



# Service Manual

Colour Television EURO 3HW Chassis

## TX-25AD50F TX-29AD50F

Safety	<input type="button"/>	Adjustments	<input type="button"/>	<b>Notes</b>  <b>Service Support</b>   <b>About...</b>    <input type="button" value="GO BACK"/> <input type="button" value="EXIT"/>
Specifications	<input type="button"/>	Self Check	<input type="button"/>	
Block Diagram(Video/Audio)	<input type="button"/>	Service Hints	<input type="button"/>	
	<input type="button"/>	Mechanical View	<input type="button"/>	
Block Diagram(Control)	<input type="button"/>	Disassembly	<input type="button"/>	
Parts List	<input type="button"/>	Location of Controls	<input type="button"/>	
Service Information	<input type="button"/>	Waveforms	<input type="button"/>	
PCB view(B)	<input type="button"/>	B Schematic	<input type="button"/>	
PCB view(D)	<input type="button"/>	D Schematic	<input type="button"/>	
PCB view(E)	<input type="button" value="T"/> <input type="button" value="B"/>	E Schematic	<input type="button"/>	
PCB view(F)	<input type="button"/>	F Schematic	<input type="button"/>	
PCB view(H)	<input type="button" value="T"/> <input type="button" value="B"/>	H Schematic	<input type="button"/>	
PCB view(M)	<input type="button"/>	M Schematic	<input type="button"/>	
PCB view(Y)	<input type="button"/>	Y Schematic	<input type="button"/>	

# Service Manual



## Colour Television

### TX-29AD50F

### TX-25AD50F

## EURO-3H Chassis

### Specifications

(Information in brackets {} refers to TX-25AD50F)

<b>Power Source :</b>	220 - 240 V AC, 50Hz	
<b>Power Consumption :</b>	159W {149W}	
<b>Aerial Impedance :</b>	75W unbalanced, Coaxial Type	
<b>Receiving System :</b>	PAL B/G, D/K, I, H, PAL - 60 SECAM B/G, D/K, L/L' M.NTSC, NTSC (AV Only)	
<b>Receiving Channels :</b>	VHF E2 - E12 VHF H1 - H2 (ITALY) VHF R1 - R2 VHF R6 - R12 UHF E21 - E69 CATV (S01 - S05) CATV S11 - S20 (U1 - U10)	
<b>Intermediate Frequency :</b>	Video 38.9MHz, 34MHz Sound 32.9MHz, 33.4MHz 33.16MHz, 32.4MHz 40.4MHz, 34.05MHz, 33.05MHz 34.65MHz, 34.47MHz, 34.5MHz	
<b>Colour</b>		
<b>Video / Audio Terminals</b>		
<b>AUDIO MONITOR OUT</b>	Audio (RCA x 2)	500 mV rms 1kW
<b>AV1 IN</b> Video (21 pin)	1 Vp-p 75W Audio (21 pin) RGB (21 pin)	500 mV rms 10kW
<b>AV1 OUT</b>	Video (21 pin) Audio (21 pin)	1 Vp-p 75W 500 mV rms 1kW
<b>AV2 IN</b> Video (21 pin)	1 Vp-p 75W Audio (21 pin) S-Video IN (21 pin)	500 mV rms 10 kW Y : 1 Vp-p 75W C : 0.3 Vp-p 75W
<b>AV2 OUT</b>	Video (21 pin) Audio (21 pin) Selectable output (21 pin)	1 Vp-p 75W 500 mV rms 1kW
<b>AV3 IN</b> S-Video IN	Y : 1 Vp-p 75W (4-pin) C : 0.3 Vp-p 75W Audio (RCA x 2) Video (RCA x 1)	500 mV rms 10kW 1 Vp-p 75W
<b>High Voltage :</b>	30.5 kV "1kV at zero beam current	
<b>Picture Tube :</b>	A68ESF002X43 72 cm {A59ESF002X43 63 cm} 110_deflection	
<b>Audio Output :</b>		
<b>Internal Speaker</b>	2 x 20W (Left/Right)(Music Power) 25W (3D Bass)(Music Power) 8 W Impedance	
<b>Headphones</b>	8 W Impedance	
<b>Accessories supplied :</b>	Remote Control 2 x R6 (UM3) Batteries	
<b>Dimensions :</b>		
<b>Height :</b>	570mm	{510mm}
<b>Width :</b>	698mm	{625mm}
<b>Depth :</b>	483mm	{468mm}
<b>Net Weight</b>	37kg	{31kg}

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

### Technische Daten

(Werte in klammern {} gelten nur für TX-25AD50F)

<b>Netzspannung :</b>	220 - 240 V AC, 50Hz	
<b>Leistungsaufnahme :</b>	159W {149W}	
<b>Antennenimpedanz :</b>	75W asymmetrisch, Koaxial- Typ	
<b>Empfangssystem :</b>	PAL B/G, D/K, I, H, PAL - 60 SECAM B/G, D/K, L/L' M.NTSC, NTSC (nur AV Eingang)	
<b>Empfangsbereiche :</b>	VHF E2 - E12 VHF H1 - H2 (ITALY) VHF R1 - R2 VHF R6 - R12 UHF E21 - E69 CATV (S01 - S05) CATV S11 - S20 (U1 - U10)	
<b>Zwischenfrequenz :</b>	Video 38.9MHz, 34MHz Sound 32.9MHz, 33.4MHz 33.16MHz, 32.4MHz 40.4MHz, 34.05MHz, 33.05MHz 34.65MHz, 34.47MHz, 34.5MHz	
<b>Colour</b>		
<b>Video / Audio Anschlüsse :</b>		
<b>AUDIO MONITOR AUSGANG</b>	Audio (RCA x 2)	500 mV rms 1kW
<b>AV1 EINGANG</b>	Video (21 pin) Audio (21 pin) RGB (21 pin)	1 Vp-p 75W 500 mV rms 10kW
<b>AV1 AUSGANG</b>	Video (21 pin) Audio (21 pin)	1 Vp-p 75W 500 mV rms 1kW
<b>AV2 EINGANG</b>	Video (21 pin) Audio (21 pin) S-Video IN (21 pin)	1 Vp-p 75W 500 mV rms 10 kW Y : 1 Vp-p 75W C : 0.3 Vp-p 75W
<b>AV2 AUSGANG</b>	Video (21 pin) Audio (21 pin) Selectable output (21 pin)	1 Vp-p 75W 500 mV rms 1kW
<b>AV3 EINGANG</b>	S-Video IN (4-pin) C : 0.3 Vp-p 75W Audio (RCA x 2) Video (RCA x 1)	500 mV rms 10kW 1 Vp-p 75W
<b>Hochspannung :</b>	30.5 kV "1kV bei Nullstrahlstrom	
<b>Bildrohre :</b>	A68ESF002X43 72 cm {A59ESF002X43 63 cm} 110_Ablenkung	
<b>Ton Ausgangsleistung :</b>		
<b>Einbaulautsprecher</b>	2 x 20W (Links/Rechts)(Musikleistung) 25W (3D Bass)(Musikleistung) 8 W Impedanz	
<b>Kopfhörer</b>	8 W Impedanz	
<b>Mittel. Zubehör</b>	Fernbedienung 2 x R6 (UM3) Batterien	
<b>Abmessungen :</b>		
<b>Höhe :</b>	570mm	{510mm}
<b>Breite :</b>	698mm	{625mm}
<b>Tiefe :</b>	483mm	{468mm}
<b>Gewicht</b>	37kg	{31kg}

Änderungen der technischen Daten vorbehalten.

Gewichte und Abmessungen sind Näherungsangaben.

## CONTENTS

SAFETY PRECAUTIONS	2
LOCATION OF CONTROLS	4
SERVICE HINTS	4
ADJUSTMENTS	5
SELF CHECK	9
WAVEFORM PATTERN TABLE	11
CONDUCTOR VIEWS	12
BLOCK DIAGRAM	19
SCHEMATIC DIAGRAMS	23
PARTS LOCATION	30
REPLACEMENT PARTS LIST	31

### 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 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 31.5kV 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 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.

## INHALT

SICHERHEITSVORKEHRUNGEN	2
LAGE DER EINSTELLREGLER	4
WARTUNGSHINWEISE	4
JUSTIERUNGEN	5
SELBSTDIAGNOSE	9
SIGNAL TABELLE	11
ANSICHT DER LEITERBAHNEN	12
SCHALTBILD BLOCK	19
SCHALTBILD SCHEMA	23
EXPLOSIONSZEICHNUNG	30
ERSATZTEILLISTE	31

### SICHERHEITSVORKEHRUNGEN

#### Allgemeine Richtlinien

1. Es ist empfehlenswert einen Trenntransformator in die Stromversorgung zu schalten, bevor Reparaturen an einem Gerät vorgenommen werden, dessen Chassis unter Spannung steht.
2. Bei der Durchführung von Servicearbeiten dürfen die ursprünglichen Kabelanschlüsse nicht vertauscht werden. Dies gilt insbesondere für die Anschlüsse im Hochspannungsteil. Hat sich ein Kurzschluß ereignet, dann sind alle Teile, an denen Spuren von Überhitzung sichtbar sind, auszuwechseln.
3. Nach Beenden der Servicearbeiten ist sicherzustellen, daß alle Sicherheitsvorrichtungen, wie Isolationsstege, Isolationspapiere, Abschirmungen und Isolations-R/C-Glieder wieder richtig eingesetzt sind.
4. Wenn der Fernseher während längerer Zeit nicht in Betrieb gesetzt wird, sollte der Netzstecker aus der Netzsteckdose gezogen werden.
5. Im Betrieb sind Spannungen bis zu 31.5kV in diesem Gerät vorhanden. Die Inbetriebnahme des Fernsehers ohne aufgesetzte Rückwand bringt die Gefahr eines elektrischen Schlages von der Fernseher - Stromversorgung mit sich. Servicearbeiten sollten daher auch nie durch Personen versucht werden, die nicht in vollem Umfang mit den Sicherheitsvorkehrungen beim Umgang mit Hochspannungsgeräten vertraut sind. Vor der Handhabung mit der Bildröhre ist die Anode der Bildröhre immer an dem Empfängerchassis zu entladen.
6. Nach Beenden der Servicearbeiten sind die folgenden Kriechstrom-Prüfungen durchzuführen, um den Kunden vor der Gefahr eines elektrischen Schlages zu schützen.

### MESSUNG DES ISOLATIONSWIDERSTANDES IM ABGESCHALTETEN ZUSTAND

1. Den Netzstecker aus der Netzsteckdose ziehen und die beiden Steckerstifte kurzschließen.
2. Den Geräteschalter des Fernsehgerätes einschalten.
3. Mit einem Ohmmeter den Widerstandswert zwischen dem überbrückten Netzstecker und jedem zugänglichen Metallteil am Gehäuse des Fernsehgerätes, wie Schraubenköpfe, Antennen, Achsen der Regler, Griffassungen usw. messen. Wenn ein zugängliches Metallteil keine Rückleitung zum Chassis hat, muß die Anzeige unendlich betragen.

## 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 2kW 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.

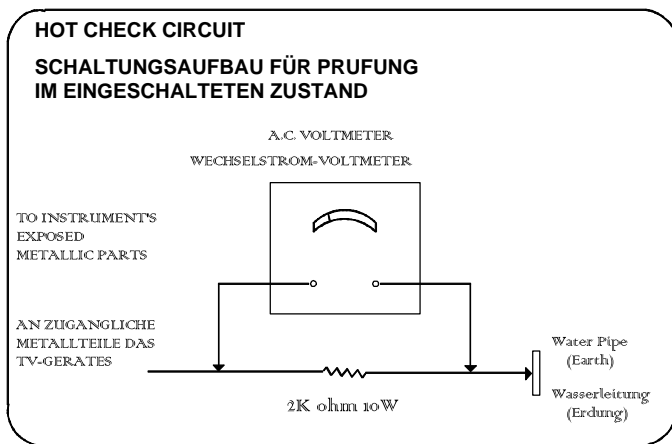


Fig.1  
Abb.1

## 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 the jig is capable of handling 31.5kV without causing X-Radiation.

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

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate 30.5kV  $\pm$  1kV if the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

## MESSUNG DES KRIECHSTROMS IM EINGESCHALTETEN ZUSTAND

1. Den Netzstecker direkt in eine Netsteckdose stecken. Für diese Messung keinen Trenntransformator verwenden.
2. Einen 2k W / 10W-Widerstand in Serie mit einem von außen zugänglichen Metallteil am Fernsehgerät und einer guten Erdung z.B. Wasserleitung, anschließen.
3. Ein Wechselstrom-Voltmeter mit einem Messbereich von 1000 Ohm.Volt oder größer verwenden, um die Spannung über den Widerstand zu messen.
4. Jedes zugängliche Metallteil prüfen, und an jedem Punkt die Spannung messen.
5. Den Netzstecker umgekehrt in die Steckdose stecken und jede der obigen Messungen wiederholen.
6. Die Spannung darf an keinem der Punkte 1.4V eff. überschreiten. Wird dieser Wert nicht eingehalten, besteht die Gefahr eines elektrischen Schlages, und das Fernsehgerät sollte daher repariert und nachgeprüft werden, bevor es an den Kunden zurückgegeben wird.

## RÖNTGENSTRAHLUNG

### ACHTUNG :

1. Potentielle Quellen von Röntgenstrahlung in Fernsehgeräten sind das Hochspannungsteil und die Bildröhre.
2. Bei Verwendung eines Bildröhren-Prüfgerätes für den Service ist sicherzustellen, dass es für die Belastung von 31.5kV geeignet ist, ohne dass eine Röntgenstrahlung verursacht wird.

**ANMERKUNG :** Es ist wichtig, dass ein präzises, regelmäßig geprüftes Voltmeter verwendet wird.

1. Helligkeit auf Minimum stellen.
2. Die Hochspannung messen. Die Anzeige des Instrumentes sollte 30.5kV  $\pm$  1kV betragen. Falls die Anzeige diese Toleranzgrenzen überschreitet, ist die sofortige Behebung nötig, um die Möglichkeit vorzeitigen Komponentenausfalls zu verhüten.
3. Um die Möglichkeit von Röntgenstrahlung zu begrenzen, ist es wichtig, dass nur die vorgeschriebene Bildröhre verwendet wird.

## Location Of Controls

## Lage der Einstellregler

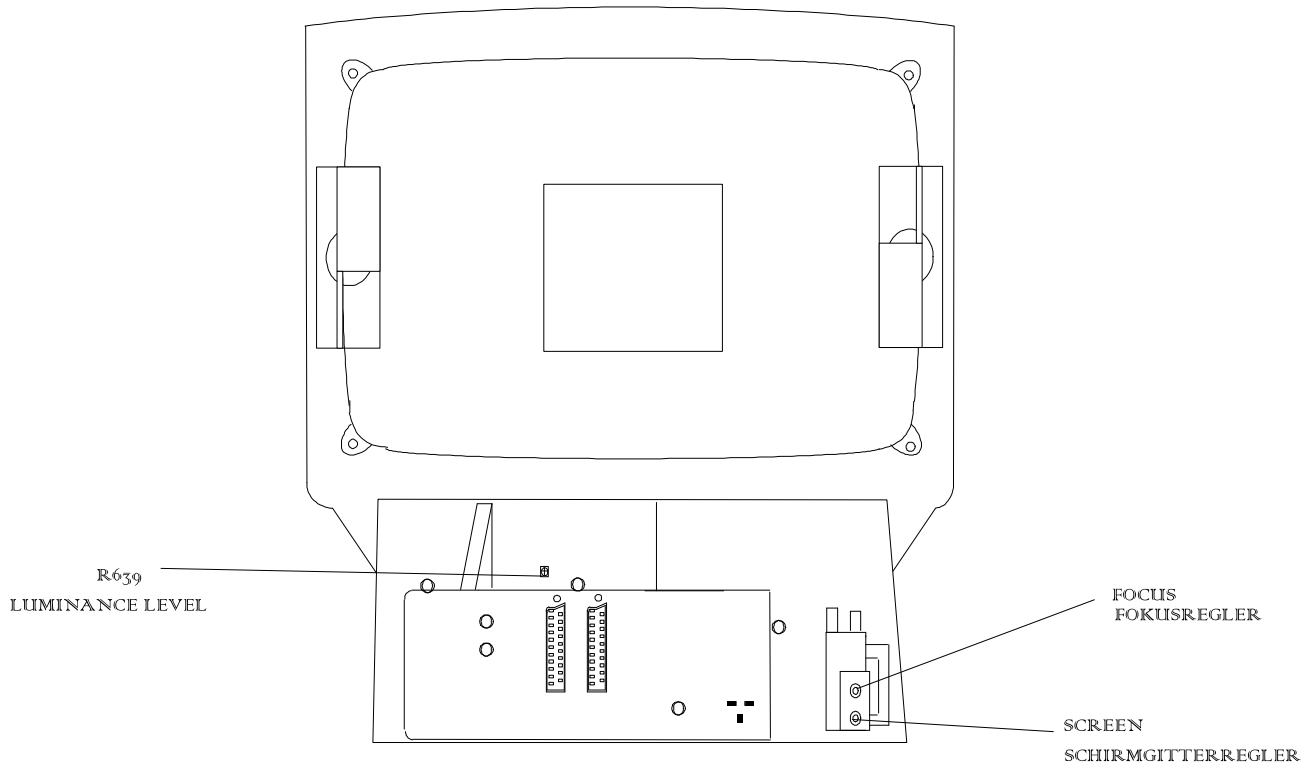


Fig.2  
Abb.2

## SERVICE HINTS

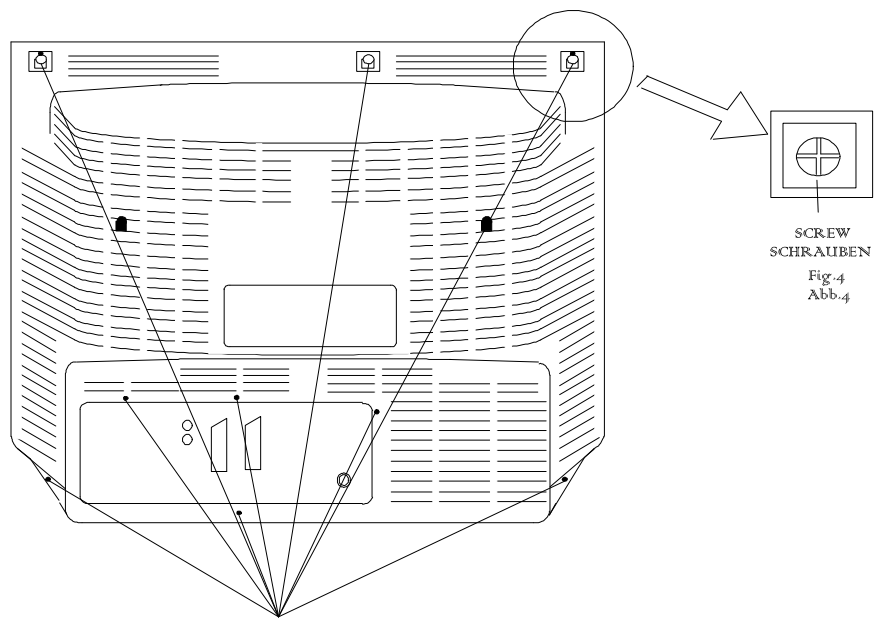
### How to remove the rear cover

1. Remove the 9 screws (A) as shown in Fig.3/Fig.4.

## SERVICE HINWEISE

### Entfernen Der Geräterückwand

1. Die 9 Schrauben (A) entfernen, siehe Abb.3/Abb.4.



SCREWS (A)  
SCHRAUBEN (A)

Fig.3.  
Abb.3.

SCREW  
SCHRAUBEN

Fig.4  
Abb.4

## Adjustment Procedure

The remote control is used for entering and storing adjustments, with the exception of cut-off adjustments which must always be done prior to service adjustment. Perform adjustments in accordance with screen display. The display on the screen also specifies the CCU variants as well as the approx. setting values. The adjustment sequence for the service mode is indicated below.

1. Set the Bass to maximum position, set the Treble to minimum position, press and hold the Reveal button on the remote control and at the same time press the -/v button on the customer controls at the front of the TV, this will place the TV into the Service Mode.
2. Press the RED / GREEN buttons to step up / down through the functions.
3. Press the YELLOW / BLUE buttons to alter the function values.
4. Press the STORE button after each adjustment has been made to store the required values.
5. To exit the Service Mode press the Normalisation button..

**NOTE:** This TV also has the option of using a Memory Pack which enables you to copy the preset TV channels into the Memory Pack and then download them onto this or any other EURO-3 TV set.

### TV to Memory Pack process

1. Plug the memory pack into the AV2 21 pin terminal at the back of the TV and switch the TV on.
2. Go into the Service Mode as explained above. The screen will show:-

```
Program
External>>TV
```

3. Press the blue button on the remote control. The screen will show:-

```
Program
TV>>External
```

4. Press the STORE button on the TV. The screen will show:-

```
Storing
```

5. All the tuning information stored inside the TV will now be transferred to the Memory Pack. This process will take 2-3 minutes to complete and when finished the screen will show:-

```
OK!
```

1. Plug the memory pack into the AV2 21 pin terminal at the back of the TV and switch the TV on.

2. Go into the Service Mode as explained above. The screen will show:-

```
Program
External>>TV
```

3. Press the STORE button on the TV. The screen will show:-

```
Loading
```

4. All the tuning information stored inside the Memory Pack will now be transferred to the TV. This process will take 2-3 minutes to complete and when finished the screen will show:-

```
OK!
```

5. The tuning information from the Memory Pack has now been copied into the TV.

6. To exit from the Service Mode press the Normalisation button.

7. The process has now been completed and the Memory Pack can now be removed.

### Memory Pack to TV Process

## Errors

If an error occurs while using the Memory Pack the TV will detect this and the screen will show:-

```
Program
Error!
```

If this happens then press the Normalisation button and repeat the process that was being used. If the errors continue to occur then check the connectors between the TV and the memory pack and check the 9V battery inside the memory pack.

