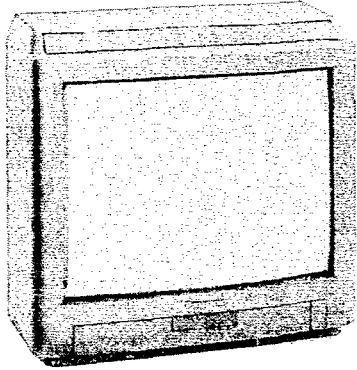


# Service Manual



## Colour Television TX-21M2T Z4 chassis

### Specifications

<b>Power source :</b>	AC 240V, 50Hz
<b>Power consumption :</b>	75W
<b>Aerial Impedance :</b>	75 $\Omega$ unbalanced coaxial type
<b>Receiving system :</b>	CCIR : 625 lines, PAL - I
<b>Receiving Channels :</b>	UHF channel 21 to 69
<b>Intermediate Frequency :</b>	Video 39.5 MHz Sound 33.5 MHz Colour 35.07 MHz

### Video/Audio Terminals

(Rear of TV)

21 pin IN	Video 1 Vp-p 75 $\Omega$ Audio 500mVrms 10k $\Omega$
21 pin OUT	Video 1 Vp-p 75 $\Omega$ Audio 500mVrms 1k $\Omega$

S-Video (4 pin) IN	Y: 1 Vp-p 75 $\Omega$ C: 0.3 Vp-p 75 $\Omega$
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Audio (RCA) IN	500mVrms 10k $\Omega$
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(Front of TV)

Video (RCA) IN	Video 1 Vp-p 75 $\Omega$
Audio (RCA) IN	500mVrms 10k $\Omega$

<b>High Voltage :</b>	26.5 kV ( +0.7,-1.5kV) at zero beam current
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<b>Picture Tube :</b>	A51JXS95X05 21 inches (51cm V) measured diagonally, 90° deflection.
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<b>Audio Output</b>	
Internal Speaker :	3W (Music Power) Impedance 8 $\Omega$

Speaker :	12.5cm x 7.5cm Oval
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<b>Accessories supplied :</b>	Remote Controller 2 x R6 Batteries Stand
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<b>Dimensions :</b>	Height 490 mm Width 515 mm Depth 485 mm
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<b>Net Weight :</b>	22.5kg.
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Specifications are subject to change without notice.  
Net weight and dimensions shown are approximate.

NOTE: For further information please use this manual  
in conjunction with the TX-21M1T Service Manual.

# Panasonic

**Panasonic (U.K.) Ltd.**  
WILLOUGHBY ROAD,  
BRACKNELL,  
BERKS,  
RG12 4FP.

**CONTENTS**

**SAFETY PRECAUTIONS** ..... 2  
**LOCATION OF CONTROLS** ..... 3  
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**ADJUSTMENTS** ..... 4  
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**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 that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the AC outlet.
5. Potentials as high as 28.0 kV are 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 familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

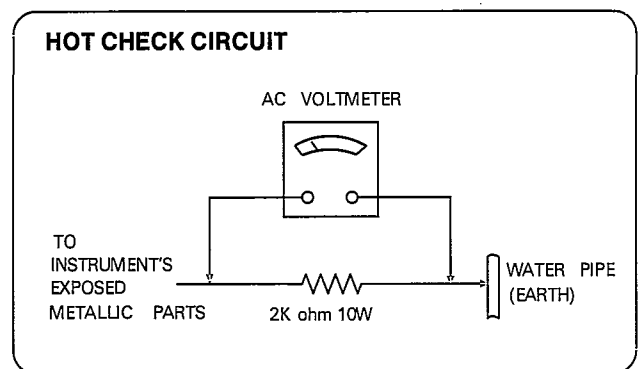
**LEAKAGE CURRENT COLD CHECK**

1. Unplug the AC cord and connect a jumper between the two prongs of 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 screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

**LEAKAGE CURRENT HOT CHECK**

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2k ohm 10W resistor in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed Metallic part and check the voltage at each point.

5. Reverse the AC plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 Vrms. In case a measurement is outside 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.



**X-RADIATION**

Fig.1

**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 the jig is capable of handling 30.0 kV without causing X-Radiation.

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

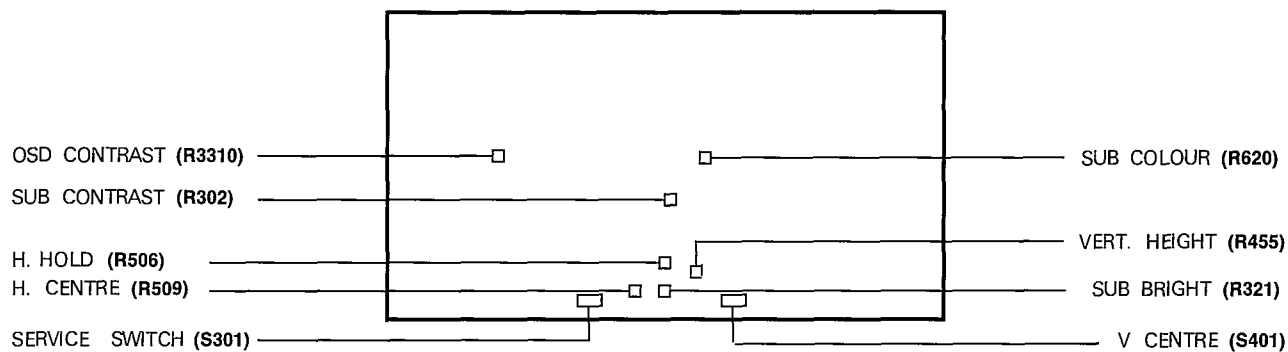
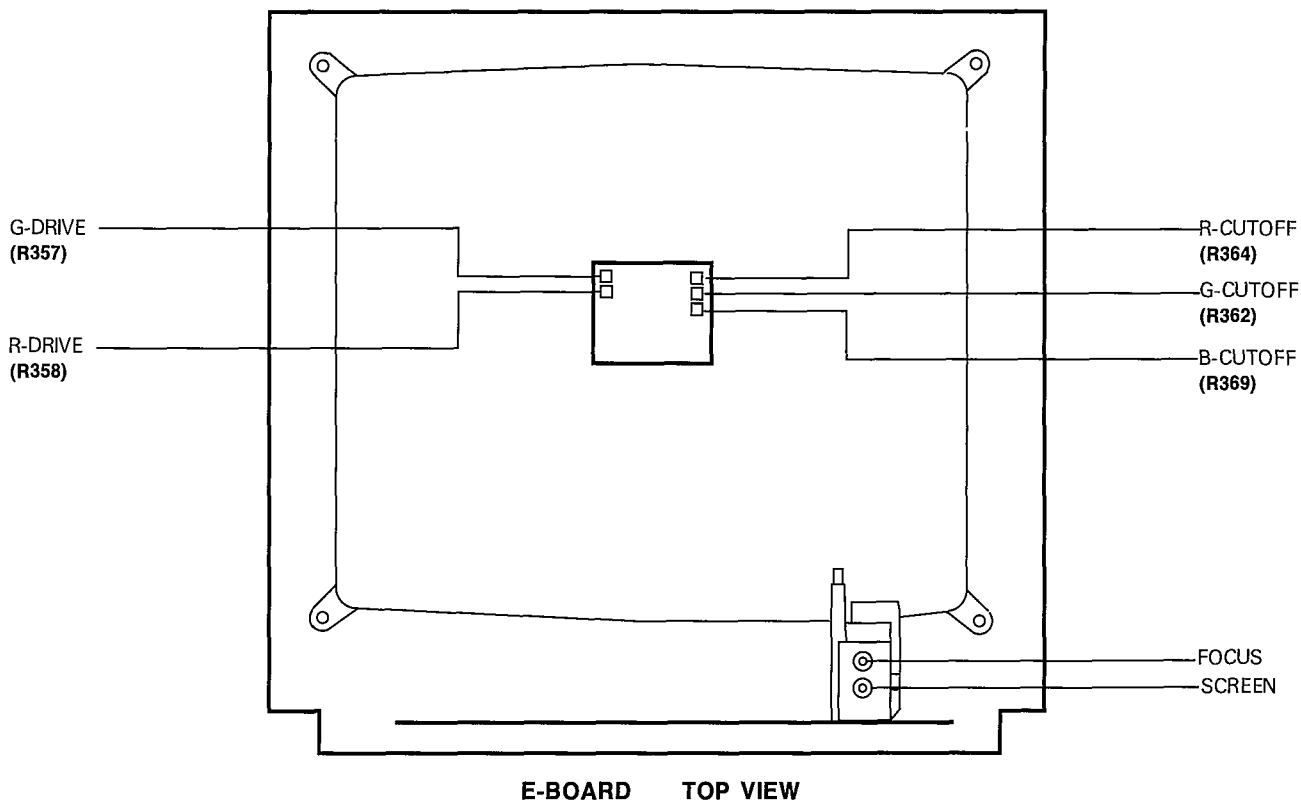
1. Set the brightness to minimum.
2. Set the service switch to the SERVICE position.
3. Measure the high voltage. The meter should indicate 26.5 kV ( +0.7 / - 1.5)kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
4. To prevent a X-Radiation possibility, it is essential to use the specified 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 -60V is applied to TPE7, but does not function when -40V is applied.

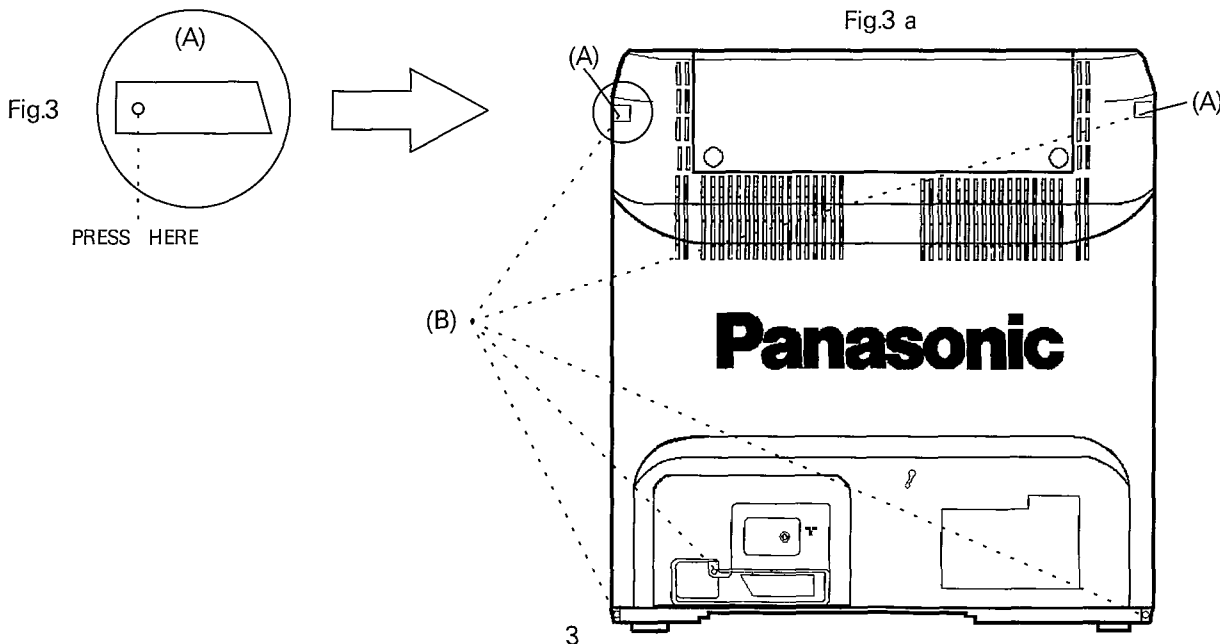
## LOCATION OF CONTROLS



## SERVICE HINTS

### HOW TO REMOVE THE REAR COVER

1. Remove the 2 screw covers (A) as shown in Fig.3.
2. Remove the 5 screws (B) as shown in Fig.3a.
3. Gently pull back rear cover and remove speaker plug from B-3 connector (at top of B board)  
rear cover can now be removed.



**ADJUSTMENTS**

ITEM/PREPARATION	ADJUSTMENT PROCEDURE																
<p><b><u>B VOLTAGE</u></b></p> <ol style="list-style-type: none"> <li>Operate the TV set.</li> <li>Set controls: Bright ..... minimum Contrast ..... minimum (Zero beam current)</li> </ol>	<ol style="list-style-type: none"> <li>Confirm the indicated test points for the specified voltage. <table border="0" data-bbox="805 409 1324 521"> <tr> <td><b>TPE1:</b></td> <td>123.5 +/- 1.5V</td> <td><b>TPE5:</b></td> <td>12.0 +/- 1.0V</td> </tr> <tr> <td><b>TPE2:</b></td> <td>5.0 +/- 0.3V</td> <td><b>TPE10:</b></td> <td>190.0 +/- 10.0V</td> </tr> <tr> <td><b>TPE3:</b></td> <td>20.0 +/- 1.0V</td> <td><b>TPE28:</b></td> <td>26.5 +/- 1.0V</td> </tr> <tr> <td><b>TPE4:</b></td> <td>15.0 +/- 1.0V</td> <td><b>TPE66:</b></td> <td>8.2 +/- 0.5V</td> </tr> </table> </li> </ol>	<b>TPE1:</b>	123.5 +/- 1.5V	<b>TPE5:</b>	12.0 +/- 1.0V	<b>TPE2:</b>	5.0 +/- 0.3V	<b>TPE10:</b>	190.0 +/- 10.0V	<b>TPE3:</b>	20.0 +/- 1.0V	<b>TPE28:</b>	26.5 +/- 1.0V	<b>TPE4:</b>	15.0 +/- 1.0V	<b>TPE66:</b>	8.2 +/- 0.5V
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<p><b><u>AFC</u></b></p> <ol style="list-style-type: none"> <li>Operate the TV set.</li> <li>Supply 39.5MHz continuous wave from an oscillator to <b>TPB20</b> (0.5 V p-p, 75 ohm terminated).</li> <li>Connect a DC voltmeter to <b>TPB25</b>.</li> </ol>	<ol style="list-style-type: none"> <li>Adjust <b>L106</b> so that the voltage at <b>TPB25</b> becomes 4.5V +/- 0.5V.</li> <li>Change the frequency and confirm the voltage as shown below. <table border="0" data-bbox="798 750 1109 806"> <tr> <td>+ 100 kHz:</td> <td>less than 2.0V</td> </tr> <tr> <td>- 100 kHz:</td> <td>more than 6.0V</td> </tr> </table> </li> </ol>	+ 100 kHz:	less than 2.0V	- 100 kHz:	more than 6.0V												
+ 100 kHz:	less than 2.0V																
- 100 kHz:	more than 6.0V																
<p><b><u>RF AGC</u></b></p> <ol style="list-style-type: none"> <li>Receive a Philips pattern.</li> <li>Set the input level to 62 dB +/- 2 dB (75 ohm open).</li> <li>Connect an oscilloscope to <b>TPB24</b> with DC mode.</li> </ol>	<ol style="list-style-type: none"> <li>Turn RF AGC control <b>R128</b> fully clockwise.</li> <li>Slowly turn <b>R128</b> counterclockwise to set it at the point before the voltage at <b>TPB24</b> drops. <p><b>NOTE:</b> In this case , gain range of the oscilloscope is 1 V/div, and set <b>R128</b> to a point where this voltage drops by 0.5V.</p> </li> </ol>																
<p><b><u>HIGH VOLTAGE</u></b></p> <ol style="list-style-type: none"> <li>Receive a crosshatch pattern.</li> <li>Set controls: Bright ..... minimum Contrast ..... minimum (Zero beam current)</li> </ol>	<ol style="list-style-type: none"> <li>Connect a DC voltmeter to <b>TPE1</b> and confirm the voltage is 123.5V +/- 1.5V.</li> <li>Connect a high-voltage meter (Electrostatic type) to the anode of the picture tube.</li> <li>Confirm that the high voltage is within a range of 26.5KV ( +0.7 or -1.5)</li> </ol>																

