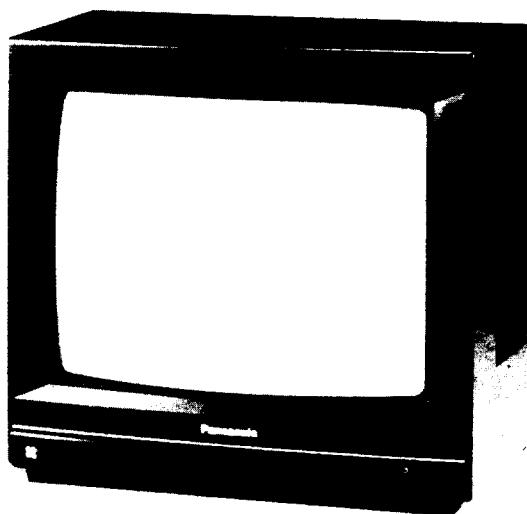


Service Manual



Colour Television

TC-1485**Z-3 Chassis****Specifications**

Power Source:	AC 240 V, 50 Hz	Picture Tube:	A34JRD30X01 14 inches (34 cm V) measured diagonally, 90° deflection
Power Consumption:	61 W (Max.)	Audio output:	3 Watt
Aerial Impedance:	75 Ω unbalanced, Coaxial Type	Speaker:	10 cm, 8 Ω, Round Type
Receiving System:	CCIR: 625 Lines, PAL - I	Accessories supplied:	Remote Controller UM4 Battery
Receiving Channels:	UHF channel 21 to 68	Dimensions:	Height: 344 mm Width: 365 mm Depth: 376 mm
Intermediate Frequency:	Video 39.5 MHz Sound 33.5 MHz Colour 35.07 MHz	Net Weight:	10.2 kg
Video/Audio Terminals:		Specifications are subject to change without notice. Net weight and dimensions shown are approximate.	
RCA IN	Video 1 Vp-p 75 Ω		
RCA IN	Audio 0.5 Vrms, 10 kΩ (80% modulation)		
High Voltage:	22.2 kV at zero beam current		

IMPORTANT

This receiver uses a HOT chassis, after service please ensure that the chassis is returned to its correct position.
Particular care being taken to the position of the customer controls.
Failure to do so could endanger customer safety.

PanasonicPANASONIC (U.K.) LTD.
300-318 BATH ROAD, SLOUGH, BERKS.

CONTENTS

	Page
SAFETY PRECAUTIONS	2
LOCATION OF CONTROLS	3
SERVICE HINTS	3
ADJUSTMENTS	4
CONDUCTOR VIEWS	5
SCHEMATIC DIAGRAM	7
PARTS LOCATION	11
REPLACEMENT PARTS LIST	12

SAFETY PRECAUTIONS**GENERAL GUIDE LINES**

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. 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.
3. 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.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
5. Potential, as high as 22.2 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.
6. 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 jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screwheads, aerials, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $4\text{M}\Omega$ and $20\text{ M}\Omega$. When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

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 $2\text{k}\Omega$, 10W resistor, in series with an exposed metallic part on the receiver and an earth such as water pipe.

3. Use an AC voltmeter, with high impedance to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 volts RMS. In case a measurement is outside of the 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.

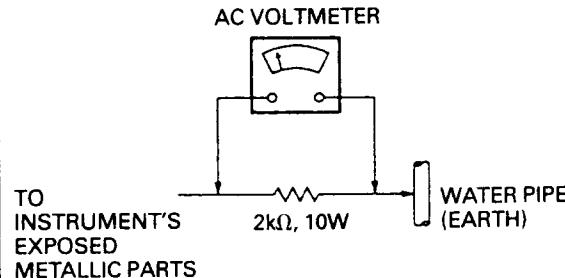
HOT-CHECK CIRCUIT

Fig. 1

X-RADIATION**WARNING:**

1. The potential sources of X-Radiation in TV sets are the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 25.0 kV without causing X-Radiation.

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

1. Set the brightness to minimum.
2. Set the service switch to the SERVICE position.
3. Measure the High Voltage. The meter reading should indicate $22.2\text{ kV} \pm 1.5\text{ kV}$. 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 an X-Radiation possibility, it is essential to use the specified picture tube.

SHUT DOWN CIRCUIT TEST

This test must be made as a final check before the set is returned to the customer.

1. Receive the Philips pattern.

2. Check that the shut down circuit functions when -60 V is applied to TPE40, but does not function when -40 V is applied.

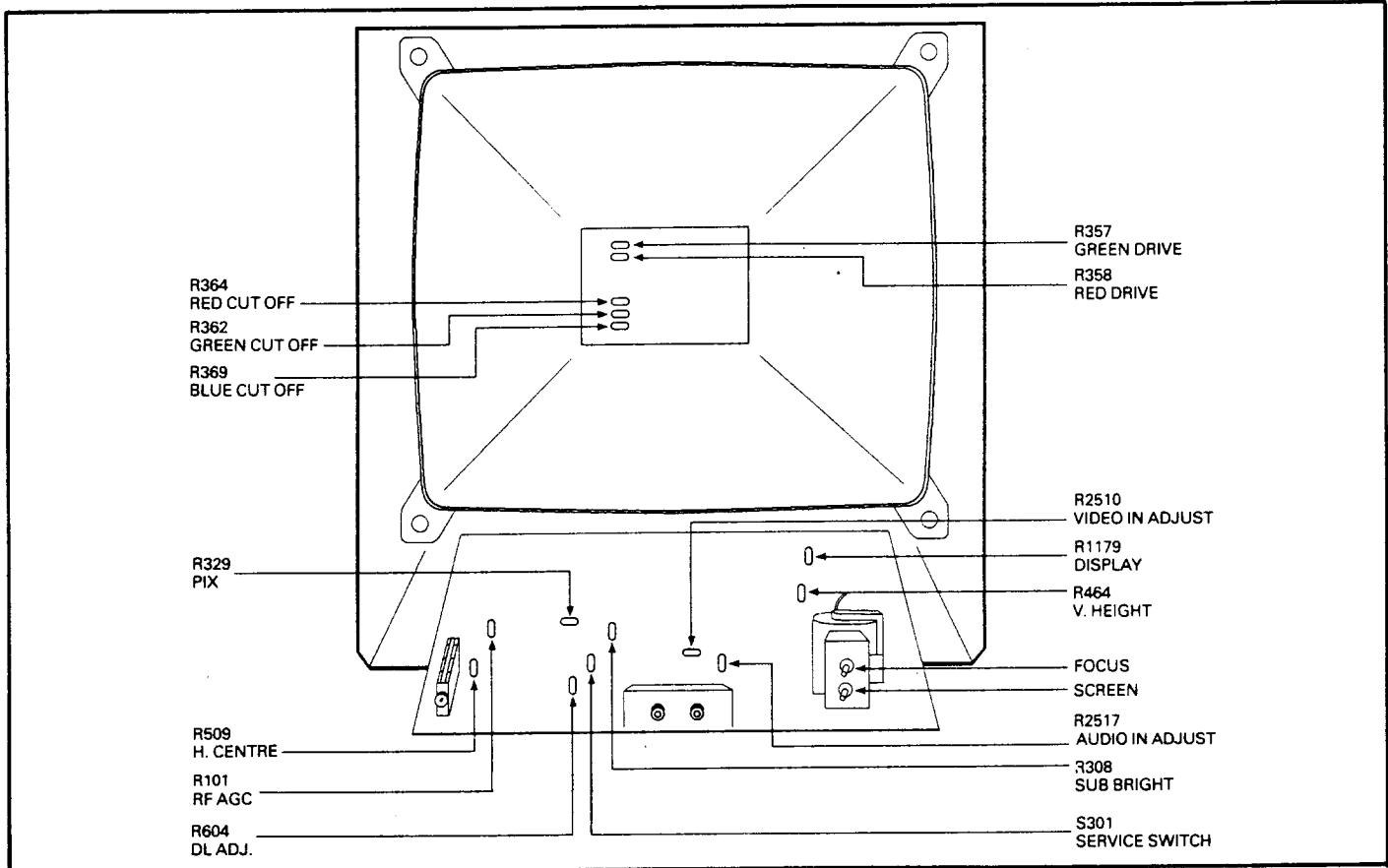
LOCATION OF CONTROLS

Fig. 2

SERVICE HINTS**Removal of E-Board****Note:**

If the following procedure is not carried out, damage may occur to E-Board when attempting removal.

1. Using a small screwdriver release the Pcb retaining clip (A) as shown in fig. 3 and 4.
2. To remove the Pcb from the cabinet, lift the Pcb and pull backwards see fig. 5.