# ABGLEICHVERFAHREN

Die Fernbedienung dient zum Eingeben und Abspeichern der Einstellwerte, mit Ausnahme der Sperrpunkteinstellung, die grundsätzlich vor den hier beschriebenen Einstellungen vorgenommen werden muss. Die Einstellung erfolgt entsprechend dem Bildschirm-Display. Auf dem Bildschirm-Display erscheinen auch die CCU-Varianten sowie die ungefähren Einstellwerte. Die Einstellfolge für den Service-Modus ist nachstehend beschrieben.

1. Um in den Service-Mode zu gelangen, gehen sie bitte wie folgt
  - a) Stellen sie im Toneinstellungs-Menü die Bässe auf Maximum und die Höhen auf Minimum.
  - b) Halten sie die REVEAL-Taste auf der Fernbedienung gedrückt und drücken zusätzlich die Taste -/v im Bedienteil des TV-Gerätes. Auf dem Bildschirm erscheint die entsprechende Anzeige für den Service-Mode.
2. Die einzelnen Funktionen mit Hilfe der ROTEN und GRÜNEN Taste anwählen.
3. Mit der GELBEN und BLAUEN Taste die Werte der einzelnen Funktionen ändern.
4. Nach jeder Einstellung die Taste STR auf der Fernbedienung oder am Bedienfeld drücken, um die geänderten Werte abzuspeichern.
5. Zum Verlassen des Service-Modus die "N"-Taste auf der Fernbedienung drücken

**HINWEIS:** Dieses FS-Gerät bietet auch die Möglichkeit eines Memory Pack, mit dem Sie die gewählten Fernsehkanäle abspeichern und auf jedes beliebige EURO3 FS-Gerät umkopieren können.

## Kopieren der Einstelldaten vom FS-Gerät in das Memory Pack

1. Das Memory Pack in die AV2-Buchse an der Rückseite des FS-Gerätes stecken und das Gerät einschalten.
2. Wie schon oben beschrieben auf Service-Modus umschalten. Auf dem Bildschirm erscheint:

Program  
 External>>TV

3. Nun die blaue Taste an der Fernbedienung betätigen. Auf dem Bildschirm erscheint:

Program  
 TV>>External

4. Die Taste STORE am Fernseher drücken. Der Bildschirm meldet nun:

Storing

5. Die im FS-Gerät abgespeicherten Kanal-Einstelldaten werden nun in das Memory Pack überspielt. bei abgeschlossener Datenübertragung meldet der Bildschirm:

OK!

1. Das Memory Pack in die AV2-Buchse an der Rückseite des FS-Gerätes stecken und das Gerät einschalten.
2. Wie schon oben beschrieben auf Service-Modus umschalten. Auf dem Bildschirm erscheint:

Program  
 External>>TV

3. Die Taste STORE am Fernseher drücken. Der Bildschirm meldet nun:

Loading

4. Die im Memory Pack abgespeicherten Einstelldaten werden nun in das FS-Gerät überspielt. bei abgeschlossener Datenübertragung meldet der Bildschirm:

OK!

5. Die Kanal-Einstelldaten sind damit vom Memory Pack in das FS-Gerät überspielt.
6. Zum Verlassen des Service-Modus die "N"-Taste auf der Fernbedienung drücken
7. Der Kopiervorgang ist somit abgeschlossen, und das Memory Pack kann von der Steckerleiste abgezogen werden.

## Kopieren der Einstelldaten vom Memory Pack in das FS-Gerät

### Fehler

Falls beim Gebrauch des Memory Packs Fehler auftreten, zeigt das FS-Gerät dies auf dem Bildschirm mit der folgenden Meldung an:

Program  
 Error!

In diesem Fall muss der Service-Modus durch Drücken der "N"-Taste auf der Fernbedienung verlassen und anschließend der Vorgang wiederholt werden. Falls weiterhin Fehlermeldungen erscheinen, müssen die Anschlusskontakte zwischen FS-Gerät und Memory Pack sowie die 9V Batterie im Memory Pack kontrolliert werden.

## Alignment Settings

(The figures used below are nominal and used for representative purposes only)

Alignment Function		Settings / Special features
Vertical amplitude	V-AMP 026	Optimum setting
Vertical linearity	V-LIN 022	
V-Pos.	V-POS 005	
Horizontal amplitude	H-AMP 045	Optimum setting
Horizontal position	H-POS 032	
EW-amplitude	E/W-AMP 1 063	Optimum setting
EW-amplitude	E/W-AMP 2 021	Optimum setting
Trapezium-comp	TRAPEZ-1 004	Optimum setting
Vert. DC.	VERT. D.C. 008	
Text Position	TEXT POSITION 060	Optimum setting
Cutoff	- - -	Enter Service Mode and step through to Cutoff, connect an oscilloscope to the Blue Cathode and adjust the screen VR of the FBT to get 150_5V at the base of the Cutoff pulse.
Cutoff RGB	CUTOFF RGB 032 032 032	Press the GREEN button to step through the settings. Adjust for optimum.
White RGB	WHITE RGB 032 032 032	Press the GREEN button to step through the settings. Adjust for optimum.
Sub Brightness	SUB BRIGHT 000	Optimum setting



## Abgleichtabelle

(Die angegebenen Werte sind Mittelwerte und Können individuell nach oben oder unten nach dem korrekten Abgleich abweichen)

Abgleichfunktion		Einstellung/Besondere Merkmale
Vertikale Amplitude	V-AMP 026	Optimale Einstellung
Vertical linearität	V-LIN 022	
V-Pos.	V-POS 005	
Horizontale Amplitude	H-AMP 045	Optimale Einstellung
Horizontale position	H-POS 032	
OW-amplitude	E/W-AMP 1 063	Optimale Einstellung
OW-amplitude	E/W-AMP 2 021	Optimale Einstellung
Trapez-Kompensation	TRAPEZ-1 004	Optimale Einstellung
Vert. DC.	VERT. D.C. 008	
Text Position	TEXT POSITION 060	Optimale Einstellung
Cutoff	- - -	Den Service Mode aktivieren und auf Cutoff gehen. Oscilloscope an Blaukathode anschliessen und mit dem "Screen" -Regler am Zeilentrafo die untere Spitze des Cutoff-Pulses auf 150V+/- 5V einstellen.
Cutoff RGB	CUTOFF RGB 032 032 032	Die Einstellungen mit Hilfe der GRÜNEN Taste anwählen. Optimale Einstellung.
White RGB	WHITE RGB 032 032 032	Die Einstellungen mit Hilfe der GRÜNEN Taste anwählen. Optimale Einstellung.
Grundhelligket	SUB BRIGHT 000	Optimale Einstellung

## ADJUSTMENT PROCEDURE

Item/Preparation	Adjustments																																								
<b>Supply Voltage Check</b> 1. Receive a standard test pattern 2. Set the controls: Brightness Minimum Contrast Minimum Volume Minimum	1. Confirm the following voltages. <table border="0"> <tr> <td colspan="2"><u>E PCB</u></td> <td colspan="2"><u>D PCB</u></td> </tr> <tr> <td><b>U5B</b></td> <td>5</td> <td><b>U5A</b></td> <td>5.1</td> </tr> <tr> <td><b>U8</b></td> <td>8</td> <td><b>U5SB</b></td> <td>5</td> </tr> <tr> <td><b>U9</b></td> <td>9</td> <td><b>U15</b></td> <td>15</td> </tr> <tr> <td><b>U12</b></td> <td>11.8</td> <td><b>U16</b></td> <td>18.2</td> </tr> <tr> <td></td> <td></td> <td><b>U22</b></td> <td>22.5</td> </tr> <tr> <td></td> <td></td> <td><b>U38</b></td> <td>19</td> </tr> <tr> <td></td> <td></td> <td><b>U47</b></td> <td>45.7</td> </tr> <tr> <td></td> <td></td> <td><b>U150</b></td> <td>150</td> </tr> <tr> <td></td> <td></td> <td><b>U200</b></td> <td>204</td> </tr> </table>	<u>E PCB</u>		<u>D PCB</u>		<b>U5B</b>	5	<b>U5A</b>	5.1	<b>U8</b>	8	<b>U5SB</b>	5	<b>U9</b>	9	<b>U15</b>	15	<b>U12</b>	11.8	<b>U16</b>	18.2			<b>U22</b>	22.5			<b>U38</b>	19			<b>U47</b>	45.7			<b>U150</b>	150			<b>U200</b>	204
<u>E PCB</u>		<u>D PCB</u>																																							
<b>U5B</b>	5	<b>U5A</b>	5.1																																						
<b>U8</b>	8	<b>U5SB</b>	5																																						
<b>U9</b>	9	<b>U15</b>	15																																						
<b>U12</b>	11.8	<b>U16</b>	18.2																																						
		<b>U22</b>	22.5																																						
		<b>U38</b>	19																																						
		<b>U47</b>	45.7																																						
		<b>U150</b>	150																																						
		<b>U200</b>	204																																						

## SELF CHECK

Self check is used to automatically check the Bus Lines and Hexadecimal code of the TV set.

To get into the Self Check mode press and hold the Status button on the Remote Control at the same time pressing the -/v button on the customer controls at the front of the TV, and the screen will show:-

0	—	ok	Test Byte	8	—	ok	Col Decoder (M)	16	—	--	Col Decoder (P)
1	—	ok	Lst Power	9	—	ok	Clock generator	17	—	--	Q- PIP
2	—	ok	U5 Det	10	—	ok	V - Processor	18	—	ok	Not Used
3	—	ok	Protector	11	—	ok	DFU	19	—	ok	Not Used
4	—	ok	Not Used	12	—	ok	Display Processor	20	—	ok	EAROM
5	—	ok	Not Used	13	—	ok	RGB Processor	21	—	ok	Audio Matrix
6	—	ok	Not Used	14	—	ok	Deflection IC	22	—	ok	Video Matrix
7	—	ok	Not Used	15	—	ok	MSP	23	—	ok	Tuner

If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "OK".

Hex codes

09
73
E6
1F
BB
BB
03

## ABGLEICH

Vorbereitung	Abgleich																																																																						
<b>Prüfen der Versorgungsspannung</b> 1. Testbild empfangen. 2. Helligkeit auf Minimum Kontrast auf Minimum Lautstärke auf Minimum	1. Folgende Spannungen sind zu überprüfen : <table border="0"> <tr> <td style="text-align: left;"><u>E PCB</u></td> <td></td> <td></td> <td></td> <td style="text-align: left;"><u>D PCB</u></td> <td></td> <td></td> </tr> <tr> <td><b>U5B</b></td> <td>5</td> <td>-</td> <td>0.5V</td> <td><b>U5A</b></td> <td>5.1</td> <td>+0.12/-0.1V</td> </tr> <tr> <td><b>U8</b></td> <td>8</td> <td>-</td> <td>0.5V</td> <td><b>U5SB</b></td> <td>5</td> <td>0.25V</td> </tr> <tr> <td><b>U9</b></td> <td>9</td> <td>-</td> <td>0.5V</td> <td><b>U15</b></td> <td>15</td> <td>0.7V</td> </tr> <tr> <td><b>U12</b></td> <td>11.8</td> <td>-</td> <td>0.5V</td> <td><b>U16</b></td> <td>18.2</td> <td>0.8V</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><b>U22</b></td> <td>22.5</td> <td>1V</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><b>U38</b></td> <td>19</td> <td>1V</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><b>U47</b></td> <td>45.7</td> <td>2.5V</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><b>U150</b></td> <td>150</td> <td>1V</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><b>U200</b></td> <td>204</td> <td>10V</td> </tr> </table>	<u>E PCB</u>				<u>D PCB</u>			<b>U5B</b>	5	-	0.5V	<b>U5A</b>	5.1	+0.12/-0.1V	<b>U8</b>	8	-	0.5V	<b>U5SB</b>	5	0.25V	<b>U9</b>	9	-	0.5V	<b>U15</b>	15	0.7V	<b>U12</b>	11.8	-	0.5V	<b>U16</b>	18.2	0.8V					<b>U22</b>	22.5	1V					<b>U38</b>	19	1V					<b>U47</b>	45.7	2.5V					<b>U150</b>	150	1V					<b>U200</b>	204	10V
<u>E PCB</u>				<u>D PCB</u>																																																																			
<b>U5B</b>	5	-	0.5V	<b>U5A</b>	5.1	+0.12/-0.1V																																																																	
<b>U8</b>	8	-	0.5V	<b>U5SB</b>	5	0.25V																																																																	
<b>U9</b>	9	-	0.5V	<b>U15</b>	15	0.7V																																																																	
<b>U12</b>	11.8	-	0.5V	<b>U16</b>	18.2	0.8V																																																																	
				<b>U22</b>	22.5	1V																																																																	
				<b>U38</b>	19	1V																																																																	
				<b>U47</b>	45.7	2.5V																																																																	
				<b>U150</b>	150	1V																																																																	
				<b>U200</b>	204	10V																																																																	

## SELBSTDIAGNOSE

1) Die Selbstdiagnose dient zum automatischen Prüfen der Bus-Leitungen sowie des Hexadezimalcodes des FS-Geräts.

Um das Gerät in den Selbstdiagnose-Modus (Self-Check) zu versetzen, halten sie die STATUS-Taste auf der Fernbedienung gedrückt und drücken sie zusätzlich die Taste -/v im Bedienteil des TV-Gerätes. Auf dem Bildschirm erscheinen folgende Informationen.

2) Nach der Selbstdiagnose wird das Gerät automatisch auf sämtliche werksseitigen Standardeinstellungen zurückgesetzt.

0	ok	Test Byte	8	ok	Col Decoder (M)	16	--	Col Decoder (P)
1	ok	Lst Power	9	ok	Clock generator	17	--	Q- PIP
2	ok	U5 Det	10	ok	V - Processor	18	ok	Not Used
3	ok	Protector	11	ok	DFU	19	ok	Not Used
4	ok	Not Used	12	ok	Display Processor	20	ok	EAROM
5	ok	Not Used	13	ok	RGB Processor	21	ok	Audio Matrix
6	ok	Not Used	14	ok	Deflection IC	22	ok	Video Matrix
7	ok	Not Used	15	ok	MSP	23	ok	Tuner

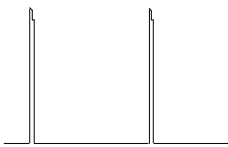
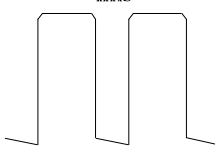

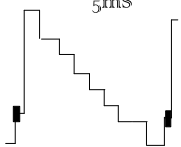

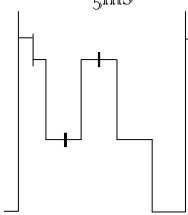
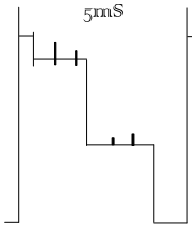
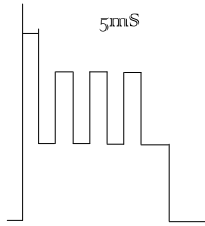
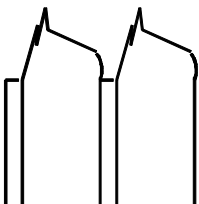
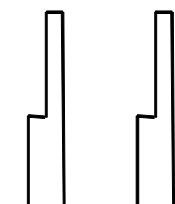
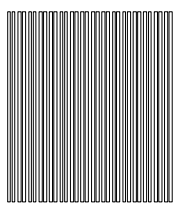
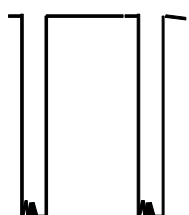
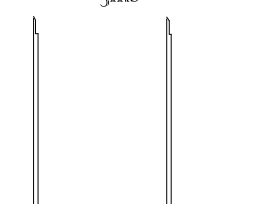
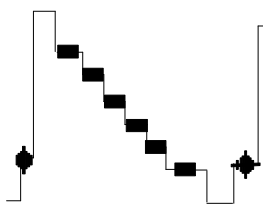
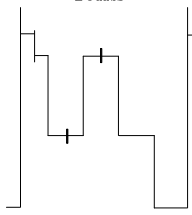
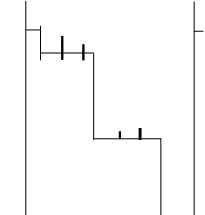
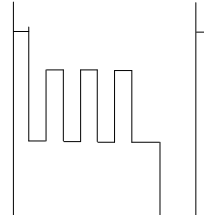
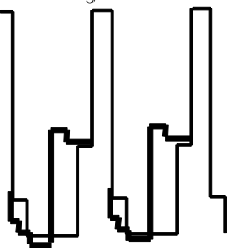
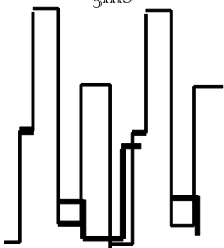
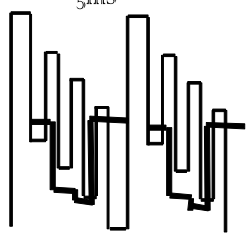
Wenn der Hauptprozessor (CCU) an den Anschlüssen einen Fehler erkennt, oder der entsprechende Anschluss nicht belegt ist, zeigt die entsprechende Position - - anstelle von OK an.