**SCHEMATIC DIAGRAM FOR MODEL  
TX -21M2  
(Z4 CHASSIS)**

**IMPORTANT SAFETY NOTICE**  
Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

ITEM/PREPARATION	ADJUSTMENT PROCEDURE	WAVEFORM
<p><b>SUB CONTRAST</b></p> <ol style="list-style-type: none"> <li>Receive the Philips pattern. (Input level : 75 dB.)</li> <li>Connect an oscilloscope to <b>TPE15</b>.</li> <li>Set controls: Bright ..... minimum Contrast ..... maximum Colour ..... minimum Sub Colour ..... minimum</li> <li>Earth <b>TPE7</b>.</li> </ol>	<ol style="list-style-type: none"> <li>Adjust Sub-Bright (<b>R321</b>) to set the black level to 0.2 V</li> <li>Adjust the Sub-Contrast (<b>R302</b>) to set the drive voltage to 2.6 V p-p.</li> <li>Remove link from <b>TPE7</b>.</li> </ol>	<p>Adjust by (R302)</p> <p>2.6V p-p</p> <p>0.2V</p> <p>Adjust by (R321)</p> <p><b>Fig.4</b></p>
<p><b>PAL APC</b></p> <ol style="list-style-type: none"> <li>Receive the Philips pattern.</li> <li>Set controls: Contrast ..... maximum Colour ..... maximum</li> <li>Connect jumpers between <b>TPC8</b> and <b>TPC20</b> <b>TPC11</b> and <b>TPC9</b></li> <li>Connect oscilloscope to <b>C3 PIN6</b> through 100 <math>\Omega</math> resistor.</li> </ol>	<ol style="list-style-type: none"> <li>Adjust APC trimmer (<b>C617</b>) to obtain waveform at <b>TPE15</b> as shown in Fig.5 (stationary waveform)</li> <li>Remove links and confirm colour bars are stationary.</li> </ol>	<p><b>Fig.5</b></p>
<p><b>PAL DELAY LINE</b></p> <ol style="list-style-type: none"> <li>Receive the Philips pattern.</li> <li>Connect oscilloscope to <b>C3 PIN6</b> through 100 <math>\Omega</math> resistor.</li> <li>Set controls: Contrast ..... maximum Colour ..... maximum</li> </ol>	<ol style="list-style-type: none"> <li>Adjust DL Adj (<b>R611</b>) and DL Matching Trans (<b>L601</b>) to obtain waveform at <b>TPE15</b> as shown in Fig 6.</li> </ol>	<p>MINIMIZE THE DIFFERENCE BY L601</p> <p>MINIMIZE THE DIFFERENCE BY R611</p> <p><b>Fig.6</b></p>
<p><b>SUB COLOUR</b></p> <ol style="list-style-type: none"> <li>Receive a Philips pattern.</li> <li>Set controls: Bright ..... minimum Contrast ..... maximum Sub Bright ..... centre Colour ..... centre</li> <li>Connect an oscilloscope to <b>TPE15</b>.</li> <li>Connect a short jumper between <b>TPE6</b> and earth.</li> </ol>	<ol style="list-style-type: none"> <li>Adjust sub colour (<b>R620</b>). For 1.2 Vo-p +/- 0.1 V at <b>TPE15</b> as shown in Fig 7.</li> <li>Remove the short jumper.</li> </ol>	<p>Peak</p> <p>1.2Vo-p</p> <p>0</p> <p>A: 0.2-0.4V</p> <p><b>Fig.7</b></p>
<p><b>MICON CONTRAST</b></p> <ol style="list-style-type: none"> <li>Set controls: Bright ..... minimum Contrast ..... maximum Sub Colour ..... minimum Colour ..... minimum</li> <li>Select AV mode without AV connection.</li> <li>Connect an oscilloscope to <b>TPE15</b>.</li> </ol>	<ol style="list-style-type: none"> <li>Adjust Sub-Bright (<b>R321</b>) to set the black level to 0.2 V</li> <li>Adjust (<b>R3310</b>) so White to Black level is 1.7Vp-p +/- 0.1V.</li> </ol>	<p>Adjust by (R3310)</p> <p>1.7V o-p</p> <p>0.2V</p> <p><b>Fig.8</b></p>
<p><b>TELETEXT CONTRAST</b></p> <ol style="list-style-type: none"> <li>Receive a teletext signal.</li> <li>Connect an oscilloscope to <b>H3 pin 6</b>.</li> </ol>	<ol style="list-style-type: none"> <li>Adjust (<b>R3514</b>) to obtain the waveform as shown in Fig 9.</li> </ol>	<p>0.4Vp-p +/- 0.1V</p> <p><b>Fig.9</b></p>

**NOTES:**

**1. RESISTOR**

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

- $\bigcirc$  : Nonflammable
- $\triangle$  : Solid
- $\square$  : Wire Wound

- $\boxtimes$  : Metal Oxide
- $\odot$  : Metal Film
- $\ominus$  : Fuse

**2. CAPACITOR**

All capacitors are ceramic 50V capacitor, unless marked as follows:  
Unit of capacitance is  $\mu$ F, unless otherwise stated.

- $\odot$  : Temperature Compensation
- $\textcircled{M}$  : Polyester
- $\textcircled{m}$  : Metallised Polyester
- $\boxtimes$  : Polypropylene

- $\text{---} \text{---} \text{---}$  : Electrolytic
- $\text{---} \text{---} \text{---}$  : Bipolar
- $\text{---} \text{---} \text{---}$  : Dipped Tantalum
- $\text{---} \text{---} \text{---}$  : Z-Type

**3. COIL**

Unit of inductance is  $\mu$ H, unless otherwise stated.

**4. TEST POINT**

$\bigcirc$  : Test Point position

**5. EARTH SYMBOL**

$\text{---} \text{---} \text{---}$  : Chassis Earth (Cold)

$\text{---} \text{---} \text{---}$  : Line Earth (Hot)

**6. VOLTAGE MEASUREMENT**

Voltage is measured by a DC voltmeter.  
Measurement conditions are as follows.

Power source	AC 240V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Middle position

- $\rightarrow$  : Indicates the Video signal path
- $\Rightarrow$  : Indicates the Audio signal path
- $\Rightarrow$  : Indicates the Vertical/Horizontal signal path

8. This schematic diagram is the latest at the time of printing and is 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.

