H103Z	C , 10nF , Z , 50V	1	1	1
C607	F2A1H1R0A145	E , 1.0uF , 50V	1	1	1
C608	F2A1H100A145	E , 10uF , 50V	1	1	1
C609	F1J1H104A717	C , 100nF , 50V	1	1	1
C610	ECJ2VF1H103Z	C , 10nF , Z , 50V	1	1	1
C611	ECQV1H224JL3	P , 0.22uF , 50V	1	1	1
C612	ECJ2VB1H472K	C , 4.7kpF , 50V	1	1	1
C613	ECJ2VB1H472K	C , 4.7kpF , 50V	1	1	1
C614	ECQV1H154JL3	P , 150nF , J , 50V	1	1	1
C640	F2A1H4R7A317	E , 4.7uF , 50V	1	1	1
C641	ECJ2VC1H100C	C , 10pF , J , 50V	1	1	1
C642	ECJ2VF1C104Z	C , 0.1uF , 16V	1	1	1

REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
C653	F2A1C101A310	E , 100uF , 16V	1	1	1
C654	F2A1C101A310	E , 100uF , 16V	1	1	1
C655	F2A1C101A310	E , 100uF , 16V	1	1	1
C656	F2A1C101A310	E , 100uF , 16V	1	1	1
C657	F2A1C101A310	E , 100uF , 16V	1	1	1
C658	ECJ2VB1C224K	C , .22uF , 16V	1	1	1
C660	ECJ2VB1C224K	C , .22uF , 16V	1	1	1
C663	F2A1C101A310	E , 100uF , 16V	1	1	1
C666	F2A1H1R0A317	E , 1.0uF , 50V	1	1	1
C670	F2A1C1000079	E , 10uF , 16V	1	1	1
C680	ECJ2YB1H473K	C , 47kpF , 50V	1	1	1
C681	ECJ2VF1C104Z	C , 0.1uF , 16V	1	1	1
C682	ECJ2FB1E105K	C , 1uF , 25V	1	1	1
C686	ECJ2YB1H473K	C , 47kpF , 50V	1	1	1
C695	ECJ2VF1C105Z	C , 1uF , Z , 16V	1	1	1
C811	F1A2E102A001	C , 1000PF , 250V	1	1	1
C813	ECKCNA472ME7	C , 4700pF , M , 250V	1	1	1
C816	F0CAF224A066	P , 0.22uF , 275V AC	1	1	1
C817	F0CAF224A066	P , 0.22uF , 275V AC	1	1	1
C818	ECQB1H104JF3	P , 0.1uF , 50V	1	1	1
C821	ECKW3D561KBP	C , 560pF , K , 2KV	1	1	1
C826	ECQB1H103JF3	P , 1.0nF 50V	1	1	1
C827	ECQB1H333JF3	P , 33nF , J , 50V	1	1	1
C830	ECQB1H102JF3	P , 1.0nF , 50V	1	1	1
C840	F1A2E152A001	C , 1500pF ,250V	1	1	1
C841	ECKW3D151KBR	C , 150pF , K , 2KV	1	1	1
C842	F2A1H220A536	E , 22uF , 50V	1	1	1
C848	ECQB1H681JF3	P , 680pF , J , 50V	1	1	1
C850	ECJ2VF1H224Z	C ,220nF ,Z, 50V	1	1	1
C854	ECKWAE472ZED	C , 4700pF , Z , 250V AC	1	1	1
C855	ECKWAE472ZED	C , 4700pF , Z , 250V AC	1	1	1
C856	F2B2G2710010	E , 270uF , 400V	1	1	1
C858	ECQE2A473JFB	P , 47KpF , K , 100V	1	1	1
C859	ECKW3D681KBP	C , 680pF , K , 2KV	1	1	1
C860	F1B2H331A025	C , 330pF , 500V	1	1	1
C862	F2A1C122A256	E , 1200uF , 16V	1	1	1
C863	F2A2C2210013	E , 220uF , 160V	1	1	1
C864	F2A1E102A223	E , 1000 uF , 25V	1	1	1
C865	ECKW3D331JBP	C , 330pF , 2KV	1	1	1