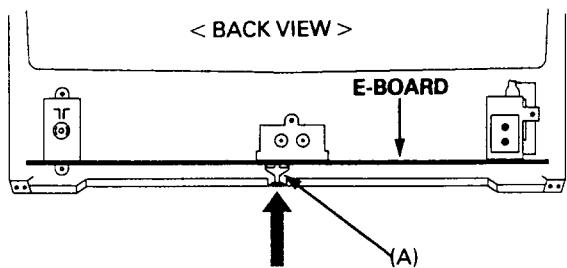


Fig. 3

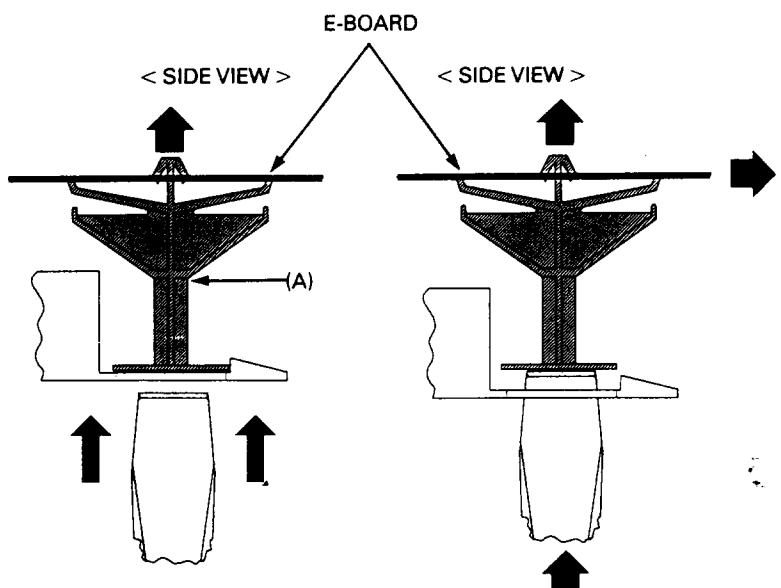


Fig. 4

Fig. 5

ADJUSTMENTS

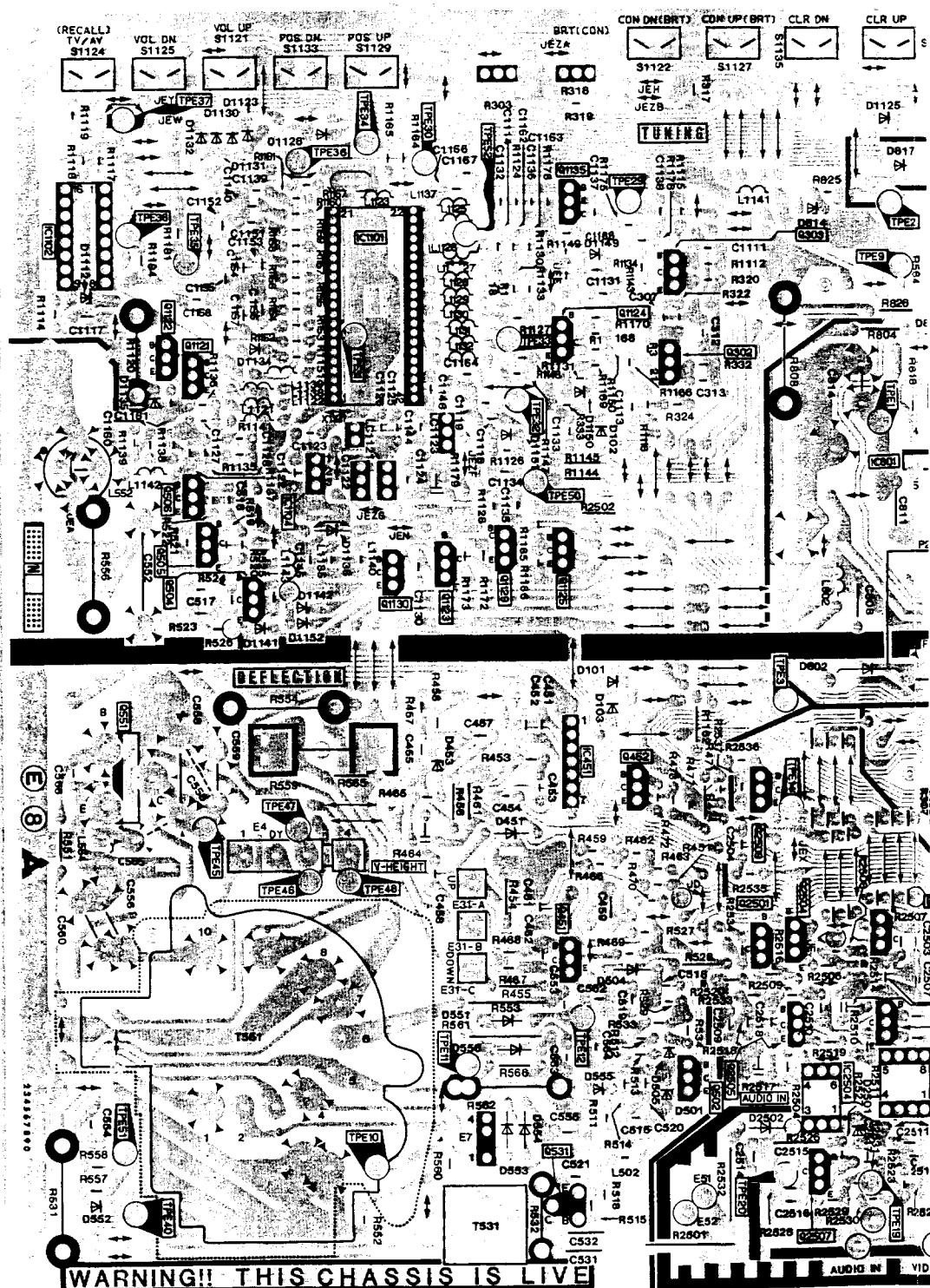
ITEM/PREPARATION	ADJUSTMENT PROCEDURE
B VOLTAGE 1. Operate the TV set. 2. Set controls: Bright (R318)minimum Sub Bright (R308)minimum	1. Confirm the indicated test points for the specified voltage. TPE1: 103 ± 1.5 V TPE10: 148 ± 10 V TPE2: 5 ± 0.5 V TPE11: -32 ± 2 V TPE4: 17 ± 1 V TPE12: 26 ± 2 V TPE5: 12 ± 1 V TPE49: 9 ± 1 V
AFC 1. Operate the TV set. 2. Set Preset switch (S1128) to "NOR". 3. Earth TPE3. 4. Connect a DVM to TPE27.	1. Apply 39.5 MHz continuous wave to TP of Tuner (0.5 Vp-p/75Ω). 2. Adjust L105 so that voltage at TPE27 becomes 4.5 ± 0.1 V. 3. Change the frequency and confirm the voltage as shown below. + 100 kHz: less than 2.0 V - 100 kHz more than 7.5 V 4. Remove earth link from TPE3.
RF AGC 1. Receive the Philips pattern. 2. Set the input level to 66 ± 2 dB (75Ω open). 3. Connect an oscilloscope to TPE28.	1. Turn RF AGC control (R101) fully counterclockwise. 2. Slowly turn RF AGC control clockwise to set it at the point just before voltage at TPE28 drops.
CONTRAST/COLOUR 1. Receive the Philips pattern. 2. Set controls: Contrastmaximum Brightminimum Colourminimum	1. Connect an oscilloscope to TPE26 and confirm the amplitude of waveform is $1.8 \text{ Vp-p} \pm 0.3$ V. 2. Set Colour control to maximum. 3. Connect oscilloscope to the following test points and confirm the voltage at end test point. TPE15: 3.0 ± 0.3 Vp-p TPE16: 1.5 ± 0.5 Vp-p TPE17: 2.5 ± 0.5 Vp-p
HIGH VOLTAGE 1. Receive a crosshatch pattern. 2. Set Contrast, Bright and Sub Bright controls to their minimum positions (Zero beam current)	1. Connect a high voltage meter (Electro-static type) to an anode of the picture tube. 2. Confirm that the high voltage is within a range of 22.2 ± 1.5 kV.

ITEM/PREPARATION	ADJUSTMENT PROCEDURE	WAVEFORM
DELAY LINE 1. Receive a colour bar pattern. 2. Connect an oscilloscope to TPE15. 3. Set controls: Contrastmaximum Colourmaximum	1. Adjust DL Adj. (R604) and DL Matching Trans (L602) to obtain waveform at TPE15 as shown in Fig 6.	<p>Minimize the differences (by L602)</p> <p>Adjust this level to zero (by R604)</p> <p>0</p>

Fig. 6

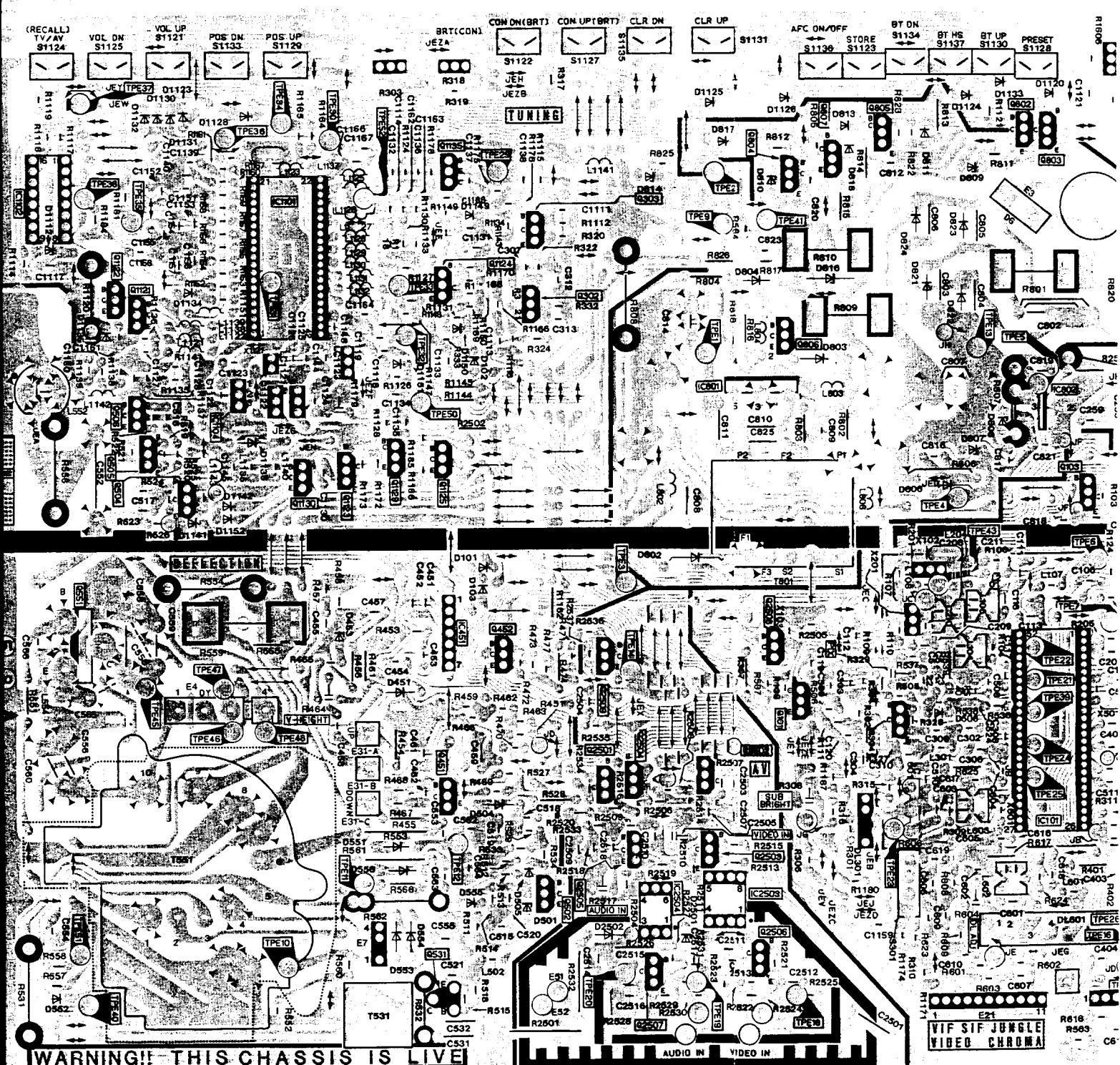
**CONDUCTOR
E-BOARD TNP'**

I.C.'s	IC1102	IC1104	IC451	IC801 IC2504
TRANSISTORS	Q1121 Q1122 Q506 Q505 Q504 Q551	Q1130 Q1123 Q1129	Q1135 Q1124 Q452 Q1125 Q451 Q531	Q302 Q2507 Q2501 Q2505 Q502 Q250 Q2503
DIODES	D1135 D552 D1112	D1134 D1131 D1142 D1123 D1152 D1130 D1128 D1141 D1132	D1136 D453 D551 D554 D1151	D504 D101 D1149 D102 D103 D555 D1150
TEST POINTS	TPE35 TPE37 TPE38 TPE40	TPE10 TPE34 TPE31 TPE36	TPE11 TPE52 TPE50 TPE12	TPE29 TPE3 TPE14 TPE2 TPE1 TPE19