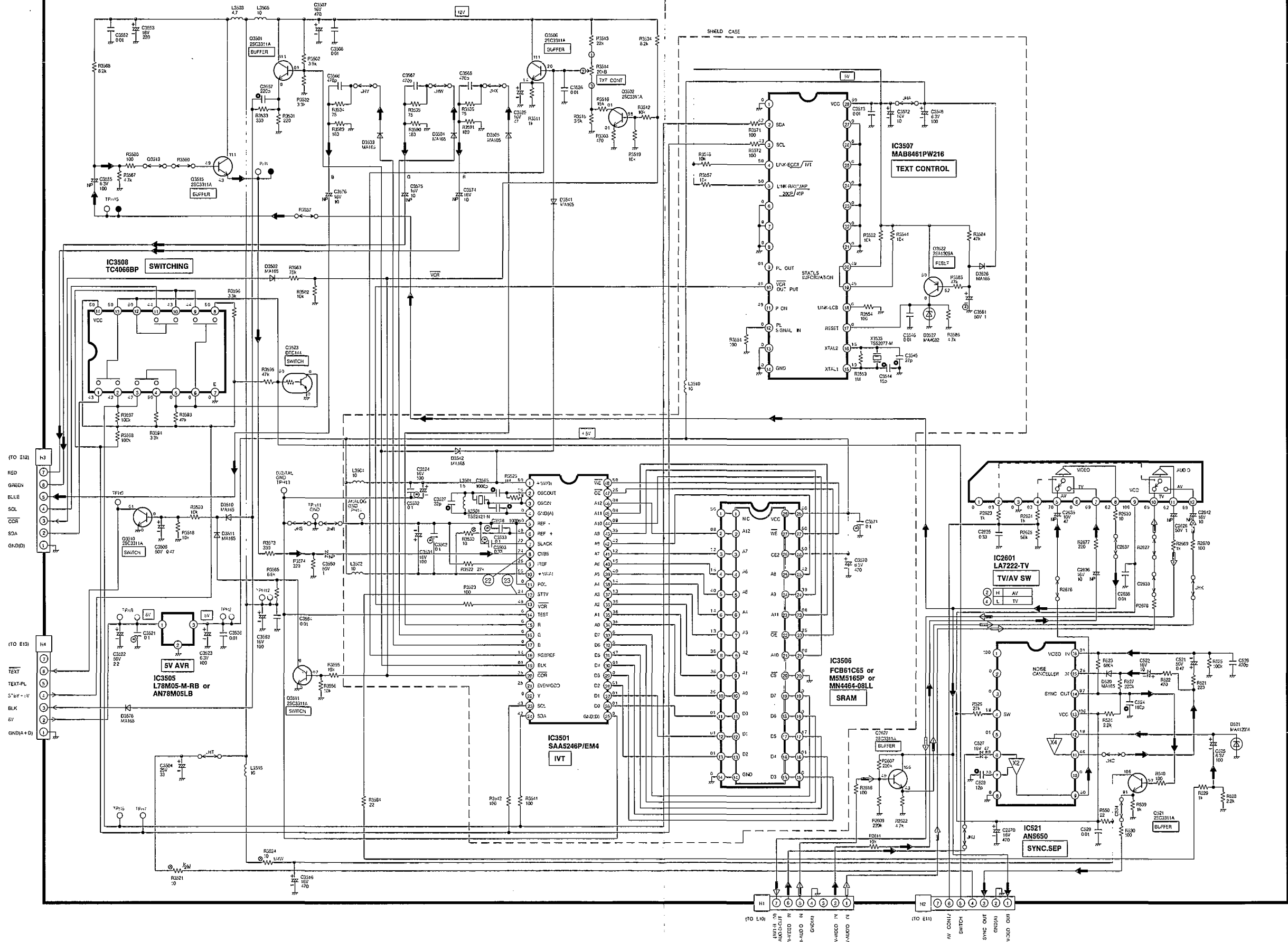
**Precautions**

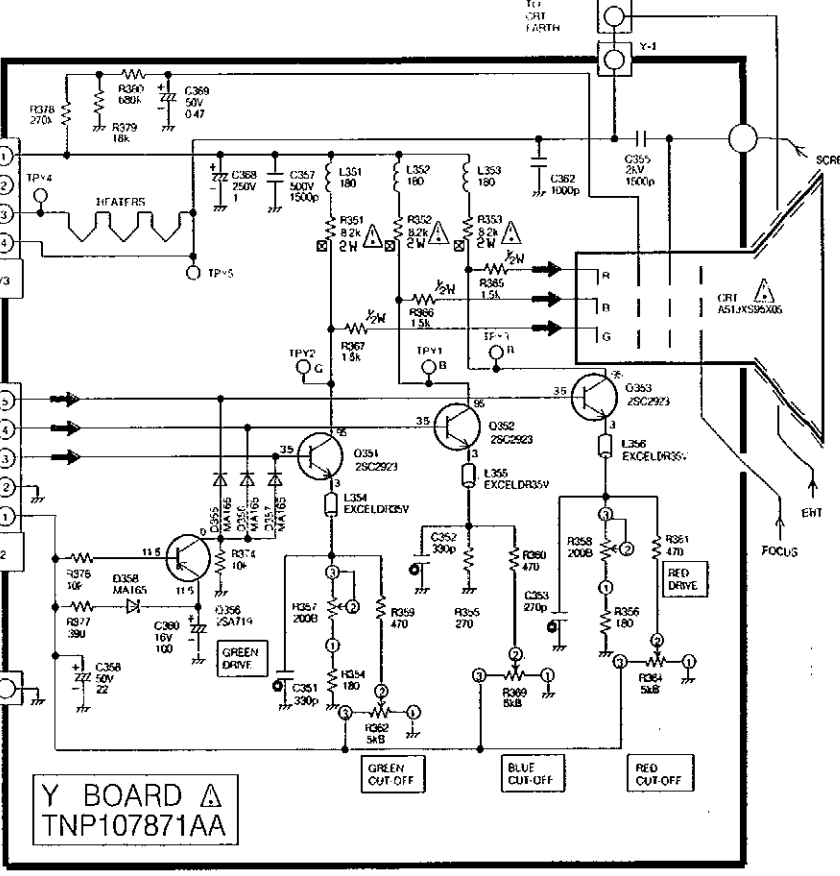
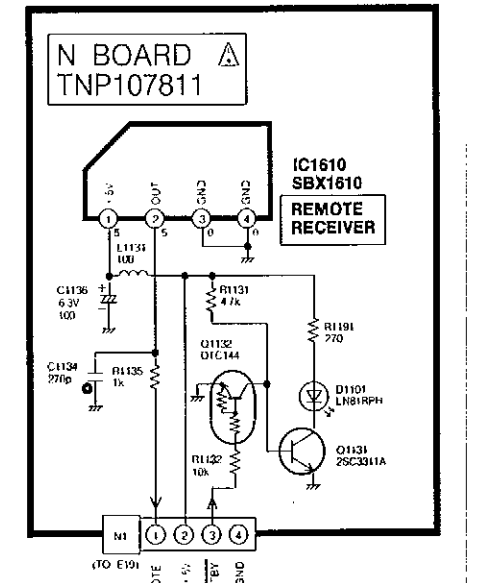
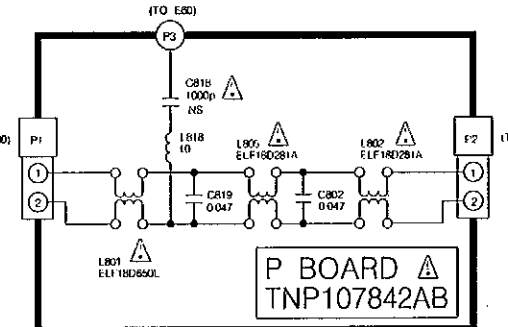
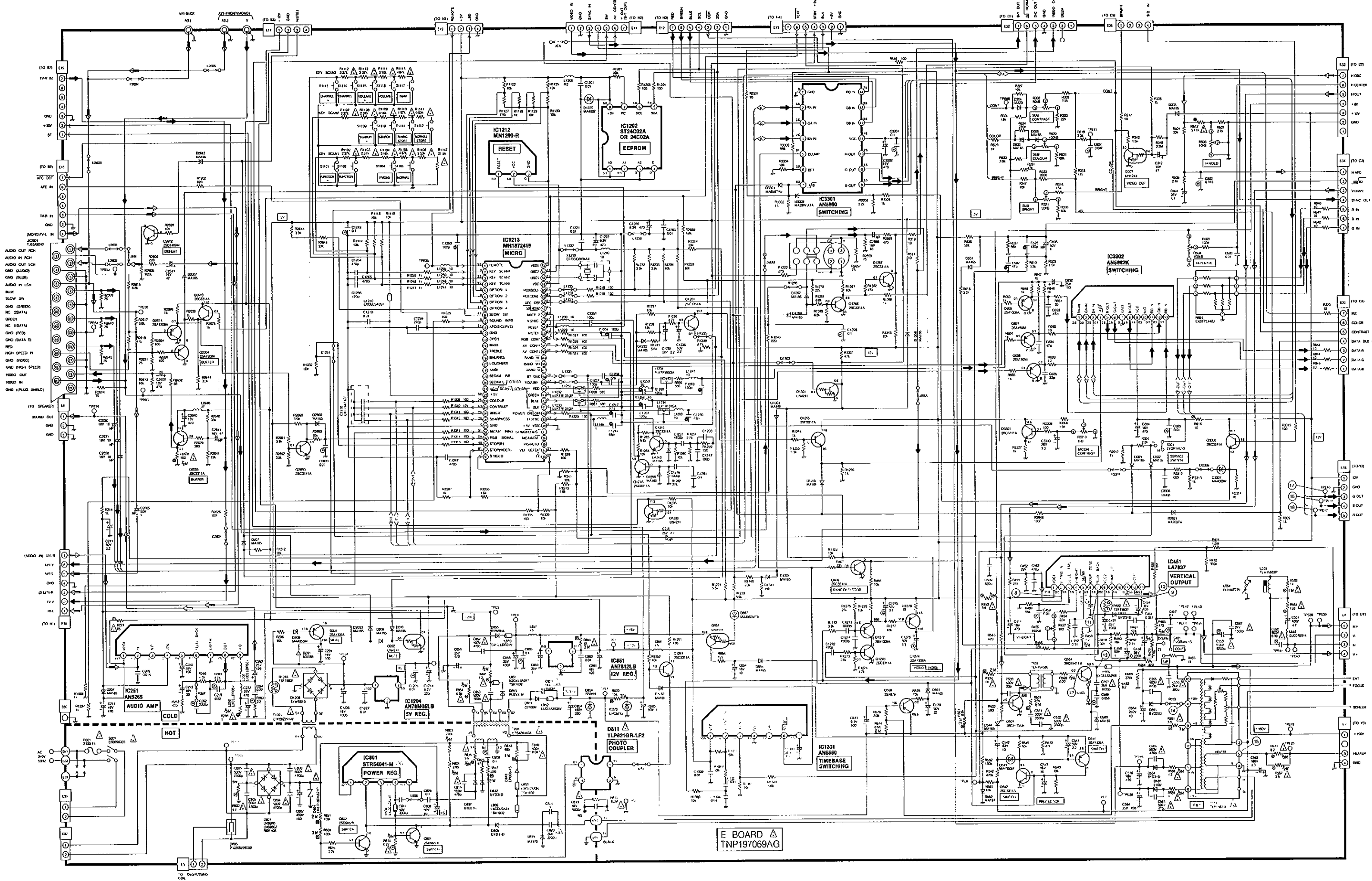
- Do not touch the hot part or the hot and cold parts at the same time as you are liable to a shock hazard.
- Do not short-circuit the hot and cold circuits as electrical components may be damaged.
- Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously, as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- Make sure to disconnect the power plug before removing the chassis.

- The following resistors are fusible safety components, and are rated at the following values:

Ref.:	Part number	Current rating
R482	TSF19631	630mA
R1283	TSF19631	630mA

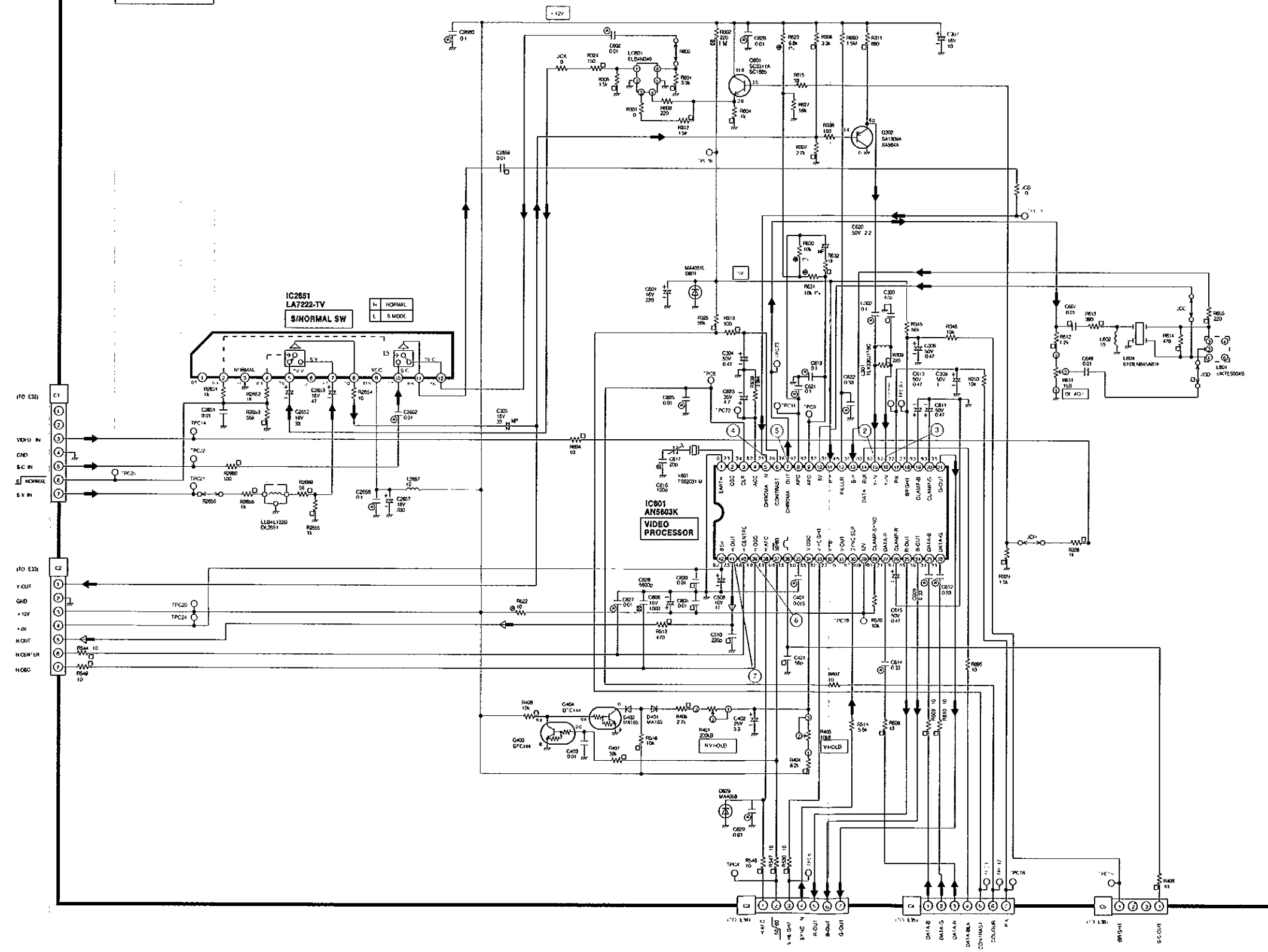
H BOARD  
TNP107846AH



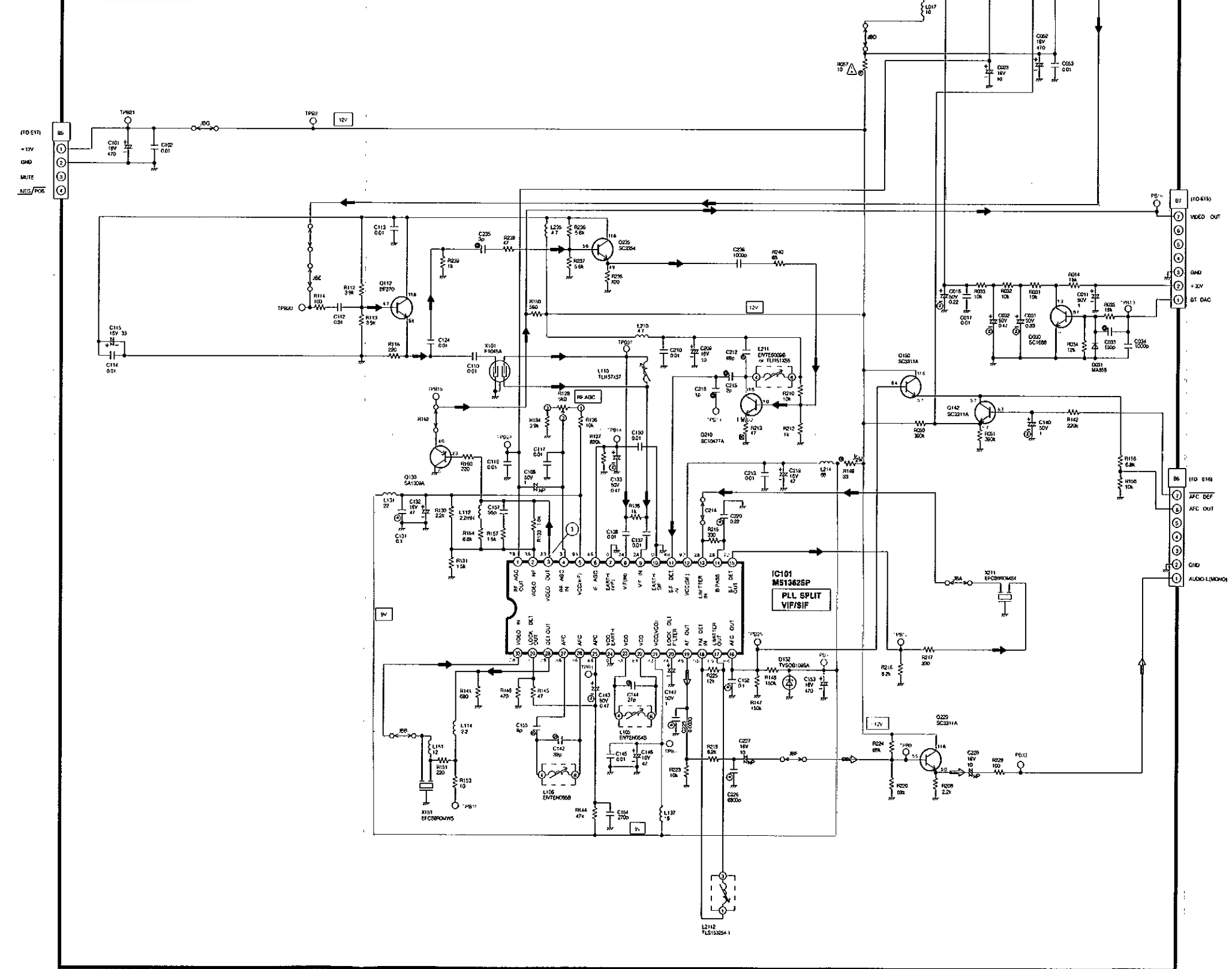




**C BOARD Δ**  
TNP107803AF



**B BOARD Δ**  
TNP107801





## REPLACEMENT PARTS LIST

**Important Safety Notice**

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

Ref No.	Part No.	Description	
<b>MISCELLANEOUS COMPONENTS</b>			
1)	A51JXS95X05	C.R.T.	$\Delta$
2)	TKY8E023	CABINET	$\Delta$
3)	TKU8E00143	REAR COVER	$\Delta$
4)	TKP8E1097	TOP COVER	
5)	TKK188530	SCREW COVER (R SIDE)	
	TKK188535	SCREW COVER (L SIDE)	
6)	EAS12D528KAG	SPEAKER	
7)	TKP1758141	SPEAKER NET	
8)	TLK8E05106	DEGAUSSING COIL	
9)	TKP1812441	DOOR	
10)	TKP1812461	SMOKED PANEL	
11)	TBM153010	PANASONIC BADGE	
12)	TEK6935	LID SWITCH	
13)	TBX8E015	POWER BUTTON	
14)	TES2281	SPRING (POWER BUTTON)	
15)	TKK188522-2	SPACER	
16)	TBM170472	INDICATION SHEET	
17)	TMK18087	RUBBER FOOT	
18)	TBM8E1303	REAR COVER LABEL	
19)	TMX17208	P PRINT BRACKET	
20)	TNP197069AG	E P.C.B.	$\Delta$
21)	TNP107842AB	P P.C.B.	$\Delta$
22)	TNP107801	B P.C.B.	$\Delta$
23)	TNP107803AF	C P.C.B.	$\Delta$
24)	TNP107846AH	H P.C.B.	$\Delta$
25)	TNP107811	N P.C.B.	$\Delta$
26)	TNP107871AA	Y P.C.B.	$\Delta$
27)	ENV87851F2	TUNER	$\Delta$
28)	TMZ189824	CHASSIS RAIL	
29)	TSX8E0012	MAINS LEAD $\Delta$	
30)	TJB17694	A.V. TERMINAL	
31)	TJB17695	S-VHS/AUDIO TERMINAL	
32)	TJS5A9240	21 PIN TERMINAL (BACK)	
33)	TNQ8E0448	REMOTE CONTROL	
34)	EUR64EC1169	BATTERY COVER	
	TMW27182	TUNER BRACKET (TOP)	
	TMW27185	TUNER BRACKET (BOTTOM)	
	TPC8E4395	OUTER CARTON	
	TPD191582	TOP CUSHION	
	TPD192577	BOTTOM CUSHION	
	TQB8E0805	INSTRUCTION BOOK $\Delta$	
	TLK8E05106	COIL	
F801	2133.15	FUSE	$\Delta$
	EYF52BC	FUSE HOLDER	$\Delta$
<b>TV STAND COMPONENTS</b>			
	TS2128	T.V. STAND (COMPLETE)	
	TZS9EW060	BASE CASTING (LEFT)	
	TZS9EW061	BASE CASTING (RIGHT)	
	TZS9EW062	STAND UPRIGHT (LEFT)	
	TZS9EW063	STAND UPRIGHT (RIGHT)	
	TZS9EW064	VIDEO SHELF	
	TZS9EW066	BLANKING PANEL	
	TZS9EW065	BACK PANEL	
	TZS9EW007	CASTORS	
	TZS9EW053	SCREW PACK	
	TZS9EW059	TOP PLATE	