Hexadezimalcode

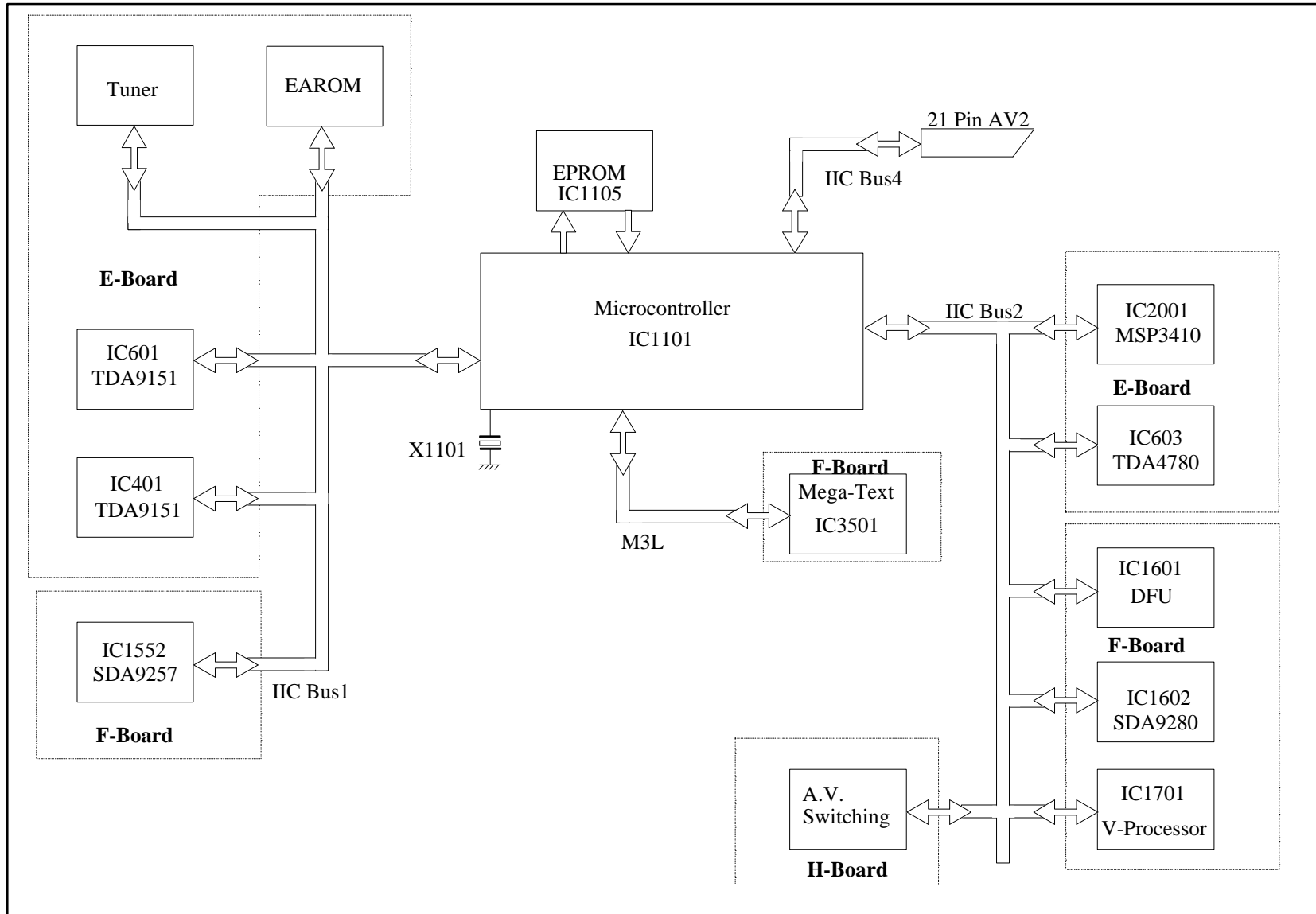
09
73
E6
1F
BB
BB
03

# WAVEFORM PATTERN TABLE

## SIGNAL TABELLE

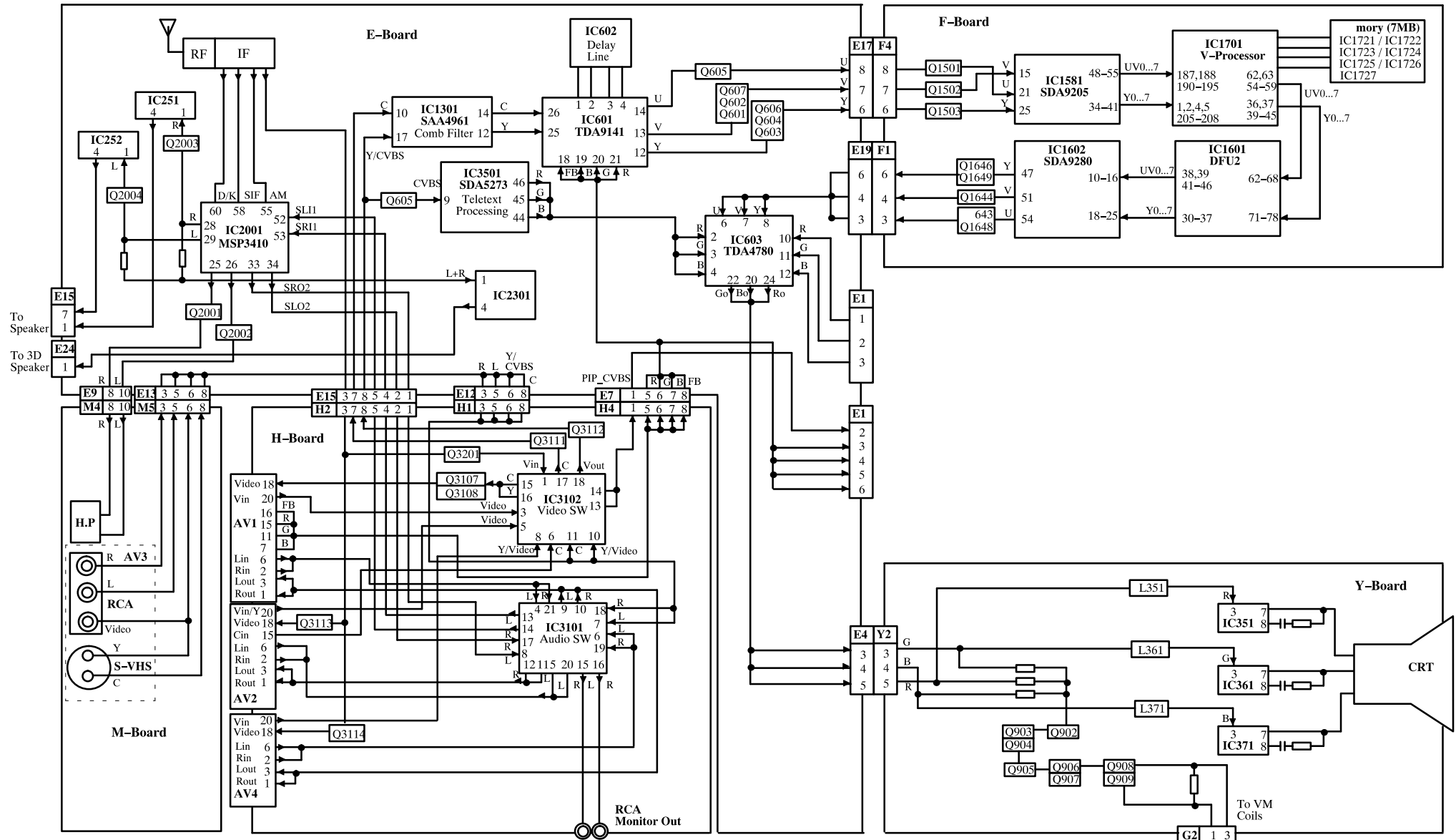
<p>IC 3501 PIN<sub>3</sub> 1ms</p> 	<p>IC 3501 PIN<sub>4</sub> 1ms</p> 	<p>IC601 PIN<sub>25</sub> 5ms</p> 	<p>IC601 PIN<sub>26</sub> 5ms</p> 
<p>Q552 COLLECTOR 20ms</p> 	<p>IC 603 PIN 20 5ms</p> 	<p>IC 603 PIN 24 5ms</p> 	<p>IC 603 PIN 22 5ms</p> 
<p>Q502 COLLECTOR 64ms</p> 	<p>IC 1801 PIN 10 20ms</p> 	<p>IC 1803 PIN 12 20ms</p> 	<p>IC 1803 PIN 1 20ms</p> 
<p>IC 1841 PIN 10 5ms</p> 	<p>IC 1801 PIN 26 5ms</p> 	<p>IC 371 PIN 3 20ms</p> 	<p>IC 351 PIN 3 20ms</p> 
<p>IC 361 PIN 3 20ms</p> 	<p>TPY1 5ms</p> 	<p>TPY2 5ms</p> 	<p>TPY3 5ms</p> 

# CONTROL BLOCK DIAGRAM




# VIDEO AND AUDIO SIGNAL PROCESSING BLOCK DIAGRAM

## SINOPTIQUE VIDEO / AUDIO



**SCHEMATIC DIAGRAM FOR MODELS  
TX-29AD50F  
TX-25AD50F  
(Euro-3H Chassis )**

**IMPORTANT SAFETY NOTICE**

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


**Notes**

1. **RESISTOR**  
All resistors are carbon 1/4W resistor, unless marked as follows:  
Unit of resistance is OHM (W) (K=1,000, M=1,000,000).
2. **CAPACITORS**  
All capacitors are ceramic 50V, unless marked as follows:  
Unit of capacitance is mF, unless otherwise stated.
3. **COIL**  
Unit of inductance is mH, unless otherwise stated.
4. Components marked 'L' on the schematic diagram shows leadless parts.
5. **TEST POINT**



6. **EARTH**    **SYMBOL**        Chassis Earth Cold        Line Earth Hot

7. **VOLTAGE MEASUREMENT**  
Voltage is measured by a DC voltmeter.  
Measurement conditions are as follows:  
Power source                            AC 220V-240V, 50Hz  
Receiving Signal                        Colour Bar signal (RF)  
All customer controls                    Maximum position

8. 
  - Indicates the video signal path
  - Indicates the Audio signal path
  - Indicates the Vertical/Horizontal path

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

**Remarks**



1. 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. All circuits, except the Power Circuit, are COLD. Take the following precautions:

**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 the instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

**ZEICHENERKLÄRUNG FÜR MODELL  
TX-29AD50F  
TX-25AD50F  
(Euro-3H Chassis)**

**WICHTIGER SICHERHEITSHINWEIS**

  
Teile, die mit einem Hinweis  gekennzeichnet sind, sind wichtig für die Sicherheit. Sollte ein Auswechseln erforderlich sein, sind unbedingt Originalteile einzusetzen.

**Anmerkung**

1. **WIDERSTÄNDE**  
Alle ¼Watt Widerstände sind Kohlewiderstände, Abweichungen sind folgt gekennzeichnet.  
Die Ma\_einheit ist OHM (W) (K=1,000 M=1,000,000)
2. **KONDENSATOREN**  
Alle Kondensatoren sind Keramikausführungen  
Spannungsfestigkeit 50V. Abweichungen sind wie folgt gekennzeichnet.  
Die Ma\_einheit ist mF, wenne keine andersen Bezeichnungen genannt sind.
3. **SPULEN**  
Die Ma\_einheit ist mH, Abweichungen sind gekennzeichnet.
4. Mit 'L' gekennzeichnete Teile sind ohne Anschlu\_drähte.
5. **TESTPUNKE**  Kennzeichnung der Testpunktposition
6. **MASSE SYMBOL**  Erdung am Chassis  Erdung an Masse-Leitung
7. **SPANNUNGSMESSUNG**  
Spannungsmessungen sind mit einem DC-Voltmeter durchzuführen. Die Me\_bedingungen sind folgende:  
Netzspannung AC 220V-240V 50Hz  
Wiedergabe Signal Farbbalken-Testbild  
Alle übrigen Einstellungen für Benutzer Sollangaben
8.   
Videosignalweg  
Audiosignalweg  
Signalweg für Hor/Vert. Synchronsignale
9. Änderungen im Laufe der Fertigung sind möglich.

**Bemerkungen**

1. Das Schaltnetzteil enthält Bereiche, die direkt mit dem Netz verbunden sind. Diese Bereiche sind im Schalplan mit HOT gekennzeichnet. Alle anderen Schaltungen sind mit COLD gekennzeichnet und haben keine direkte Verbindung mit dem Netz.

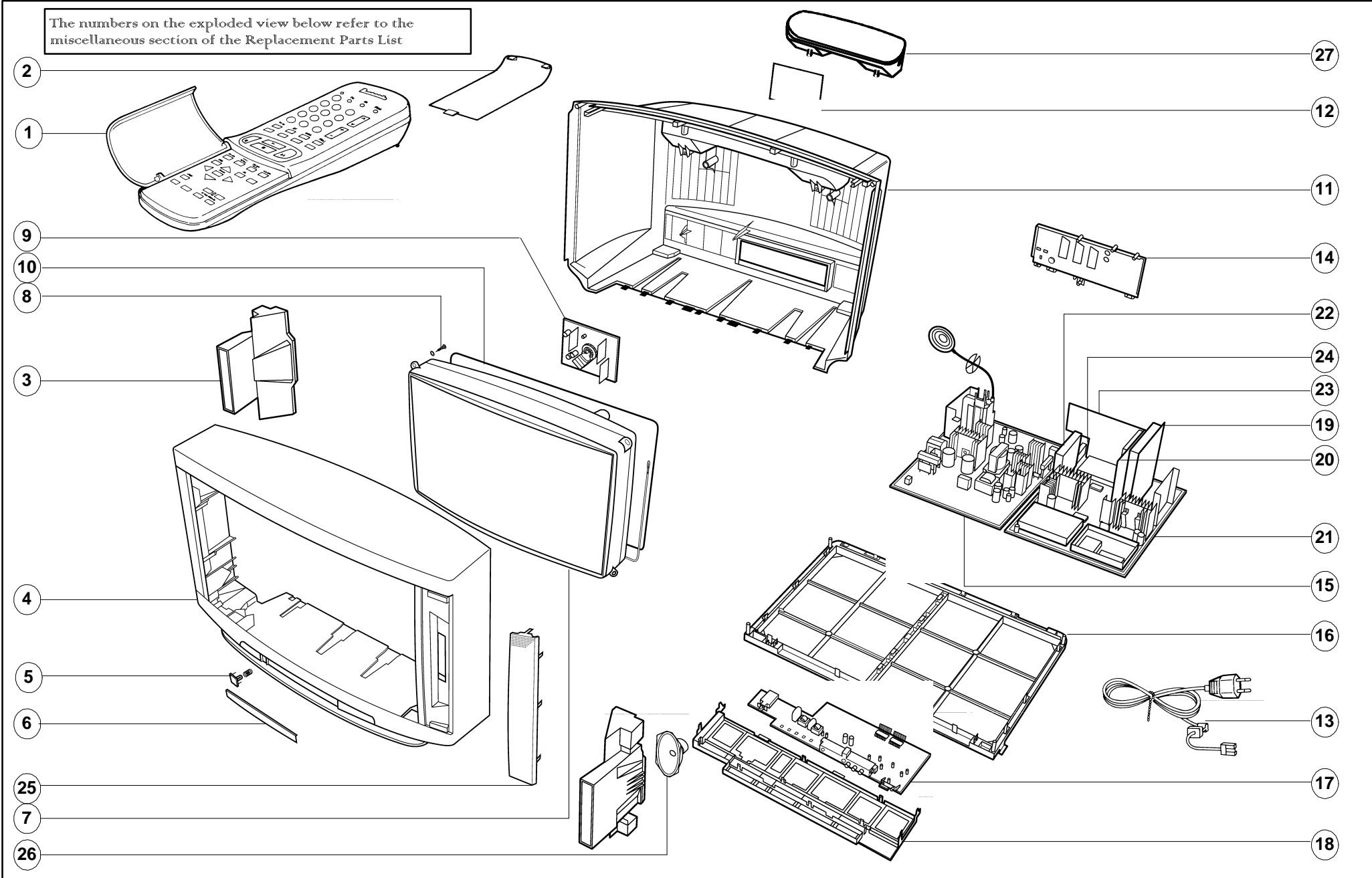
**Für den netzverbundenen Bereich (HOT) sind folgende Vorsichtsmaßnahmen zu beachten:**

- a. Weder die Leitungen im hei\_eren noch Leitungen im hei\_eren und im kalten Bereich gleichzeitig berühren. Es besteht die Gefahr eines elektrischen Schlages.
- b. Keinesfalls die Leitungen im hei\_eren Bereich mit denen im kalten Bereich verbinden oder kurzschließen. Dies kann zur Zerstörung von Bauteilen oder Sicherungen führen. Außerdem ist die elektrische Betriebssicherheit des Gerätes nicht mehr gegeben.
- c. Keine Messinstrumente gleichzeitig an Leitungen im heißen und kalten Bereich anschließen. Sicherungen könnten zerstört werden. Die Erde des Messinstrumentes immer mit der des zu prüfenden Schaltkreises verbinden.
- d. Vor Ausbau des Chassis, Stecker aus der Netzsteckdose ziehen.



# PARTS LOCATION

The numbers on the exploded view below refer to the miscellaneous section of the Replacement Parts List



# COMMON PARTS FOR TX-29AD50F AND TX-25AD50F

## REPLACEMENT PARTS LIST

### Important Safety Notice

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

## ERSATZTEILLISTE

### Wichtiger Sicherheitshinweis

Teile, die mit einem Hinweis **mark** gekennzeichnet sind, sind wichtig für die Sicherheit. Sollte ein Auswechsell erforderlich sein, sind unbedingt Originalteile einzusetzen.

### MISCELLANEOUS COMPONENTS

1)	EUR51923	REMOTE CONTROL	
2)	UR51EC780	BATTERY COVER (REMOTE)	
3)	TKK8E026	SPEAKER REFLECTOR	
4)	*****	SEE DIFFERENCE LIST	
5)	TBX8E033	POWER BUTTON	
6)	TKP8E1149	LID	
7)	*****	SEE DIFFERENCE LIST	
8)	*****	SEE DIFFERENCE LIST	
9)	*****	SEE DIFFERENCE LIST	
10)	*****	SEE DIFFERENCE LIST	
11)	TNPA0292AC	Y P.C.B.	▲
12)	*****	SEE DIFFERENCE LIST	
13)	*****	SEE DIFFERENCE LIST	
14)	TKP8E1154	AV COVER	
15)	*****	SEE DIFFERENCE LIST	
16)	TMX8E014	CHASSIS FRAME	
17)	TNPA0348AA	M P.C.B.	▲
18)	TMW8E023	CONTROL BRACKET	
19)	TNPA0294AA	F P.C.B.	▲
20)	*****	SEE DIFFERENCE LIST	
21)	TNPA0317AA	B P.C.B.	▲
22)	ENV57D03G3	TUNER	▲
23)	TNPA0293AB	H P.C.B.	▲
24)	*****	SEE DIFFERENCE LIST	
25)	EAGG1218E2	SPEAKER	
26)	TSX8E0020	POWER LEAD	▲
27)	EAB10102B2	LOUDSPEAKER	
	TPD8E562	CUSHION	
	TQB8E2215A-1	INST BOOK GERMAN	▲
	TQB8E2215B-1	INST BOOK DUTCH	▲
	TQB8E2215C-1	INST BOOK ITALIAN	▲
	TQB8E2215D-1	INST BOOK FRENCH	▲
	TQB8E2215E-1	INST BOOK SPANISH	▲
	TQB8E2215F-1	INST BOOK SWEDISH	▲
	TQB8E2215G-1	INST BOOK NORWEGIAN	▲
	TQB8E2215H-1	INST BOOK SUOMI	▲
	TQB8E2215J-1	INST BOOK PORTUGUESE	▲
	TQB8E2215K-1	INST BOOK DANISH	▲
	TMX8E015	PCB SUPPORT BRACKET	
	TBM8E1532-1	IND SHEET	
	TKP8E1150	FRONT PANEL LEFT	
	TKP8E1161	FRONT PANEL RIGHT	
	TMW8E017	L.E.D. HOLDER	
	TEK6940	LID CATCHER	
	UM-3DEP-2P	BATTERY	
	832AG11D-ESL	I.C.SOCKET	
	ERC12GK825	SOLID 0.5W 10% 8M2W	
	PCS-068A-1	68 PIN I.C.SOCKET	

### CAPACITORS

C002	ECUV1H102JCX	S.M.CAP	50V	1nF
C003	ECA1HM101GB	ELECT	50V	100pF
C004	ECUV1H102JCX	S.M.CAP	50V	1nF
C005	ECUV1H102JCX	S.M.CAP	50V	1nF
C006	ECUV1H102JCX	S.M.CAP	50V	1nF

C007	ECUV1H102JCX	S.M.CAP	50V	1nF
C009	ECA1HMR22GB	ELECT	50V	0.22mF
C010	ECUV1H102KBX	S.M.CAP	50V	1nF
C014	ECUV1H103ZFX	S.M.CAP	50V	10nF
C015	ECUV1H390JCX	S.M.CAP	50V	39pF
C016	ECUV1H390JCX	S.M.CAP	50V	39pF
C017	ECA1CM470GB	ELECT	16V	47mF
C019	ECUV1H561JCX	S.M.CAP	50V	560pF
C020	ECUV1H103ZFX	S.M.CAP	50V	10nF
C022	ECUV1H103ZFX	S.M.CAP	50V	10nF
C023	ECUV1H681JCX	S.M.CAP	50V	680pF
C024	ECUV1H103ZFX	S.M.CAP	50V	10nF
C025	ECUV1H101JCX	S.M.CAP	50V	100pF
C026	ECUV1H681JCX	S.M.CAP	50V	680pF
C101	ECUV1H104ZFX	S.M.CAP	50V	100nF
C106	ECUV1H104ZFX	S.M.CAP	50V	100nF
C108	ECUV1H104ZFX	S.M.CAP	50V	100nF
C109	ECUV1H104ZFX	S.M.CAP	50V	100nF
C111	ECUV1H103ZFX	S.M.CAP	50V	10nF
C113	ECUV1H393KBX	S.M.CAP	50V	39nF
C115	ECUV1H104ZFX	S.M.CAP	50V	100nF
C116	ECUV1H030CPX	S.M.CAP	50V	30pF
C117	ECUV1H070DTX	S.M.CAP	50V	70pF
C118	ECEA1CKA100	ELECT	16V	10mF
C120	ECEA1HKA2R2	ELECT	50V	2.2mF
C121	ECEA1HKA2R2	ELECT	50V	2.2mF
C122	ECUV1C105ZFX	S.M.CAP	16V	1000nF
C123	ECEA1HKA2R2	ELECT	50V	2.2mF
C124	ECUV1H471JCX	S.M.CAP	50V	470pF
C125	ECUV1H104ZFX	S.M.CAP	50V	100nF
C126	ECUV1H104ZFX	S.M.CAP	50V	100nF
C127	ECEA1CKA100	ELECT	16V	10mF
C128	ECUV1H102KBX	S.M.CAP	50V	1nF
C129	ECEA1CKA100	ELECT	16V	10mF
C130	ECUV1H104ZFX	S.M.CAP	50V	100nF
C131	ECUV1H102KBX	S.M.CAP	50V	1nF
C132	ECUV1H102KBX	S.M.CAP	50V	1nF
C133	ECUV1H102KBX	S.M.CAP	50V	1nF
C134	ECUV1H104ZFX	S.M.CAP	50V	100nF
C135	ECEA1CKA100	ELECT	16V	10mF
C136	ECUV1H104ZFX	S.M.CAP	50V	100nF
C137	ECUV1H100DCX	S.M.CAP	50V	10pF
C138	ECUV1H151JCX	S.M.CAP	50V	150pF
C139	ECUV1H104ZFX	S.M.CAP	50V	100nF
C140	ECUV1H151JCX	S.M.CAP	50V	150pF
C142	ECUV1H100DCX	S.M.CAP	50V	10pF
C143	ECUV1H220JCX	S.M.CAP	50V	22pF
C144	ECUV1H151JCX	S.M.CAP	50V	150pF
C145	ECUV1H151JCX	S.M.CAP	50V	150pF
C146	ECUV1H120JCX	S.M.CAP	50V	12pF
C148	ECUV1H103ZFX	S.M.CAP	50V	10nF
C150	ECEA1CKA100	ELECT	16V	10mF
C151	ECUV1H104ZFX	S.M.CAP	50V	100nF
C152	ECUV1H104ZFX	S.M.CAP	50V	100nF
C153	ECUV1H120JCX	S.M.CAP	50V	12pF
C158	ECUV1H103ZFX	S.M.CAP	50V	10nF
C159	ECUV1H080CCX	S.M.CAP	50V	80pF
C251	ECQM1H474J	FILM	50V	470nF
C252	ECUV1H222JCX	S.M.CAP	50V	2.2nF