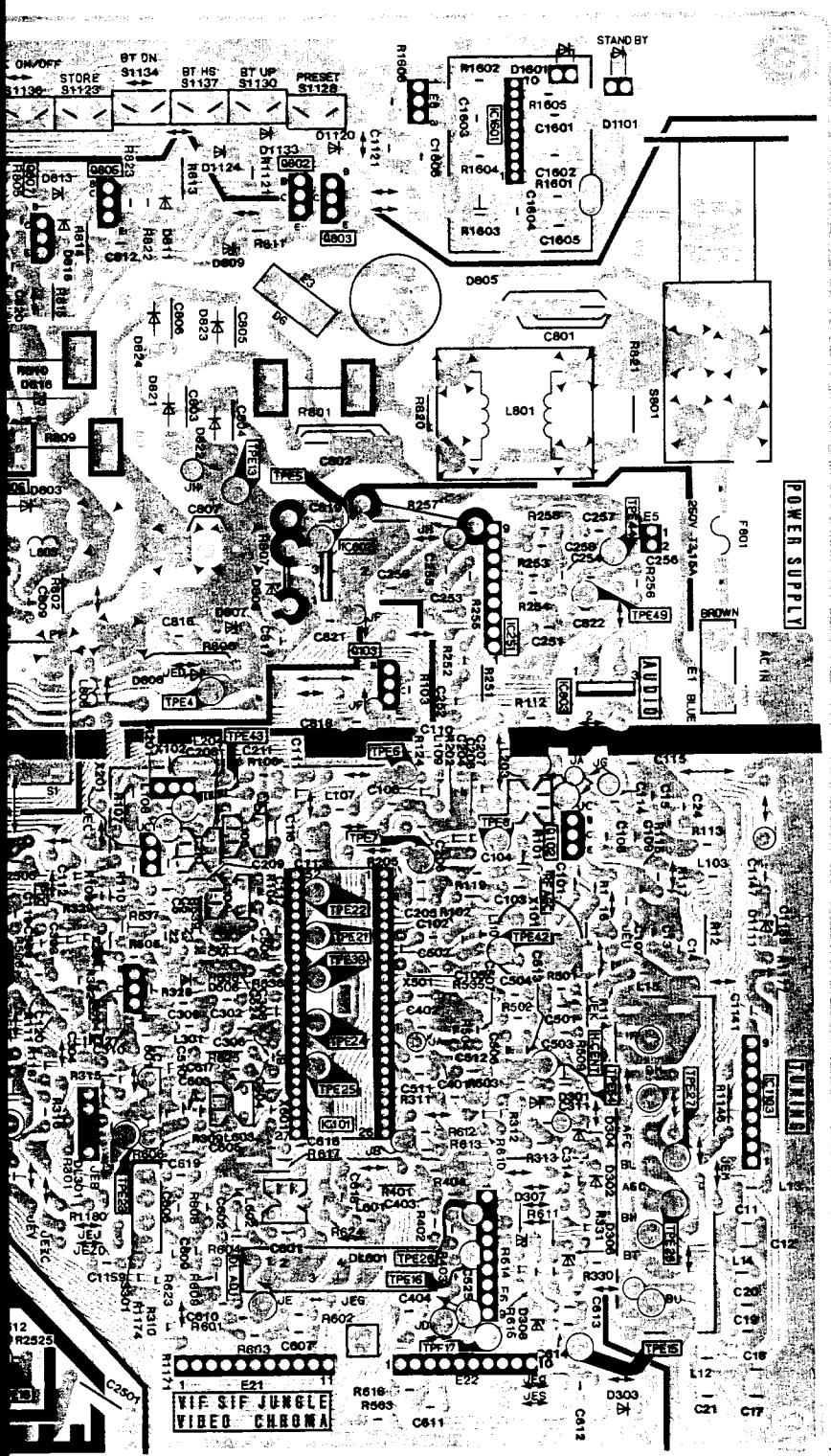
CONDUCTOR VIEW
E-BOARD TNP197026

IC1102	IC1101	IC451	IC2503	IC802
IC1104			IC801 IC2504	IC101
Q1121 Q1122 Q506 Q505 Q504 Q551	Q1130 Q1123 Q1129	Q1135 Q1124 Q452 Q1125 Q451 Q531	Q302 Q2507 Q2501 Q2505 Q502	Q804 Q2502 Q101 Q2508 Q2506 Q2503
D1135 D552 D1112	D1134 D1131 D1123 D1130 D1141	D1136 D1142 D1152 D1128 D1141	D553 D453 D551 D1151	D504 D101 D1149 D102 D103 D555 D1150
D1132			D501 D505 D2502	D814 D802 D817 D1125 D2501
TPE35 TPE37 TPE38 TPE40	TPE10 TPE34 TPE31 TPE36	TPE11 TPE52 TPE50 TPE12	TPE29	TPE3 TPE14 TPE2 TPE19 TPE41 TPE23 TPE4 TPE13 TPE43 TPE22 TPE39 TPE24 TPE26 TPE25 TPE6



WARNING!! THIS CHASSIS IS LIVE

IC802 IC101			IC1601 IC251		IC803		IC1103
Q806	Q805 Q807 Q304		Q803 Q103 Q802		Q102		
D813 D818 D803	D811 D823 D821 D822 D806 D824	D809 D1133 D1124	D1120	D307 D308 D805	D1101 D304 D302 D306 D303 D1601	D1111	
TPE23	TPE4 TPE43	TPE13 TPE39 TPE24 TPE25	TPE22 TPE17 TPE26 TPE6	TPE8	TPE44 TPE49 TPE15 TPE54	TPE27 TPE28	



NOTES:

1. RESISTC
All Resist marked:
Unit of r
1,000,000
O : Non
△ : Soli
☒ : Wire
 2. CAPACIT
All capac marked:
Unit of
noted.
ⓧ : Terr
Cc
Ⓜ : Poly
Ⓜ : Met
☒ : Poly
 3. COIL
Unit of
noted.
 4. TEST PC
● : Test I
 5. EARTH S
☷ : Cha

SCHEMATIC DIAGRAM FOR MODEL TC-1485 (Z-3 Chassis)

Important Safety Notice

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

NOTES:

1. RESISTOR

All Resistors are carbon 1/4W resistor, unless marked as follows:
Unit of resistance is OHM (Ω) (K = 1,000, M = 1,000,000).

: Nonflammable : Metal Oxide
 : Solid : Metal Film
 : Wire Wound . : Fuse

2. CAPACITOR

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

Unit of capacitance is μF , unless otherwise noted.

(X) : Temperature Compensation
 (M) : Polyester
 (m) : Metallized Polyester
 (P) : Polypropylene

(+-) : Electrolytic
 (NP+) : Bipolar
 (T) : Dipped Tantalum
 (Z) : Z - Type

3. COIL

Unit of inductance is μH , unless otherwise noted.

4. TEST POINT

• : Test Point position.

5. EARTH SYMBOL

+: Chassis Earth (Hot) -: Line Earth (Cold)

6. VOLTAGE MEASUREMENT

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power Source 240 V AC, 50Hz

Receiving Signal Colour Bar signal (RF)

All the other customer's controlsmaximum

7. → : Indicates the major signal flow.

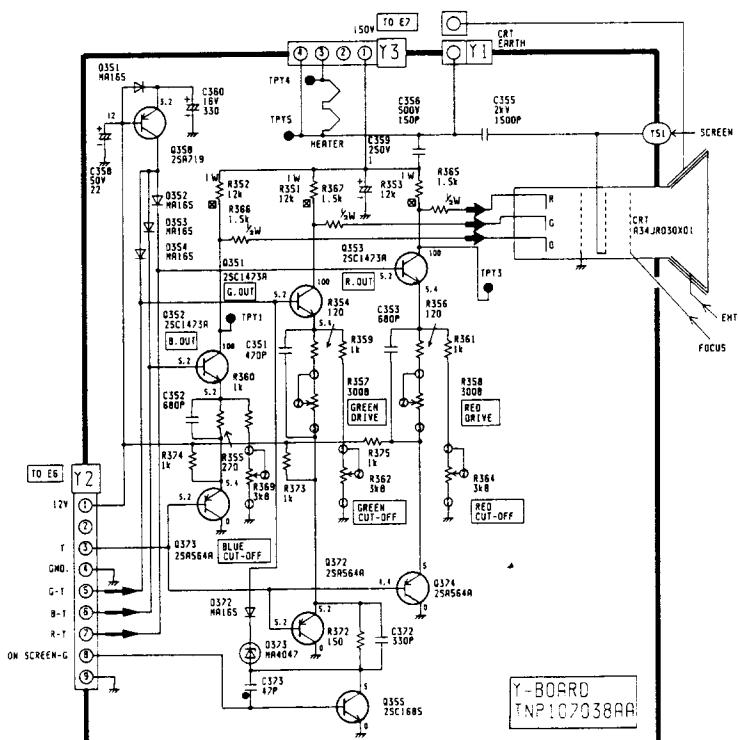
8. This schematic diagram is the latest at the time of printing and subject to change without notice.

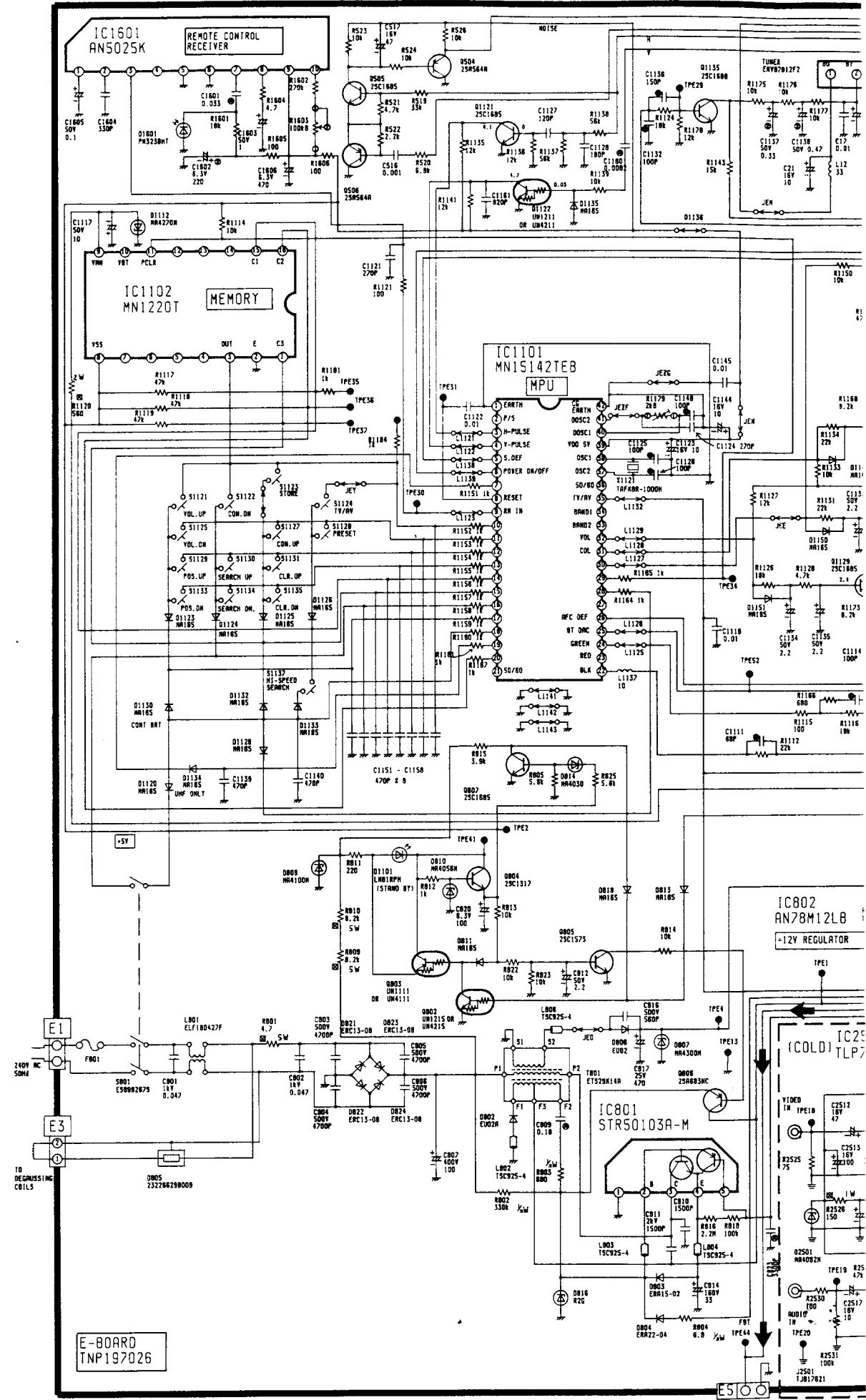
REMARKS:

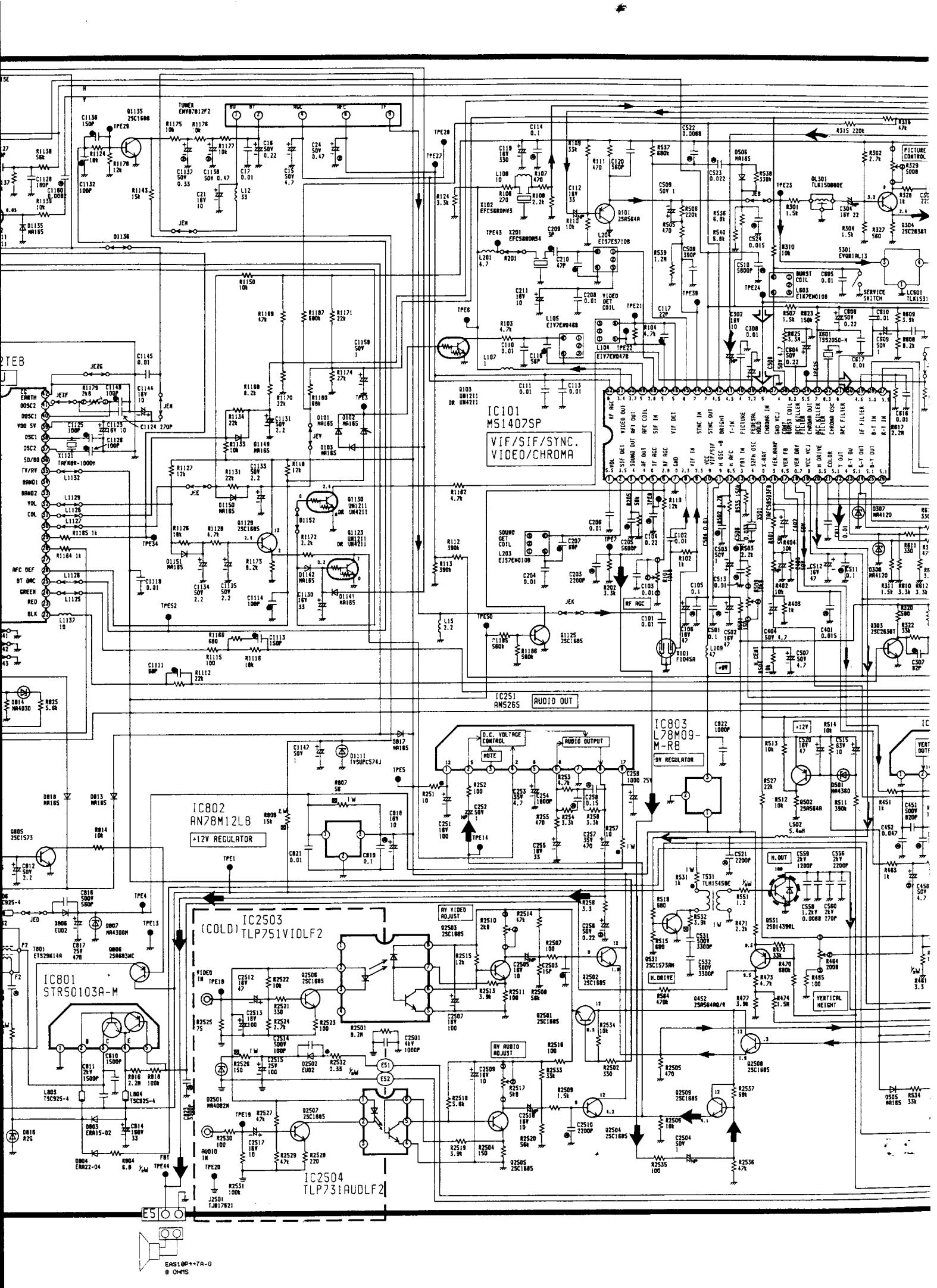
1. Care must be taken when servicing this receiver, as it uses a HOT chassis. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions. All circuits except the Audio, Video input circuits are HOT.

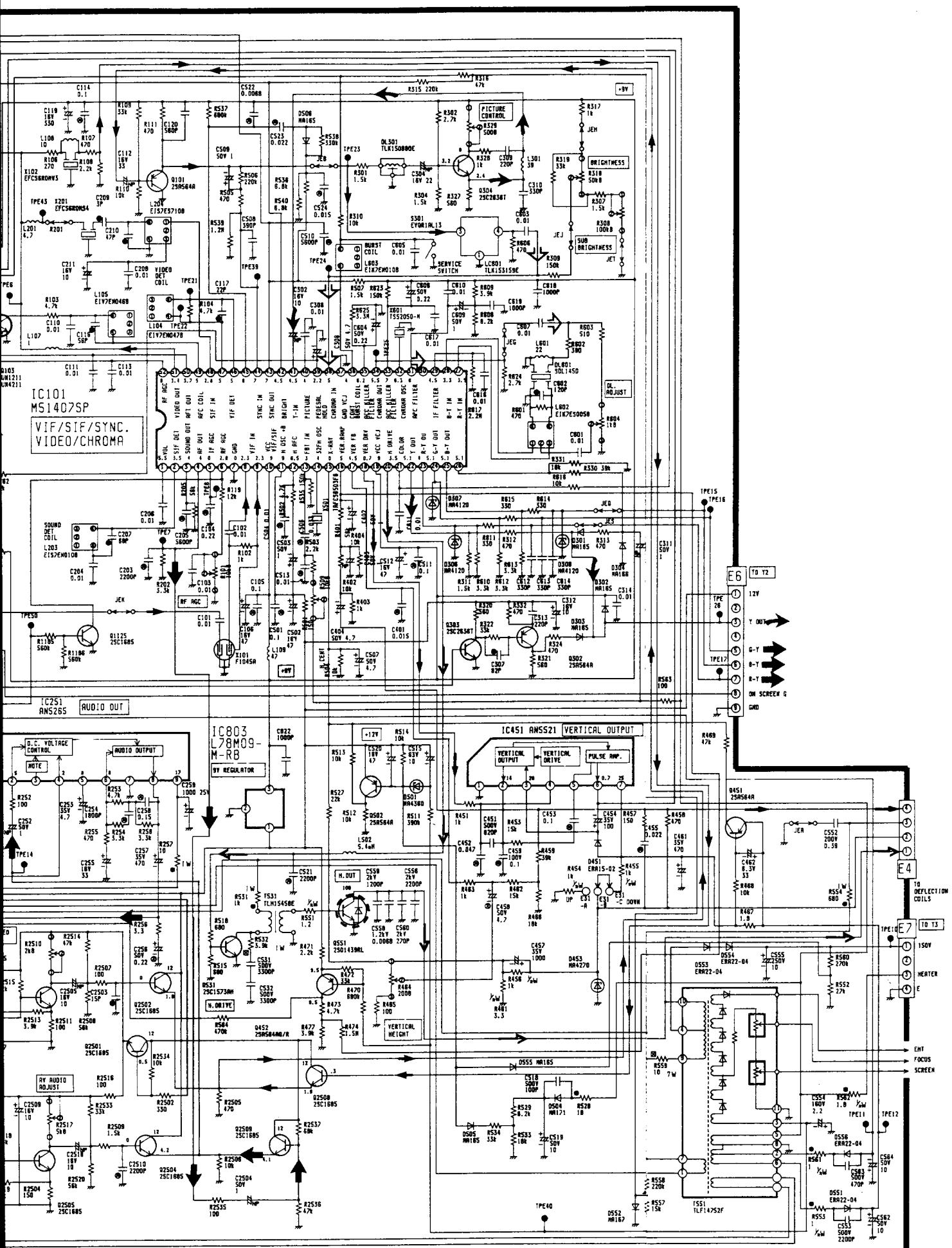
Precautions

- a. Do not touch the hot part or the hot and cold parts at the same time as you are liable to a shock hazard.
 - b. Do not short-circuit the hot and cold circuits as electrical components may be damaged.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously, as this may cause fuse failure. 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.

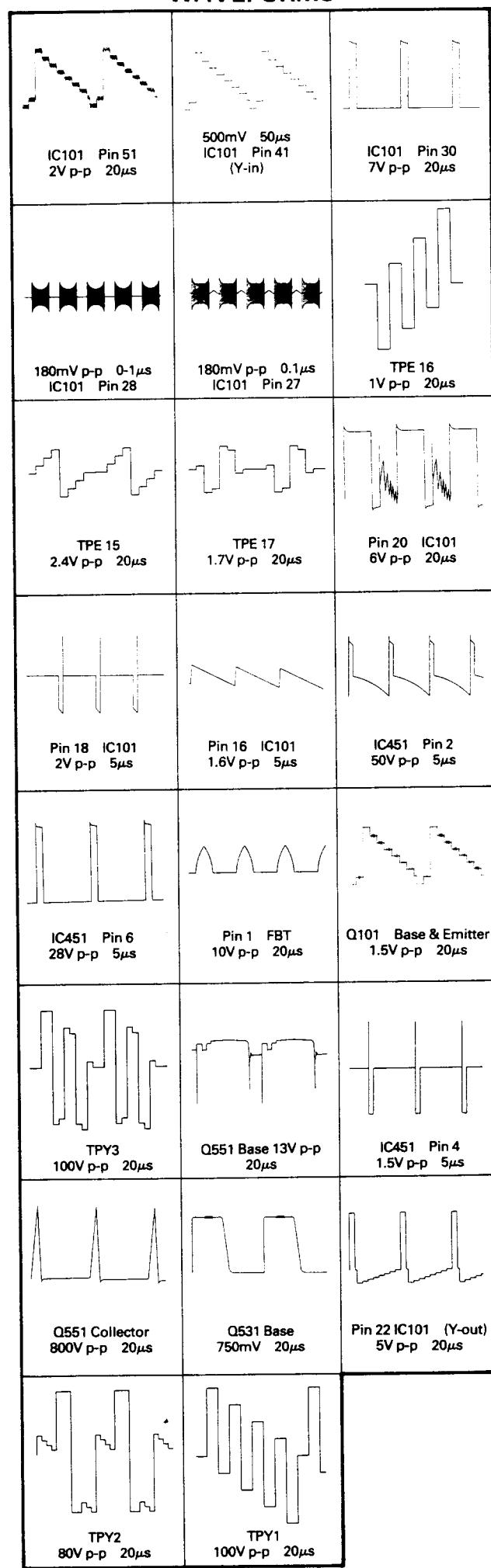
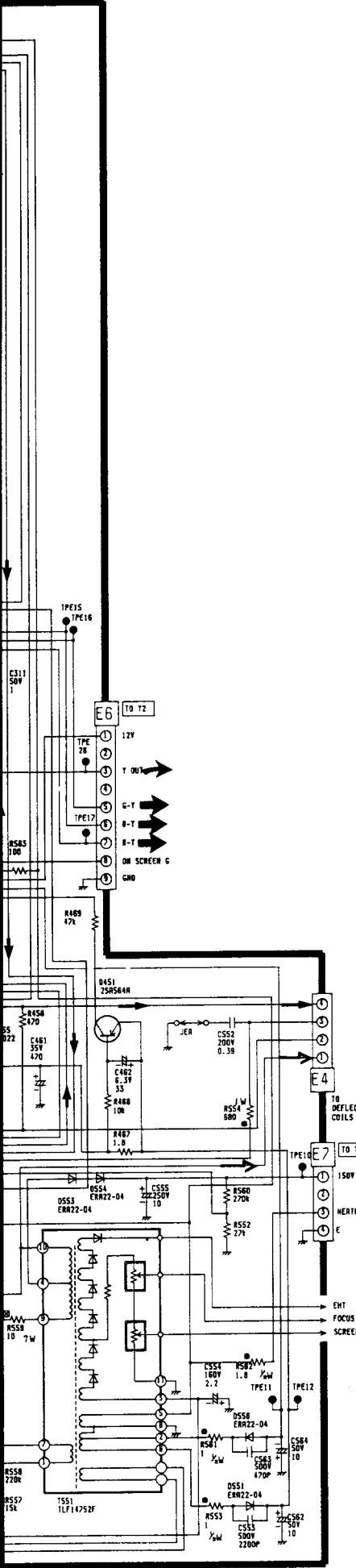