C866	ECQ2WM4473JZW	P , 47nF , J , 400V	1	1	1
C868	F1B2H561A025	C , 330pF , 500V	1	1	1
C875	F2A1C1020060	E , 1000 uF , 16V	1	1	1
C876	F2A1C471A245	E , 470uF , 16V	1	1	1
C880	F2A1C331A245	E , 330uF , 16V	1	1	1

DIODES					
REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
CF835	TAP4GA0005	POSISTOR	1	1	1
D002	B0BA01700055	DIODE	1	1	1
D003	B0BA01500052	ZENER DIODE	1	1	1
D1151	B3AGA0000089	LED	X	X	1
	B3AGA0000092	LED	1	1	X
D120	B0AACK000004	DIODE	1	1	1
D2302	B0AACK000004	DIODE	1	1	1
D2303	B0AACK000004	DIODE	1	1	1
D2304	B0AACK000004	DIODE	1	1	1
D360	B0HAMP000067	DIODE	1	1	1
D361	B0HAMP000067	DIODE	1	1	1
D362	B0HAMP000067	DIODE	1	1	1
D402	B0HAMP000067	DIODE	1	1	1
D403	B0ACCK000014	DIODE	1	1	1
D404	B0AACK000004	DIODE	1	1	1
D511	MAZ4108J0F	DIODE	1	1	1
D512	MA2B17100E	DIODE	1	1	1

REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
D513	B0HAJP000027	DIODE	1	1	1
D515	B0HAJP000027	DIODE	1	1	1
D551	B0BC4R700015	DIODE	1	1	1
D552	B0HAJL000003	DIODE	1	1	1
D555	B0ACQJ000001	DIODE	1	1	1
D556	B0EAKV000008	DIODE	1	1	1
D557	B0HANP000004	DIODE	1	1	1
D558	MA2C18500E	DIODE	1	1	1
D660	B0AACK000004	DIODE	1	1	1
D661	B0AACK000004	DIODE	1	1	1
D662	B0AACK000004	DIODE	1	1	1
D663	B0AACK000004	DIODE	1	1	1
D664	B0AACK000004	DIODE	1	1	1
D675	MAZ40560HF	DIODE	1	1	1
D676	MAZ80820LL	DIODE	1	1	1
D677	MAZ80820LL	DIODE	1	1	1
D678	MAZ80820LL	DIODE	1	1	1
D830	B0HAJL000001	DIODE	1	1	1
D831	B0BA6R100043	DIODE	1	1	1
D832	B0AACK000004	DIODE	1	1	1
D833	B0AACK000004	DIODE	1	1	1
D836	D4EAC6210002	SURGE ABSORBER	1	1	1
D846	B0BA01800037	DIODE	1	1	1
D847	B0BA8R000010	ZENER DIODE	1	1	1
D851	B0EAKT000018	DIODE	1	1	1
D852	B0HAJL000003	DIODE	1	1	1
D853	B0HAMM000108	DIODE	1	1	1
D854	B0HAPV000009	DIODE	1	1	1
D855	B0HAQL000005	DIODE	1	1	1
D860	B0EBNT000022	BRIDGE RECTIFIER	1	1	1
D862	B0BA3R300027	DIODE	1	1	1
D863	B0HAJL000003	DIODE	1	1	1
D864	B0BA03300030	DIODE	1	1	1
D865	B0BA3R500008	ZENER DIODE	1	1	1
D872	MAZ20820A0LS	DIODE	1	1	1
D881	F2A1C471A339	E , 470uF , 16V	1	1	1
D883	B0BA3R500006	DIODE	1	1	1
F860	K5D502BK0003	FUSE	1	1	1

INTEGRATED CIRCUITS					
REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
IC1103	C3EBFC000021	MEMORY IC (14Z88RG/RBG)	1	1	X
	C3EBFC000021	MEMORY IC (2110CG)	X	X	1