C254	ECUV1H393KBX	S.M.CAP	50V	39nF		C557	ECKC2H331J	CERAMIC	500V	330pF	▲
C255	ECEA1CN100	ELECT	16V	10mF		C558	ECA2EM330B	ELECT	250V	33pF	
C256	ECA1HM330B	ELECT	50V	33pF		C559	ECKC2H101J	CERAMIC	500V	100pF	▲
C257	ECA1HM100GB	ELECT	50V	10pF		C560	ECA1EM332E	ELECT	25V	3.3nF	
C258	ECQM1H474J	FILM	50V	470nF		C561	ECKC2H561J	CERAMIC	500V	560pF	▲
C259	ECUV1H222JCX	S.M.CAP	50V	2.2nF		C562	ECA1JM220B	ELECT	63V	22pF	
C261	ECUV1H393KBX	S.M.CAP	50V	39nF		C563	TAC7A2D564JC	CERAMIC	200V	0.56mF	
C262	ECEA1CN100	ELECT	16V	10mF		C564	ECKC1H472J	CERAMIC	50V	4.7nF	
C263	ECA1HM330B	ELECT	50V	33pF		C565	ECQP1823JZW	FILM	100V	82nF	
C264	ECA1HM100GB	ELECT	50V	10pF		C571	ECQV1H105JZ	FILM	50V	1mF	
C267	ECUV1H103ZFX	S.M.CAP	50V	10nF		C572	TAC4R6T472JC	CERAMIC	1500V	4.7nF	
C268	ECUV1H223ZFX	S.M.CAP	50V	22nF		C573	ECQF4153JZH	FILM	400V	15nF	
C269	ECA1EM222GB	ELECT	25V	2.2nF		C574	TAC1114Z684A	CERAMIC	400V	0.68mF	
C270	ECA1EM222GB	ELECT	25V	2.2nF		C575	TAC1114Z684A	CERAMIC	400V	0.68mF	
C271	ECA1HM010GB	ELECT	50V	1pF		C581	ECQF4123JZH	FILM	400V	12nF	
C272	ECA1HM010GB	ELECT	50V	1pF		C584	ECKC3D221JB	CERAMIC	2.0KV	220pF	
C273	ECA1HM010GB	ELECT	50V	1pF		C585	ECKC3A471J	CERAMIC	1KV	470pF	▲
C274	ECA1HM010GB	ELECT	50V	1pF		C586	ECKC1H103JB	CERAMIC	50V	10nF	
C275	ECUV1C184KBX	S.M.CAP	16V	0.18mF		C601	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C276	ECUV1C184KBX	S.M.CAP	16V	0.18mF		C602	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C277	ECEA1HU471	ELECT	50V	470mF		C603	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C280	ECUV1H562KBX	S.M.CAP	50V	5.6nF		C604	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C281	ECUV1H561JCX	S.M.CAP	50V	560pF		C605	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C282	ECUV1H561JCX	S.M.CAP	50V	560pF		C606	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C283	ECUV1H561JCX	S.M.CAP	50V	560pF		C608	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C352	ECUV1H224ZFX	S.M.CAP	50V	0.22mF		C609	ECUV1H180JCX	S.M.CAP	50V	18pF	
C353	ECUV1H103KBX	S.M.CAP	50V	10nF		C610	ECUV1H150JCX	S.M.CAP	50V	15pF	
C354	ECKC2H103J	CERAMIC	50V	10nF	▲	C611	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C355	ECKC2H102J	CERAMIC	500V	1nF	▲	C612	ECUV1H332ZFX	S.M.CAP	50V	3.3nF	
C362	ECUV1H224ZFX	S.M.CAP	50V	0.22mF		C613	ECUV1C474ZFX	S.M.CAP	16V	0.47mF	
C363	ECUV1H103KBX	S.M.CAP	50V	10nF		C614	ECUV1H332ZFX	S.M.CAP	50V	3.3nF	
C364	ECKC2H103J	CERAMIC	50V	10nF	▲	C615	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C365	ECKC2H102J	CERAMIC	500V	1nF	▲	C616	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C372	ECUV1H224ZFX	S.M.CAP	50V	0.22mF		C617	ECA1CM220GB	ELECT	16V	22mF	
C373	ECUV1H103KBX	S.M.CAP	50V	10nF		C618	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C374	ECKC2H103J	CERAMIC	50V	10nF	▲	C619	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C375	ECKC2H102J	CERAMIC	500V	1nF	▲	C620	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C381	ECA1HM101GB	ELECT	50V	100pF		C621	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C382	ECA0JM471GB	ELECT	6.3V	470pF		C622	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C383	ECUV1H103KBX	S.M.CAP	50V	10nF		C623	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C384	ECQM2104KZ	FILM	250V	100nF		C624	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C385	ECEA2EU220	ELECT	250V	22mF		C625	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C386	ECKC3D152J	CERAMIC	2KV	1.5nF	▲	C626	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C395	ECQM1H104J	FILM	50V	100nF		C627	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C402	ECUV1H104ZFX	S.M.CAP	50V	100nF		C628	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C403	ECA1AM332E	ELECT	10V	3.3nF		C629	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C404	ECUV1H104ZFX	S.M.CAP	50V	100nF		C630	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C405	ECUV1H104ZFX	S.M.CAP	50V	100nF		C631	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C406	ECUV1H471JCX	S.M.CAP	50V	470pF		C632	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C409	ECUV1H101JCX	S.M.CAP	50V	100pF		C633	ECUV1H470JCX	S.M.CAP	50V	47pF	
C413	ECUV1H561KBX	S.M.CAP	50V	560pF		C634	ECA1AM221GB	ELECT	10V	220pF	
C451	ECUV1H104ZFX	S.M.CAP	50V	100nF		C635	ECA1HM220GB	ELECT	50V	22pF	
C452	ECA1EM332E	ELECT	25V	3.3nF		C636	ECA1HM010GB	ELECT	50V	1pF	
C453	ECEA1HU101	ELECT	50V	100mF		C637	ECQM1H224J	FILM	50V	220nF	
C455	ECEA1HN100	ELECT	50V	10mF		C638	ECA1HM010GB	ELECT	50V	1pF	
C456	ECQV1104JZ3	FILM	100V	100nF		C639	ECQM1H224J	FILM	50V	220nF	
C457	ECUV1H102JCX	S.M.CAP	50V	1nF		C640	ECQM1H224J	FILM	50V	220nF	
C462	ECKC3A471J	CERAMIC	1KV	470pF	▲	C641	ECQM1H224J	FILM	50V	220nF	
C463	ECUV1H102KBX	S.M.CAP	50V	1nF		C642	ECA1AM470GB	ELECT	10V	47pF	
C464	ECKC1H102J	CERAMIC	50V	1000pF		C643	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C501	ECQM1H224J	FILM	50V	220nF		C644	ECA1CM470GB	ELECT	16V	47mF	
C502	ECQM2683JZ	FILM	250V	68nF		C645	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C503	ECKC2H102J	CERAMIC	500V	1nF	▲	C646	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C504	ECQB1H223K	FILM	50V	22nF		C647	ECEA1CN470	ELECT	16V	47mF	
C506	ECKC2H102J	CERAMIC	500V	1nF	▲	C648	ECEA1CN470	ELECT	16V	47mF	
C552	TAC4R6T392JC	CERAMIC	1500V	3.9nF		C651	ECUV1H820JCX	S.M.CAP	50V	82pF	
C553	ECQP1104JZW	FILM	100V	0.10mF		C654	ECUV1H393KBX	S.M.CAP	50V	39nF	
C555	TAC4R6T472JC	CERAMIC	1500V	4.7nF		C655	ECUV1E563KBX	S.M.CAP	25V	56nF	
C556	ECEA2CNR475B	ELECT	160V	R47mF		C657	ECUV1C474ZFX	S.M.CAP	16V	0.47mF	

C659	ECUV1H821KBX	S.M.CAP	50V	820pF		C1051	ECKC1H101J	CERAMIC	50V	100pF
C661	ECUV1H103ZFX	S.M.CAP	50V	10nF		C1052	ECA1VM470B	ELECT	35V	47pF
C662	ECUV1H470JCX	S.M.CAP	50V	47pF		C1053	ECKC1H103JB	CERAMIC	50V	10nF
C663	ECUV1H150JCX	S.M.CAP	50V	15pF		C1102	ECUV1H104ZFX	S.M.CAP	50V	100nF
C703	ECUV1C224KBX	S.M.CAP	16V	220nF		C1103	ECUV1H104ZFX	S.M.CAP	50V	100nF
C752	ECKC2H103J	CERAMIC	50V	10nF	▲	C1104	ECA0JM101G	ELECT	6.3V	100pF
C803	ECQE2A474MWB	FILM	100V	0.47mF		C1105	ECUV1H330JCX	S.M.CAP	50V	33pF
C804	222233510154			0.15mF		C1106	ECUV1H330JCX	S.M.CAP	50V	33pF
C806	ECQE6104K	FILM	600V	100nF	▲	C1107	ECUV1H391JCX	S.M.CAP	50V	390pF
C807	ECQB1H473K	FILM	50V	47nF		C1108	ECUV1H103ZFX	S.M.CAP	50V	10nF
C808	ECQB1H333J	FILM	50V	33nF		C1109	ECUV1H472KBX	S.M.CAP	50V	4.7nF
C810	222233510154			0.15mF		C1110	ECUV1H104ZFX	S.M.CAP	50V	100nF
C811	ECQB1H104J	FILM	50V	100nF		C1111	ECUV1H101JCX	S.M.CAP	50V	100pF
C812	ECQB1H222J	FILM	50V	2200pF		C1112	ECUV1H103ZFX	S.M.CAP	50V	10nF
C813	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1114	ECUV1H102JCX	S.M.CAP	50V	1nF
C814	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1115	ECUV1H102JCX	S.M.CAP	50V	1nF
C815	ECA1CM331B	ELECT	16V	330pF		C1126	ECUV1H104ZFX	S.M.CAP	50V	100nF
C816	ECQB1H122J	FILM	50V	1.2nF		C1127	ECUV1H104ZFX	S.M.CAP	50V	100nF
C817	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1129	ECA1AM470GB	ELECT	10V	47pF
C818	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1130	ECUV1H104ZFX	S.M.CAP	50V	100nF
C819	ECOS2GA181DB	ELECT	400V	180pF		C1131	ECUV1H101JCX	S.M.CAP	50V	100pF
C820	ECOS2GA181DB	ELECT	400V	180pF		C1133	ECUV1C184KBX	S.M.CAP	16V	0.18mF
C821	ECQB1H222J	FILM	50V	2200pF		C1134	ECUV1H103KBX	S.M.CAP	50V	10nF
C822	ECKC3D102J	CERAMIC	2KV	1nF	▲	C1135	ECUV1H103ZFX	S.M.CAP	50V	10nF
C823	EEUFA1V221B		35V	220pF		C1136	ECUV1H101JCX	S.M.CAP	50V	100pF
C824	ECQB1H121KF3	FILM	50V	120pF		C1137	ECUV1H102KBX	S.M.CAP	50V	1nF
C826	ECQB1H473K	FILM	50V	47nF		C1138	ECUV1H104ZFX	S.M.CAP	50V	100nF
C827	ECKCNS332J	CERAMIC	1.2KV	3.3nF	▲	C1302	ECUV1H150JCX	S.M.CAP	50V	15pF
C830	ECQE4105JFW	FILM	400V	1mF		C1304	ECUV1H103ZFX	S.M.CAP	50V	10nF
C831	ECKC3D471JB	CERAMIC	2KV	470pF	▲	C1305	ECA1HM101GB	ELECT	50V	100pF
C833	ECQB1H682K	FILM	50V	6.8nF		C1306	ECUV1H104ZFX	S.M.CAP	50V	100nF
C834	ECQB1H471KF3	FILM	50V	470pF		C1307	ECUV1H104ZFX	S.M.CAP	50V	100nF
C835	ECQB1H152K	FILM	50V	1.5nF		C1308	ECA1HM101GB	ELECT	50V	100pF
C849	ECKC2H471J	CERAMIC	500V	470pF	▲	C1309	ECUV1H104ZFX	S.M.CAP	50V	100nF
C851	ECQM1H104J	FILM	50V	100nF		C1310	ECUV1H104ZFX	S.M.CAP	50V	100nF
C852	ECKC3D102J	CERAMIC	2KV	1nF	▲	C1311	ECUV1H104ZFX	S.M.CAP	50V	100nF
C853	ECA1CM471GB	ELECT	16V	470pF		C1312	ECUV1H104ZFX	S.M.CAP	50V	100nF
C854	ECA1EM471GB	ELECT	25V	470pF		C1313	ECUV1H104ZFX	S.M.CAP	50V	100nF
C855	ECEA1HU102	ELECT	50V	1000mF		C1314	ECUV1H104ZFX	S.M.CAP	50V	100nF
C856	ECEA1HU471	ELECT	50V	470mF		C1315	ECUV1H104ZFX	S.M.CAP	50V	100nF
C857	ECA1EM471GB	ELECT	25V	470pF		C1316	ECA1HM101GB	ELECT	50V	100pF
C858	ECOS2EA271BB	ELECT	250V	270pF		C1317	ECUV1H104ZFX	S.M.CAP	50V	100nF
C859	ECKC2H471J	CERAMIC	500V	470pF	▲	C1318	ECA1HM101GB	ELECT	50V	100pF
C861	ECOS2EA221AB	ELECT	250V	220mF		C1321	ECUV1H104ZFX	S.M.CAP	50V	100nF
C863	ECA1EM222GB	ELECT	25V	2.2nF		C1322	ECUV1H101JCX	S.M.CAP	50V	100pF
C864	ECA0JM102GB	ELECT	6.3V	1nF		C1323	ECA1HM101GB	ELECT	50V	100pF
C866	ECA1HM101GB	ELECT	50V	100pF		C1324	ECA1HM101GB	ELECT	50V	100pF
C867	ECA1CM222GB	ELECT	16V	2200mF		C1325	ECUV1H103ZFX	S.M.CAP	50V	10nF
C868	ECA1CM100GB	ELECT	16V	10pF		C1326	ECUV1H104ZFX	S.M.CAP	50V	100nF
C871	ECA0JM102GB	ELECT	6.3V	1nF		C1327	ECUV1H104ZFX	S.M.CAP	50V	100nF
C872	ECA1CM222GB	ELECT	16V	2200mF		C1508	ECUV1H103KBX	S.M.CAP	50V	10nF
C901	ECUV1H030CCX	S.M.CAP	50V	30pF		C1509	ECA1CM100GB	ELECT	16V	10pF
C902	ECA1VM101GB	ELECT	35V	100pF		C1518	ECA1HM101GB	ELECT	50V	100pF
C903	ECA1CM470GB	ELECT	16V	47mF		C1519	ECA1CM470GB	ELECT	16V	47mF
C904	ECUV1H103ZFX	S.M.CAP	50V	10nF		C1520	ECA1CM470GB	ELECT	16V	47mF
C905	ECA1CM100GB	ELECT	16V	10pF		C1521	ECUV1H390JCX	S.M.CAP	50V	39pF
C906	ECUV1H151JCX	S.M.CAP	50V	150pF		C1524	ECUV1H221JCX	S.M.CAP	50V	220pF
C908	ECUV1H151JCX	S.M.CAP	50V	150pF		C1525	ECUV1H391JCX	S.M.CAP	50V	390pF
C909	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1528	ECUV1H390JCX	S.M.CAP	50V	39pF
C910	ECKC2H472J	CERAMIC	500V	4.7nF	▲	C1529	ECUV1H221JCX	S.M.CAP	50V	220pF
C911	ECUV1H151JCX	S.M.CAP	50V	150pF		C1531	ECUV1H391JCX	S.M.CAP	50V	390pF
C912	ECEA2EU220	ELECT	250V	22mF		C1532	ECUV1H151JCX	S.M.CAP	50V	150pF
C913	ECA1HM101GB	ELECT	50V	100pF		C1533	ECUV1H750JCX	S.M.CAP	50V	75pF
C914	ECA1HM101GB	ELECT	50V	100pF		C1534	ECUV1H391JCX	S.M.CAP	50V	390pF
C915	ECA1CM471GB	ELECT	16V	470pF		C1537	ECA0JM102GB	ELECT	6.3V	1nF
C916	ECEA2EU220	ELECT	250V	22mF		C1552	ECUV1H104ZFX	S.M.CAP	50V	100nF
C917	ECA1HM100GB	ELECT	50V	10pF		C1554	ECUV1H104ZFX	S.M.CAP	50V	100nF
C918	ECUV1H103ZFX	S.M.CAP	50V	10nF		C1555	ECA0JM331GB	ELECT	6.3V	330pF
C919	ECCR2H680J	CERAMIC	500V	68pF		C1556	ECUV1H270JCX	S.M.CAP	50V	27pF

C1557	ECUV1H270JCX	S.M.CAP	50V	27pF	C1727	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1559	ECUV1H103KBX	S.M.CAP	50V	10nF	C1728	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1560	ECUV1H103KBX	S.M.CAP	50V	10nF	C1729	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1561	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1730	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1562	ECA0JM331GB	ELECT	6.3V	330pF	C1731	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1564	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1732	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1575	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1733	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1576	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1734	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1577	ECA1CM470GB	ELECT	16V	47mF	C1735	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1579	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1736	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1580	ECUV1H104ZFX	S.M.CAP	50V	100nF	C1740	ECUV1H102KBX	S.M.CAP	50V	1nF
C1583	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2001	ECA1CM100GB	ELECT	16V	10pF
C1584	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2002	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1585	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2003	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1586	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2004	ECUV1H102JCX	S.M.CAP	50V	1nF
C1588	ECA1CM470GB	ELECT	16V	47mF	C2005	ECUV1H391JCX	S.M.CAP	50V	390pF
C1590	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2006	ECUV1H391JCX	S.M.CAP	50V	390pF
C1591	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2007	ECUV1H102JCX	S.M.CAP	50V	1nF
C1592	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2008	ECUV1H102JCX	S.M.CAP	50V	1nF
C1593	ECA1CM470GB	ELECT	16V	47mF	C2009	ECUV1H102JCX	S.M.CAP	50V	1nF
C1594	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2010	ECUV1H102JCX	S.M.CAP	50V	1nF
C1595	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2011	ECUV1H102JCX	S.M.CAP	50V	1nF
C1596	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2012	ECUV1H102JCX	S.M.CAP	50V	1nF
C1599	ECA1CM470GB	ELECT	16V	47mF	C2014	ECQM1H334J	FILM	50V	330nF
C1601	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2017	ECA1CM100GB	ELECT	16V	10pF
C1602	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2018	ECA1CM100GB	ELECT	16V	10pF
C1603	ECUV1H103KBX	S.M.CAP	50V	10nF	C2019	ECA1HM101GB	ELECT	50V	100pF
C1604	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2020	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1605	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2021	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1606	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2022	ECA1HM3R3GB	ELECT	50V	3.3mF
C1607	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2023	ECUV1H471JCX	S.M.CAP	50V	470pF
C1608	ECA1CM470GB	ELECT	16V	47mF	C2024	ECUV1H471JCX	S.M.CAP	50V	470pF
C1610	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2025	ECUV1H221JCX	S.M.CAP	50V	220pF
C1611	ECUV1H103KBX	S.M.CAP	50V	10nF	C2026	ECUV1H221JCX	S.M.CAP	50V	220pF
C1612	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2027	ECUV1H221JCX	S.M.CAP	50V	220pF
C1613	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2028	ECUV1H221JCX	S.M.CAP	50V	220pF
C1614	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2029	ECUV1H221JCX	S.M.CAP	50V	220pF
C1615	ECUV1H101JCX	S.M.CAP	50V	100pF	C2030	ECUV1H221JCX	S.M.CAP	50V	220pF
C1616	ECUV1H152JCX	S.M.CAP	50V	1.5pF	C2031	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1617	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2032	ECA1CM100GB	ELECT	16V	10pF
C1618	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2034	ECUV1H070DCX	S.M.CAP	50V	7pF
C1619	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2035	ECUV1H560JCX	S.M.CAP	50V	56pF
C1620	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2036	ECUV1H100DCX	S.M.CAP	50V	10pF
C1621	ECA1CM470GB	ELECT	16V	47mF	C2037	ECUV1H220JCX	S.M.CAP	50V	22pF
C1622	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2039	ECUV1H070DCX	S.M.CAP	50V	7pF
C1625	ECA1CM470GB	ELECT	16V	47mF	C2040	ECUV1H560JCX	S.M.CAP	50V	56pF
C1641	ECA1CM470GB	ELECT	16V	47mF	C2041	ECUV1H560JCX	S.M.CAP	50V	56pF
C1642	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2042	ECUV1H104ZFX	S.M.CAP	50V	100nF
C1670	ECUV1H560JCX	S.M.CAP	50V	56mF	C2043	ECA1CM100GB	ELECT	16V	10pF
C1701	ECA1CM470GB	ELECT	16V	47mF	C2044	ECUV1H030CPX	S.M.CAP	50V	30pF
C1702	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2045	ECUV1H030CCX	S.M.CAP	50V	30pF
C1703	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2050	ECUV1H223ZFX	S.M.CAP	50V	22nF
C1704	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2051	ECUV1H223ZFX	S.M.CAP	50V	22nF
C1705	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2052	ECUV1H103ZFX	S.M.CAP	50V	10nF
C1706	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2053	ECUV1H103ZFX	S.M.CAP	50V	10nF
C1707	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2054	ECA1CM331B	ELECT	16V	330pF
C1708	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2055	ECA1CM331B	ELECT	16V	330pF
C1709	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2058	ECUV1H683ZFX	S.M.CAP	50V	68nF
C1710	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2059	ECUV1H102KBX	S.M.CAP	50V	1nF
C1711	ECUV1H103KBX	S.M.CAP	50V	10nF	C2060	ECUV1H102KBX	S.M.CAP	50V	1nF
C1712	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2301	ECQM1H474J	FILM	50V	470nF
C1713	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2302	ECUV1H224ZFX	S.M.CAP	50V	0.22mF
C1714	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2303	ECUV1H101JCX	S.M.CAP	50V	100pF
C1721	ECA1CM470GB	ELECT	16V	47mF	C2304	ECEA1HN010UB	ELECT	50V	1mF
C1722	ECA1CM470GB	ELECT	16V	47mF	C2305	ECA1HM220GB	ELECT	50V	22pF
C1723	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2306	ECUV1H223ZFX	S.M.CAP	50V	22nF
C1724	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2307	ECUV1H223ZFX	S.M.CAP	50V	22nF
C1725	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2308	ECA1HM010GB	ELECT	50V	1pF
C1726	ECUV1H104ZFX	S.M.CAP	50V	100nF	C2309	ECUV1H393KBX	S.M.CAP	50V	39nF