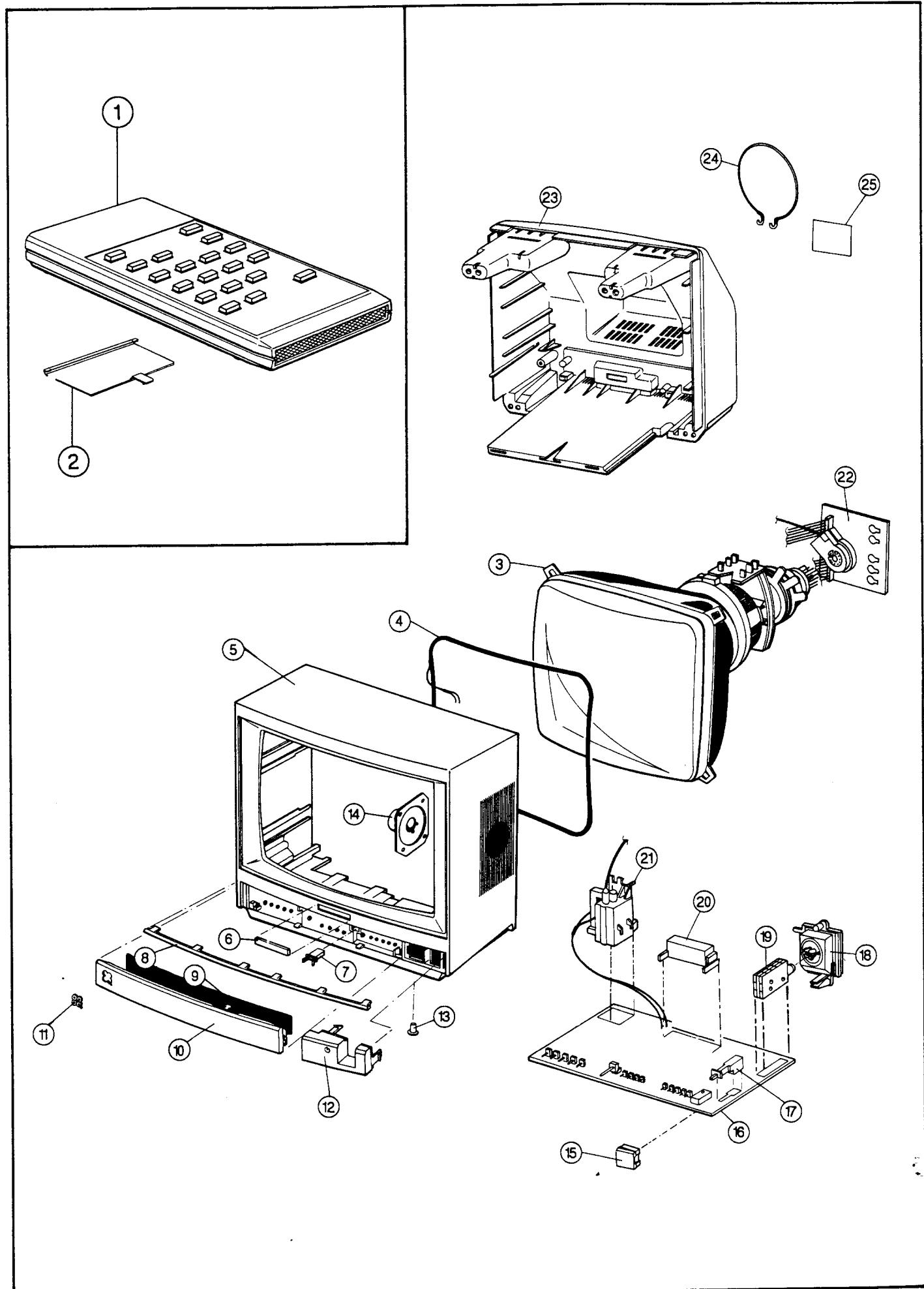




WAVEFORMS



PARTS LOCATION



REPLACEMENTS 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.

Ref No.	Part No.	Description
MISCELLANEOUS COMPONENTS		
1)	TNQ8E0417	remote control
2)	FA11D1201	battery cover
3)	▲ A34JRD30X01	C.R.T.
4)	▲ TLK8E05109	degaussing coil
5)	▲ TKY180700	cabinet (black)
5)	▲ TKY180701	cabinet (white)
6)	TBM173003	Panasonic badge (black)
6)	TBM173023	Panasonic badge (white)
7)	TEK17918	lid switch
8)	TKR27680	ornament strip
9)	TBM120623-1	preset panel label
10)	TKP1810384	lid (black)
10)	TKP1810385	lid (white)
11)	TBM17461	Q badge
12)	TKP1810391	smoked panel
13)	TBL171404	set feet
14)	EAS10P447A-G	speaker
15)	TBX1888300	power button
16)	▲ TNP197026	E.P.C.B.
17)	S801 ESB99267S	power switch
18)	▲ TJB1722405	Ant terminal
19)	▲ ENV87812F2	tuner
20)	TJB17621	AV terminal
21)	▲ TLF14752F	transformer
22)	▲ TNP107308AA	Y.P.C.B.
23)	▲ TKU526901	back cover
24)	TSA113001	antenna
25)	TBM120622	back cover label
	▲ TSX8E0001	A.C. cord
	TPC1814901BK	outer carton (black)
	TPC1814901WH	outer carton (white)
	TQB8E0387	instruction book
	520-001	fuse holder
F801	▲ 195-3.15	3.15A fuse
DL301	TLK150880E	coil
DL601	SDL145D	delay line
X101	F1045A	S.A.W. filter
X102	EFC56R0MW3	filter
X201	EFC56R0MS4	6Mhz S.I.F. filter
X601	TSS2050-M	crystal
S301	EVQR1 AL13	switch
S801	ESB99267S	switch
S1121	EVQQBH12T	switch
S1122	EVQQBH12T	switch
S1123	EVQQBH12G	switch
S1124	EVQQBH12T	switch
S1125	EVQQBH12T	switch
S1127	EVQQBH12T	switch
S1128	EVQQBH12G	switch
S1129	EVQQBH12T	switch
S1130	EVQQBH12G	switch
S1131	EVQQBH12T	switch
S1133	EVQQBH12T	switch
S1134	EVQQBH12G	switch
S1135	EVQQBH12T	switch
S1137	EVQQBH12G	switch

RESISTORS

R101	EVND4AA00B14	control	10k Ω B		
R102	ERDS2TJ102	carbon	1k Ω ± 5%	kW	
R103	ERDS2TJ472	carbon	4k7 Ω ± 5%	kW	
R104	ERDS2TJ472	carbon	4k7 Ω ± 5%	kW	
R106	ERDS2TJ271	carbon	270 Ω ± 5%	kW	
R107	ERDS2TJ471	carbon	470 Ω ± 5%	kW	
R108	ERDS2TJ222	carbon	2k2 Ω ± 5%	kW	
R109	ERDS2TJ332	carbon	33k Ω ± 5%	kW	
R110	ERDS2TJ103	carbon	10k Ω ± 5%	kW	
R111	ERDS2TJ471	carbon	470 Ω ± 5%	kW	
R112	ERDS2TJ394T	carbon	390k Ω ± 5%	kW	
R113	ERDS2TJ394T	carbon	390k Ω ± 5%	kW	
R118	ERDS2TJ123	carbon	12k Ω ± 5%	kW	
R119	ERDS2TJ123	carbon	12k Ω ± 5%	kW	

Ref No.	Part No.	Description
R124	ERDS2TJ332	carbon
R202	ERDS2TJ332	carbon
R205	ERDS2TJ563	carbon
R251	▲ ERQ14AJ100P	fusible
R252	ERDS2TJ101	carbon
R253	ERDS2TJ472	carbon
R254	ERDS2TJ332	carbon
R255	ERDS2TJ471	carbon
R256	ERDS2TJ3R3	carbon
R257	▲ ERQ1CJP100S	fusible
R258	ERDS2TJ332	carbon
R301	ERDS2TJ152	carbon
R302	ERDS2TJ272	carbon
R304	ERDS2TJ152	carbon
R307	ERD25TJ152	carbon
R308	EVND4AA00B15	control
R309	ERDS2TJ154	carbon
R310	ERDS2TJ103	carbon
R311	ERDS2TJ152	carbon
R312	ERDS2TJ471	carbon
R313	ERDS2TJ471	carbon
R315	ERDS2TJ224	carbon
R316	ERDS2TJ473	carbon
R317	ERDS2TJ102	carbon
R318	EVUE2AM30B54	control
R319	ERDS2TJ333	carbon
R320	ERDS2TJ561	carbon
R321	ERDS2TJ561	carbon
R322	ERDS2TJ333	carbon
R324	ERDS2TJ471	carbon
R327	ERDS2TJ561	carbon
R328	ERDS2TJ102	carbon
R329	EVND4AA00B52	control
R330	ERDS2TJ393	carbon
R331	ERDS2TJ183	carbon
R332	ERDS2TJ471	carbon
R351	ERGI SJ123P	metal oxide
R352	ERGI SJ123P	metal oxide
R353	ERGI SJ123P	metal oxide
R354	ERDS2TJ121	carbon
R355	ERDS2TJ271	carbon
R356	ERDS2TJ121	carbon
R357	EVN65AA00B32	control
R358	EVN65AA00B32	control
R359	ERDS2TJ102	carbon
R360	ERDS2TJ102	carbon
R361	ERDS2TJ102	carbon
R362	EVN65AA00B33	control
R364	EVN65AA00B33	control
R365	ERDS1TJ152	carbon
R366	ERDS1TJ152	carbon
R367	ERDS1TJ152	carbon
R369	EVN65AA00B33	control
R372	ERDS2TJ151	carbon
R373	ERDS2TJ102	carbon
R374	ERDS2TJ102	carbon
R375	ERDS2TJ102	carbon
R401	ERD25TJ563	carbon
R402	ERDS2TJ103	carbon
R403	ERDS2TJ102	carbon
R404	ERDS2TJ103	carbon
R451	ERDS2TJ102	carbon
R453	ERDS2TJ153	carbon
R454	ERDS1TJ102	carbon
R455	ERDS1TJ102	carbon
R456	ERDS1TJ102	carbon
R457	ERDS2TJ151	carbon
R458	ERDS2TJ471	carbon
R459	ERDS2TJ393	carbon
R461	ERDS1TJ3R3	carbon
R462	ERDS2TJ153	carbon
R463	ERDS2TJ102	carbon
R464	EVND4AA00B22	control
R465	ERDS2TJ101	carbon
R466	ERDS2TJ183	carbon