IC2302	AN7522N	AUDIO IC	1	1	1
IC351	TDA6107AJFN1	RGB AMPLIFIER IC	1	1	1
IC451	AN15525A	VERTICAL IC	1	1	1
IC601	TDA11116NDR	UOC	1	1	1
IC801	C5HABZZ00169	STR	1	1	1
IC802	C0EAS0000026	140 V REGULATOR	1	1	1
IC851	C0DAEJG00001	8 V REGULATOR	1	1	1
IC880	C0DAEJG00001	8 V REGULATOR	1	1	1

RESISTORS					
REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
J124	ERDS2T0T	C , 0 Ω , 1/4W	1	1	1
JA1	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JA2	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JA4	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JA5	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JA6	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA002	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA110	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA111	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA112	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA113	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1

REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
JSA3000	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA3001	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA3132	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA3133	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA3136	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA3142	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA3147	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA521	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA602	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA603	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
JSA884	ERDS2T0T	C , 0 Ω , 1/4W	1	1	1
JSA886	ERD25V0R00T	C , 0 Ω , 1/4W	1	1	1
JSA895	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
R003	D0GD100JA017	M , 10 Ω , 1/10W	1	1	1
R004	ERG3FJ183H	M , 18 K Ω , 3W	1	1	1
R006	D0GD273JA017	M , 27 K Ω , 1/10W	1	1	1
R007	D0GD392JA017	M , 3.9 K Ω , 1/10W	1	1	1
R008	D0GD681JA017	M , 680 Ω , 1/10W	1	1	1
R1016	D0GD221JA017	M , 220 Ω , 1/10W	1	1	1
R1017	D0GD241JA017	M , 240 Ω , 1/10W	1	1	1
R1018	D0GD331JA017	M , 330 Ω , 1/10W	1	1	1
R1019	D0GD471JA017	M , 470 Ω , 1/10W	1	1	1
R1020	D0GD821JA017	M , 820 Ω , 1/10W	1	1	1