C2310	ECUV1H393KBX	S.M.CAP	50V	39nF					
C2311	ECA1HM101GB	ELECT	50V	100pF					
C2312	ECUV1H393KBX	S.M.CAP	50V	39nF					
C2313	ECUV1H393KBX	S.M.CAP	50V	39nF					
C2314	ECA1HM100GB	ELECT	50V	10pF					
C2315	ECUV1H562KBX	S.M.CAP	50V	5.6nF					
C2316	ECA1HM010GB	ELECT	50V	1pF					
C2317	ECA1HM010GB	ELECT	50V	1pF					
C2318	ECUV1H050CCX	S.M.CAP	50V	5pF					
C2319	ECUV1H103ZFX	S.M.CAP	50V	10nF					
C2320	ECUV1H102KBX	S.M.CAP	50V	1nF					
C2351	ECA1HM471GB	ELECT	50V	470pF					
C2352	ECA1CM471GB	ELECT	16V	470pF					
C2353	ECA1HM4R7GB	ELECT	50V	4.7mF					
C2354	ECKC1H103J	CERAMIC	50V	10nF					
C2355	ECA1HMR33GB	ELECT	50V	0.33mF					
C2356	ECKC1H103JB	CERAMIC	50V	10nF					
C2360	ECKC1H103JB	CERAMIC	50V	10nF					
C2361	ECA1HM471GB	ELECT	50V	470pF					
C2362	ECA1CM471GB	ELECT	16V	470pF					
C2363	ECA1HM4R7GB	ELECT	50V	4.7mF					
C2364	ECKC1H103J	CERAMIC	50V	10nF					
C2365	ECA1HMR33GB	ELECT	50V	0.33mF					
C2366	ECKC1H103JB	CERAMIC	50V	10nF					
C3001	ECKC1H561J	CERAMIC	50V	560pF					
C3002	ECKC1H561J	CERAMIC	50V	560pF					
C3101	ECEA1HN4R7UB	ELECT	50V	4.7mF					
C3102	ECA1HM470GB	ELECT	50V	47mF					
C3103	ECA1CM470GB	ELECT	16V	47mF					
C3107	ECA1HM470GB	ELECT	50V	47mF					
C3108	ECA1CM470GB	ELECT	16V	47mF					
C3111	ECUV1H102JCX	S.M.CAP	50V	1nF					
C3113	ECA1HM470GB	ELECT	50V	47mF					
C3114	ECA1CM470GB	ELECT	16V	47mF					
C3115	ECEA1HNR47UB	ELECT	50V	0.47mF					
C3117	ECEA1HN4R7UB	ELECT	50V	4.7mF					
C3119	ECA1HM470GB	ELECT	50V	47mF					
C3120	ECA1CM470GB	ELECT	16V	47mF					
C3123	ECEA1HN4R7UB	ELECT	50V	4.7mF					
C3126	ECEA1HN4R7UB	ELECT	50V	4.7mF					
C3128	ECEA1HN4R7UB	ELECT	50V	4.7mF					
C3130	ECEA1HN4R7UB	ELECT	50V	4.7mF					
C3131	ECUV1H473KBX	S.M.CAP	50V	47nF					
C3132	ECA1CM470GB	ELECT	16V	47mF					
C3133	ECA1CM470GB	ELECT	16V	47mF					
C3134	ECA1CM470GB	ELECT	16V	47mF					
C3136	ECA1CM470GB	ELECT	16V	47mF					
C3137	ECA1HM470GB	ELECT	50V	47mF					
C3138	ECA1HM470GB	ELECT	50V	47mF					
C3139	ECUV1H222JCX	S.M.CAP	50V	2.2nF					
C3140	ECUV1H222JCX	S.M.CAP	50V	2.2nF					
C3143	ECUV1H561JCX	S.M.CAP	50V	560pF					
C3146	ECUV1H561JCX	S.M.CAP	50V	560pF					
C3148	ECA1HM4R7GB	ELECT	50V	4.7mF					
C3149	ECUV1H561JCX	S.M.CAP	50V	560pF					
C3150	ECA1HM4R7GB	ELECT	50V	4.7mF					
C3151	ECUV1H561JCX	S.M.CAP	50V	560pF					
C3154	ECUV1H104ZFX	S.M.CAP	50V	100nF					
C3156	ECA1CM470GB	ELECT	16V	47mF					
C3158	ECUV1H102JCX	S.M.CAP	50V	1nF					
C3160	ECUV1H104ZFX	S.M.CAP	50V	100nF					
C3162	ECA1CM471GB	ELECT	16V	470pF					
C3163	ECA1HMR47GB	ELECT	50V	0.47mF					
C3165	ECA1HM470GB	ELECT	50V	47mF					
C3169	ECUV1H102JCX	S.M.CAP	50V	1nF					
C3170	ECUV1H561JCX	S.M.CAP	50V	560pF					
C3172	ECUV1H561JCX	S.M.CAP	50V	560pF					
C3173	ECA1HMR47GB	ELECT	50V	0.47mF					
C3174	ECUV1H561JCX	S.M.CAP	50V	560pF					
C3178	ECUV1H561JCX	S.M.CAP	50V	560pF					
C3180	ECA1HMR47GB	ELECT	50V	0.47mF					
C3181	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W				
C3182	ECUV1H102JCX	S.M.CAP	50V	1nF					
C3183	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W				
C3184	ECUV1H473KBX	S.M.CAP	50V	47nF					
C3185	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W				
C3186	ECEA1HNR47UB	ELECT	50V	0.47mF					
C3187	ECA1HM470GB	ELECT	50V	47mF					
C3188	ECEA1CN470	ELECT	16V	47mF					
C3190	ECA1HMR47GB	ELECT	50V	0.47mF					
C3191	ECA1HM470GB	ELECT	50V	47mF					
C3192	ECUV1H473KBX	S.M.CAP	50V	47nF					
C3201	ECA1HM010GB	ELECT	50V	1pF					
C3202	ECUV1H473ZFX	S.M.CAP	50V	47nF					
C3203	ECA1CM100GB	ELECT	16V	10pF					
C3204	ECUV1H473ZFX	S.M.CAP	50V	47nF					
C3351	ECA1HM101GB	ELECT	50V	100pF					
C3501	ECUV1H220JCX	S.M.CAP	50V	22pF					
C3502	ECUV1H220JCX	S.M.CAP	50V	22pF					
C3503	ECEA1HKN010	ELECT	50V	1mF					
C3504	ECUV1H224ZFX	S.M.CAP	50V	0.22mF					
C3510	ECUV1H103ZFX	S.M.CAP	50V	10nF					
C3511	ECA1HM101GB	ELECT	50V	100pF					
C3512	ECUV1H104ZFX	S.M.CAP	50V	100nF					
C3514	ECUV1H104ZFX	S.M.CAP	50V	100nF					
C3515	ECA0JM331GB	ELECT	6.3V	330pF					
C3516	ECUV1H104ZFX	S.M.CAP	50V	100nF					
C3521	ECA1HM101GB	ELECT	50V	100pF					
C3522	ECUV1H104ZFX	S.M.CAP	50V	100nF					
C3801	ECA1HM010GB	ELECT	50V	1pF					
C3802	ECUV1H104ZFX	S.M.CAP	50V	100nF					
C3803	ECA1CM471GB	ELECT	16V	470pF					
C3807	ECUV1H104ZFX	S.M.CAP	50V	100nF					
C3808	ECUV1H104ZFX	S.M.CAP	50V	100nF					
C3809	ECA0JM101G	ELECT	6.3V	100pF					
C3810	ECUV1H103KBX	S.M.CAP	50V	10nF					
C3812	ECA1CM221GB	ELECT	16V	220pF					

## DIODES

D001	MA4020	DIODE
D002	MA4020	DIODE
D103	BA582	DIODE
D104	BA582	DIODE
D251	MA165TA5	DIODE
D252	MA165TA5	DIODE
D253	MA165TA5	DIODE
D254	MA165TA5	DIODE
D351	ERA15-04V3	COIL
D352	ERA15-04V3	COIL
D361	ERA15-04V3	COIL
D362	ERA15-04V3	COIL
D371	ERA15-04V3	COIL
D372	ERA15-04V3	COIL
D387	MA2160LFS	DIODE
D401	MA167TA5	DIODE
D451	MA4056	DIODE
D452	MA2330-ALF	DIODE
D453	TVSEM01ZV0	DIODE
D502	1SS254T-77	DIODE
D503	EU02	DIODE
D504	EU02	DIODE
D531	1SS254T-77	DIODE
D532	1SS254T-77	DIODE
D533	1SS254T-77	DIODE
D551	EU02	DIODE
D556	AU02V0	DIODE

D557	ERC91-02J5	DIODE			
D558	AU02V0	DIODE			
D559	MTZJT-7736A	DIODE			
D560	1SS252T-77	DIODE			
D561	1SS254T-77	DIODE			
D562	ERB0615	DIODE			
D571	FMV-3GULF027	DIODE			
D574	1SS252T-77	DIODE			
D575	1SS252T-77	DIODE			
D602	MA165TA5	DIODE			
D603	MA165TA5	DIODE			
D604	MA4062	DIODE			
D706	MA165TA5	DIODE			
D707	MA188TA	DIODE			
D803	MTZJT-7711C	DIODE			
D806	TF361MALF3	DIODE			
D807	RBV-608LF-B	DIODE			
D808	1SS254T-77	DIODE			
D809	ERA22-02V3	DIODE			
D810	MA2160LFS	DIODE			
D812	MTZJT-775.6B	DIODE			
D813	MA700TA5	DIODE			
D814	AU01ZV0	DIODE			
D815	PC123FY2	DIODE			
D817	D5L60F4015	DIODE			
D818	TMPG10G3	DIODE			
D819	ERA81004V3	RESISTOR	81W	5%	4.0KW
D820	MA4100	DIODE			
D821	EU02AV0	DIODE			
D822	MTZJT-7718C	DIODE			
D845	1SS254T-77	DIODE			
D846	TVSS1WBS20	DIODE			
D847	ERA15-01V1	DIODE			
D848	ERB32-02E	DIODE			
D849	FMGG26S	DIODE			
D850	EU02	DIODE			
D851	FMGG2CS	DIODE			
D852	MA4091	DIODE			
D853	1SS254T-77	DIODE			
D854	1SS254T-77	DIODE			
D855	D10SC6MRL	DIODE			
D857	FML22SLF610	DIODE			
D860	1SS254T-77	DIODE			
D861	MTZJT-7713B	DIODE			
D901	1SS254T-77	DIODE			
D902	1SS254T-77	DIODE			
D903	1SS254T-77	DIODE			
D1051	LN81RPHL	DIODE			
D1052	AU01V0	DIODE			
D1053	AU01V0	DIODE			
D1054	AU01V0	DIODE			
D1055	AU01V0	DIODE			
D1056	AU01V0	DIODE			
D1057	AU01V0	DIODE			
D1102	MA4051	DIODE			
D1107	MTZJT-775.6A	DIODE			
D1108	1SS254T-77	DIODE			
D1109	1SS254T-77	DIODE			
D1113	MA4051	DIODE			
D1552	RLS72TE-11	DIODE			
D2005	MA723TA5	DIODE			
D2006	MA723TA5	DIODE			
D2301	MA165TA5	DIODE			
D2302	MA165TA5	DIODE			
D2303	MA165TA5	DIODE			
D2304	MA165TA5	DIODE			
D3101	PMLL5242B	DIODE			
D3102	PMLL5242B	DIODE			
D3103	PMLL5242B	DIODE			
D3105	PMLL5242B	DIODE			
D3107	PMLL5242B	DIODE			
D3109	PMLL5242B	DIODE			
D3110	PMLL5242B	DIODE			
D3111	PMLL5242B	DIODE			
D3112	PMLL5242B	DIODE			
D3115	PMLL5242B	DIODE			
D3117	PMLL5242B	DIODE			
D3120	RLS72TE-11	DIODE			
D3351	1SS254T-77	DIODE			
D3501	MA4030	DIODE			
D3801	MA4043	DIODE			
D3802	MA4075	DIODE			
D3803	ERA81004V3	RESISTOR	81W	5%	4.0KW
D3805	MA4091	DIODE			
D3806	MA165TA5	DIODE			
D3807	MA165TA5	DIODE			
<b>FUSES</b>					
F532	TR5-T1250	FUSE			▲
F801	XBA2C50TH15	FUSE			
F845	TR5-T2000	FUSE			▲
F846	TR5-T1250	FUSE			▲
F8011	EYF52BC	FUSE HOLDER			
F8012	EYF52BC	FUSE HOLDER			
<b>INTEGRATED CIRCUITS</b>					
IC101	TDA9814TV3	VIF			
IC1051	RPM-637CBRS1	LED RECEIVER			
IC1101	SDA30C164-2	MICRO PROCESSOR			
IC1102	S-80745AL-Z	RESET			
IC1103	MN1280R	RESET			
IC1301	SAA4961	COMB FILTER			
IC1551	SN74F04DR	CLOCK BUFFER			
IC1552	SDA9257	CLOCK GENERATOR			
IC1581	SDA9205-2GEG	A/D CONVERTER			
IC1601	UPD93213GF	DFU			
IC1602	SDA9280GEG	VISUAL PROCESSOR			
IC1701	MB87D202A	VIDEO PROCESSOR			
IC1721	SDA9251-2XGE	RAM			
IC1722	SDA9251-2XGE	RAM			
IC1723	SDA9251-2XGE	RAM			
IC1724	SDA9251-2XGE	RAM			
IC1725	SDA9251-2XGE	RAM			
IC1726	SDA9251-2XGE	RAM			
IC1727	SDA9251-2XGE	RAM			
IC2001	MSP3410BPPF7	AUDIO PROCESSOR			
IC2301	TDA2030AV	AUDIO AMPLIFIER			
IC2302	BA15218	DIODE			
IC251	TDA2030AV	AUDIO AMPLIFIER			
IC252	TDA2030AV	AUDIO AMPLIFIER			
IC3101	TEA6420	AUDIO SWITCH			
IC3102	TEA6415C	VIDEO SWITCH			
IC3501	SDA5273S	MEGA TEXT			
IC3502	M514256B70RS	DRAM			
IC351	TDA6111	RGB OUTPUT			
IC361	TDA6111	RGB OUTPUT			
IC371	TDA6111	RGB OUTPUT			
IC3801	AN7808LB	8V REGULATOR			
IC3803	AN7805LB	5V REGULATOR			
IC3804	AN7809FLB	9V REGULATOR			
IC3805	AN78L08TA	8V REGULATOR			
IC401	TDA9151-B	DEFLECTION CONTROL			
IC451	TDA8350Q-N4	VERTICAL OUTPUT			
IC601	TDA9143-N1	COLOUR DECODER			

IC602	TDA4665-V4	DELAY LINE	LC1606	ELKTR391CA	DELAY LINE
IC603	TDA4780	RGB VIDEO PROCESSOR	LC1607	ELKTR391CA	DELAY LINE
IC845	SE140N	ERROR AMPLIFIER	LC1609	ELKTR560BA	DELAY LINE
IC851	TL431ACLPM	COIL	L002	TLT047K991R	COIL
IC852	TL431ACLPM	COIL	L004	TLT047K991R	COIL

**TERMINALS AND LINKS**

JA2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L107	ELESNR22MA	COIL
JA3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L108	ELESNR22MA	COIL
JA5	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L109	EIL7EN015Q	COIL
JA6	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L110	EQL7EN022Q	COIL
JA7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L252	EXCELSA35T	COIL
JA8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L253	EXCELSA35T	COIL
JA9	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L254	EXCELSA35T	COIL
JK3001	TJB16656	A.V.TERMINAL				L255	EXCELSA35T	COIL
JSB3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L351	SDL5000	DELAY LINE
JSE010	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L352	EXCELDR25V	COIL
JSE011	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L353	TLT150K991R	COIL
JSE012	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L361	SDL5000	DELAY LINE
JSE015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L362	EXCELDR25V	COIL
JSE022	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L363	TLT150K991R	COIL
JSE023	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L371	SDL5000	DELAY LINE
JSE024	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L372	EXCELDR25V	COIL
JSE025	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L373	TLT150K991R	COIL
JSE028	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L381	TLT220K991R	COIL
JSE042	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L401	EXCELDR35V	COIL
JSE050	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L402	EXCELDR35V	COIL
JSE056	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L451	EXCELDR35V	COIL
JSE057	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L552	EXCELSA35T	COIL
JSE058	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L553	EXCELSA35T	COIL
JSE062	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L554	EXCELDR35V	COIL
JSE064	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L555	EXCELDR35C	COIL
JSE09	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L572	ELHKL025B	COIL
JSF001	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L573	ELHKL026B	COIL
JSF002	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L575	ELC18B271E	COIL
JSF004	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L601	TLT047K991R	COIL
JSF005	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L602	TLT047K991R	COIL
JSF015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L603	TLT047K991R	COIL
JSF026	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L605	ERD25TC0T	CARBON 0.25W 5% 0W
JSF038	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L801	ELF18D486D	COIL
JSF041	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L802	ELF18D486D	COIL
JSF046	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L807	ELF18D856A	COIL
JSF049	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L808	EXCELSA35T	COIL
JSF050	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L809	EXCELDR35C	COIL
JSF054	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L810	EXCELSA39V	COIL
JSF056	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L811	EXCELSA39V	COIL
JSF059	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L812	EXCELDR35V	COIL
JSF061	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L813	EXCELDR35V	COIL
JSF062	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L817	EXCELDR35V	COIL
JSH004	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L845	EXCELSA35T	COIL
JSH005	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L847	EXCELSA35B	COIL
JSH01	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L848	EXCELSA35T	COIL
JSH010	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L850	EXCELSA35T	COIL
JSH02	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	L851	EXCELSA35B	COIL
J103	T3A206022	WIRE	LINK			L852	EXCELSA35T	COIL
						L853	EXCELSA35T	COIL
						L854	ELEIE150KA	COIL
						L856	EXCELSA35T	COIL
						L861	EXCELSA35T	COIL
						L862	EXCELSA35T	COIL
						L1102	EXCELDR35V	COIL
						L1103	EXCELDR35V	COIL
						L1104	EXCELSA35T	COIL
						L1105	ELEXT4R7KA	COIL
						L1301	TLT330K991R	COIL
						L1302	TLT100K991R	COIL
						L1303	TLT101K991R	COIL

**COILS**

LC1503	ELKTR391CA	DELAY LINE
LC1507	EXCEMT103DTM	COIL
LC1508	EXCEMT103DTM	COIL
LC1509	EXCEMT103DTM	COIL
LC1510	EXCEMT103DTM	COIL
LC1601	ELKTR391CA	DELAY LINE
LC1602	ELKTR391CA	DELAY LINE
LC1603	ELKTR391CA	DELAY LINE



L1304	TLT100K991R	COIL				
L1306	TLT101K991R	COIL				
L1307	ERD25TC0T	CARBON	0.25W	5%	0W	
L1501	EXCELDR35V	COIL				
L1502	TLT033K991R	COIL				
L1503	TLT033K991R	COIL				
L1504	TLT033K991R	COIL				
L1552	EXCELDR35V	COIL				
L1553	EXCELDR35V	COIL				
L1575	EXCELDR35V	COIL				
L1576	EXCELDR35V	COIL				
L1601	EXCELDR35V	COIL				
L1602	EXCELDR35V	COIL				
L1603	TLT100K991R	COIL				
L1604	TLT100K991R	COIL				
L1605	TLT100K991R	COIL				
L1606	TLT100K991R	COIL				
L1607	EXCELDR35V	COIL				
L1641	EXCELDR35V	COIL				
L1701	EXCELDR35V	COIL				
L1721	EXCELDR35V	COIL				
L1722	EXCELDR35V	COIL				
L2001	TLT047K991R	COIL				
L2002	TLT100K991R	COIL				
L2003	EXCELDR35V	COIL				
L2004	TLT068K991R	COIL				
L2005	TLT068K991R	COIL				
L2303	EXCELDR35V	COIL				
L2319	TLS159054E	COIL				
L2320	TLS159054E	COIL				
L2351	ELEBR6R8KA	COIL				
L2361	ELEBR6R8KA	COIL				
L3001	ELEBR6R8KA	COIL				
L3002	ELEBR6R8KA	COIL				
L3003	ELEBR470KA	COIL				
L3107	EXCELDR35V	COIL				
L3108	EXCELDR35V	COIL				
L3109	EXCELDR35V	COIL				
L3110	EXCELDR35V	COIL				
L3111	EXCELDR35V	COIL				
L3112	EXCELDR35V	COIL				
L3113	EXCELDR35V	COIL				
L3114	EXCELDR35V	COIL				
L3503	EXCELDR35V	COIL				
L3507	EXCELDR35V	COIL				
L3509	EXCELDR35V	COIL				
L3511	TLT100K991R	COIL				

## TRANSISTORS

Q008	BC847B	TRANSISTOR
Q101	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q103	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q105	BC847B	TRANSISTOR
Q106	BF799E6327	TRANSISTOR
Q107	BC847B	TRANSISTOR
Q108	BC847B	TRANSISTOR
Q109	BC860B	TRANSISTOR
Q251	BC847B	TRANSISTOR
Q252	BC847B	TRANSISTOR
Q401	BC847B	TRANSISTOR
Q502	2SC2925STA	TRANSISTOR
Q531	BC547B	TRANSISTOR
Q532	BC547B	TRANSISTOR
Q533	BC547B	TRANSISTOR
Q535	BC547B	TRANSISTOR