Ref No.	Part No.	Description		
<b>SURFACE MOUNTED LINKS</b>				
JC.10	ERJ6GMY0R00	S.M. WIRE LINK		
JC.11	ERJ6GMY0R00	S.M. WIRE LINK		
JC.12	ERJ6GMY0R00	S.M. WIRE LINK		
JC.13	ERJ6GMY0R00	S.M. WIRE LINK		
JC.14	ERJ6GMY0R00	S.M. WIRE LINK		
JC.15	ERJ6GMY0R00	S.M. WIRE LINK		
JC.16	ERJ6GMY0R00	S.M. WIRE LINK		
JC.17	ERJ6GMY0R00	S.M. WIRE LINK		
JC.20	ERJ6GMY0R00	S.M. WIRE LINK		
JC.21	ERJ6GMY0R00	S.M. WIRE LINK		
JC.23	ERJ6GMY0R00	S.M. WIRE LINK		
JC.1	ERJ6GMY0R00	S.M. WIRE LINK		
JC.2	ERJ6GMY0R00	S.M. WIRE LINK		
JC.3	ERJ6GMY0R00	S.M. WIRE LINK		
JC.4	ERJ6GMY0R00	S.M. WIRE LINK		
JC.5	ERJ6GMY0R00	S.M. WIRE LINK		
JC.6	ERJ6GMY0R00	S.M. WIRE LINK		
JC.8	ERJ6GMY0R00	S.M. WIRE LINK		
JC.9	ERJ6GMY0R00	S.M. WIRE LINK		
JCB.K	ERJ6GMY0R00	S.M. WIRE LINK		
JCC.K	ERJ6GMY0R00	S.M. WIRE LINK		
JCK.K	ERJ6GMY0R00	S.M. WIRE LINK		
JCM.K	ERJ6GMY0R00	S.M. WIRE LINK		
<b>CAPACITORS</b>				
C011	ECEA1HU010	ELECT	50V	1 $\mu$ F
C016	ECEA1HUR22	ELECT	50V	0.22 $\mu$ F
C017	ECKC1H103JB	CERAMIC	50V	10nF
C023	ECEA16Z10	ELECT	16V	10 $\mu$ F
C031	ECEA50ZR33	ELECT	50V	0.33 $\mu$ F
C032	ECEA50ZR47	ELECT	50V	0.47 $\mu$ F
C033	ECCR1H151J	CERAMIC	50V	150pF
C034	ECKC1H102J	CERAMIC	50V	1000pF
C050	ECEA50Z1	ELECT	50V	1 $\mu$ F
C052	ECEA1CU471	ELECT	16V	470 $\mu$ F
C053	ECKC1H103JB	CERAMIC	50V	10nF
C056	ECEA1CU100	ELECT	16V	10 $\mu$ F
C070	ECEA1HU010	ELECT	50V	1 $\mu$ F
C101	ECEA1CU471	ELECT	16V	470 $\mu$ F
C102	ECKC1H103JB	CERAMIC	50V	10nF
C106	ECEA1HN010	ELECT	50V	1 $\mu$ F
C110	ECKC1H103JB	CERAMIC	50V	10nF
C112	ECKC1H103JB	CERAMIC	50V	10nF
C113	ECKC1H103JB	CERAMIC	50V	10nF
C114	ECKC1H103JB	CERAMIC	50V	10nF
C115	ECEA1CU330	ELECT	16V	33 $\mu$ F
C116	ECKC1H103JB	CERAMIC	50V	10nF
C117	ECKC1H103JB	CERAMIC	50V	10nF
C124	ECKC1H103JB	CERAMIC	50V	10nF
C131	ECQM1H104J	FILM	50V	100nF
C132	ECEA1CU470	ELECT	16V	47 $\mu$ F
C133	ECEA50ZR47	ELECT	50V	0.47 $\mu$ F
C137	ECKC1H103JB	CERAMIC	50V	10nF
C138	ECKC1H103JB	CERAMIC	50V	10nF
C140	ECEA1HU010	ELECT	50V	1 $\mu$ F
C142	ECCR1H390J	CERAMIC	50V	39pF
C143	ECEA50ZR47	ELECT	50V	0.47 $\mu$ F
C144	ECCR1H270J	CERAMIC	50V	27pF

Ref No.	Part No.	Description		
C145	ECKC1H103JB	CERAMIC	50V	10nF
C146	ECEA1CU470	ELECT	16V	47μF
C147	ECEA1HU010	ELECT	50V	1μF
C150	ECKC1H103JB	CERAMIC	50V	10nF
C152	ECQM1H104J	FILM	50V	100nF
C153	ECEA1CU471	ELECT	16V	470μF
C154	ECKC1H271J	CERAMIC	50V	270pF
C155	ECCR1H080C	CERAMIC	50V	8pF
C157	ECCR1H560J	CERAMIC	50V	56pF
C201	ECEA1CU101	ELECT	16V	100μF
C209	ECEA1CU100	ELECT	16V	10μF
C210	ECKC1H103JB	CERAMIC	50V	10nF
C211	ECEA1HU2R2	ELECT	50V	2.2μF
C212	ECCR1H680J	CERAMIC	50V	68pF
C213	ECKC1H103JB	CERAMIC	50V	10nF
C215	ECCR1H020J	CERAMIC	50V	2pF
C216	ECCR1H010J	CERAMIC	50V	1pF
C217	ECEA1CU471	ELECT	16V	470μF
C219	ECEA1CU470	ELECT	16V	47μF
C220	ECQM1H224J	FILM	50V	220nF
C225	ECQB1H332K	FILM	50V	3.3nF
C226	ECQB1H682K	FILM	50V	6.8nF
C227	ECEA1CN100	ELECT	16V	10μF
C229	ECEA1CN100	ELECT	16V	10μF
C235	ECCR1H030J	CERAMIC	50V	3pF
C236	ECKC1H102J	CERAMIC	50V	1000pF
C258	ECQM1H474J	FILM	50V	470nF
C262	ECQB1H332K	FILM	50V	3.3nF
C263	ECEA1EU471	ELECT	25V	470μF
C264	ECQM1H104J	FILM	50V	100nF
C269	ECQB1H153K	FILM	50V	15nF
C272	ECEA1EU471	ELECT	25V	470μF
C273	ECEA1CU330	ELECT	16V	33μF
C280	ECEA1EU101	ELECT	25V	100μF
C302	ECQM1H104J	FILM	50V	100nF
C303	ECUV1H470JM	S.M. CAP	50V	47pF
C304	ECEA1HUR47	ELECT	50V	0.47μF
C305	ECEA1CN330	ELECT	16V	33μF
C306	ECEA1HUR47	ELECT	50V	0.47μF
C307	ECEA1CU100	ELECT	16V	10μF
C309	ECEA1HU010	ELECT	50V	1μF
C312	ECEA1CU470	ELECT	16V	47μF
C315	ECEA1EN4R7	ELECT	25V	4.7μF
C351	ECCR1H331J	CERAMIC	50V	330pF
C352	ECCR1H331J	CERAMIC	50V	330pF
C353	ECCR1H271J	CERAMIC	50V	270pF
C355	ECKC3D152J	CERAMIC	2KV	1.5nF
C357	ECKC2H152J	CERAMIC	500V	1.5nF
C358	ECEA1HU220	ELECT	50V	22μF
C360	ECEA1CU101	ELECT	16V	100μF
C362	ECKC1H102J	CERAMIC	50V	1000pF
C368	ECEA2EU010	ELECT	250V	1μF
C369	ECEA1HUR47	ELECT	50V	0.47μF
C401	ECQB1H153K	FILM	50V	15nF
C402	ECSF25E3R3	TANT	25V	3.3μF
C403	ECKC1H103JB	CERAMIC	50V	10nF
C421	ECUV1H560JM	S.M. CAP	50V	56pF
C451	ECEA1CU471	ELECT	16V	470μF
C452	ECKC1H103JB	CERAMIC	50V	10nF
C453	ECSF25E1YB	TANT	25V	1μF
C454	ECEA1VU101	ELECT	35V	100μF
C455	ECEA1VU102	ELECT	35V	1000μF
C456	ECEA1HFS010	ELECT	50V	1μF
C457	ECQM1H104J	FILM	50V	100nF
C458	ECEA1VU222	ELECT	35V	2200μF
C459	ECQB1H103J	FILM	50V	10nF
C481	ECQ31H273J	FILM	50V	27nF
C482	ECCR1H471J	CERAMIC	50V	470pF
C502	ECQB1H153K	FILM	50V	15nF
C503	ECKC1H103JB	CERAMIC	50V	10nF
C504	ECEA1EU4R7	ELECT	25V	4.7μF

Ref No.	Part No.	Description		
C505	ECEA1HN010	ELECT	50V	1μF
C507	ECCR1H470J	CERAMIC	50V	47pF
C508	ECEA1CU470	ELECT	16V	47μF
C509	ECKC1H821J	CERAMIC	50V	820pF
C510	ECUV1H221KBM	S.M. CAP	50V	220pF
C521	ECEA1HUR47	ELECT	50V	0.47μF
C522	ECEA1CU100	ELECT	16V	10μF
C523	ECCR1H181J	CERAMIC	50V	180pF
C524	ECCR1H181J	CERAMIC	50V	180pF
C525	ECEA1AU101	ELECT	10V	100μF
C526	ECKC1H471J	CERAMIC	50V	470pF
C527	ECEA1CU470	ELECT	16V	47μF
C528	ECCR1H120J	CERAMIC	50V	12pF
C529	ECKC1H103JB	CERAMIC	50V	10nF
C531	ECKC2H332J	CERAMIC	500V	3.3nF
C532	ECKC2H332J	CERAMIC	500V	3.3nF
C533	ECCR2H330J	CERAMIC	500V	33pF
C541	ECEA1HU2R2	ELECT	50V	2.2μF
C542	ECEA1JU100	ELECT	63V	10μF
C543	ECEA1CU100	ELECT	16V	10μF
C551	ECEA2CGE4R7	ELECT	160V	4.7μF
C552	ECWF2H394JZ	CERAMIC	500V	390nF
C553	ECEA2CU3R3	ELECT	160V	3.3μF
C554	ECEA2EU100	ELECT	250V	10μF
C555	ECKC2H471J	CERAMIC	500V	470pF
C556	ECKC3D391J	CERAMIC	2KV	390pF
C557	ECKC3D102J	CERAMIC	2KV	1nF
C558	ECWH12H822J	CERAMIC	500V	8.2nF
C564	ECEA1VU101	ELECT	35V	100μF
C565	ECKC2H471J	CERAMIC	500V	470pF
C566	ECKC2H471J	CERAMIC	500V	470pF
C567	ECKC3D152J	CERAMIC	2KV	1.5nF
C569	ECQB1H563K	FILM	50V	56nF
C570	ECEA1HU220	ELECT	50V	22μF
C571	ECEA0JU101	ELECT	6.3V	100μF
C576	ECEA1CU471	ELECT	16V	470μF
C601	ECEA1CU221	ELECT	16V	220μF
C602	ECQB1H103J	FILM	50V	10nF
C603	ECQB1H103J	FILM	50V	10nF
C604	ECEA1CU471	ELECT	16V	470μF
C605	ECUV1H103ZFM	S.M. CAP	50V	10nF
C606	ECEA1CU102	ELECT	16V	1000μF
C607	ECUV1H103ZFM	S.M. CAP	50V	10nF
C609	ECQM1H334J	FILM	50V	330nF
C611	ECEA1HUR47	ELECT	50V	0.47μF
C612	ECQM1H334J	FILM	50V	330nF
C613	ECEA1HUR47	ELECT	50V	0.47μF
C614	ECQM1H334J	FILM	50V	330nF
C615	ECEA1HUR47	ELECT	50V	0.47μF
C616	ECCR1H101J	CERAMIC	50V	100pF
C617	ECRLA020E53R	TRIMMER		20pF
C619	ECQM1H104J	FILM	50V	100nF
C620	ECEA1HN2R2	ELECT	50V	2.2μF
C621	ECQM1H104J	FILM	50V	100nF
C622	ECQM1H334J	FILM	50V	330nF
C623	ECEA1VU4R7	ELECT	35V	4.7μF
C624	ECEA1HUR47	ELECT	50V	0.47μF
C625	ECQB1H103J	FILM	50V	10nF
C626	ECQM1H104J	FILM	50V	100nF
C627	ECQB1H103J	FILM	50V	10nF
C628	ECQM1562JZ	FILM	100V	5.6nF
C629	ECQB1H103J	FILM	50V	10nF
C630	ECUV1H103ZFM	S.M. CAP	50V	10nF
C632	ECEA1CU101	ELECT	16V	100μF
C633	ECCR1H470J	CERAMIC	50V	47pF
C634	ECCR1H470J	CERAMIC	50V	47pF
C635	ECCR1H560J	CERAMIC	50V	56pF
C649	ECKC1H103JB	CERAMIC	50V	10nF
C802	ECQM2A473MW	FILM	200V	47nF
C803	ECKC2H472J	CERAMIC	500V	4.7nF