R1021	D0GD221JA017	M , 220 Ω , 1/10W	1	1	1
R1057	D0GD121JA017	M , 120 Ω , 1/10W	1	1	1
R1058	D0GD333JA017	M , 33 K Ω , 1/10W	1	1	1
R1059	D0GD621JA017	M , 620 Ω , 1/10W	1	1	1
R1060	D0GD683JA017	M , 68 K Ω , 1/10W	1	1	1
R1104	D0GD332JA017	M , 3.3 K Ω , 1/10W	1	1	1
R1105	D0GD332JA017	M , 3.3 K Ω , 1/10W	1	1	1
R1106	D0AE102JA046	C 1 K Ω , 1/4W	1	1	1
R1108	D0GD220JA017	M , 22 Ω , 1/10W	1	1	1
R1109	D0GD220JA017	M , 22 Ω , 1/10W	1	1	1
R1140	D0GD122JA017	M , 1.2 K Ω , 1/10W	1	1	1
R1142	D0GD100JA017	M , 10 Ω , 1/10W	1	1	1
R116	D0GD222JA017	M , 2.2 K Ω , 1/10W	1	1	1
R117	D0GD362JA017	M , 3.6 K Ω , 1/10W	1	1	1
R120	D0GD680JA017	M , 68 Ω , 1/10W	1	1	1
R121	D0GD122JA017	M , 1.2 KW , 1/10W	1	1	1
R122	D0GD470JA017	M , 47 W , 1/10W	1	1	1
R123	D0GD272JA017	M , 2.7 KW , 1/10W	1	1	1
R124	D0GD122JA017	M , 1.2 K Ω , 1/10W	1	1	1
R126	D0GD102JA017	M , 1 K Ω , 1/10W	1	1	1
R151	D0AE333JA046	C , 33 K Ω , 1/4W	1	1	1
R190	D0GD391JA017	M , 390 Ω , 1/10W	1	1	1
R2303	D0GD151JA017	M , 150 Ω , 1/10W	1	1	1
R2304	D0GD103JA017	M , 10 K Ω , 1/10W	1	1	1
R2305	D0GD100JA017	M , 10 Ω , 1/10W	1	1	1
R2306	D0GD102JA017	M , 1 K Ω , 1/10W	1	1	1
R2307	D0GD102JA017	M , 1 K Ω , 1/10W	1	1	1
R2308	D0GD153JA017	M , 15 K Ω , 1/10W	1	1	1
R2309	D0GD332JA017	M , 3.3 K Ω , 1/10W	1	1	1
R3016	D0GD184JA017	M , 180 K Ω , 1/10W	1	1	1
R3022	D0GD101JA017	M , 100 Ω , 1/10W	1	1	1
R3023	D0GD303JA017	M , 30 K Ω , 1/10W	1	1	1
R3025	D0GD184JA017	M , 180 K Ω , 1/10W	1	1	1
R3034	D0GD181JA017	M , 180 Ω , 1/10W	1	1	1
R3035	D0GD560JA017	M , 56 Ω , 1/10W	1	1	1
R3036	D0GD330JA017	M , 33 Ω , 1/10W	1	1	1
R3132	D0GD331JA017	M , 330 Ω , 1/10W	1	1	1
R3133	D0GD331JA017	M , 330 Ω , 1/10W	1	1	1
R3142	D0GD184JA017	M , 180 K Ω , 1/10W	1	1	1

REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
R3145	D0GD303JA017	M , 30 KΩ, 1/10W	1	1	1
R351	D1BD1001A027	M , 1 KΩ, 1/10W	1	1	1
R352	D1BD1001A027	M , 1 KΩ, 1/10W	1	1	1
R353	D1BD1001A027	M , 1 KΩ, 1/10W	1	1	1
R354	ERQ12AJ181E	F , 180 Ω, 1/2W	1	1	1
R355	D0GD101JA017	M, 100 Ω, 1/10W	1	1	1
R356	D0GD331JA017	M , 330 Ω, 1/10W	1	1	1
R357	D0GD331JA017	M , 330 Ω, 1/10W	1	1	1
R358	D0GD331JA017	M , 330 Ω, 1/10W	1	1	1
R363	ERC12GK222V	S , 2.2 KΩ, 1/2W	1	1	1
R364	ERC12GK222V	S , 2.2 KΩ, 1/2W	1	1	1