Q551	BC547B	TRANSISTOR
Q552	2SC5144LBMA1	TRANSISTOR
Q553	2SC1473-RN	TRANSISTOR
Q554	2SC1473-RN	TRANSISTOR
Q573	BC557B	TRANSISTOR
Q574	2SD1265AOPLB	TRANSISTOR
Q601	BC847B	TRANSISTOR
Q602	BC857B	TRANSISTOR
Q603	BC847B	TRANSISTOR
Q604	BC857B	TRANSISTOR
Q605	BC857B	TRANSISTOR
Q607	BC847B	TRANSISTOR
Q608	BC847B	TRANSISTOR
Q609	BC847B	TRANSISTOR
Q610	BC847B	TRANSISTOR
Q611	BC847B	TRANSISTOR
Q612	BC847B	TRANSISTOR
Q801	2SK1489MAT	TRANSISTOR
Q803	2SD965-R	TRANSISTOR
Q804	2SA719-TA	TRANSISTOR
Q845	2SA684R	TRANSISTOR
Q846	BC547B	TRANSISTOR
Q847	BC557B	TRANSISTOR
Q848	BC547B	TRANSISTOR
Q849	2SA1018QTA	TRANSISTOR
Q850	2SD1474PLB	TRANSISTOR
Q851	BC547B	TRANSISTOR
Q852	BC547B	TRANSISTOR
Q901	BC847B	TRANSISTOR
Q902	BC847B	TRANSISTOR
Q903	BC847B	TRANSISTOR
Q904	BC857B	TRANSISTOR
Q905	BC847B	TRANSISTOR
Q906	BC847B	TRANSISTOR
Q907	BC857B	TRANSISTOR
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q1052	BC557B	TRANSISTOR
Q1101	BC847B	TRANSISTOR
Q1102	BC847B	TRANSISTOR
Q1103	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q1112	2SC3757QRTX	TRANSISTOR
Q1191	BC847B	TRANSISTOR
Q1301	BC847B	TRANSISTOR
Q1303	BC847B	TRANSISTOR
Q1304	BC847B	TRANSISTOR
Q1501	BC847B	TRANSISTOR
Q1502	BC847B	TRANSISTOR
Q1503	BC847B	TRANSISTOR
Q1575	BC847B	TRANSISTOR
Q1642	BC847B	TRANSISTOR
Q1643	BC847B	TRANSISTOR
Q1644	BC857B	TRANSISTOR
Q1647	BC847B	TRANSISTOR
Q1648	BC857B	TRANSISTOR
Q1649	BC857B	TRANSISTOR
Q2001	BC860B	TRANSISTOR
Q2002	BC860B	TRANSISTOR
Q2003	BC860B	TRANSISTOR
Q2004	BC860B	TRANSISTOR
Q2006	BC857B	TRANSISTOR
Q2007	BC847B	TRANSISTOR
Q2301	BC847B	TRANSISTOR
Q2302	BC857B	TRANSISTOR
Q2351	BC547B	TRANSISTOR
Q2352	BC547B	TRANSISTOR
Q2353	BC557B	TRANSISTOR
Q2361	BC547B	TRANSISTOR

Q2362	BC547B	TRANSISTOR	R151	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
Q2363	BC557B	TRANSISTOR	R152	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
Q3101	BC847B	TRANSISTOR	R154	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
Q3102	BC847B	TRANSISTOR	R156	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
Q3105	BC847B	TRANSISTOR	R157	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
Q3106	BC847B	TRANSISTOR	R159	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
Q3107	BC857B	TRANSISTOR	R251	ERJ6GEYJ2R2	SM.CARB	0.125W	5%	2R2W
Q3108	BC847B	TRANSISTOR	R252	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
Q3113	BC847B	TRANSISTOR	R253	ERJ6GEYJ0R00V	S.M.CARB	0.1W	5%	0W
Q3115	BC857B	TRANSISTOR	R254	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW
Q3201	BC847B	TRANSISTOR	R255	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W
Q3351	BC847B	TRANSISTOR	R256	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
Q3352	BC857B	TRANSISTOR	R257	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
Q3501	BC847B	TRANSISTOR	R258	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
Q3502	BC847B	TRANSISTOR	R259	ERG3SJ102	METAL	3W	5%	1.0KW ▲
Q3503	2SC3130TX	TRANSISTOR	R260	ERJ6GEYJ2R2	SM.CARB	0.125W	5%	2R2W
Q3801	2SD1474PLB	TRANSISTOR	R261	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW

## RESISTOR

RL806	TSE1885-1	TRANSISTOR	R262	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW			
R003	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	R263	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W
R006	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KW	R264	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R011	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R265	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R266	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R101	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R267	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W
R102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R268	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W
R103	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R269	ERJ6GEYJ0R00V	S.M.CARB	0.1W	5%	0W
R104	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R270	ERG3SJ102	METAL	3W	5%	1.0KW ▲
R105	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	R351	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R106	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68W	R352	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R107	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KW	R354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R109	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R355	ERG2FJ823	METAL	2W	5%	82KW ▲
R110	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R356	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R111	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	R357	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2W
R113	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R358	ERDS1TJ821	CARBON	0.5W	5%	820W
R115	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120W	R359	ERJ6GEYJ334	S.M.CARB	0.1W	5%	330KW
R117	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68KW	R360	ERDS1TJ103	CARBON	0.5W	5%	10KW
R118	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	R361	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R119	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R362	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R120	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	R364	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R121	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	R365	ERG2FJ823	METAL	2W	5%	82KW ▲
R122	EVNDXAA03B24	CONTROL			20KW	R366	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R123	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R367	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2W
R124	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	R368	ERDS1TJ821	CARBON	0.5W	5%	820W
R125	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R369	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R126	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	R370	ERQ1CJP1R2	FUSIBLE	1W	5%	1R2W ▲
R127	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW	R371	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R128	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180W	R372	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R130	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R374	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R132	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W	R375	ERG2FJ823	METAL	2W	5%	82KW ▲
R133	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W	R376	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R134	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R377	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2W
R135	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R378	ERDS1TJ821	CARBON	0.5W	5%	820W
R136	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W	R379	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R137	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R380	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R138	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W	R381	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W
R139	ERJ6GEYJ154	S.M.CARB	0.1W	5%	150KW	R383	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R141	ERJ6GEYJ330	S.M.CARB	0.1W	5%	33W	R384	ERQ12HJ101	FUSIBLE	0.5W	5%	100W ▲
R142	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W	R390	ERDS1TJ184	CARBON	0.5W	5%	180K
R143	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KW	R401	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R144	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W	R402	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R145	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	R403	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9W
R146	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R406	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KW
R147	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W	R407	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R148	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KW	R408	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R149	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8W	R409	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R150	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W	R410	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
						R411	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KW
						R412	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
						R451	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K0W
						R452	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW

R453	ERG2FJ820	METAL	2W	5%	82W	▲	R620	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R454	ERX12SJR82P	RESISTOR	12W	5%	R82W		R621	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R455	ERX12SJR82P	RESISTOR	12W	5%	R82W		R624	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R456	ERDS1TJ220	CARBON	0.5W	5%	22W		R625	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KW
R457	ERDS1TJ223	CARBON	0.5W	5%	22KW		R626	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R458	ERG1SJ272	METAL	1W	5%	2.7KW	▲	R627	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W
R459	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KW		R628	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R504	ERD25TJ271	CARBON	0.25W	5%	270W		R629	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R505	ERG3SJS330	METAL	3W	5%	33W	▲	R630	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R506	ERDS1TJ152	CARBON	0.5W	5%	1K5W		R632	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KW
R507	ERDS1TJ152	CARBON	0.5W	5%	1K5W		R633	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R531	ERD25TJ103	CARBON	0.25W	5%	10KW		R634	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W
R532	ERD25TJ103	CARBON	0.25W	5%	10KW		R635	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R533	ERD25TJ683	CARBON	0.25W	5%	68KW		R636	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R534	ERD25TJ473	CARBON	0.25W	5%	47KW		R637	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W
R535	ERD25TJ472	CARBON	0.25W	5%	4K7W		R639	EVNDXAA03B32	CONTROL			300W
R536	ERD25TJ103	CARBON	0.25W	5%	10KW		R640	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R539	ERD25TJ103	CARBON	0.25W	5%	10KW		R643	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R540	ERD25TJ183	CARBON	0.25W	5%	18KW		R644	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R541	ERD25TJ102	CARBON	0.25W	5%	1KW		R645	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W
R542	ERD25TJ103	CARBON	0.25W	5%	10KW		R646	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R543	ERD25TJ222	CARBON	0.25W	5%	2K2W		R647	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R547	ERD25TJ103	CARBON	0.25W	5%	10KW		R648	ERJ6GEYJ150	S.M.CARB	0.1W	5%	15W
R551	ERD25TJ103	CARBON	0.25W	5%	10KW		R649	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R552	ERD25TJ473	CARBON	0.25W	5%	47KW		R651	ERJ6GEYJ225	SM.CARB	0.125W	5%	2.2MW
R553	ERD25TJ103	CARBON	0.25W	5%	10KW		R652	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R554	ERX3SJSR27H	RESISTOR	3W	5%	27W		R653	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R555	ERD25TJ223	CARBON	0.25W	5%	22KW		R654	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R556	ERO50PKF2802	METAL	50W	1%	28KW	▲	R655	ERJ6GEYJ243	SM.CARB	0.125W	5%	24KW
R557	ERO25CKF1073	METAL	25W	1%	107KW	▲	R656	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R558	ERO50PKF4532	METAL	50W	1%	45KW	▲	R657	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R559	ERO25CKF1002	METAL	0.25W	1%	10KW	▲	R658	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R560	ERD25TJ222	CARBON	0.25W	5%	2K2W		R659	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R562	ERD25TJ473	CARBON	0.25W	5%	47KW		R660	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R564	ERDS1TJ394	CARBON	0.5W	5%	390KW		R661	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R565	ERQ14AJW2R2	FUSIBLE	14W	5%	2R2W	▲	R662	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R566	ERDS1TJ183	CARBON	0.5W	5%	18KW		R663	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R567	ERG2ANJ223	METAL	2W	5%	22KW		R666	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R568	ERQ12HJ330	METAL	0.5W	5%	33W	▲	R667	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R569	ERDS1TJ120	CARBON	0.5W	5%	12W		R668	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R570	ERD25TJ103	CARBON	0.25W	5%	10KW		R711	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220KW
R571	ERX3FJ2R7H	RESISTOR	3W	5%	2R7W		R712	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW
R572	ERG3FJ821	METAL	3W	5%	820W	▲	R714	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8W
R574	ERG3FJ151	METAL	3W	5%	150W	▲	R715	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R579	ERD25TJ274	CARBON	0.25W	5%	270KW		R716	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R580	ERD25TJ563	CARBON	0.25W	5%	56KW		R717	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R581	ERD25TJ104	CARBON	0.25W	5%	100KW		R718	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R582	ERD25TJ225	CARBON	0.25W	5%	2M2W		R753	ERD25TJ333	CARBON	0.25W	5%	33KW
R583	ERD25TJ225	CARBON	0.25W	5%	2M2W		R805	232266296706	THERMISTOR			
R584	ERD25TJ152	CARBON	0.25W	5%	1K5W		R806	ERD25TJ101	CARBON	0.25W	5%	100W
R585	TSF19201	FS LINK				▲	R807	ERD25TJ104	CARBON	0.25W	5%	100KW
R587	ERD25TJ222	CARBON	0.25W	5%	2K2W		R809	ERF10ZK4R7	WOUND	10W	5%	4R7W ▲
R588	ERD25TJ222	CARBON	0.25W	5%	2K2W		R810	ERD25TJ223	CARBON	0.25W	5%	22KW
R589	ERDS1TJ100	CARBON	0.5W	5%	10W		R811	ERD25TJ102	CARBON	0.25W	5%	1KW
R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W		R812	ERD25TJ681	CARBON	0.25W	5%	680W
R602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W		R814	ERD25TJ332	CARBON	0.25W	5%	3K3W
R603	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R815	ERD25TJ150	CARBON	0.25W	5%	15W
R604	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W		R816	ERDS1TJ470	CARBON	0.5W	5%	47W
R605	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W		R818	ERD25TJ331	CARBON	0.25W	5%	330W
R606	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W		R820	ERG3FJ223	METAL	3W	5%	22KW ▲
R609	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW		R821	ERG3FJ223	METAL	3W	5%	22KW ▲
R610	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82KW		R822	ERD25TJ391	CARBON	0.25W	5%	390W
R612	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9W		R823	ERX2SJR22	RESISTOR	2W	5%	R22W
R613	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9W		R824	ERX2SJR22	RESISTOR	2W	5%	R22W
R615	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82KW		R825	ERX2SJR22	RESISTOR	2W	5%	R22W
R616	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W		R827	ERDS1FJ100	CARBON	0.5W	5%	10W
R617	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W		R828	ERD25TJ103	CARBON	0.25W	5%	10KW
R618	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W		R829	ERD25TJ471	CARBON	0.25W	5%	470W
R619	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W		R831	ERD75TAJ825	CARBON	0.75W	5%	8M2W ▲

R832	ERG1SJ331	METAL	1W	5%	330W	▲	R1063	ERD25TJ222	CARBON	0.25W	5%	2K2W
R835	ERD25TJ220	CARBON	0.25W	5%	22W		R1064	ERD25TJ332	CARBON	0.25W	5%	3K3W
R836	ERD25TJ100	CARBON	0.25W	5%	10W		R1065	ERD25TJ512	CARBON	0.25W	5%	5K1W
R837	ERD25TJ153	CARBON	0.25W	5%	15KW		R1066	ERD25TJ912	CARBON	0.25W	5%	9K1W
R838	ERD25TJ102	CARBON	0.25W	5%	1KW		R1101	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R847	ERQ1CJP1R0	FUSIBLE	1W	5%	1R0W	▲	R1102	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R853	ERO25CKF1002	METAL	0.25W	1%	10KW	▲	R1103	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R854	ERDS1TJ153	CARBON	0.5W	5%	15KW		R1104	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R855	ERD25TJ472	CARBON	0.25W	5%	4K7W		R1105	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R856	ERD25TJ473	CARBON	0.25W	5%	47KW		R1106	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R858	ERO25CKF1002	METAL	0.25W	1%	10KW	▲	R1107	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R862	ERD25TJ472	CARBON	0.25W	5%	4K7W		R1108	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R863	ERG3FJ470	METAL	3W	5%	47W	▲	R1111	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R864	ERDS1TJ103	CARBON	0.5W	5%	10KW		R1112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R865	ERG3FJ470	METAL	3W	5%	47W	▲	R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R867	ERD25TJ102	CARBON	0.25W	5%	1KW		R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R870	ERD25TJ101	CARBON	0.25W	5%	100W		R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R873	ERDS1TJ2R2	CARBON	0.5W	5%	2.2W		R1118	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R876	ERD25TJ562	CARBON	0.25W	5%	5K6W		R1119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R877	ERO25CKF1022	METAL	25W	1%	10KW	▲	R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R878	ERO25CKF1002	METAL	0.25W	1%	10KW	▲	R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R883	ERD25TJ103	CARBON	0.25W	5%	10KW		R1122	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R885	ERD25TJ103	CARBON	0.25W	5%	10KW		R1123	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R886	ERF10ZK4R7	WOUND	10W	5%	4R7W	▲	R1124	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R888	ERDS1TJ393	CARBON	0.5W	5%	39KW		R1125	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R889	ERD25TJ392	CARBON	0.25W	5%	3K9W		R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R890	ERX3SJR56	RESISTOR	3W	5%	R56W		R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R891	ERD25TJ103	CARBON	0.25W	5%	10KW		R1128	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
R892	ERD25TJ222	CARBON	0.25W	5%	2K2W		R1129	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
R894	ERD25TJ101	CARBON	0.25W	5%	100W		R1133	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R905	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W		R1134	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R906	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW		R1135	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R907	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2W		R1136	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W
R908	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W		R1137	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W
R909	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R1138	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R910	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W		R1142	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R911	ERD25TJ561	CARBON	0.25W	5%	560W		R1145	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R913	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KW		R1150	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R914	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W		R1151	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R915	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8W		R1152	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R916	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W		R1153	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R918	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W		R1154	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R919	ERQ14AJW390	FUSIBLE	14W	5%	39W	▲	R1156	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8W
R920	ERQ14AJW390	FUSIBLE	14W	5%	39W	▲	R1163	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W
R922	ERD25TJ683	CARBON	0.25W	5%	68KW		R1164	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R923	ERD25TJ683	CARBON	0.25W	5%	68KW		R1169	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R924	ERDS1FYJ390	CARBON	0.5W	5%	39W	▲	R1170	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W		R1171	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8W
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W		R1172	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W
R927	ERD25TJ122	CARBON	0.25W	5%	1K2W		R1174	ERDS1TJ561	CARBON	0.5W	5%	560W
R928	ERD25TJ2R7	CARBON	0.25W	5%	2R7W		R1182	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R929	ERDS1FYJ221	CARBON	0.5W	5%	220W		R1183	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R930	ERD25TJ2R7	CARBON	0.25W	5%	2R7W		R1184	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R931	ERDS1FYJ390	CARBON	0.5W	5%	39W	▲	R1185	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R932	ERDS1FYJ101	CARBON	0.5W	5%	100W	▲	R1186	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R933	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W		R1188	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R934	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W		R1190	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R935	ERQ14AJW3R9	FUSIBLE	14W	5%	3R9W	▲	R1191	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R936	ERQ1CJP102	METAL	1W	5%	1KW	▲	R1192	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R937	ERQ14AJW100	METAL	0.25W	5%	10W	▲	R1193	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R938	ERD25TJ122	CARBON	0.25W	5%	1K2W		R1194	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R940	ERD25TJ3R3	CARBON	0.25W	5%	3R3W		R1301	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R941	ERD25TJ3R3	CARBON	0.25W	5%	3R3W		R1302	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9W
R1054	ERD25TJ101	CARBON	0.25W	5%	100W		R1305	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1057	ERD25TJ101	CARBON	0.25W	5%	100W		R1306	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1058	ERD25TJ471	CARBON	0.25W	5%	470W		R1307	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R1059	ERD25TJ103	CARBON	0.25W	5%	10KW		R1308	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1MW
R1061	ERD25TJ103	CARBON	0.25W	5%	10KW		R1313	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1062	ERD25TJ222	CARBON	0.25W	5%	2K2W		R1315	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W

R1317	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180W	R1648	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1318	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180W	R1649	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1319	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R1650	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1320	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R1652	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1321	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R1653	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1322	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1654	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1323	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1656	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1324	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R1659	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1325	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1662	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1326	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1666	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1327	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W	R1667	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1328	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1668	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W
R1329	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R1679	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R1337	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W	R1680	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R1340	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W	R1681	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1501	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W	R1682	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R1502	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W	R1683	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R1504	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120W	R1688	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W
R1507	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W	R1689	ERJ6GEYJ561V	S.M.CARB	0.1W	5%	560W
R1508	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120W	R1701	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W
R1510	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1703	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1511	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W	R1704	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1513	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W	R1705	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R1515	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1706	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R1516	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1707	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W
R1517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1710	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W
R1518	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1713	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R1519	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1716	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1520	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1724	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W
R1523	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1730	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W
R1550	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W	R1777	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W
R1551	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W	R1778	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W
R1552	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W	R2001	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R1554	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W	R2004	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R1555	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	R2005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1560	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2006	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1561	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2007	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KW
R1562	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2008	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1563	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18W	R2009	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1568	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W	R2010	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1570	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	R2011	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R1572	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W	R2012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1575	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W	R2013	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R1576	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820W	R2014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1577	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R2015	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R1578	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W	R2016	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1581	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2017	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R1605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1606	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2019	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1608	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2020	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R1620	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2021	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1621	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2022	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1622	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2023	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1624	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R2025	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KW
R1625	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W	R2026	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R1626	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W	R2027	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1627	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8W	R2038	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R1628	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	R2039	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1629	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200W	R2044	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1630	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180W	R2045	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1631	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R2301	ERJ6GEYJ2R2	SM.CARB	0.125W	5%	2R2W
R1632	ERJ6GEYJ133	SM.CARB	0.125W	5%	13KW	R2302	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KW
R1633	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	R2303	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW
R1634	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W	R2304	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W
R1641	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W	R2305	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R1643	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R2306	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1644	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56W	R2307	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1646	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	R2308	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R1647	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	R2309	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW

R2310	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	R3150	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W
R2311	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW	R3151	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R2312	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW	R3152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R2313	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	R3153	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R2314	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3154	ERD2FCVG100T	CARBON	2W	2%	10W
R2315	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3158	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W
R2316	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	R3159	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W
R2317	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	R3160	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW
R2318	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W	R3161	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120W
R2319	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3162	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R2320	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	R3163	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R2322	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R3165	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R2351	ERQ14AJW100	METAL	0.25W	5%	10W	R3167	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R2352	ERD25TJ101	CARBON	0.25W	5%	100W	R3178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2353	ERD25TJ101	CARBON	0.25W	5%	100W	R3180	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2354	ERD25TJ473	CARBON	0.25W	5%	47KW	R3182	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2355	ERD25TJ102	CARBON	0.25W	5%	1KW	R3184	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2356	ERD25TJ102	CARBON	0.25W	5%	1KW	R3185	ERJ6GEYJ353	S.M.CARB	0.1W	5%	35KW
R2357	ERD25TJ102	CARBON	0.25W	5%	1KW	R3186	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R2358	ERD25TJ102	CARBON	0.25W	5%	1KW	R3187	ERJ6GEYJ353	S.M.CARB	0.1W	5%	35KW
R2359	ERD25TJ271	CARBON	0.25W	5%	270W	R3188	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R2360	ERD25TJ183	CARBON	0.25W	5%	18KW	R3192	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2361	ERD25TJ100	CARBON	0.25W	5%	10W	R3193	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R2371	ERQ14AJW100	METAL	0.25W	5%	10W	R3194	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R2372	ERD25TJ101	CARBON	0.25W	5%	100W	R3195	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R2373	ERD25TJ101	CARBON	0.25W	5%	100W	R3196	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W
R2374	ERD25TJ473	CARBON	0.25W	5%	47KW	R3197	ERD2FCVG100T	CARBON	2W	2%	10W
R2375	ERD25TJ102	CARBON	0.25W	5%	1KW	R3198	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W
R2376	ERD25TJ102	CARBON	0.25W	5%	1KW	R3199	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W
R2377	ERD25TJ102	CARBON	0.25W	5%	1KW	R3200	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R2378	ERD25TJ102	CARBON	0.25W	5%	1KW	R3201	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R2379	ERD25TJ271	CARBON	0.25W	5%	270W	R3202	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R2380	ERD25TJ183	CARBON	0.25W	5%	18KW	R3205	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R2381	ERD25TJ100	CARBON	0.25W	5%	10W	R3206	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R3006	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R3207	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R3101	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3208	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3210	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W
R3108	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3211	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W
R3109	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3212	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KW
R3110	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3213	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3114	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3214	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R3115	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3215	ERD2FCVG100T	CARBON	2W	2%	10W
R3117	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3216	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68W
R3118	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3217	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3126	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3218	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R3127	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3226	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R3128	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3227	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R3129	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R3228	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68W
R3130	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3229	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3131	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W	R3230	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3132	ERD2FCVG100T	CARBON	2W	2%	10W	R3231	ERD2FCVG100T	CARBON	2W	2%	10W
R3133	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3232	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W
R3134	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3233	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W
R3135	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3236	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R3136	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3237	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R3137	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R3238	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R3138	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W	R3239	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R3139	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3240	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R3140	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3351	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3141	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3352	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R3142	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3353	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470KW
R3143	ERJ6GEYJ353	S.M.CARB	0.1W	5%	35KW	R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3144	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3355	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W
R3145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3501	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
R3146	ERJ6GEYJ353	S.M.CARB	0.1W	5%	35KW	R3502	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R3147	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	R3503	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R3148	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R3505	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
R3149	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R3506	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W

R3507	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R3508	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R3509	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3513	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R3514	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R3515	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R3516	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R3517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3518	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R3520	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W
R3521	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R3522	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R3523	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R3526	ERD25TC0T	CARBON	0.25W	5%	0W
R3531	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W
R3532	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390W
R3534	ERD25TJ181	CARBON	0.25W	5%	180W
R3536	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R3539	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0W
R3802	ERG3FJ100	METAL	3W	5%	10W
R3803	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W
R3804	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W

### SWITCHS

S801	ESB91232A	SWITCH			
S1051	EVQ23405R	SWITCH			
S1052	EVQ23405R	SWITCH			
S1053	EVQ23405R	SWITCH			

S1054	EVQ23405R	SWITCH
S1055	EVQ23405R	SWITCH

### TRANSFORMERS

T501	TLHA003	TRANSFORMER	
T551	ZTFH65011A	F.B.T.	⚠
T801	ETP35KAN615U	TRANSFORMER	⚠
T802	ETS49AH137ND	TRANSFORMER	
T803	ETQ19K55AY	TRANSFORMER	

### FILTERS

X101	EFCT6504BF	FILTER	
X102	EFCS5M7MW3	CERAMIC FILTER	
X103	EFCS6R0MW5	FILTER	
X104	K3953-M100	SAW FILTER	
X105	L9454M	SAW FILTER	
X106	EFCV3195T6	CERAMIC FILTER	
X107	EFCT7004BF	CERAMIC FILTER	
X109	EFCV4045T4	CERAMIC FILTER	
X601	TSSA024	CRYSTAL	
X602	TSSA025	CRYSTAL	
X1101	TAF10020	CRYSTAL	
X1551	TSSA009	CRYSTAL	
X2001	TSS4004-B	CRYSTAL	
X3501	TSSA009	CRYSTAL	

**DIFFERENCES FOR MODEL TX-29AD50F****MISCELLANEOUS COMPONENTS**

4)	TKY8E080	CABINET	▲
7)	TBM173052	PANASONIC BADGE	
8)	A68ESF002X43	C.R.T.	▲
9)	THT1009R	CRT FIXING SCREW	
10)	TLK8E05125	DEGAUSS COIL	
12)	TKU8E00270	REAR COVER	▲
13)	TBM8E1541	MODEL LABEL	
15)	TNPA0295AC	D P.C.B.	▲
20)	TNPH0063AB	E P.C.B.	▲
24)	TKP8E1144	SPEAKER NET	
	TPC8E4543	OUTER CARTON	

**CAPACITORS**

C664	ECUV1H103ZFX	S.M.CAP	50V	10nF
------	--------------	---------	-----	------

**COILS**

L571	ELC18B221L	COIL
------	------------	------

**INTEGRATED CIRCUITS**

IC1104	X24C0302EU	EAROM
IC1105	27C2001C07AC	EPR0M

**DIFFERENCES FOR MODEL TX-25AD50F****MISCELLANEOUS COMPONENTS**

4)	TKY8E100	CABINET	▲
7)	TBM153022	PANASONIC BADGE	
8)	A59ESF002X43	CRT	▲
9)	THE492-4	CRT FIXING SCREW	
10)	TLK8E05120	DEGAUSS COIL	
12)	TKU8E00280	REAR COVER	▲
13)	TBM8E1543	MODEL LABEL	
15)	TNPA0295AG	D P.C.B.	▲
20)	TNPH0063AG	E P.C.B	▲
24)	TKP8E1146	SPEAKER NET	
	TPC8E4545	OUTER CARTON	

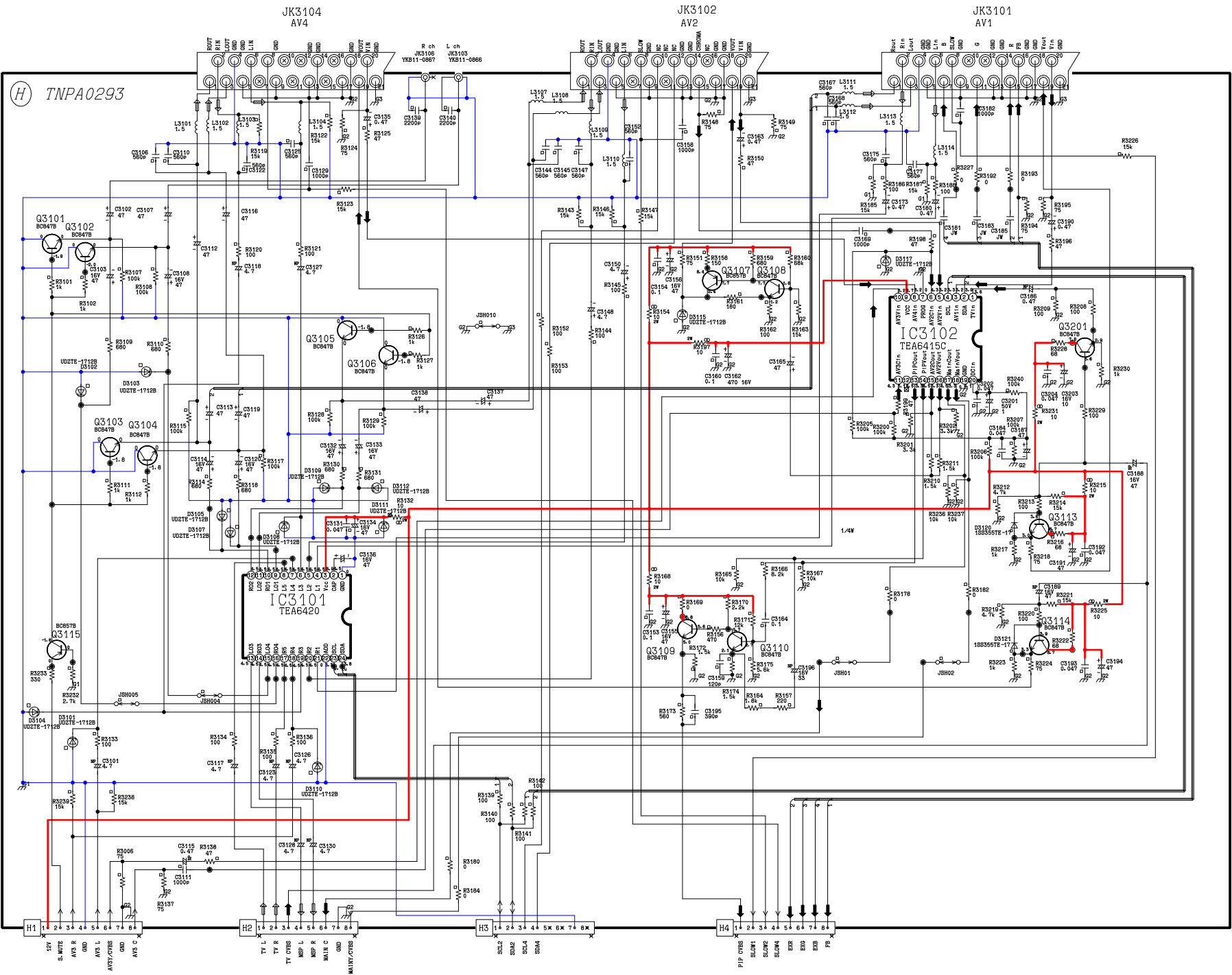
**COILS**

L571	ELC18B331L	COIL
------	------------	------

**INTEGRATED CIRCUITS**

IC1104	X24C0302UV	EAROM
IC1105	27C2001C07AB	EPR0M





(H) TNP A0293

JK3104  
AV4

JK3102  
AV2

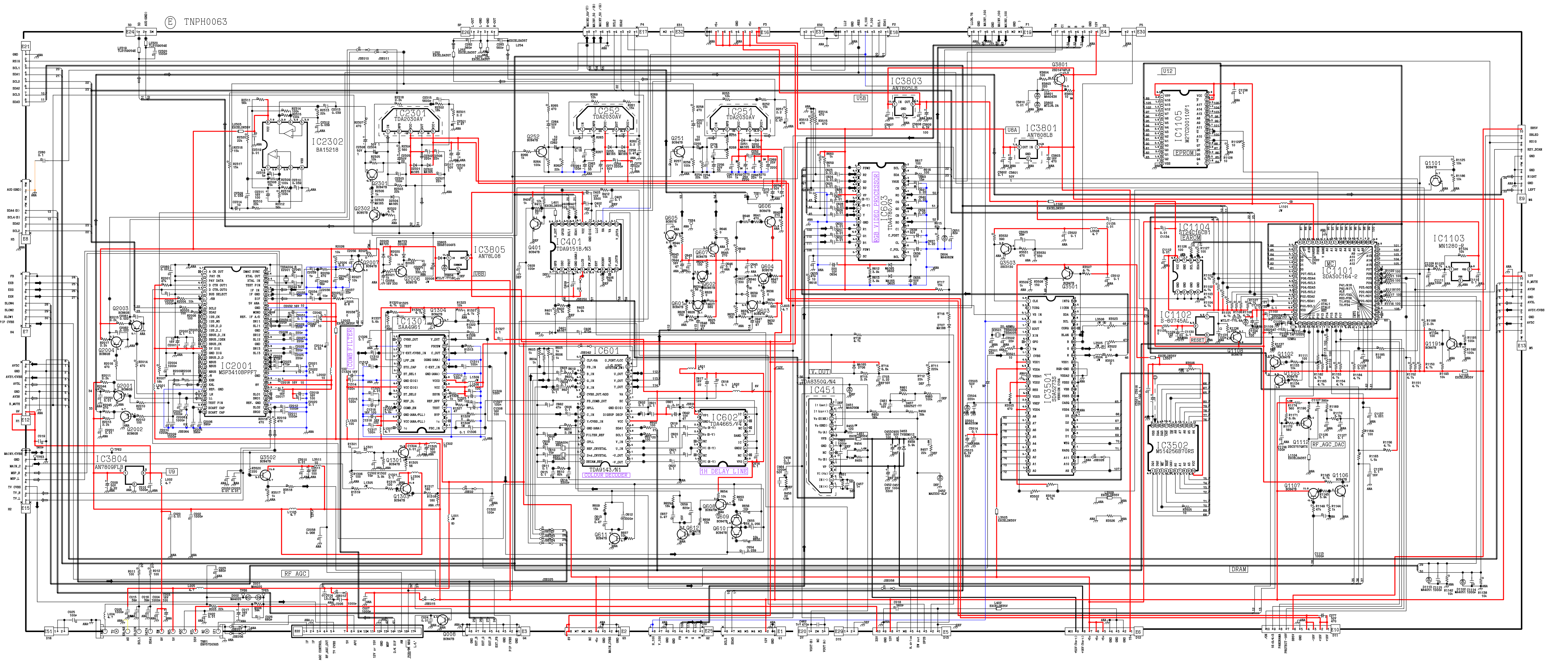
JK3101  
AV1

H1 1 2 3 4 5 6 7 8  
S.WITE  
AV3 R  
GND  
AV3 L  
AV2/CDS  
GND  
AV1 C

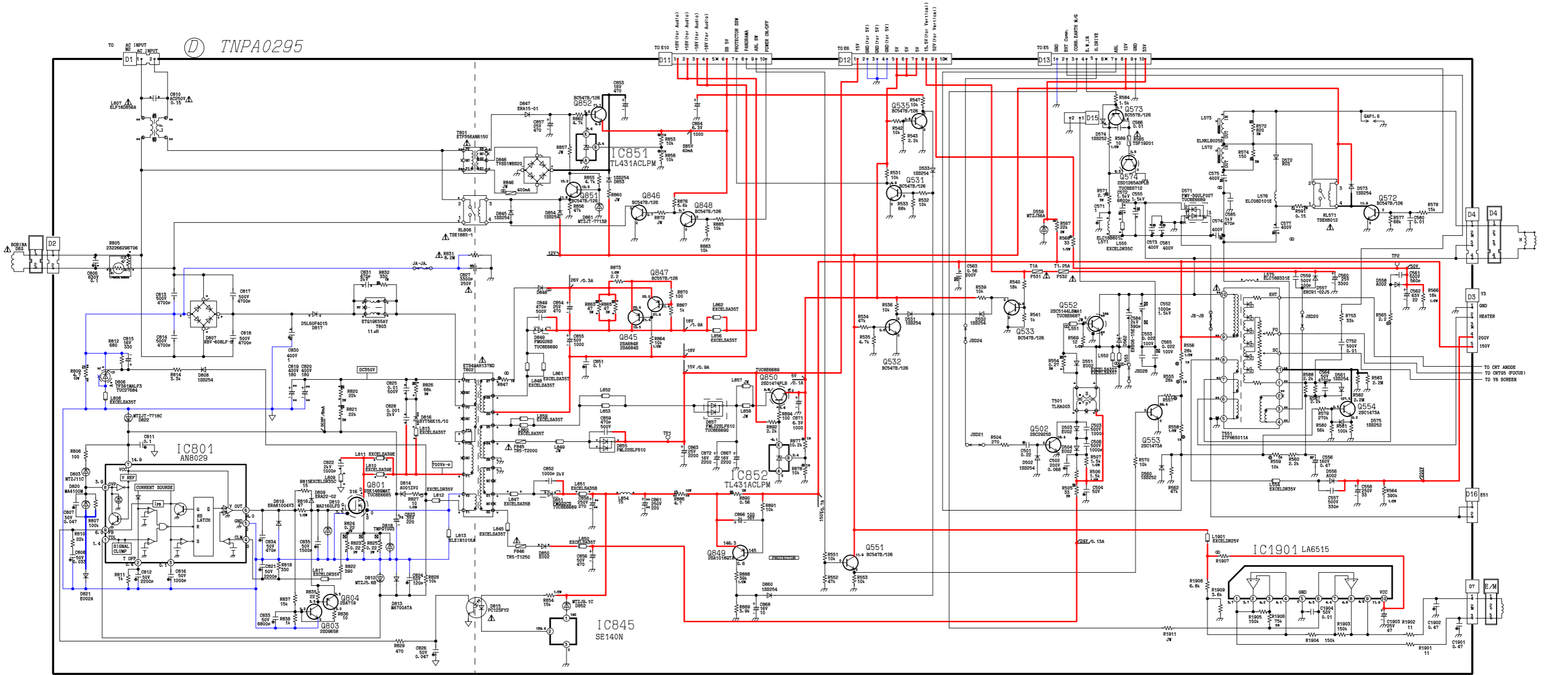
H2 1 2 3 4 5 6 7 8  
TV R  
TV L  
MP L  
MP R  
M1/C  
M2/C  
GND  
M1/CDS  
M2/CDS

H3 1 2 3 4 5 6 7 8  
SBL2  
SBR2  
SBL4  
SBR4

H4 1 2 3 4 5 6 7 8  
PIP CDS  
SLDR1  
SLDR2  
SLDR4  
SDR  
SDR  
SDR  
PS



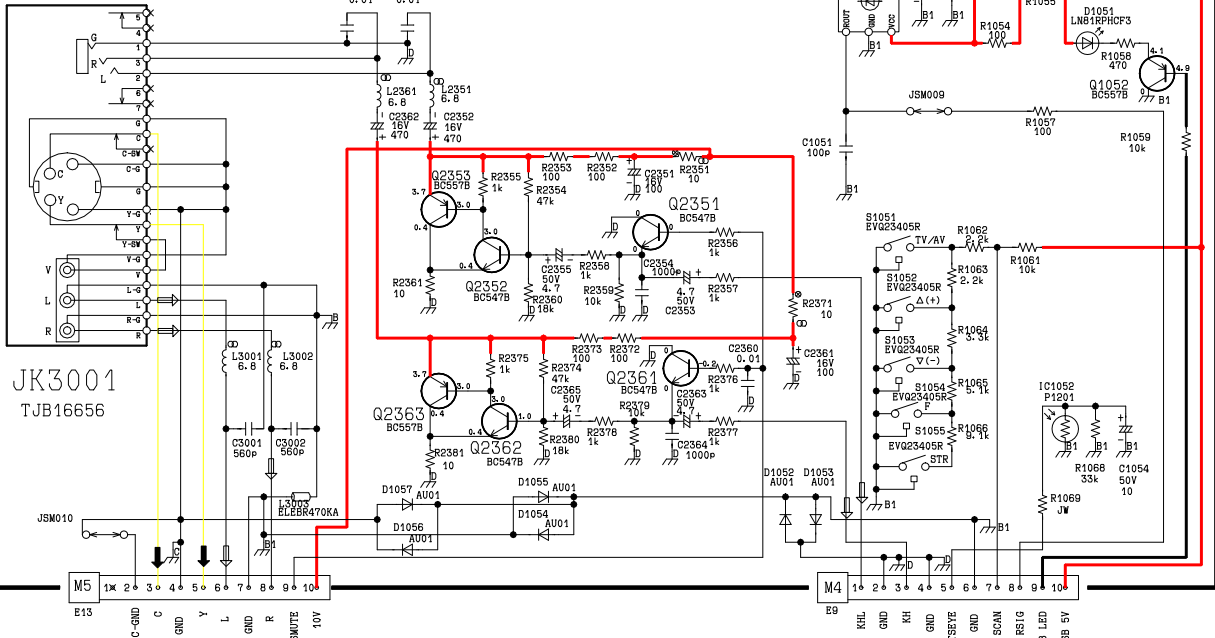
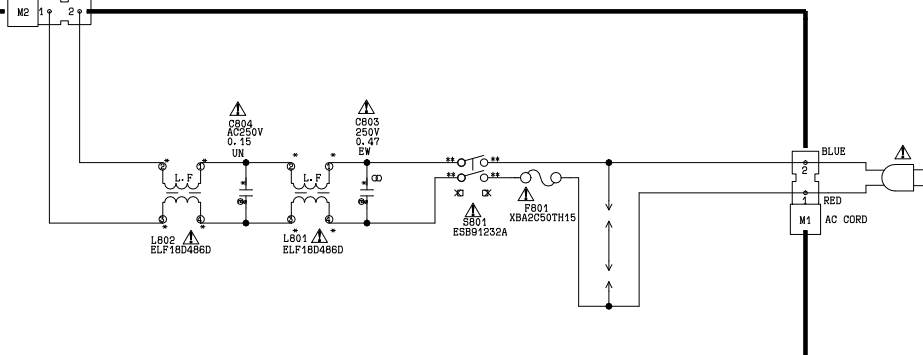
① TNPA0295