Ref No.	Part No.	Description				
C804	ECKC2H472J	CERAMIC	500V	4.7nF	△	
C805	ECKC2H472J	CERAMIC	500V	4.7nF	△	
C806	ECKC2H472J	CERAMIC	500V	4.7nF	△	
C807	ECOS2GA181DA	ELECT	400V	180μF		
C808	ECEA1HFS100	ELECT	50V	10μF		
C809	ECEA0JU101	ELECT	6.3V	100μF		
C810	ECQMG473KZ	FILM	600V	47nF		
C813	ECKCNS332J	CERAMIC	1.2KV	3.3nF	△	
C815	ECKC2H471J	CERAMIC	500V	470pF	△	
C817	ECKC1H332J	CERAMIC	50V	3300pF		
C818	ECKCNS102J	CERAMIC	1.2KV	1nF	△	
C819	ECQM2A473MW	FILM	200V	47nF		
C820	ECKC3A222J	CERAMIC	1KV	2200pF	△	
C851	ECKC3A152J	CERAMIC	1KV	1500pF	△	
C853	ECKC2H561J	CERAMIC	500V	560pF	△	
C854	ECA2CGE221	ELECT	160V	220μF		
C856	ECEA1EU471	ELECT	25V	470μF		
C857	ECKC2H471J	CERAMIC	500V	470pF	△	
C858	ECEA1EGE102	ELECT	25V	1000μF		
C860	ECKC1H103JB	CERAMIC	50V	10nF		
C861	ECEA1CU101	ELECT	16V	100μF		
C863	ECQM1H104J	FILM	50V	100nF		
C864	ECEA1CU100	ELECT	16V	10μF		
C866	ECEA1EN100	ELECT	25V	10μF		
C1134	ECKC1H271J	CERAMIC	50V	270pF		
C1136	ECEA0JU101	ELECT	6.3V	100μF		
C1201	ECKC1H103JB	CERAMIC	50V	10nF		
C1204	ECCR1H101J	CERAMIC	50V	100pF		
C1205	ECQB1H103J	FILM	50V	10nF		
C1206	ECEA1CU102	ELECT	16V	1000μF		
C1207	ECCR1H121J	CERAMIC	50V	120pF		
C1208	ECQM1H104J	FILM	50V	100nF		
C1210	ECKC1H103JB	CERAMIC	50V	10nF		
C1214	ECEA0JU221	ELECT	6.3V	220μF		
C1217	ECKC1H103JB	CERAMIC	50V	10nF		
C1219	ECCR1H680J	CERAMIC	50V	68pF		
C1221	ECKC1H103JB	CERAMIC	50V	10nF		
C1222	ECEA0JU471	ELECT	6.3V	470μF		
C1227	ECKC1H103JB	CERAMIC	50V	10nF		
C1235	ECEA1HU2R2	ELECT	50V	2.2μF		
C1236	ECEA1HU2R2	ELECT	50V	2.2μF		
C1237	ECKC1H472J	CERAMIC	50V	4.7nF		
C1239	ECCR1H560J	CERAMIC	50V	56pF		
C1246	ECKC1H102J	CERAMIC	50V	1000pF		
C1247	ECKC1H181J	CERAMIC	50V	180pF		
C1249	ECQM1H104J	FILM	50V	100nF		
C1250	EXFP6471ZF	NETWORK				
C1251	ECKC1H101J	CERAMIC	50V	100pF		
C1253	ECCR1H101J	CERAMIC	50V	100pF		
C1256	ECEA0JU471	ELECT	6.3V	470μF		
C1257	ECKC1H101J	CERAMIC	50V	100pF		
C1258	ECCR1H220J	CERAMIC	50V	22pF		
C1259	ECKC1H271J	CERAMIC	50V	270pF		
C1260	ECCR1H121J	CERAMIC	50V	120pF		
C1261	ECKC1H102J	CERAMIC	50V	1000pF		
C1263	ECKC1H103JB	CERAMIC	50V	10nF		
C1264	ECKC1H471J	CERAMIC	50V	470pF		
C1265	ECKC1H471J	CERAMIC	50V	470pF		
C1266	ECKC1H471J	CERAMIC	50V	470pF		
C1267	ECKC1H471J	CERAMIC	50V	470pF		
C1269	ECCR1H121J	CERAMIC	50V	120pF		
C1270	ECCR1H220J	CERAMIC	50V	22pF		
C1272	ECCR1H471J	CERAMIC	50V	470pF		
C1273	ECKC1H102J	CERAMIC	50V	1000pF		
C1274	ECKC1H152J	CERAMIC	50V	1.5nF		
C1275	ECEA50ZR1	ELECT	50V	0.1μF		
C1276	ECEA50ZR3	ELECT	50V	3.3μF		
C1301	ECEA1HU3R3	ELECT	50V	3.3μF		
C1302	ECKC1H103JB	CERAMIC	50V	10nF		
C1303	ECQB1H393K	FILM	50V	39nF		

Ref No.	Part No.	Description				
C1304	ECQB1H103J	FILM	50V	10nF		
C2605	ECEA1HN010	ELECT	50V	1μF		
C2606	ECEA1CU471	ELECT	16V	470μF		
C2611	ECEA1CU470	ELECT	16V	47μF		
C2625	ECQM1H334J	FILM	50V	330nF		
C2626	ECEA1HN010	ELECT	50V	1μF		
C2628	ECKC1H102J	CERAMIC	50V	1000pF		
C2630	ECEA1CN100	ELECT	16V	10μF		
C2631	ECEA1CN100	ELECT	16V	10μF		
C2632	ECEA1CN100	ELECT	16V	10μF		
C2635	ECEA1AN470	CAPACITOR	10V	47μF		
C2636	ECEA1CN100	ELECT	16V	10μF		
C2638	ECKC1H103JB	CERAMIC	50V	10nF		
C2640	ECEA1CU471	ELECT	16V	470μF		
C2641	ECEA1CN470	ELECT	16V	47μF		
C2642	ECEA1CN100	ELECT	16V	10μF		
C2651	ECUV1H103ZFM	S.M. CAP	50V	10nF		
C2652	ECEA1CN330	ELECT	16V	33μF		
C2653	ECEA1CU470	ELECT	16V	47μF		
C2656	ECEA1CN100	ELECT	16V	10μF		
C2657	ECEA1CU331	ELECT	16V	330μF		
C2658	ECQM1H104J	FILM	50V	100nF		
C2659	ECUV1H103ZFM	S.M. CAP	50V	10nF		
C2660	ECQM1H104J	FILM	50V	100nF		
C2662	ECQB1H103J	FILM	50V	10nF		
C2670	ECEA1CU471	ELECT	16V	470μF		
C2690	ECQM1H224J	FILM	50V	220nF		
C3301	ECQM1H104J	FILM	50V	100nF		
C3302	ECEA1CU471	ELECT	16V	470μF		
C3303	ECEA1HU3R3	ELECT	50V	3.3μF		
C3304	ECKC1H103JB	CERAMIC	50V	10nF		
C3305	ECQB1H332K	FILM	50V	3.3nF		
C3502	ECQM1H104J	FILM	50V	100nF		
C3503	ECQM1H334J	FILM	50V	330nF		
C3504	ECEA1EU330	ELECT	25V	33μF		
C3506	ECEA1HUR47	ELECT	50V	0.47μF		
C3507	ECEA1CU471	ELECT	16V	470μF		
C3508	ECKC1H103JB	CERAMIC	50V	10nF		
C3516	ECEA1CU471	ELECT	16V	470μF		
C3521	ECQM1H104J	FILM	50V	100nF		
C3522	ECEA1HU2R2	ELECT	50V	2.2μF		
C3523	ECEA0JU101	ELECT	6.3V	100μF		
C3524	ECEA1CU101	ELECT	16V	100μF		
C3525	ECEA1CU470	ELECT	16V	47μF		
C3526	ECKC1H103JB	CERAMIC	50V	10nF		
C3527	ECCR1H220J	CERAMIC	50V	22pF		
C3528	ECCR1H150J	CERAMIC	50V	15pF		
C3532	ECQM1H104J	FILM	50V	100nF		
C3533	ECQB1H104J	FILM	50V	100nF		
C3534	ECEA1CU101	ELECT	16V	100μF		
C3536	ECKC1H103JB	CERAMIC	50V	10nF		
C3544	ECCR1H150J	CERAMIC	50V	15pF		
C3545	ECCR1H270J	CERAMIC	50V	27pF		
C3546	ECKC1H103JB	CERAMIC	50V	10nF		
C3548	ECEA0JU101	ELECT	6.3V	100μF		
C3550	ECEA1HN010	ELECT	50V	1μF		
C3552	ECKC1H103JB	CERAMIC	50V	10nF		
C3553	ECEA1CU221	ELECT	16V	220μF		
C3555	ECEA0JN101	ELECT	6.3V	100μF		
C3557	ECCR1H221J	CERAMIC	50V	220pF		
C3561	ECEA50Z1	ELECT	50V	1μF		
C3563	ECEA1CU101	ELECT	16V	100μF		
C3564	ECKC1H103JB	CERAMIC	50V	10nF		
C3565	ECKC1H102J	CERAMIC	50V	1000pF		
C3566	ECKC1H471J	CERAMIC	50V	470pF		
C3567	ECKC1H471J	CERAMIC	50V	470pF		
C3568	ECKC1H471J	CERAMIC	50V	470pF		
C3570	ECEA0JU471	ELECT	6.3V	470μF		
C3571	ECQM1H104J	FILM	50V	100nF		
C3572	ECEA1CU100	ELECT	16V	10μF		

Ref No.	Part No.	Description		
C3573	ECKC1H103JB	CERAMIC	50V	10nF
C3574	ECEA1CN100	ELECT	16V	10μF
C3575	ECEA1CN100	ELECT	16V	10μF
C3576	ECEA1CN100	ELECT	16V	10μF
<b>RESISTORS</b>				
R014	ERD25TJ153	CARBON	0.25W	5% 15KΩ
R031	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R032	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R033	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R034	ERD25TJ123	CARBON	0.25W	5% 12KΩ
R035	ERD25TJ183	CARBON	0.25W	5% 18KΩ
R050	ERD25TJ394	CARBON	0.25W	5% 390KΩ
R051	ERD25TJ394	CARBON	0.25W	5% 390KΩ
R057	ERQ14AJ100	METAL	0.25W	5% 10Ω
R070	ERG5SJ153	METAL	5W	5% 15KΩ
R112	ERD25TJ392	CARBON	0.25W	5% 3K9Ω
R113	ERD25TJ392	CARBON	0.25W	5% 3K9Ω
R114	ERD25TJ101	CARBON	0.25W	5% 100Ω
R115	ERD25TJ221	CARBON	0.25W	5% 220Ω
R128	EVNDCAA03B53	CONTROL		5KΩ
R130	ERD25TJ222	CARBON	0.25W	5% 2K2Ω
R131	ERD25TJ152	CARBON	0.25W	5% 1K5Ω
R133	ERD25TJ182	CARBON	0.25W	5% 1K8Ω
R134	ERD25TJ392	CARBON	0.25W	5% 3K9Ω
R136	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R137	ERD25TJ824	CARBON	0.25W	5% 820KΩ
R138	ERD25TJ102	CARBON	0.25W	5% 1KΩ
R141	ERD25TJ681	CARBON	0.25W	5% 680Ω
R142	ERD25TJ224	CARBON	0.25W	5% 220KΩ
R144	ERD25TJ473	CARBON	0.25W	5% 47KΩ
R145	ERD25TJ470	CARBON	0.25W	5% 47Ω
R146	ERD25TJ471	CARBON	0.25W	5% 470Ω
R147	ERD25TJ154	CARBON	0.25W	5% 150KΩ
R148	ERD25TJ154	CARBON	0.25W	5% 150KΩ
R149	ERQ12HJ330	METAL	0.5W	5% 33Ω
R150	ERD25TJ561	CARBON	0.25W	5% 560Ω
R151	ERD25TJ221	CARBON	0.25W	5% 220Ω
R153	ERD25TJ100	CARBON	0.25W	5% 10Ω
R154	ERD25TJ682	CARBON	0.25W	5% 6K8Ω
R155	ERD25TJ682	CARBON	0.25W	5% 6K8Ω
R156	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R157	ERD25TJ152	CARBON	0.25W	5% 1K5Ω
R160	ERD25TJ221	CARBON	0.25W	5% 220Ω
R206	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R208	ERD25TJ222	CARBON	0.25W	5% 2K2Ω
R210	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R212	ERD25TJ102	CARBON	0.25W	5% 1KΩ
R213	ERG1ANJ470	METAL	1W	5% 47Ω
R214	ERD25TJ102	CARBON	0.25W	5% 1KΩ
R215	ERD25TJ331	CARBON	0.25W	5% 330Ω
R216	ERD25TJ822	CARBON	0.25W	5% 8K2Ω
R217	ERD25TJ331	CARBON	0.25W	5% 330Ω
R219	ERD25TJ822	CARBON	0.25W	5% 8K2Ω
R220	ERD25TJ683	CARBON	0.25W	5% 68KΩ
R221	ERQ14AJ560	METAL	0.25W	5% 56Ω
R223	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R224	ERD25TJ683	CARBON	0.25W	5% 68KΩ
R225	ERD25TJ123	CARBON	0.25W	5% 12KΩ
R229	ERD25TJ101	CARBON	0.25W	5% 100Ω
R235	ERD25TJ821	CARBON	0.25W	5% 820Ω
R236	ERD25TJ562	CARBON	0.25W	5% 5K6Ω
R237	ERD25TJ562	CARBON	0.25W	5% 5K6Ω
R238	ERD25TJ470	CARBON	0.25W	5% 47Ω
R239	ERD25TJ102	CARBON	0.25W	5% 1KΩ
R240	ERD25TJ680	CARBON	0.25W	5% 68Ω
R260	ERD25TJ2R2	CARBON	0.25W	5% 2R2Ω
R262	ERD25TJ471	CARBON	0.25W	5% 470Ω
R266	ERD25TJ472	CARBON	0.25W	5% 4K7Ω