Ref No.	Part No.	Description	Value	Tolerance	Unit
R467	ERDS2TJ1R8	carbon	1.8Ω	± 5%	ΩW
R468	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R469	ERDS2TJ473	carbon	47kΩ	± 5%	ΩW
R470	ERDS2TJ684	carbon	680kΩ	± 5%	ΩW
R471	ERDS2TJ222	carbon	2k2Ω	± 5%	ΩW
R472	ERDS2TJ333	carbon	33kΩ	± 5%	ΩW
R473	ERDS2TJ472	carbon	4k7Ω	± 5%	ΩW
R474	ERD25TJ155T	carbon	1M5Ω	± 5%	ΩW
R476	ERD25TJ152	carbon	1k5Ω	± 5%	ΩW
R477	ERDS2TJ392	carbon	3k9Ω	± 5%	ΩW
R501	ERDS2TJ151	carbon	150Ω	± 5%	ΩW
R502	ERDS2TJ472	carbon	4k7Ω	± 5%	ΩW
R503	ERDS2TJ222	carbon	2k2Ω	± 5%	ΩW
R504	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R505	ERDS2TJ471	carbon	470Ω	± 5%	ΩW
R506	ERDS2TJ224	carbon	220kΩ	± 5%	ΩW
R507	ERDS2TJ152	carbon	1k5Ω	± 5%	ΩW
R509	EVND4AA00B14	control	10kΩB		
R511	ERDS2TJ394T	carbon	390kΩ	± 5%	ΩW
R512	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R513	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R514	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R515	ERDS2TJ681	carbon	680Ω	± 5%	ΩW
R518	ERDS2TJ681	carbon	680Ω	± 5%	ΩW
R519	ERDS2TJ333	carbon	33kΩ	± 5%	ΩW
R520	ERDS2TJ682	carbon	6k8Ω	± 5%	ΩW
R521	ERDS2TJ472	carbon	4k7Ω	± 5%	ΩW
R522	ERDS2TJ222	carbon	2k2Ω	± 5%	ΩW
R523	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R524	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R525	ERDS2TJ333	carbon	33kΩ	± 5%	ΩW
R526	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R527	ERDS2TJ223	carbon	22kΩ	± 5%	ΩW
R528	△ ERQ14AJ180P	fusible	18Ω	± 5%	ΩW
R529	ERDS2TJ822	carbon	8k2Ω	± 5%	ΩW
R531	△ ERQ1CJP102S	fusible	1kΩ	± 5%	ΩW
R532	ERG1SJ392H	metal oxide	3k9Ω	± 5%	ΩW
R533	ERDS2TJ183	carbon	18kΩ	± 5%	ΩW
R534	ERDS2TJ333	carbon	33kΩ	± 5%	ΩW
R535	ERDS2TJ154	carbon	150kΩ	± 5%	ΩW
R536	ERDS2TJ682	carbon	6k8Ω	± 5%	ΩW
R537	ERDS2TJ684	carbon	680Ω	± 5%	ΩW
R538	ERDS2TJ334	carbon	330kΩ	± 5%	ΩW
R539	ERD25TJ125	carbon	1.2MΩ	± 5%	ΩW
R540	ERDS2TJ682	carbon	6k8Ω	± 5%	ΩW
R551	ERDS1TJ1R2T	carbon	1R2Ω	± 5%	ΩW
R552	ERDS2TJ273	carbon	27kΩ	± 5%	ΩW
R553	△ ERQ12HJ1R0P	fusible	1Ω	± 5%	ΩW
R554	△ ERQ1CJP681S	fusible	680Ω	± 1%	ΩW
R557	ERDS2TJ153	carbon	15kΩ	± 5%	ΩW
R558	ERDS2TJ274	carbon	270kΩ	± 5%	ΩW
R559	△ ERF7ZJ100	wirewound	10Ω	± 5%	ΩW
R560	ERDS2TJ274	carbon	270kΩ	± 5%	ΩW
R561	△ ERQ12HJ1R0P	fusible	1Ω	± 5%	ΩW
R562	△ ERQ12HJ1R8P	fusible	1.8Ω	± 5%	ΩW
R563	ERDS2TJ101	carbon	100Ω	± 5%	ΩW
R564	ERDS2TJ474	carbon	470kΩ	± 5%	ΩW
R601	ERDS2TJ471	carbon	470Ω	± 5%	ΩW
R602	ERDS2TJ391	carbon	390Ω	± 5%	ΩW
R603	ERDS2TJ511T	carbon	510Ω	± 5%	ΩW
R604	EVND4AA00B13	control	1kΩB		
R606	ERDS2TJ471	carbon	470Ω	± 5%	ΩW
R608	ERDS2TJ822	carbon	8k2Ω	± 5%	ΩW
R609	ERDS2TJ392	carbon	3k9Ω	± 5%	ΩW
R610	ERDS2TJ332	carbon	3k3Ω	± 5%	ΩW
R611	ERDS2TJ331	carbon	330Ω	± 5%	ΩW
R612	ERDS2TJ332	carbon	3k3Ω	± 5%	ΩW
R613	ERDS2TJ332	carbon	3k3Ω	± 5%	ΩW
R614	ERDS2TJ331	carbon	330Ω	± 5%	ΩW
R615	ERDS2TJ331	carbon	330Ω	± 5%	ΩW
R616	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R617	ERD25TJ225	carbon	2.2MΩ	± 5%	ΩW
R623	ERDS2TJ154	carbon	150kΩ	± 5%	ΩW
R624	ERDS2TJ272	carbon	2k7Ω	± 5%	ΩW
R625	ERD25TJ335	carbon	3.3MΩ	± 5%	ΩW
R801	△ ERF5ZK4R7	wirewound	4.7Ω	± 10%	ΩW
R802	ERDS1TJ334	carbon	330kΩ	± 5%	ΩW
R803	ERDS1TJ681	carbon	680Ω	± 5%	ΩW
R804	ERDS1TJ6R8T	carbon	6R8Ω	± 5%	ΩW
R805	ERDS2TJ562	carbon	5k6Ω	± 5%	ΩW
R807	ERG1ANJ560H	metal oxide	56Ω	± 5%	ΩW
R808	ERG2ANJ153H	metal oxide	15kΩ	± 5%	ΩW
R809	ERG5ZJ822	metal oxide	8k2Ω	± 5%	ΩW
R810	ERG6ZJ822	metal oxide	8k2Ω	± 5%	ΩW
R811	ERDS2TJ221	carbon	220Ω	± 5%	ΩW
R812	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R813	ERD25TJ103	carbon	10kΩ	± 5%	ΩW
R814	ERD25TJ103	carbon	10kΩ	± 5%	ΩW
R815	ERDS2TJ392	carbon	3k9Ω	± 5%	ΩW
R816	ERDS2TJ225	carbon	2M2Ω	± 5%	ΩW

Ref No.	Part No.	Description	Value	Tolerance	Unit
R817	ERDS2TJ333	carbon	33kΩ	± 5%	ΩW
R818	ERDS2TJ104	carbon	100kΩ	± 5%	ΩW
R822	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R823	ERDS2TJ562	carbon	5k6Ω	± 5%	ΩW
R1111	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R1112	ERDS2TJ223	carbon	22kΩ	± 5%	ΩW
R1114	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R1115	ERDS2TJ101	carbon	100Ω	± 5%	ΩW
R1116	ERDS2TJ183	carbon	18kΩ	± 5%	ΩW
R1117	ERDS2TJ473	carbon	47kΩ	± 5%	ΩW
R1118	ERDS2TJ473	carbon	47kΩ	± 5%	ΩW
R1119	ERDS2TJ473	carbon	47kΩ	± 5%	ΩW
R1120	ERG2SJ561P	metal oxide	560Ω	± 5%	ΩW
R1121	ERDS2TJ101	carbon	100Ω	± 5%	ΩW
R1124	ERDS2TJ183	carbon	18kΩ	± 5%	ΩW
R1126	ERDS2TJ183	carbon	18kΩ	± 5%	ΩW
R1127	ERDS2TJ123	carbon	12kΩ	± 5%	ΩW
R1128	ERDS2TJ472	carbon	4k7Ω	± 5%	ΩW
R1130	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R1131	ERDS2TJ223	carbon	22kΩ	± 5%	ΩW
R1133	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R1134	ERDS2TJ223	carbon	22kΩ	± 5%	ΩW
R1135	ERDS2TJ123	carbon	12kΩ	± 5%	ΩW
R1136	ERDS2TJ123	carbon	12kΩ	± 5%	ΩW
R1137	ERDS2TJ563	carbon	56kΩ	± 5%	ΩW
R1138	ERDS2TJ563	carbon	56kΩ	± 5%	ΩW
R1139	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R1141	ERDS2TJ123	carbon	12kΩ	± 5%	ΩW
R1143	ERDS2TJ153	carbon	15kΩ	± 5%	ΩW
R1150	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R1151	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1152	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1153	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1154	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1155	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1156	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1157	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1158	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1159	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1160	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1161	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1162	ERD25TJ472	carbon	4k7Ω	± 5%	ΩW
R1164	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1165	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1166	ERDS2TJ681	carbon	680Ω	± 5%	ΩW
R1167	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1168	ERDS2TJ822	carbon	8k2Ω	± 5%	ΩW
R1169	ERDS2TJ473	carbon	47kΩ	± 5%	ΩW
R1170	ERDS2TJ223	carbon	22kΩ	± 5%	ΩW
R1171	ERDS2TJ223	carbon	22kΩ	± 5%	ΩW
R1172	ERDS2TJ222	carbon	2k2Ω	± 5%	ΩW
R1173	ERDS2TJ822	carbon	8k2Ω	± 5%	ΩW
R1174	ERDS2TJ273	carbon	27kΩ	± 5%	ΩW
R1175	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R1176	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R1177	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R1178	ERDS2TJ123	carbon	12kΩ	± 5%	ΩW
R1179	EVND4AA00B23	control	2kΩB		
R1180	ERDS2TJ473	carbon	47kΩ	± 5%	ΩW
R1181	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1183	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1184	ERDS2TJ102	carbon	1kΩ	± 5%	ΩW
R1185	ERDS2TJ564	carbon	560kΩ	± 5%	ΩW
R1186	ERDS2TJ564	carbon	560kΩ	± 5%	ΩW
R1187	ERDS2TJ684	carbon	680kΩ	± 5%	ΩW
R1601	ERDS2TJ183	carbon	18kΩ	± 5%	ΩW
R1602	ERDS2TJ274	carbon	270kΩ	± 5%	ΩW
R1603	EVND4AA00B15	control	50kΩ		
R1604	ERDS2TJ4R7	carbon	4.7Ω	± 5%	ΩW
R1605	ERDS2TJ101	carbon	100Ω	± 5%	ΩW
R1606	ERDS2TJ101	carbon	100Ω	± 5%	ΩW
R2501	ERD75TAJ825	carbon	8.2MΩ	± 5%	ΩW
R2502	ERD25TJ331	carbon	330Ω	± 5%	ΩW
R2504	ERDS2TJ151	carbon	150Ω	± 5%	ΩW
R2505	ERDS2TJ471	carbon	470Ω	± 5%	ΩW
R2506	ERDS2TJ103	carbon	10kΩ	± 5%	ΩW
R2507	ERDS2TJ101	carbon	100Ω	± 5%	ΩW
R2508	ERDS2TJ563	carbon	56kΩ	± 5%	ΩW
R2509	ERDS2TJ152	carbon	1k5Ω	± 5%	ΩW
R2510	EVND4AA00B23	control	2kΩB		
R2511	ERDS2TJ101	carbon	100Ω	± 5%	ΩW
R2513	ERDS2TJ392	carbon	3k9Ω	± 5%	ΩW
R2514	ERDS2TJ473	carbon	47kΩ	± 5%	ΩW
R2515	ERDS2TJ123	carbon	12kΩ	± 5%	ΩW
R2516	ERDS2TJ101	carbon	100Ω	± 5%	ΩW
R2517	EVND4AA00B53	control	5kΩB		
R2518	ERDS2TJ562	carbon	56kΩ	± 5%	ΩW
R2519	ERDS2TJ392	carbon	3k9Ω	± 5%	ΩW
R2520	ERDS2TJ563	carbon	56kΩ	± 5%	ΩW