R365	ERC12GK222V	S , 2.2 KΩ, 1/2W	1	1	1
R366	D0GD151JA017	M , 150 Ω, 1/10W	1	1	1
R367	D0GD151JA017	M , 150 Ω, 1/10W	1	1	1
R368	D0GD151JA017	M , 150 Ω, 1/10W	1	1	1
R401	D0AE104JA046	C, 100 KΩ, 1/4W	1	1	1
R402	D0GD470JA017	M , 47 Ω, 1/10W	1	1	1
R403	D1AC2491A094	M , 24.9 KΩ, 1/4W	1	1	1
R404	D0AE751JA046	C , 750 Ω, 1/4W	1	1	1
R405	D1AC2701A094	M, 2.7 KΩ, 1/4W	1	1	1
R406	ERDS1FJ1R0T	C , 1.0 Ω, 1/2W	1	1	1
R407	ERG2SJ331E	M, 330 Ω, 2W	1	1	1
R408	TSR6GTF5101V	M , 510 Ω, 1/8W	1	1	1
R409	D0GD202JA017	M , 2.0 KΩ, 1/10W	1	1	1
R414	D0GD432JA017	M , 4.3 KΩ, 1/10W	1	1	1
R415	D1AC7500A094	M, 7.5 KΩ, 1/4W	1	1	1
R416	ERX1SJR56E	M, 0.56 Ω, 1W	X	X	1
	ERX1SJR68E	M , 0.68 Ω, 1W	1	1	X
R504	ERG2SJS332H	M , 3.3 KΩ, 2W	1	1	1
R507	D0AE101JA046	C, 100 Ω, 1/4W	1	1	1
R508	ERG3FJ152H	M, 1.5 KΩ, 3W	1	1	1
R509	ERG3FJ182H	M, 1.8 KΩ, 3W	1	1	1
R511	D1BD1002A028	M, 10 KΩ, 1/10W	X	X	1
	D1BD9091A027	M, 90.9 Ω, 1/10W	1	1	X
R512	D1BD1002A028	M, 10 KΩ, 1/10W	1	1	1
R513	ERQ14AJ100E	F, 10 Ω, 1/4W	1	1	1
R518	ERX3FJ3R3H	M , 3.3 Ω, 3W	1	1	1
R519	ERQ1ABJP2R2S	F, 2.2 Ω, 1W	1	1	1
R522	D0GD333JA017	M , 33 KΩ, 1/10W	1	1	1
R523	D0GD103JA017	M , 10 KΩ, 1/10W	1	1	1
R524	D0GD104JA017	M , 100 KΩ, 1/10W	1	1	1
R525	D0GD392JA017	M , 3.9 KΩ, 1/10W	1	1	1
R553	D0GD223JA017	M , 22 KΩ, 1/10W	1	1	1
R554	D0GD103JA017	M , 10 KΩ, 1/10W	1	1	1
R555	ERQ14AJ2R0E	F, 2.0 Ω, 1/4W	1	1	1
R557	ERO50PKF1913	M, 191 KΩ, 1/2W	1	1	X
	ERO50PKF9532	M , 95.3 KΩ, 1/2W	X	X	1
R558	D0AE513JA046	C, 51 KΩ, 1/4W	1	1	1
R559	D0C12R7JA042	F , 2.7 Ω, 1W	1	1	1
R560	ERG1SJ102E	M , 1.2 KΩ, 1W	X	X	1
R563	TRJ6GEY0R00V	M , 0 Ω, 1/10W	1	1	1
R564	D0AE393JA046	C , 39 KΩ, 1/4W	1	1	1
R580	D0GD392JA017	M , 3.9 KΩ, 1/10W	1	1	1
R581	D0GD472JA017	M, 4.7 KΩ, 1/10W	1	1	1
R585	D0GD433JA017	M , 43 KΩ, 1/10W	1	1	1
R586	D0GD103JA017	M , 10 KΩ, 1/10W	1	1	1
R587	D0AE823JA046	C , 82 KΩ, 1/4W	1	1	1
R588	D0GD333JA017	M , 33 KΩ, 1/10W	1	1	1
R592	D0GD102JA017	M, 1 KΩ, 1/10W	1	1	1
R593	D0GD223JA017	M , 22 KΩ, 1/10W	1	1	1
R601	D0GD153JA017	M, 15 KΩ, 1/10W	1	1	1
R603	D0GD393JA017	M , 39 KΩ, 1/10W	1	1	1

REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
R604	D0GD562JA017	M , 5.6 K Ω 1/10W	1	1	1
R605	D0GD103JA017	M , 10 K Ω 1/10W	1	1	1