Ref No.	Part No.	Description		
R283	ERD25TJ472	CARBON	0.25W	5% 4K7Ω
R288	ERDS1FJ1R0	CARBON	0.5W	5% 1Ω
R302	EVNDXAA00B54	CONTROL		50KΩ
R303	ERD25TJ152	CARBON	0.25W	5% 1K5Ω
R304	ERD25TJ222	CARBON	0.25W	5% 2K2Ω
R305	ERJ6GMYJ152	S.M.CARB	0.1W	5% 1K5Ω
R306	ERJ6GMYJ332	S.M.CARB	0.1W	5% 3K3Ω
R307	ERJ6GMYJ272	S.M.CARB	0.1W	5% 2K7Ω
R308	ERD25TJ102	CARBON	0.25W	5% 1KΩ
R309	ERJ6GMYJ221	S.M.CARB	0.1W	5% 220Ω
R310	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R311	ERJ6GMYJ681	S.M.CARB	0.1W	5% 680Ω
R312	ERJ6GMYJ152	S.M.CARB	0.1W	5% 1K5Ω
R313	ERJ6GMYJ101	S.M.CARB	0.1W	5% 100Ω
R316	ERD25TJ153	CARBON	0.25W	5% 15KΩ
R317	ERD25TJ100	CARBON	0.25W	5% 10Ω
R318	ERD25TJ473	CARBON	0.25W	5% 47KΩ
R319	ERD25TJ100	CARBON	0.25W	5% 10Ω
R320	ERD25TJ100	CARBON	0.25W	5% 10Ω
R321	EVNDCAA03B54	CONTROL		50KΩ
R322	ERD25TJ334	CARBON	0.25W	5% 330KΩ
R323	ERD25TJ223	CARBON	0.25W	5% 22KΩ
R324	ERJ6GMYJ151	S.M.CARB	0.1W	5% 150Ω
R325	ERJ6GMYJ563	S.M.CARB	0.1W	5% 56KΩ
R326	ERD25TJ183	CARBON	0.25W	5% 18KΩ
R327	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R328	ERJ6GMYJ102	S.M.CARB	0.1W	5% 1KΩ
R329	ERJ6GMYJ152	S.M.CARB	0.1W	5% 1K5Ω
R330	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R331	ERD25TJ473	CARBON	0.25W	5% 47KΩ
R338	ERD25TJ101	CARBON	0.25W	5% 100Ω
R341	ERD25TJ123	CARBON	0.25W	5% 12KΩ
R342	ERD25TJ152	CARBON	0.25W	5% 1K5Ω
R345	ERD25TJ563	CARBON	0.25W	5% 56KΩ
R346	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R347	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R348	ERD25TJ225	CARBON	0.25W	5% 2M2Ω
R351	ERG2ANJ822	METAL	2W	5% 8K2Ω
R352	ERG2ANJ822	METAL	2W	5% 8K2Ω
R353	ERG2ANJ822	METAL	2W	5% 8K2Ω
R354	ERD25TJ181	CARBON	0.25W	5% 180Ω
R355	ERD25TJ271	CARBON	0.25W	5% 270Ω
R356	ERD25TJ181	CARBON	0.25W	5% 180Ω
R357	EVN65UA00B22	CONTROL		200Ω
R358	EVN65UA00B22	CONTROL		200Ω
R359	ERD25TJ471	CARBON	0.25W	5% 470Ω
R360	ERD25TJ471	CARBON	0.25W	5% 470Ω
R361	ERD25TJ471	CARBON	0.25W	5% 470Ω
R362	EVN65UA00B53	CONTROL		5KΩ
R364	EVN65UA00B53	CONTROL		5KΩ
R365	ERDS1FJ152	CARBON	0.5W	5% 1K5Ω
R366	ERDS1TJ152	CARBON	0.5W	5% 1K5Ω
R367	ERDS1TJ152	CARBON	0.5W	5% 1K5Ω
R369	EVN65UA00B53	CONTROL		5KΩ
R374	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R376	ERD25TJ103	CARBON	0.25W	5% 10KΩ
R377	ERD25TJ391	CARBON	0.25W	5% 390Ω
R378	ERD25TJ274	CARBON	0.25W	5% 270KΩ
R379	ERD25TJ393	CARBON	0.25W	5% 39KΩ
R380	ERD25TJ684	CARBON	0.25W	5% 680KΩ
R401	EVNDCAA03B25	CONTROL		200KΩ
R403	EVNDCAA03B14	CONTROL		10KΩ
R404	ERJ6GMYJ822	S.M.CARB	0.1W	5% 8K2Ω
R405	ERJ6GMYJ272	S.M.CARB	0.1W	5% 2K7Ω
R406	ERJ6GMYJ100	S.M.CARB	0.1W	5% 10Ω
R407	ERJ6GMYJ393	S.M.CARB	0.1W	5% 39KΩ
R408	ERJ6GMYJ103	S.M.CARB	0.1W	5% 10KΩ
R450	ERD25TJ155	CARBON	0.25W	5% 1M5Ω
R451	ERD25TJ273	CARBON	0.25W	5% 27KΩ
R452	ERD25TJ223	CARBON	0.25W	5% 22KΩ
R453	ERQ12HJU3R9	METAL	0.5W	5% 3R9Ω

Ref No.	Part No.	Description		
R454	ERD25TJ223	CARBON 0.25W	5%	22KΩ
R455	EVNDCAA03B15	CONTROL		100KΩ
R456	ERD25TJ223	CARBON 0.25W	5%	22KΩ
R457	ERD25TJ101	CARBON 0.25W	5%	100Ω
R458	ERD25TJ393	CARBON 0.25W	5%	39KΩ
R459	ERDS1TJ1R2	CARBON 0.5W	5%	1R2Ω
R460	ERD25TJ183	CARBON 0.25W	5%	18KΩ
R461	ERD25TJ473	CARBON 0.25W	5%	47KΩ
R462	ERD25TJ242	CARBON 0.25W	5%	2K4Ω
R463	ERDS1TJ471	CARBON 0.5W	5%	470Ω
R464	ERD25TJ821	CARBON 0.25W	5%	820Ω
R465	ERD25TJ102	CARBON 0.25W	5%	1KΩ
R466	ERD25TJ103	CARBON 0.25W	5%	10KΩ
R467	ERD25TJ223	CARBON 0.25W	5%	22KΩ
R469	ERD25TJ563	CARBON 0.25W	5%	56KΩ
R470	ERDS1TJ152	CARBON 0.5W	5%	1K5Ω
R471	ERD25TJ155	CARBON 0.25W	5%	1M5Ω
R472	ERD25TJ394	CARBON 0.25W	5%	390KΩ
R482	TSF19631	FS LINK		△
R501	ERG3FJ682H	METAL 3W	5%	6K8Ω △
R503	ERD25TJ821	CARBON 0.25W	5%	820Ω
R504	ERD25TJ333	CARBON 0.25W	5%	33KΩ
R505	ERD25TJ242	CARBON 0.25W	5%	2K4Ω
R506	EVNDXAA00B14	CONTROL		10KΩ
R507	ERD25TJ272	CARBON 0.25W	5%	2K7Ω
R508	ERD25TJ104	CARBON 0.25W	5%	100KΩ
R509	EVNDCAA03B15	CONTROL		100KΩ
R510	ERD25TJ332	CARBON 0.25W	5%	3K3Ω
R511	ERD25TJ100	CARBON 0.25W	5%	10Ω
R512	ERO25CKF5111	METAL 0.25W	1%	5K11Ω △
R513	ERJ6GMYJ471	S.M.CARB 0.1W	5%	470Ω
R514	ERJ6GMYJ562	S.M.CARB 0.1W	5%	5K6Ω
R515	ERD25TJ471	CARBON 0.25W	5%	470Ω
R516	ERD25TJ101	CARBON 0.25W	5%	100Ω
R518	ERD25TJ222	CARBON 0.25W	5%	2K2Ω
R520	ERJ6GMYJ100	S.M.CARB 0.1W	5%	10Ω
R521	ERD25TJ221	CARBON 0.25W	5%	220Ω
R522	ERD25TJ471	CARBON 0.25W	5%	470Ω
R523	ERD25TJ684	CARBON 0.25W	5%	680KΩ
R524	ERD25TJ222	CARBON 0.25W	5%	2K2Ω
R525	ERD25TJ104	CARBON 0.25W	5%	100KΩ
R526	ERD25TJ273	CARBON 0.25W	5%	27KΩ
R527	ERD25TJ224	CARBON 0.25W	5%	220KΩ
R528	ERD25TJ222	CARBON 0.25W	5%	2K2Ω
R529	ERD25TJ102	CARBON 0.25W	5%	1KΩ
R530	ERD25TJ101	CARBON 0.25W	5%	100Ω
R531	ERG2ANJ392	METAL 2W	5%	3K9Ω
R532	ERD25TJ561	CARBON 0.25W	5%	560Ω
R534	ERQ1CJP102	METAL 1W	5%	1KΩ △
R537	ERD25TJ563	CARBON 0.25W	5%	56KΩ
R538	ERD25TJ473	CARBON 0.25W	5%	47KΩ
R539	ERD25TJ102	CARBON 0.25W	5%	1KΩ
R540	ERD25TJ101	CARBON 0.25W	5%	100Ω
R542	ERD25TJ474	CARBON 0.25W	5%	470KΩ
R543	ERD25TJ333	CARBON 0.25W	5%	33KΩ
R544	ERJ6GMYJ100	S.M.CARB 0.1W	5%	10Ω
R545	ERD25TJ103	CARBON 0.25W	5%	10KΩ
R546	ERJ6GMYJ103	S.M.CARB 0.1W	5%	10KΩ
R547	ERJ6GMYJ100	S.M.CARB 0.1W	5%	10Ω
R548	ERJ6GMYJ100	S.M.CARB 0.1W	5%	10Ω
R549	ERJ6GMYJ100	S.M.CARB 0.1W	5%	10Ω
R550	ERD25FJ220	CARBON 0.25W	5%	22Ω △
R551	ERF7ZK3R9	WOUND 7W	10%	3R9Ω △
R554	ERQ14AJ151	METAL 0.25W	5%	150Ω △
R555	ERDS1FJ1R0	CARBON 0.5W	5%	1Ω △
R556	ERQ12HJU1R2	METAL 0.5W	5%	1R2Ω △
R557	ERQ1CJP3R9	METAL 1W	5%	3R9Ω △
R560	ERX12SJR22	METAL 0.5W	5%	0R22Ω
R561	ERD25TJ153	CARBON 0.25W	5%	15KΩ
R562	ERD25TJ134	CARBON 0.25W	5%	130KΩ

Ref No.	Part No.	Description		
R568	ERD25TJ274	CARBON 0.25W	5%	270KΩ
R570	ERJ6GMYJ103	S.M.CARB 0.1W	5%	10KΩ
R571	ERQ12HJU8R2	METAL 0.5W	5%	8R2Ω △
R572	ERD25TJ473	CARBON 0.25W	5%	47KΩ
R574	ERX2SJR56	METAL 2W	5%	0R56Ω
R575	ERD25TJ103	CARBON 0.25W	5%	10KΩ
R576	ERD25TJ332	CARBON 0.25W	5%	3K3Ω
R583	ERQ1CJP102	METAL 1W	5%	1KΩ △
R601	ERJ6GMYJ332	S.M.CARB 0.1W	5%	3K3Ω
R602	ERG1ANJ221	METAL 1W	5%	220Ω
R603	ERJ6GMYJ221	S.M.CARB 0.1W	5%	220Ω
R604	ERJ6GMYJ102	S.M.CARB 0.1W	5%	1KΩ
R605	ERD25TJ102	CARBON 0.25W	5%	1KΩ
R608	ERJ6GMYJ100	S.M.CARB 0.1W	5%	10Ω
R609	ERJ6GMYJ100	S.M.CARB 0.1W	5%	10Ω
R610	ERJ6GMYJ100	S.M.CARB 0.1W	5%	10Ω
R611	EVND4AA00B13	CONTROL		1KΩ
R612	ERJ6GMYJ122	S.M.CARB 0.1W	5%	1K2Ω
R613	ERJ6GMYJ391	S.M.CARB 0.1W	5%	390Ω
R614	ERJ6GMYJ471	S.M.CARB 0.1W	5%	470Ω
R615	ERJ6GMYJ330	S.M.CARB 0.1W	5%	33Ω
R616	ERQ14AJ100	METAL 0.25W	5%	10Ω △
R619	ERD25TJ332	CARBON 0.25W	5%	3K3Ω
R620	EVNDXAA00B15	CONTROL		100KΩ
R621	ERD25TJ683	CARBON 0.25W	5%	68KΩ
R622	ERQ14AJ100	METAL 0.25W	5%	10Ω △
R623	ERO25CKF6801	METAL 0.25W	1%	6K8Ω △
R627	ERJ6GMYJ563	S.M.CARB 0.1W	5%	56KΩ
R629	ERD25TJ102	CARBON 0.25W	5%	1KΩ
R630	ERO25CKF1002	METAL 0.25W	1%	10KΩ △
R631	ERO25CKF1002	METAL 0.25W	1%	10KΩ △
R632	ERJ6GMYJ102	S.M.CARB 0.1W	5%	1KΩ
R633	ERD25TJ392	CARBON 0.25W	5%	3K9Ω
R634	ERD25TJ274	CARBON 0.25W	5%	270KΩ
R639	ERJ6GMYJ395	S.M.CARB 0.1W	5%	3M9Ω
R640	ERD25TJ100	CARBON 0.25W	5%	10Ω
R641	ERD25TJ100	CARBON 0.25W	5%	10Ω
R642	ERD25TJ100	CARBON 0.25W	5%	10Ω
R643	ERD25TJ100	CARBON 0.25W	5%	10Ω
R644	ERD25TJ100	CARBON 0.25W	5%	10Ω
R645	ERD25TJ100	CARBON 0.25W	5%	10Ω
R646	ERD25TJ102	CARBON 0.25W	5%	1KΩ
R647	ERD25TJ102	CARBON 0.25W	5%	1KΩ
R648	ERD25TJ102	CARBON 0.25W	5%	1KΩ
R654	EXBF7L440J	NETWORK		OMP NENT
R655	ERJ6GMYJ221	S.M.CARB 0.1W	5%	220Ω
R660	ERD25TJ155	CARBON 0.25W	5%	1M5Ω
R661	ERD25TJ100	CARBON 0.25W	5%	10Ω
R662	ERD25TJ100	CARBON 0.25W	5%	10Ω
R663	ERD25TJ100	CARBON 0.25W	5%	10Ω
R666	ERD25TJ561	CARBON 0.25W	5%	560Ω
R667	ERD25TJ561	CARBON 0.25W	5%	560Ω
R668	ERD25TJ561	CARBON 0.25W	5%	560Ω
R683	ERD25TJ102	CARBON 0.25W	5%	1KΩ
R684	ERD25TJ102	CARBON 0.25W	5%	1KΩ
R685	ERD25TJ102	CARBON 0.25W	5%	1KΩ
R690	ERD25TJ225	CARBON 0.25W	5%	2M2Ω
R694	ERJ6GMYJ100	S.M.CARB 0.1W	5%	10Ω
R696	ERD25TJ100	CARBON 0.25W	5%	10Ω
R697	ERD25TJ100	CARBON 0.25W	5%	10Ω
R802	ERF5ZK4R7	WOUND 5W	10%	4R7Ω △
R803	ERDS1TJ274	CARBON 0.5W	5%	270KΩ
R804	ERDS1TJ274	CARBON 0.5W	5%	270KΩ
R810	ERQ1CJP3R3	METAL 1W	5%	3R3Ω △
R811	ERW12PKR27	WOUND 0.5W	10%	0R27Ω △
R812	ERG1ANJ221	METAL 1W	5%	220Ω
R813	ERG1ANJ683	METAL 1W	5%	68KΩ
R814	ERD75TAJ825	CARBON 0.75W	5%	8M2Ω △
R815	ERQ12HJU5R6	METAL 0.5W	5%	5R6Ω △