Ref No.	Part No.	Description			
R2521	ERDS2TJ331	carbon	330 Ω	$\pm 5\%$	5W
R2522	ERDS2TJ103	carbon	10k Ω	$\pm 5\%$	5W
R2523	ERDS2TJ101	carbon	100 Ω	$\pm 5\%$	5W
R2524	ERDS2TJ272	carbon	2k Ω	$\pm 5\%$	5W
R2525	ERDS2TJ750	carbon	75 Ω	$\pm 5\%$	5W
R2526	ERG1SJ151P	metal oxide	150 Ω	$\pm 5\%$	1W
R2527	ERDS2TJ473	carbon	47k Ω	$\pm 5\%$	5W
R2528	ERDS2TJ221	carbon	220 Ω	$\pm 5\%$	5W
R2529	ERDS2TJ473	carbon	47k Ω	$\pm 5\%$	5W
R2530	ERDS2TJ101	carbon	100 Ω	$\pm 5\%$	5W
R2531	ERDS2TJ104	carbon	100k Ω	$\pm 5\%$	5W
R2532	ERQ12HKR33P	fusible	R33 Ω		
R2533	ERDS2TJ333	carbon	33k Ω	$\pm 5\%$	5W
R2534	ERDS2TJ103	carbon	10k Ω	$\pm 5\%$	5W
R2535	ERDS2TJ101	carbon	100 Ω	$\pm 5\%$	5W
R2536	ERDS2TJ473	carbon	47k Ω	$\pm 5\%$	5W
R2537	ERDS2TJ683	carbon	68k Ω	$\pm 5\%$	5W

CAPACITORS

C15	ECEA1HU4R7B	electrolytic	4.7 μ F	50v	
C16	ECEA1HUR22B	electrolytic	0.22 μ F	50v	
C17	ECKR1H103ZF5	ceramic	10 nF	50v	
C21	ECEA1HU100B	electrolytic	10 μ F	50v	
C24	ECEA50ZR47B	electrolytic	0.47 μ F	50v	
C101	ECKR1H103ZF5	ceramic	10 nF	50v	
C102	ECKR1H103ZF5	ceramic	10 nF	50v	
C103	ECKR1H103ZF5	ceramic	10 nF	50v	
C104	ECQV1H224JZ3	plastic film	220 nF	50v	
C105	ECQV1H104JZ3	plastic film	100 nF	50v	
C106	ECEA1CU470B	electrolytic	47 μ F	16v	
C110	ECKR1H103ZF5	ceramic	10 nF	50v	
C111	ECKR1H103ZF5	ceramic	10 nF	50v	
C112	ECEA1CN330SB	electrolytic	33 μ F	16v	
C113	ECKR1H103ZF5	ceramic	10 nF	50v	
C114	ECQV1H104JZ3	plastic film	100 nF	50v	
C116	ECCR1H560JP5	ceramic	56 pF	50v	
C117	ECCR1H220JP5	ceramic	22 pF	50v	
C119	ECEA1CU31B	electrolytic	330 μ F	16v	
C120	ECKR1H561KB5	ceramic	560 pF	50v	
C203	ECQM1H222KV3	plastic film	2.2 nF	50v	
C204	ECKR1H103ZF5	ceramic	10 nF	50v	
C205	ECQM1H562KV3	plastic film	5.6 nF	50v	
C206	ECKR1H103ZF5	ceramic	10 nF	50v	
C207	ECCR1H680JP5	ceramic	68 pF	50v	
C208	ECKR1H103ZF5	ceramic	10 nF	50v	
C209	ECCR1H030CC	ceramic	3 pF	50v	
C210	ECCR1H470JP5	ceramic	47 pF	50v	
C211	ECEA1HU100B	electrolytic	10 μ F	50v	
C251	ECEA1CU101B	electrolytic	100 μ F	16v	
C252	ECEA1HN010SB	electrolytic	1 μ F	50v	
C253	ECEA1VU4R7B	electrolytic	4.7 μ F	35v	
C254	ECQM1H82KV3	plastic film	1.8 nF	50v	
C255	ECEA1CU330B	electrolytic	33 μ F	16v	
C256	ECEA1HUR22B	electrolytic	0.22 μ F	50v	
C257	ECEA1VU471E	electrolytic	470 μ F	35v	
C258	ECQV1H154JZ3	plastic film	150 nF	50v	
C259	ECEA1EU102E	electrolytic	1000 μ F	25v	
C302	ECEA1CNI00SB	electrolytic	10 μ F	16v	
C304	ECEA1CN220SB	electrolytic	22 μ F	16v	
C306	ECEA1HU4R7B	electrolytic	4.7 μ F	50v	
C307	ECCR1H820JS	ceramic	82 pF	50v	
C308	ECKR1H103ZF5	ceramic	10 nF	50v	
C309	ECKR1H221KB5	ceramic	220 pF	50v	
C310	ECKR1H331KB5	ceramic	330 pF	50v	
C311	ECEA1HN010SB	electrolytic	1 μ F	50v	
C312	ECEA1HU00B	electrolytic	10 μ F	50v	
C313	ECKR1H221KB5	ceramic	220 pF	50v	
C314	ECKR1H103ZF5	ceramic	10 nF	50v	
C351	ECKR1H471KB5	ceramic	470 pF	50v	
C352	ECKR1H561KB5	ceramic	560 pF	50v	
C353	ECKR1H681KB5	ceramic	680 pF	50v	
C355	▲ ECKW3D152KBN	ceramic	1.5 nF	2kv	
C356	ECKR2H151KB2	ceramic	150 pF	500v	
C358	ECEA1HU220B	electrolytic	22 μ F	50v	
C359	ECEA2ES010E	electrolytic	1 μ F	250v	
C360	ECEA1CU31B	electrolytic	330 μ F	16v	
C372	ECCR1H331KB5	ceramic	330 pF	50v	
C373	ECCR1H470JS	ceramic	47 pF	50v	
C401	ECQM1H153KV3	plastic film	15 nF	50v	
C402	ECEA1HG010SB	electrolytic	1 μ F	50v	
C403	ECEA1HN010SB	electrolytic	1 μ F	50v	
C404	ECEA1HU4R7B	electrolytic	4.7 μ F	50v	
C451	ECKR2H821KB2	ceramic	820 pF	500v	
C452	ECQM1H473KV3	plastic film	47 nF	50v	
C453	ECQV1H104JZ3	plastic film	100 nF	50v	
C454	ECEA1VU101B	electrolytic	100 μ F	35v	
C455	ECEA1VU102E	electrolytic	1000 μ F	35v	
C456	ECEA50Z4R7B	electrolytic	4.7 μ F	50v	
C457	ECQM1H104MZW	plastic film	100 nF		

Ref No.	Part No.	Description			
C460	ECEA1HN010SB	electrolytic	1 μ F	50v	
C461	ECEA1VU471E	electrolytic	470 μ F	35v	
C462	ECEA1CU330B	electrolytic	33 μ F	16v	
C501	ECQV1H104JZ3	plastic film	100 nF	50v	
C502	ECEA1CU470B	electrolytic	47 μ F	16v	
C503	ECEA1HU010B	electrolytic	1 μ F	50v	
C504	ECQM1H03KV3	plastic film	10 nF	50v	
C506	ECQM1H333KV3	plastic film	33 nF	50v	
C507	ECEA1HU4R7B	electrolytic	4.7 μ F	50v	
C508	ECKR1H391KB5	ceramic	390 pF	50v	
C509	ECEA1HU010B	electrolytic	1 μ F	50v	
C510	ECQM1H562KV3	plastic film	5.6 nF	50v	
C511	ECQV1H104JZ3	plastic film	100 nF	50v	
C512	ECEA1CU470B	electrolytic	47 μ F	16v	
C513	ECQM1H03KV3	plastic film	10 nF	50v	
C515	ECEA1JU100B	electrolytic	10 μ F	50v	
C516	ECKR1H102KB5	ceramic	1 nF	50v	
C517	ECEA1CU470B	electrolytic	47 μ F	16v	
C518	ECKR2H101KB2	ceramic	100 pF	500v	
C519	ECEA1HU00B	electrolytic	10 μ F	50v	
C520	ECEA1CU470B	electrolytic	47 μ F	16v	
C521	ECQM1H222KV3	plastic film	2.2 nF	50v	
C522	ECQM1H682KV3	plastic film	6.8 nF	50v	
C523	ECQM1H233KV3	plastic film	22 nF	50v	
C524	ECQM1H682KV3	plastic film	6.8 nF	50v	
C531	ECKW2H332KB8	ceramic	3.3 nF	500v	
C532	ECKW2H332KB8	ceramic	3.3 nF	500v	
C552	ECQF2H394JSA	polypropylene	390 nF	500v	
C553	ECKR2H222KB2	ceramic	2.2 nF	500v	
C554	ECEA2CS2R2E	electrolytic	2.2 μ F	160v	
C555	ECEA2ES100E	electrolytic	10 μ F	250v	
C556	▲ ECKW3D122JB	ceramic	2.2 nF	2kv	
C557	ECQV1H104JZ3	plastic film	100 nF	50v	
C558	ECWH12H682JS	plastic film	6.8 nF	500v	
C559	▲ ECKW3D122JB	ceramic	1.2 nF	2kv	
C560	▲ ECKW3D121JB	ceramic	270 pF	2kv	
C562	ECEA1HU00B	electrolytic	10 μ F	50v	
C563	ECKR2H471KB2	ceramic	470 pF	500v	
C564	ECEA1HU00B	electrolytic	10 μ F	50v	
C601	ECKR1H103ZF5	ceramic	10 nF	50v	
C602	ECCR1H121J5	ceramic	120 pF	50v	
C603	ECKR1H103ZF5	ceramic	10 nF	50v	
C604	ECEA1HUR22B	electrolytic	0.22 μ F	50v	
C605	ECKR1H103ZF5	ceramic	10 nF	50v	
C606	ECEA1HUR22B	electrolytic	0.22 μ F	50v	
C607	ECKR1H103ZF5	ceramic	10 nF	50v	
C609	ECEA1HU010B	electrolytic	1 μ F	50v	
C610	ECKR1H103ZF5	ceramic	10 nF	50v	
C611	ECKR1H103ZF5	ceramic	10 nF	50v	
C612	ECKR1H331KB5	ceramic	330 pF	50v	
C613	ECKR1H331KB5	ceramic	330 pF	50v	
C614	ECKR1H331KB5	ceramic	330 pF	50v	
C616	ECKR1H103ZF5	ceramic	10 nF	50v	
C617	ECKR1H103ZF5	ceramic	10 nF	50v	
C618	ECKR1H102KB5	ceramic	1 nF	50v	
C619	ECKR1H102KB5	ceramic	1 nF	50v	
C801	ECQU2A473MN8	plastic film	47 nF	200v	
C802	ECQU2A473MN8	plastic film	47 nF	200v	
C803	ECKW2H472PU8	ceramic	4.7 nF	500v	
C804	ECKW2H472PU8	ceramic	4.7 nF	500v	
C805	ECKW2H472PU8	ceramic	4.7 nF	500v	
C806	ECKW2H472PU8	ceramic	4.7 nF	500v	
C807	ECES2GU101G	electrolytic	100 μ F	400v	
C809	ECQV1H184JZ3	plastic film	180 nF	50v	
C810	▲ ECKW3D152KBN	ceramic	1.5 nF	2kv	
C811	▲ ECKW3D152KBN	ceramic	1.5 nF	2kv	
C812	ECEA1HU2R2B	electrolytic	2.2 μ F	50v	
C814	ECEA1VU33WE	electrolytic	33 μ F	16v	
C816	ECKR2H561KB2	ceramic	560 pF	500v	
C817	ECEA1U471E	electrolytic	470 μ F	25v	
C818	ECEA1HU00B	electrolytic	10 μ F	50v	
C819	ECKR1H103ZF5	ceramic	10 nF	50v	
C820	ECEA1EU101B	electrolytic	100 μ F	25v	
C821	ECKR1H103ZF5	ceramic	10 nF	50v	
C822	ECKR1H102KB5	ceramic	1 nF	50v	
C823	ECQM1H332KV3	plastic film	3.3 nF	50v	
C1111	ECCR1H680JP5	ceramic	68 pF	50v	
C1113	ECCR1H151J5	ceramic	150 pF	50v	
C1114	ECCR1H101J5	ceramic	100 pF	50v	
C1117	ECEA1HU00B	electrolytic	10 μ F	50v	
C1118	ECKR1H103ZF5	ceramic	10 nF	50v	
C1121	ECKR1H271KB5	ceramic	270 pF	50v	
C1122	ECKR1H103ZF5	ceramic	10 nF	50v	
C1123	ECEA1HU00B	electrolytic	10 μ F	50v	
C1124	ECKR1H271KB5	ceramic	270 pF	50v	
C1125	ECCR1H01JS	ceramic	100 pF	50v	
C1126	ECCR1H101JS	ceramic	100 pF	50v	
C1127	ECKR1H21KB5	ceramic	120 pF	50v	
C1128	ECKR1H81KB5	ceramic	180 pF	50v	
C1130	ECEA1CU330B	electrolytic	33 μ F	16v	