R625	D0GD472JA017	M, 4.7 K Ω 1/10W	1	1	1
R628	D0GD101JA017	M, 100 Ω , 1/10W	1	1	1
R629	D0GD101JA017	M, 100 Ω , 1/10W	1	1	1
R633	D0GD470JA017	M , 47 Ω 1/10W	1	1	1
R634	D0AE750JA046	C , 75 Ω , 1/4W	1	1	1
R640	D0GD822JA017	M , 8.2 K Ω 1/10W	1	1	1
R651	D0AE201JA046	C , 200 Ω , 1/4W	1	1	1
R652	D0GD123JA017	M, 12 K Ω 1/10W	1	1	1
R660	D0GD101JA017	M, 100 Ω , 1/10W	1	1	1
R661	D0GD101JA017	M, 100 Ω , 1/10W	1	1	1
R662	D0GD101JA017	M, 100 Ω , 1/10W	1	1	1
R663	D0GD121JA017	M , 120 Ω 1/10W	1	1	1
R664	D0GD332JA017	M, 3.3 K Ω 1/10W	1	1	1
R665	TRJ6GEY0R00V	M , 0 Ω , 1/10W	1	1	1
R666	D0GD152JA017	M , 1.5 K Ω 1/10W	1	1	1
R667	D0GD102JA017	M, 1 K Ω 1/10W	1	1	1
R675	D0GD103JA017	M , 10 K Ω 1/10W	1	1	1
R685	D0GD750JA017	M , 75 Ω 1/10W	1	1	1
R686	D0AE470JA046	C, 47 Ω 1/4W	1	1	1
R689	D0GD182JA017	M , 1.8 K Ω 1/10W	1	1	1
R830	D0AE151JA046	C, 150 Ω 1/4W	1	1	1
R831	D0AE472JA046	C, 4.7 K Ω , 1/4W	1	1	1
R833	D0AE202JA046	C, 2.0 K Ω 1/4W	1	1	1
R834	ERG3FJ473H	M, 47 K Ω , 3W	1	1	1
R836	D0C1100JA051	M, 10 Ω 1W	1	1	1
R837	D0AE222JA046	C, 2.2 K Ω , 1/4W	1	1	1
R840	RCR100TAJ825	C, 8.2 M Ω , 3/4 W	1	1	1
R847	EROS2THF3902	M, 39 K Ω 1/4W	1	1	1
R850	ERG3SJS560H	M, 56 Ω , 3W	1	1	1
R852	D0AE122JA046	C, 1.2 K Ω , 1/4W	1	1	1
R853	D0D72R2KA002	W, 2.2 Ω 7W	1	1	1
R854	ERG2FJ470H	M , 47 Ω , 2W	1	1	1
R856	ERG2SJS104H	M , 100 K Ω 2W	1	1	1
R861	ERDS1TJ101T	C , 100 Ω , 1/2W	1	1	1
R862	TSR6GTF1203V	M, 120 K Ω 1/10W	1	1	1
R863	ERX2FJ4R7H	M, 4.7 Ω 2W	1	1	1
R864	D0GD122JA017	M , 1.2 K Ω 1/10W	1	1	1
R865	TSR6GTF4022V	M , 40.2 K Ω 1/8W	1	1	1
R866	ERX2SJ7R5E	M , 7.5 Ω , 2W	1	1	1
R867	D0AE332JA046	C, 3.3 K Ω /4W	1	1	1
R868	ERDS1TJ221T	C , 220 Ω , J , 1/2W	1	1	1
R882	D0GD124JA017	M, 120 K Ω , 1/10W	1	1	1
R883	TSR6GTF5102V	M , 51 K Ω , 1/8W	1	1	1
R884	TSR6GTF3092V	M , 30.9 K Ω 1/8W	1	1	1

COILS					
REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
L001	G0C100K00008	PEAKING COIL , 10uH	1	1	1
L1101	TALV35VB331K	COIL	1	1	1
L120	G0CR56KA0030	PEAKING COIL , 0.56uH	1	1	1
L125	G0C8R2KA0030	PEAKING COIL , 8.2uH	1	1	1
L2140	EXCELSA35T	BEAD CORE	1	1	1
L3137	EXCELSA39V	BEAD CORE	1	1	1
L350	EXCELSA35T	BEAD CORE	1	1	1
L356	G0C150JA0021	PEAKING COIL , 15uH	1	1	1
L357	G0C150JA0021	PEAKING COIL , 15uH	1	1	1