Ref No.	Part No.	Description			
R816	ERD25TJ222	CARBON	0.25W	5%	2K2Ω
R820	ERG2ANJ104	METAL	2W	5%	100KΩ
R821	ERG3FJ104H	METAL	3W	5%	100KΩ Δ
R823	ERQ14AJ470	METAL	0.25W	5%	47Ω Δ
R852	ERQ12HJU1R2	METAL	0.5W	5%	1R2Ω Δ
R854	ERQ12HKUR39	METAL	0.5W	10%	0R39Ω Δ
R855	ERG3SJU180	METAL	3W	5%	18Ω
R856	ERD25TJ123	CARBON	0.25W	5%	12KΩ
R.301	ERJ6GMY0R00	S.M. WIRE	LINK		
R.606	ERJ6GMY0R00	S.M. WIRE	LINK		
R1102	ERO25CKF2371	METAL	0.25W	1%	2K37Ω Δ
R1103	ERO25CKF2371	METAL	0.25W	1%	2K37Ω Δ
R1104	ERO25CKF3161	METAL	0.25W	1%	3K16Ω Δ
R1105	ERO25CKF4871	METAL	0.25W	1%	4K87Ω Δ
R1106	ERO25CKF9531	METAL	0.25W	1%	9K53Ω Δ
R1107	ERO25CKF2371	METAL	0.25W	1%	2K37Ω Δ
R1108	ERO25CKF2371	METAL	0.25W	1%	2K37Ω Δ
R1109	ERO25CKF3161	METAL	0.25W	1%	3K16Ω Δ
R1110	ERO25CKF4871	METAL	0.25W	1%	4K87Ω Δ
R1111	ERO25CKF9531	METAL	0.25W	1%	9K53Ω Δ
R1112	ERO25CKF2371	METAL	0.25W	1%	2K37Ω Δ
R1113	ERO25CKF2371	METAL	0.25W	1%	2K37Ω Δ
R1114	ERO25CKF3161	METAL	0.25W	1%	3K16Ω Δ
R1115	ERO25CKF4871	METAL	0.25W	1%	4K87Ω Δ
R1117	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1118	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1119	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1122	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1127	ERD25TJ752	CARBON	0.25W	5%	7K5Ω
R1128	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R1129	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1130	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1131	ERD25TJ472	CARBON	0.25W	5%	4K7Ω
R1132	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1135	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R1147	ERO25CKF2152	METAL	0.25W	1%	21K5Ω Δ
R1191	ERD25TJ271	CARBON	0.25W	5%	270Ω
R1201	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1202	ERD25TJ821	CARBON	0.25W	5%	820Ω
R1204	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1205	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1206	ERD25TJ182	CARBON	0.25W	5%	1K8Ω
R1207	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R1208	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1212	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1213	ERD25TJ562	CARBON	0.25W	5%	5K6Ω
R1214	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1218	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1219	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1220	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1221	ERD25TJ562	CARBON	0.25W	5%	5K6Ω
R1222	ERD25TJ471	CARBON	0.25W	5%	470Ω
R1230	ERD25TJ562	CARBON	0.25W	5%	5K6Ω
R1232	ERD25TJ332	CARBON	0.25W	5%	3K3Ω
R1233	ERD25TJ332	CARBON	0.25W	5%	3K3Ω
R1234	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1236	ERD25TJ472	CARBON	0.25W	5%	4K7Ω
R1237	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1238	ERD25TJ183	CARBON	0.25W	5%	18KΩ
R1239	ERD25TJ472	CARBON	0.25W	5%	4K7Ω
R1241	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R1243	ERD25TJ562	CARBON	0.25W	5%	5K6Ω
R1246	ERD25TJ221	CARBON	0.25W	5%	220Ω
R1248	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R1250	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R1251	ERD25TJ471	CARBON	0.25W	5%	470Ω
R1252	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1254	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R1255	ERD25TJ332	CARBON	0.25W	5%	3K3Ω
R1256	ERD25TJ102	CARBON	0.25W	5%	1KΩ

Ref No.	Part No.	Description			
R1259	ERD25TJ123	CARBON	0.25W	5%	12KΩ
R1260	ERD25TJ123	CARBON	0.25W	5%	12KΩ
R1261	ERD25TJ272	CARBON	0.25W	5%	2K7Ω
R1262	ERD25TJ222	CARBON	0.25W	5%	2K2Ω
R1263	ERD25TJ333	CARBON	0.25W	5%	33KΩ
R1264	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1265	ERD25TJ562	CARBON	0.25W	5%	5K6Ω
R1267	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1268	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R1269	ERD25TJ682	CARBON	0.25W	5%	6K8Ω
R1270	ERD25TJ223	CARBON	0.25W	5%	22KΩ
R1272	ERD25TJ392	CARBON	0.25W	5%	3K9Ω
R1273	ERD25TJ273	CARBON	0.25W	5%	27KΩ
R1274	ERD25TJ472	CARBON	0.25W	5%	4K7Ω
R1275	ERD25TJ273	CARBON	0.25W	5%	27KΩ
R1276	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1277	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1278	ERD25TJ100	CARBON	0.25W	5%	10Ω
R1281	ERD25TJ682	CARBON	0.25W	5%	6K8Ω
R1283	TSF19631	FS LINK			Δ
R1309	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1310	ERD25TJ123	CARBON	0.25W	5%	12KΩ
R1311	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1312	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1313	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1314	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1315	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1320	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1324	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1325	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1327	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1328	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1329	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1331	ERD25TJ473	CARBON	0.25W	5%	47KΩ
R1332	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1333	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1335	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1336	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1337	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R1338	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R1339	ERD25TJ101	CARBON	0.25W	5%	100Ω
R1340	ERD25TJ332	CARBON	0.25W	5%	3K3Ω
R1341	ERD25TJ153	CARBON	0.25W	5%	15KΩ
R1342	ERD25TJ473	CARBON	0.25W	5%	47KΩ
R1343	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1347	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1348	ERD25TJ183	CARBON	0.25W	5%	18KΩ
R1349	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1350	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R1351	ERD25TJ683	CARBON	0.25W	5%	68KΩ
R2605	ERD25TJ104	CARBON	0.25W	5%	100KΩ
R2606	ERD25TJ221	CARBON	0.25W	5%	220Ω
R2607	ERD25TJ224	CARBON	0.25W	5%	220KΩ
R2608	ERD25TJ750	CARBON	0.25W	5%	75Ω
R2609	ERD25TJ224	CARBON	0.25W	5%	220KΩ
R2610	ERD25TJ750	CARBON	0.25W	5%	75Ω
R2611	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R2612	ERD25TJ750	CARBON	0.25W	5%	75Ω
R2613	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R2614	ERD25TJ750	CARBON	0.25W	5%	75Ω
R2615	ERD25TJ682	CARBON	0.25W	5%	6K8Ω
R2616	ERD25TJ101	CARBON	0.25W	5%	100Ω
R2617	ERD25TJ682	CARBON	0.25W	5%	6K8Ω
R2619	ERD25TJ473	CARBON	0.25W	5%	47KΩ
R2620	ERD25TJ101	CARBON	0.25W	5%	100Ω
R2621	ERD25TJ750	CARBON	0.25W	5%	75Ω
R2622	ERD25TJ472	CARBON	0.25W	5%	4K7Ω
R2623	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R2624	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R2625	ERD25TJ563	CARBON	0.25W	5%	56KΩ
R2626	ERD25TJ101	CARBON	0.25W	5%	100Ω

Ref No.	Part No.	Description			
R2628	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R2629	ERD25TJ391	CARBON 0.25W	5%	390 $\Omega$	
R2630	ERD25TJ100	CARBON 0.25W	5%	10 $\Omega$	
R2631	ERDS1FJ101	CARBON 0.5W	5%	100 $\Omega$	△
R2632	ERD25TJ680	CARBON 0.25W	5%	68 $\Omega$	
R2638	ERD25TJ102	CARBON 0.25W	5%	1K $\Omega$	
R2640	ERD25TJ333	CARBON 0.25W	5%	33K $\Omega$	
R2641	ERD25TJ153	CARBON 0.25W	5%	15K $\Omega$	
R2644	ERD25TJ392	CARBON 0.25W	5%	3K9 $\Omega$	
R2645	ERD25TJ333	CARBON 0.25W	5%	33K $\Omega$	
R2646	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R2647	ERD25TJ102	CARBON 0.25W	5%	1K $\Omega$	
R2651	ERJ6GMYJ102	S.M.CARB 0.1W	5%	1K $\Omega$	
R2652	ERJ6GMYJ102	S.M.CARB 0.1W	5%	1K $\Omega$	
R2653	ERJ6GMYJ563	S.M.CARB 0.1W	5%	56K $\Omega$	
R2654	ERJ6GMYJ100	S.M.CARB 0.1W	5%	10 $\Omega$	
R2655	ERJ6GMYJ102	S.M.CARB 0.1W	5%	1K $\Omega$	
R2656	ERJ6GMYJ102	S.M.CARB 0.1W	5%	1K $\Omega$	
R2657	ERD25TJ750	CARBON 0.25W	5%	75 $\Omega$	
R2658	ERD25TJ750	CARBON 0.25W	5%	75 $\Omega$	
R2658	ERJ6GMYOR00	S.M. WIRE LINK			
R2659	ERD25TJ471	CARBON 0.25W	5%	470 $\Omega$	
R2660	ERJ6GMYJ101	S.M.CARB 0.1W	5%	100 $\Omega$	
R2669	ERD25TJ102	CARBON 0.25W	5%	1K $\Omega$	
R2670	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R2674	ERD25TJ332	CARBON 0.25W	5%	3K3 $\Omega$	
R2675	ERD25TJ102	CARBON 0.25W	5%	1K $\Omega$	
R2677	ERD25TJ221	CARBON 0.25W	5%	220 $\Omega$	
R2678	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R2689	ERD25TJ562	CARBON 0.25W	5%	5K6 $\Omega$	
R2690	ERD25TJ392	CARBON 0.25W	5%	3K9 $\Omega$	
R2691	ERD25TJ392	CARBON 0.25W	5%	3K9 $\Omega$	
R2692	ERD25TJ392	CARBON 0.25W	5%	3K9 $\Omega$	
R2693	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R2694	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R2696	ERD25TJ102	CARBON 0.25W	5%	1K $\Omega$	
R2699	ERJ6GMYJ560	S.M.CARB 0.1W	5%	56 $\Omega$	
R3301	ERD25TJ100	CARBON 0.25W	5%	10 $\Omega$	
R3302	ERD25TJ102	CARBON 0.25W	5%	1K $\Omega$	
R3303	ERD25TJ563	CARBON 0.25W	5%	56K $\Omega$	
R3304	ERD25TJ183	CARBON 0.25W	5%	18K $\Omega$	
R3305	ERD25TJ102	CARBON 0.25W	5%	1K $\Omega$	
R3306	ERD25TJ222	CARBON 0.25W	5%	2K2 $\Omega$	
R3307	ERD25TJ102	CARBON 0.25W	5%	1K $\Omega$	
R3308	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R3309	ERD25TJ152	CARBON 0.25W	5%	1K5 $\Omega$	
R3310	EVND4AA00B13	CONTROL		1K $\Omega$	
R3312	ERD25TJ681	CARBON 0.25W	5%	680 $\Omega$	
R3313	ERD25TJ102	CARBON 0.25W	5%	1K $\Omega$	
R3314	ERD25TJ102	CARBON 0.25W	5%	1K $\Omega$	
R3315	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R3501	ERD25TJ221	CARBON 0.25W	5%	220 $\Omega$	
R3502	ERD25TJ392	CARBON 0.25W	5%	3K9 $\Omega$	
R3503	ERD25TJ471	CARBON 0.25W	5%	470 $\Omega$	
R3504	ERD25TJ822	CARBON 0.25W	5%	8K2 $\Omega$	
R3511	ERD25TJ102	CARBON 0.25W	5%	1K $\Omega$	
R3512	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R3513	ERD25TJ223	CARBON 0.25W	5%	22K $\Omega$	
R3514	EVND4AA00B24	CONTROL		20K $\Omega$	
R3515	ERD25TJ392	CARBON 0.25W	5%	3K9 $\Omega$	
R3516	ERD25TJ153	CARBON 0.25W	5%	15K $\Omega$	
R3518	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R3519	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R3520	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R3521	ERQ12HJ100	METAL 0.5W	5%	10 $\Omega$	△
R3522	ERD25TJ273	CARBON 0.25W	5%	27K $\Omega$	
R3523	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R3524	ERQ14AJ100	METAL 0.25W	5%	10 $\Omega$	△
R3525	ERD25TJ105	CARBON 0.25W	5%	1M $\Omega$	
R3530	ERQ14AJ100	METAL 0.25W	5%	10 $\Omega$	△