Ref No.	Part No.	Description		
C1131	ECEA1HU2R2B	electrolytic	2.2 μ F	50v
C1132	ECCR1H101J5	ceramic	100 μ F	50v
C1133	ECEA1HU2R2B	electrolytic	2.2 μ F	50v
C1134	ECEA1HU2R2B	electrolytic	2.2 μ F	50v
C1135	ECEA1HU2R2B	electrolytic	2.2 μ F	50v
C1136	ECCR1H151J5	ceramic	150 μ F	50v
C1137	ECEA50ZR33B	electrolytic	0.33 μ F	50v
C1138	ECEA50ZR47B	electrolytic	0.47 μ F	50v
C1139	ECKR1H471KB5	ceramic	470 pF	50v
C1140	ECKR1H471KB5	ceramic	470 pF	50v
C1144	ECEA1HU00B	electrolytic	10 μ F	50v
C1145	ECKR1H103ZF5	ceramic	10 nF	50v
C1147	ECEA1HU010B	electrolytic	1 μ F	50v
C1148	ECCR1H101JU5	ceramic	100 pF	50v
C1151	ECKR1H471KB5	ceramic	470 pF	50v
C1152	ECKR1H471KB5	ceramic	470 pF	50v
C1153	ECKR1H471KB5	ceramic	470 pF	50v
C1154	ECKR1H471KB5	ceramic	470 pF	50v
C1155	ECKR1H471KB5	ceramic	470 pF	50v
C1156	ECKR1H471KB5	ceramic	470 pF	50v
C1157	ECKR1H471KB5	ceramic	470 pF	50v
C1158	ECKR1H471KB5	ceramic	470 pF	50v
C1159	ECEA1HU010B	electrolytic	1 μ F	50v
C1160	ECQM1H822KV3	plastic film	8.2 nF	50v
C1161	ECKR1H821KB5	ceramic	820 pF	50v
C1601	ECQM1H333KV3	plastic film	33 nF	50v
C1602	ECEA6Z220E	electrolytic	220 μ F	6.3v
C1603	ECEA1HU010B	electrolytic	1 μ F	50v
C1604	ECKR1H331KB5	ceramic	330 pF	50v
C1605	ECEA1HU0R1B	electrolytic	0.1 μ F	50v
C1606	ECEA0JU471B	electrolytic	470 pF	6.3v
C2501	A ECKCNS102MBJ	ceramic	1 nF	1.2kv
C2503	ECCR1H150J5	ceramic	15 pF	50v
C2504	ECEA1HN010SB	electrolytic	1 μ F	50v
C2505	ECEA1CN100SB	electrolytic	10 μ F	16v
C2507	ECEA1HU01B	electrolytic	100 μ F	50v
C2509	ECEA1HU00B	electrolytic	10 μ F	50v
C2510	ECQM1H223KV3	plastic film	22 nF	50v
C2512	ECEA1CU470B	electrolytic	47 μ F	16v
C2513	ECEA1HU01B	electrolytic	100 μ F	50v
C2514	ECKR2H101KB2	ceramic	100 pF	500v
C2515	ECEA1EU01B	electrolytic	100 μ F	25v
C2517	ECEA1HU00B	electrolytic	10 μ F	50v
C2518	ECEA1CN100SB	electrolytic	10 μ F	16v

COILS

LC601	TLK153159E	coil
L12	TLT330K991R	peaking coil
L15	TLT022L991R	peaking coil
L104	EIV7EN047B	video IF transformer
L105	EIV7EN046B	video IF transformer
L107	TLT101L991R	coil
L108	TLT100K166C	coil
L109	TLT470K991R	peaking coil
L201	TLT220K991R	coil
L201	TLT047L991R	coil
L203	EIS7EN010B	sound IF transformer
L204	EIS7ES710B	sound IF transformer
L301	TLT390K991R	coil
L502	TLT542K991K	coil
L601	TLT220K991R	coil
L602	EIK7ES005B	coil
L603	EIK7EN010B	coil
L801	ELF18D427F	line filter
L802	TSC925-4	bead choke
L803	TSC925-4	bead choke
L806	TSC925-4	bead choke

TRANSFORMERS

T531	TLH15458E	transformer
T551	A TLF14752F	transformer
T801	ETS29K14A	transformer

DIODES

D101	MA165TA5	diode
D102	MA165TA5	diode
D103	MA165TA5	diode
D301	MA165TA5	diode
D302	MA165TA5	diode
D303	MA165TA5	diode
D304	MA166TA5	diode
D306	MA4120TA	diode
D307	MA4120TA	diode
D308	MA4120TA	diode
D351	MA165TA5	diode
D352	MA165TA5	diode
D353	MA165TA5	diode
D354	MA165TA5	diode

Ref No.	Part No.	Description
D372	MA165TA5	diode
D373	MA4047TA	diode
D451	ERA15-02V3	diode
D453	MA4270TA	diode
D501	MA4360TA	diode
D504	MA171TA5	diode
D505	MA165TA5	diode
D506	MA165TA5	diode
D551	ERA22-04V3	diode
D552	MA167TA5	diode
D553	ERA22-04V3	diode
D554	ERA22-04V3	diode
D555	MA165TA5	diode
D556	ERA22-04V3	diode
D802	EU02A	diode
D803	ERA15-02V3	diode
D804	ERA22-04V3	diode
D805	232266298009	diode
D806	EU02V0	diode
D807	MA4300MTA	diode
D809	MA4100WTA	diode
D810	MA4056MTA	diode
D811	MA165TA5	diode
D811	MA700TA	diode
D813	MA165TA5	diode
D814	MA4030TA	diode
D817	MA165TA5	diode
D818	MA165TA5	diode
D821	ERC13-08V3	solid resistor
D822	ERC13-08V3	solid resistor
D823	ERC13-08V3	solid resistor
D824	ERC13-08V3	solid resistor
D1111	TVSUPC574J	I.C.
D1112	MA4270MTA	diode
D1119	MA165TA5	diode
D1120	MA165TA5	diode
D1123	MA165TA5	diode
D1124	MA165TA5	diode
D1125	MA165TA5	diode
D1126	MA165TA5	diode
D1128	MA165TA5	diode
D1130	MA165TA5	diode
D1132	MA165TA5	diode
D1133	MA165TA5	diode
D1134	MA165TA5	diode
D1135	MA165TA5	diode
D1141	MA165TA5	diode
D1142	MA165TA5	diode
D1149	MA165TA5	diode
D1150	MA165TA5	diode
D1151	MA165TA5	diode
D1601	PN323BHT	diode
D2501	MA4082MTA	diode
D2502	EU02V0	diode

TRANSISTORS

Q101	2SA564ATA	P.N.P. transistor
Q103	UN4211TA	transistor
Q302	2SA564ATA	P.N.P. transistor
Q303	2SC2636T	transistor
Q304	2SC2636T	transistor
Q351	2SC1473A	N.P.N. transistor
Q352	2SC1473A	N.P.N. transistor
Q353	2SC1473A	N.P.N. transistor
Q355	2SC1685TA	transistor
Q358	2SA719TA	P.N.P. transistor
Q372	2SA564ATA	P.N.P. transistor
Q373	2SA564ATA	P.N.P. transistor
Q374	2SA564ATA	P.N.P. transistor
Q451	2SA564ATA	P.N.P. transistor
Q452	2SA564ATA/CR	transistor
Q502	2SA564ATA	P.N.P. transistor
Q504	2SA564ATA	P.N.P. transistor
Q505	2SC1685TA	N.P.N. transistor
Q506	2SA564ATA	P.N.P. transistor
Q531	2SC1573AH	N.P.N. transistor
Q551	2SD1439RL	N.P.N. transistor
Q802	UN1215	transistor
Q803	UN1111	transistor
Q804	2SC1317TA	N.P.N. transistor
Q805	2SC1573AH	N.P.N. transistor
Q806	2SA683NC-Q	P.N.P. transistor
Q807	2SC1685TA	N.P.N. transistor
Q1121	2SC1685TA	N.P.N. transistor
Q1122	UN1211	transistor
Q1123	UN1211	transistor
Q1125	2SC1685TA	N.P.N. transistor
Q1129	2SC1685TA	N.P.N. transistor
Q1130	UN1211	transistor
Q1135	2SC1688	transistor

Ref No.	Part No.	Description
Q2501	2SC1685TA	N.P.N. transistor
Q2502	2SC1685TA	N.P.N. transistor
Q2503	2SC1685TA	N.P.N. transistor
Q2504	2SC1685TA	N.P.N. transistor
Q2505	2SC1685TA	N.P.N. transistor
Q2506	2SC1685TA	N.P.N. transistor
Q2507	2SC1685TA	N.P.N. transistor
Q2508	2SC1685TA	N.P.N. transistor
Q2509	2SC1685TA	N.P.N. transistor
I.C.'S		
IC101	M51407SP	I.C.
IC1101	MNI5142TEB	I.C.
IC1102	MNI220T	I.C.
IC1601	AN5025K	I.C.
IC2503	TLP751VIDLF2	transformer
IC2504	TLP731AUDLF2	transformer
IC251	AN5265	audio I.C.
IC451	AN5521	vertical output I.C.
IC801	STR50103A-M	I.C.
IC802	AN78M12LB	I.C.
IC803	L78M09-M-RB	I.C.