L358	G0C150JA0021	PEAKING COIL , 15uH	1	1	1
L501	G0D2W820000005	LINEARITY COIL	X	X	1
L550	EXCELD25V	BEAD CORE	1	1	1
L600	G0C100K00008	PEAKING COIL , 10uH	1	1	1
L602	G0C100K00008	PEAKING COIL , 10uH	1	1	1
L603	G0C100K00008	PEAKING COIL , 10uH	1	1	1

REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
L604	G0C100K00008	PEAKING COIL , 10uH	1	1	1
L605	G0C100K00008	PEAKING COIL , 10uH	1	1	1
L606	G0C100K00008	PEAKING COIL , 10uH	1	1	1
L607	G0C100K00008	PEAKING COIL , 10uH	1	1	1
L610	G0C100K00008	PEAKING COIL , 10uH	1	1	1
L811	EXCELSA39V	BEAD CORE	1	1	1
L842	J0JKA0000025	BEAD CORE	1	1	1
L863	J0JKB0000039	BEAD CORE	1	1	1
L871	G0A470GA0002	PEAKING COIL 47uH	1	1	1
L873	G0C5R6KA0030	PEAKING COIL 5.6uH	1	1	1
L886	EXCELSA39V	BEAD CORE	1	1	1

TRANSISTORS					
REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
Q102	B1ABCE000015	TRANSISTOR	1	1	1
Q105	B1ABCE000015	TRANSISTOR	1	1	1
Q1052	B1ABCE000015	TRANSISTOR	1	1	1
Q1053	B1ABCE000015	TRANSISTOR	1	1	1
Q2302	B1ABCE000015	TRANSISTOR	1	1	1
Q2303	B1ADDF000005	TRANSISTOR	1	1	1
Q3030	B1ADCE000012	TRANSISTOR	1	1	1
Q400	B1ABCE000015	TRANSISTOR	1	1	1
Q501	2SC4212H00LB	TRANSISTOR	1	1	1
Q520	B1ADBM000004	TRANSISTOR	1	1	1
Q551	2SC6073000LK	TRANSISTOR	1	1	1
Q580	B1ABCE000015	TRANSISTOR	1	1	1
Q581	B1ADDF000005	TRANSISTOR	1	1	1
Q660	B1ADDF000005	TRANSISTOR	1	1	1
Q850	B1BCCM000002	TRANSISTOR	1	1	1
Q857	B1BAAN000029	TRANSISTOR	1	1	1

MISC. ITEMS					
REF No.	PART No.	DESCRIPTION	TC-14Z88RG	TC-14Z88RBG	TC-21FJ10RSG
RM1104	B3RAD0000120	REMOCON SENSOR	1	1	1
SC351	K3B08BA00014	CRT SOCKET	1	1	X
	K3B09CA00014	CRT SOCKET	X	X	1
SW1001	EVQ11G05R	TACT SWITCH	1	1	1
SW1002	EVQ11G05R	TACT SWITCH	1	1	1
SW1003	EVQ11G05R	TACT SWITCH	1	1	1
SW1004	EVQ11G05R	TACT SWITCH	1	1	1
SW1005	EVQ11G05R	TACT SWITCH	1	1	1
SW1006	EVQ11G05R	TACT SWITCH	1	1	1
SW841	ESB92DA1B	POWER SWITCH	1	1	1
LF835	ELF21V012S	LINE FILTER	1	1	1
JK3003	K4BK06B00019	REAR AV TERMINAL	1	1	1
JK3202	K4BK07B00011	FRONT AV TERMINAL	1	1	1
PC860	B3PAA0000363	PHOTO COUPLER	1	1	1
T501	ZTFP12506A	FBT	1	1	X
	ZTFP12507A	FBT	X	X	1
T553	ETH19Y210BZ	HDT	1	1	1
T801	ETS29AV196AC	SMPS	1	1	1
TU001	ENV59K01G3JF	TUNER	1	1	1
X601	H0D245500023	CRYSTAL	1	1	1
XF101	K7256M	SAW FILTER	1	1	1