Ref No.	Part No.	Description			
R3532	ERD25TJ332	CARBON 0.25W	5%	3K3 $\Omega$	
R3533	ERD25TJ331	CARBON 0.25W	5%	330 $\Omega$	
R3534	ERD25TJ750	CARBON 0.25W	5%	75 $\Omega$	
R3535	ERD25TJ750	CARBON 0.25W	5%	75 $\Omega$	
R3536	ERD25TJ750	CARBON 0.25W	5%	75 $\Omega$	
R3541	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R3542	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R3544	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R3548	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R3551	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R3552	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R3553	ERD25TJ105	CARBON 0.25W	5%	1M $\Omega$	
R3554	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R3555	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R3556	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R3557	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R3563	ERD25TJ753	CARBON 0.25W	5%	75K $\Omega$	
R3564	ERD25TJ220	CARBON 0.25W	5%	22 $\Omega$	
R3565	ERD25TJ682	CARBON 0.25W	5%	6K8 $\Omega$	
R3567	ERD25TJ472	CARBON 0.25W	5%	4K7 $\Omega$	
R3568	ERD25TJ822	CARBON 0.25W	5%	8K2 $\Omega$	
R3571	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R3572	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R3573	ERD25TJ331	CARBON 0.25W	5%	330 $\Omega$	
R3574	ERD25TJ221	CARBON 0.25W	5%	220 $\Omega$	
R3580	ERD25TJ101	CARBON 0.25W	5%	100 $\Omega$	
R3582	ERD25TJ103	CARBON 0.25W	5%	10K $\Omega$	
R3584	ERD25TJ473	CARBON 0.25W	5%	47K $\Omega$	
R3585	ERD25TJ473	CARBON 0.25W	5%	47K $\Omega$	
R3586	ERD25TJ472	CARBON 0.25W	5%	4K7 $\Omega$	
R3589	ERD25TJ181	CARBON 0.25W	5%	180 $\Omega$	
R3590	ERD25TJ181	CARBON 0.25W	5%	180 $\Omega$	
R3591	ERD25TJ181	CARBON 0.25W	5%	180 $\Omega$	
R3593	ERD25TJ473	CARBON 0.25W	5%	47K $\Omega$	
R3594	ERD25TJ332	CARBON 0.25W	5%	3K3 $\Omega$	
R3595	ERD25TJ473	CARBON 0.25W	5%	47K $\Omega$	
R3596	ERD25TJ332	CARBON 0.25W	5%	3K3 $\Omega$	
R3597	ERD25TJ104	CARBON 0.25W	5%	100K $\Omega$	
R3598	ERD25TJ104	CARBON 0.25W	5%	100K $\Omega$	

## DIODES

D031	MA858TA5	DIODE
D132	TVSQB109SA	DIODE
D201	MA165TA5	DIODE
D204	MA165TA5	DIODE
D206	MA165TA5	DIODE
D207	MA165TA5	DIODE
D209	MA4056	DIODE
D210	MA165TA5	DIODE
D301	MA165TA5	DIODE
D302	MA165TA5	DIODE
D303	MA165TA5	DIODE
D304	MA29TA5	DIODE
D355	MA165TA5	DIODE
D356	MA165TA5	DIODE
D357	MA165TA5	DIODE
D358	MA165TA5	DIODE
D401	MA165TA5	DIODE
D403	MA165TA5	DIODE
D451	BYD31D-26MM	DIODE
D501	MA165TA5	DIODE
D520	MA165TA5	DIODE
D521	MA4120	DIODE
D541	MA4360	DIODE
D544	MA165TA5	DIODE
D551	BYD31D-26MM	DIODE
D552	MA167TA5	DIODE
D554	BYD31D-26MM	DIODE



Ref No.	Part No.	Description
D560	MA165TA5	DIODE
D561	MA165TA5	DIODE
D565	EU02	DIODE
D601	MA4051	DIODE
D603	MA165TA5	DIODE
D605	MA165TA5	DIODE
D629	MA4068HTA	DIODE
D801	RBV4-08	DIODE
D804	ERZC10DK621	DIODE
D805	232266296009	DIODE
D807	ERA22-04V3	DIODE
D809	BYD31D-26MM	DIODE
D810	ERB0615	DIODE
D811	TLP621GR-LF2	PHOTO COUPLER     ▲
D812	BYD31D-26MM	DIODE
D813	MA4360	DIODE
D851	TVSC2408M	DIODE
D853	ERD32-02L7	DIODE
D854	SR2KN	DIODE
D855	BYW95APFK8	DIODE
D856	MA165TA5	DIODE
D857	MA4082	DIODE
D1101	LN81RPHL	DIODE
D1208	TVSS1WBS10	DIODE
D1225	MA4082	DIODE
D1232	MA165TA5	DIODE
D1243	MA165TA5	DIODE
D1252	MA165TA5	DIODE
D1255	MA165TA5	DIODE
D1267	MA165TA5	DIODE
D1269	MA165TA5	DIODE
D1301	MA165TA5	DIODE
D1305	MA165TA5	DIODE
D1306	MA165TA5	DIODE
D2603	MA165TA5	DIODE
D2607	MA165TA5	DIODE
D2612	MA165TA5	DIODE
D2621	MA700TA5	DIODE
D2622	MA858TA5	DIODE
D2690	MA165TA5	DIODE
D3301	MA858TA5	DIODE
D3302	MA29TA5	DIODE
D3307	MA4068HTA	DIODE
D3502	MA165TA5	DIODE
D3503	MA165TA5	DIODE
D3504	MA165TA5	DIODE
D3505	MA165TA5	DIODE
D3510	MA165TA5	DIODE
D3511	MA165TA5	DIODE
D3526	MA165TA5	DIODE
D3527	MA4082	DIODE
D3541	MA165TA5	DIODE
D3542	MA165TA5	DIODE
D3576	MA165TA5	DIODE
DL2651	ELB4L122B	COIL

INTEGRATED CIRCUITS		
IC070	UPC574J	REGULATOR
IC101	M51362SP	SPLIT VIF/SIF
IC251	AN5265	AUDIO OUTPUT I.C.
IC451	LA7837	VERTICAL OUTPUT
IC521	AN5650	SYNC SEPERATOR
IC601	AN5603K	VIDEO PROCESSOR
IC801	STR54041-M	POWER REGULATOR     ▲
IC851	L78M12MRB	12V REGULATOR
IC1202	ST24C02A	EEPROM
IC1204	L78M05MRB	5V REGULATOR
IC1212	MN1280R	RESET

Ref No.	Part No.	Description
IC1213	MN1872419TZA	MICROPROCESSOR
IC1301	AN5560	SWITCHING
IC1610	SBX1610-46	REMOTE RECEIVER
IC2601	LA7222-TV	SWITCHING
IC2651	LA7222-TV	SWITCHING
IC3301	AN5860	SWITCHING
IC3302	AN5862K	SWITCHING
IC3501	SAA5246P-EM4	IVT MICROPROCESSOR
IC3505	L78M05MRB	5V REGULATOR
IC3506	LC3664AL-12	S RAM MEMORY
IC3507	MAB8461PW216	TEXT CONTROL
IC3508	TC4066BP	SWITCHING

COILS		
L017	ELESN100KA	COIL
L105	EIV7EN054B	COIL
L106	EIV7EN055B	COIL
L110	TLI157X57	COIL
L112	TLT222K991R	COIL
L114	ELESN2R2KA	COIL
L131	ELESN220KA	COIL
L137	ELESN180KA	COIL
L151	ELESN120KA	COIL
L201	EXCELD35V	COIL
L202	EXCELD35V	COIL
L210	ELESN4R7KA	COIL
L211	TLH151X55	COIL
L214	ELESN680KA	COIL
L235	ELESN4R7KA	COIL
L301	TLX330J176C	COIL
L351	ELESN181KA	COIL
L352	ELESN181KA	COIL
L353	ELESN181KA	COIL
L354	EXCELD35V	COIL
L355	EXCELD35V	COIL
L356	EXCELD35V	COIL
L482	ELESN8R2KA	COIL
L552	ELC07B014	COIL
L553	TLH15652P	TRANSFORMER
L554	ELH16F779	COIL
L601	EIK7ES004B	COIL
L602	ELESN100KA	COIL
L604	EFDEN645A61F	DELAY LINE
L801	ELF18D650L	COIL     ▲
L802	ELF18D281A	COIL
L803	EXCELSA24T	COIL
L804	EXCELSA24T	COIL
L805	ELF18D281A	COIL
L806	EXCELSA24T	COIL
L818	ELEXT100KA	COIL
L852	EXCELD35V	COIL
L854	ELESN1R5KA	COIL
L855	EXCELSA24T	COIL
L857	ELESN1R5KA	COIL
L859	EXCELD35V	COIL
L.556	EXCELSA24B	COIL
L1131	ELESN100KA	COIL
L1200	ELEXT100KA	COIL
L1203	ELEXT100KA	COIL
L1204	ELKTR150GA	COIL
L1205	ELESN8R2KA	COIL
L1210	EXCELSA35T	COIL
L1220	ELEXT100KA	COIL
L1221	ELEXT100KA	COIL
L1223	ELEXT100KA	COIL
L1231	ELEXT100KA	COIL
L1232	ELKTR150GA	COIL
L1233	ELKTR150GA	COIL
L1234	ELKTR150GA	COIL



Ref No.	Part No.	Description
L1235	ELEXT100KA	COIL
L1240	ELESN100KA	COIL
L1241	ELEXT100KA	COIL
L1246	ELEXT1R0KA	COIL
L1247	ELEXT100KA	COIL
L1248	ELEXT100KA	COIL
L1250	ELEXT100KA	COIL
L1252	ELEXT100KA	COIL
L1253	ELEXT100KA	COIL
L1254	ELEXT100KA	COIL
L1255	ELEXT100KA	COIL
L2112	TLS153254--1	COIL
L2640	ELESN470KA	COIL
L2657	ELESN100KA	COIL
L3501	ELESN1R5KA	COIL
L3502	ELESN100KA	COIL
L3503	ELESN4R7KA	COIL
L3504	ELESN100KA	COIL
L3505	ELESN100KA	COIL
L3510	ELESN100KA	COIL
L3515	ELESN100KA	COIL
LC601	ELB4N049	DELAY LINE

**TRANSISTORS**

Q030	2SC1688-TA	TRANSISTOR
Q112	BF370	TRANSISTOR
Q130	2SA1309ATA	TRANSISTOR
Q142	2SC3311ATA	TRANSISTOR
Q150	2SC3311ATA	TRANSISTOR
Q201	2SA1309ATA	TRANSISTOR
Q202	UN4211TA	TRANSISTOR
Q210	2SC1047-BCD	TRANSISTOR
Q229	2SC3311ATA	TRANSISTOR
Q235	2SC3354TA	TRANSISTOR
Q302	2SA1309ATA	TRANSISTOR
Q307	UN4213TA	TRANSISTOR
Q351	2SC2923-RL	TRANSISTOR
Q352	2SC2923-RL	TRANSISTOR
Q353	2SC2923-RL	TRANSISTOR
Q356	2SA719-TA	TRANSISTOR
Q403	UN4213TA	TRANSISTOR
Q404	UN4213TA	TRANSISTOR
Q466	2SC3311ATA	TRANSISTOR
Q501	2SC1573AH	TRANSISTOR
Q521	2SC3311ATA	TRANSISTOR
Q541	2SA1309ATA	TRANSISTOR
Q542	2SC3311ATA	TRANSISTOR
Q554	2SD1541LB	TRANSISTOR
Q558	2SA879	TRANSISTOR
Q601	2SC3311ATA	TRANSISTOR
Q666	2SA1309ATA	TRANSISTOR
Q667	2SA1309ATA	TRANSISTOR
Q668	2SA1309ATA	TRANSISTOR
Q801	2SD965-R	TRANSISTOR
Q802	2SD965-R	TRANSISTOR
Q851	UN4111TA	TRANSISTOR
Q1131	2SC3311ATA	TRANSISTOR
Q1132	DTC144ESTQ	TRANSISTOR
Q1132	UN4213TA	TRANSISTOR
Q1201	2SC3311ATA	TRANSISTOR
Q1203	UN4211TA	TRANSISTOR
Q1215	2SC3311ATA	TRANSISTOR
Q1216	2SC3311ATA	TRANSISTOR
Q1251	2SC3311ATA	TRANSISTOR

Ref No.	Part No.	Description
Q1255	2SC3311ATA	TRANSISTOR
Q1266	2SC3311ATA	TRANSISTOR
Q1267	2SC3311ATA	TRANSISTOR
Q1272	2SA1309ATA	TRANSISTOR
Q1273	2SC3311ATA	TRANSISTOR
Q1274	2SA1309ATA	TRANSISTOR
Q1301	UN4211TA	TRANSISTOR
Q1302	UN4213TA	TRANSISTOR
Q2602	2SD1469-M	TRANSISTOR
Q2604	2SA1309ATA	TRANSISTOR
Q2605	2SC3311ATA	TRANSISTOR
Q2610	2SC3311ATA	TRANSISTOR
Q2614	2SA1309ATA	TRANSISTOR
Q2627	2SC3311ATA	TRANSISTOR
Q2690	2SC3311ATA	TRANSISTOR
Q3301	2SC3311ATA	TRANSISTOR
Q3302	2SC3311ATA	TRANSISTOR
Q3501	2SC3311ATA	TRANSISTOR
Q3502	2SC3311ATA	TRANSISTOR
Q3506	2SC3311ATA	TRANSISTOR
Q3510	2SC3311ATA	TRANSISTOR
Q3511	2SC3311ATA	TRANSISTOR
Q3515	2SC3311ATA	TRANSISTOR
Q3522	2SA1309ATA	TRANSISTOR
Q3523	UN4210TA	TRANSISTOR

**SWITCHES**

S301	EVQR1AL13	SWITCH
S401	EVQR4AL13	SWITCH
S801	ESB99902S	SWITCH
S1101	EVQQBH12T	SWITCH
S1102	EVQQBH12T	SWITCH
S1104	EVQQBH12T	SWITCH
S1105	EVQQBH12T	SWITCH
S1109	EVQQBH12G	SWITCH
S1110	EVQQBH12G	SWITCH
S1111	EVQQBH12G	SWITCH
S1112	EVQQBH12G	SWITCH
S1113	EVQQBH12T	SWITCH
S1114	EVQQBH12T	SWITCH
S1115	EVQQBH12T	SWITCH
S1116	EVQQBH12T	SWITCH
S1117	EVQQBH12T	SWITCH

**TRANSFORMERS**

T531	TLH15458E	TRANSFORMER
T551	TLF15621F	FLYBACK TRANSFORMER
T801	ETS42K440A	TRANSFORMER
T1201	ETP28Z291AF	TRANSFORMER

**FILTERS**

X101	F1045A	FILTER
X151	EFC56R0MW5	FILTER
X211	EFC56R0MS5	FILTER
X601	TSS2031-M	CRYSTAL
X1210	EFOGC6004A4	FILTER
X3501	TSS2121-N	CRYSTAL
X3503	TSS2077-M	CRYSTAL

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