M1 TNPA0291

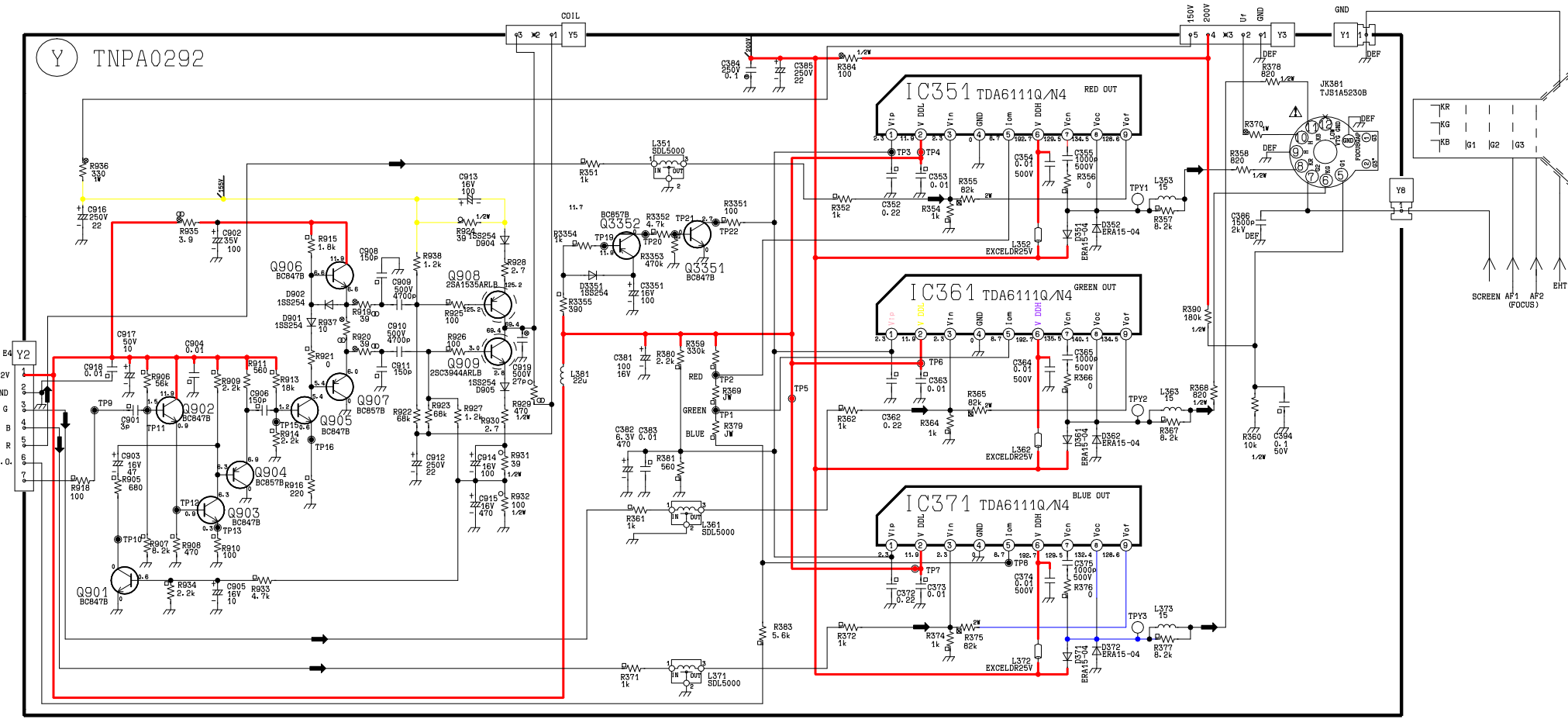
COLD

HOT

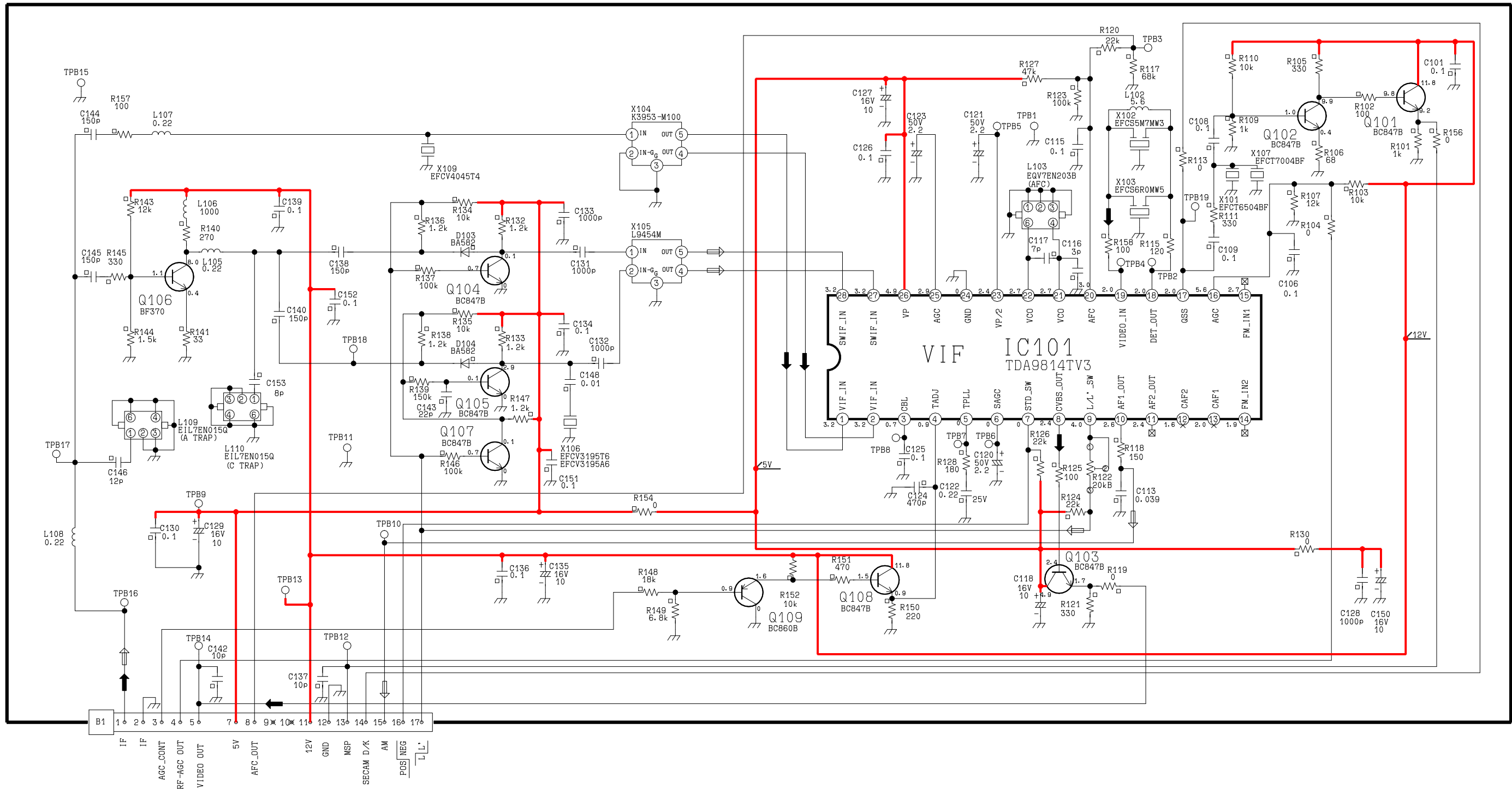


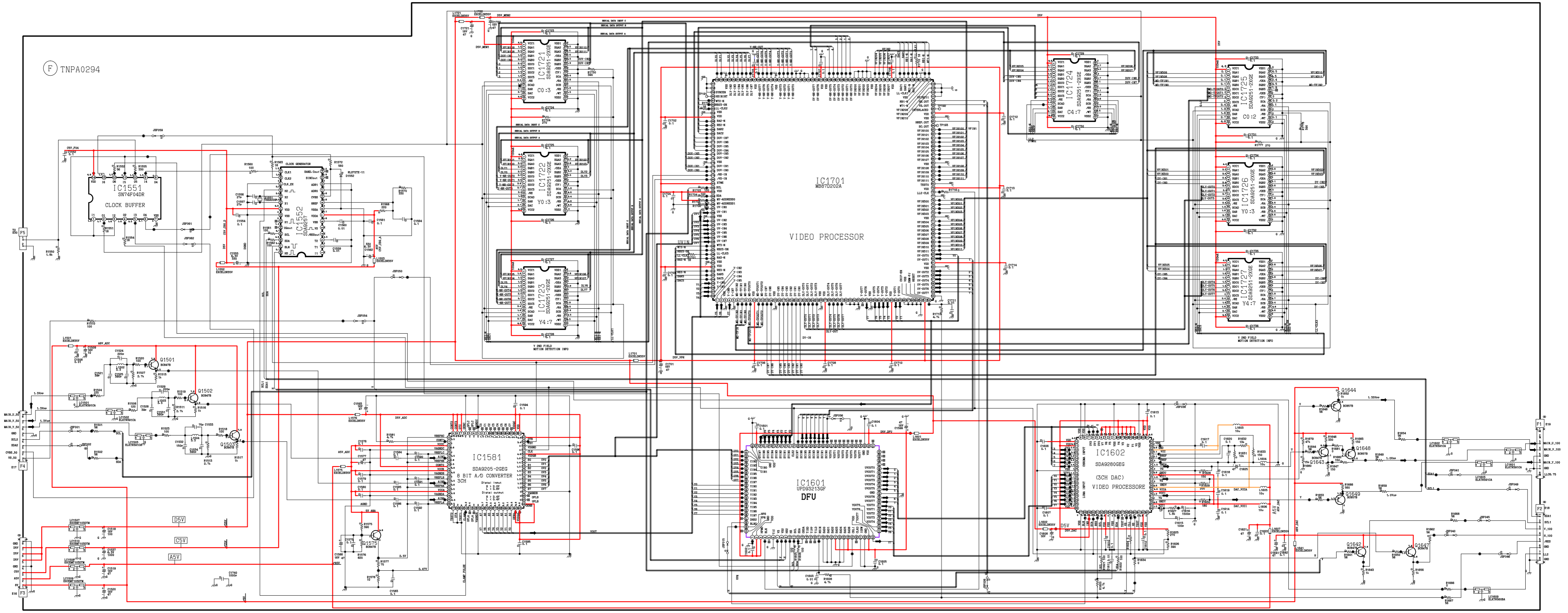


Y TNPA0292



SCREEN AF1 AF2 (FOCUS) EHT

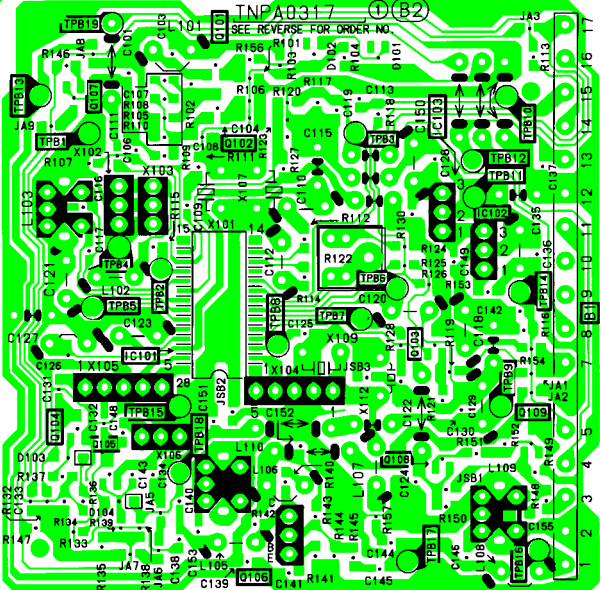




TNP A0317

(B2)

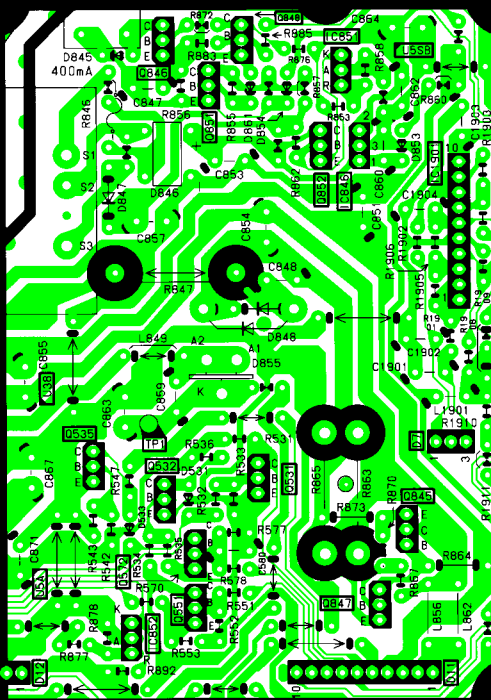
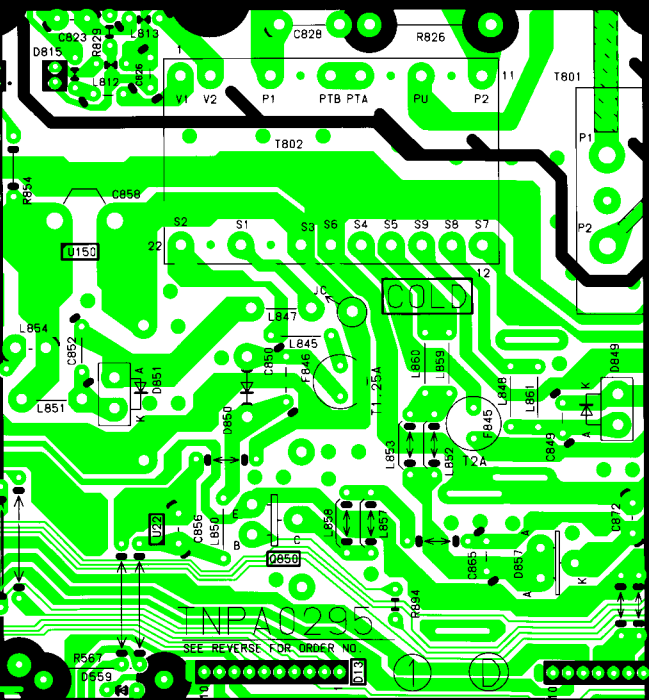
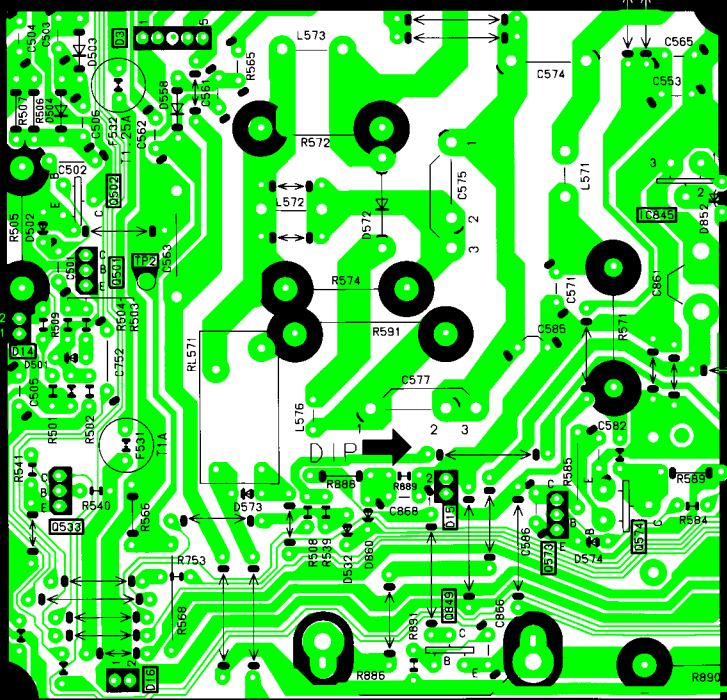
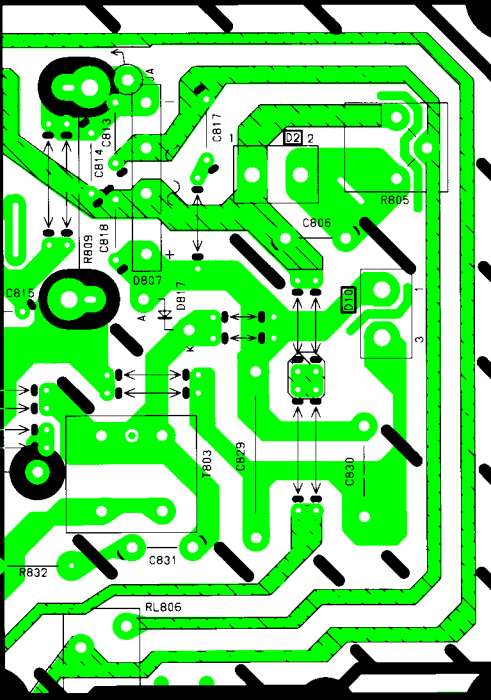
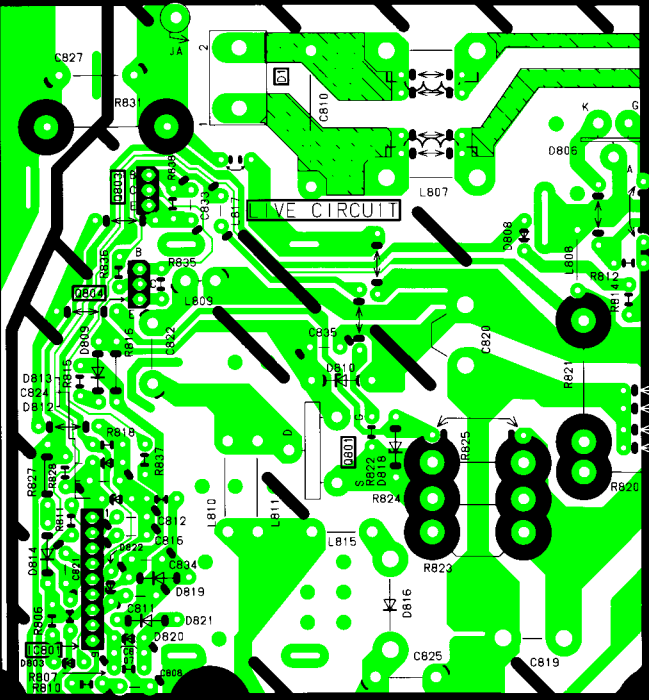
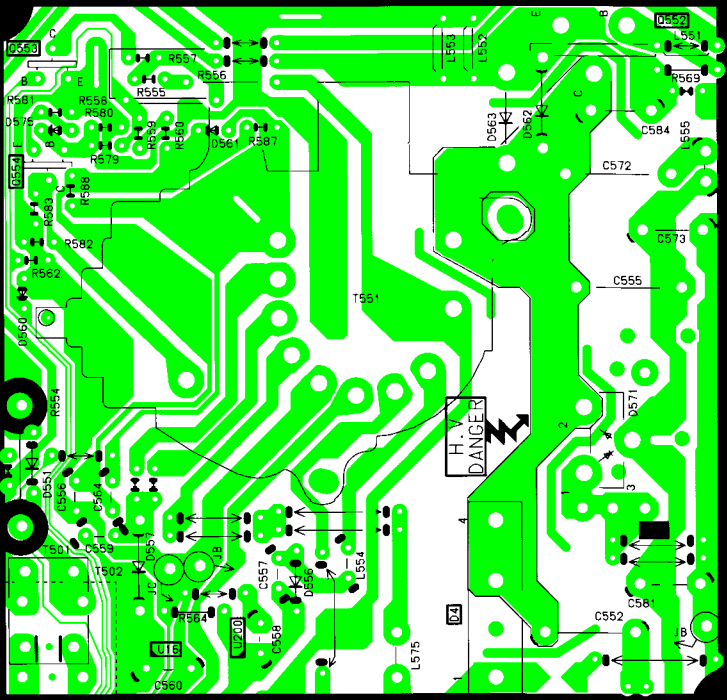
SEE REVERSE FOR ORDER NO.







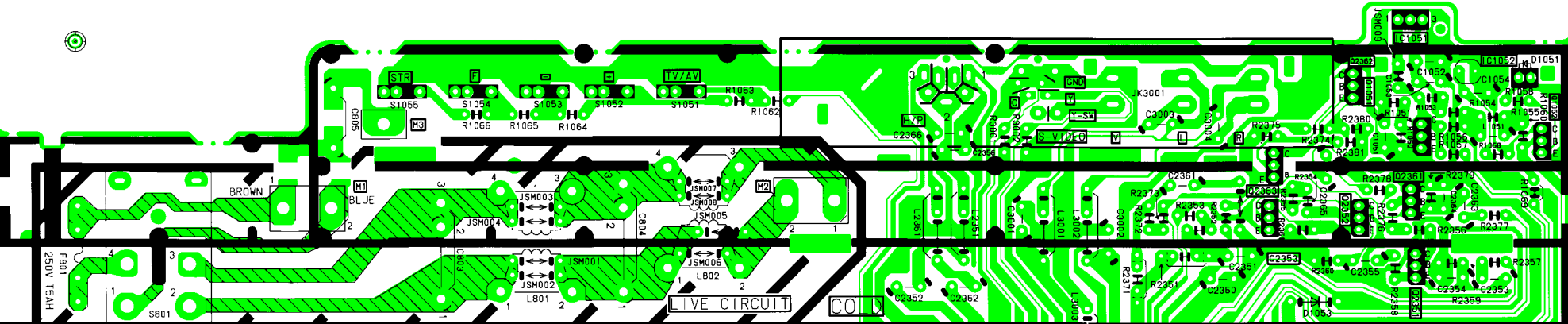




SEE REVERSE FOR ORDER NO.

0150



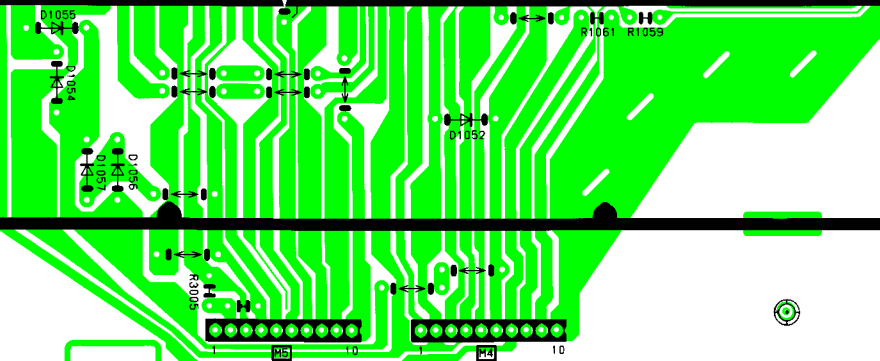


F801  
250V 15AH

S801

TNPA0291  
SEE REVERSE FOR ORDER NO.

(M1) ①



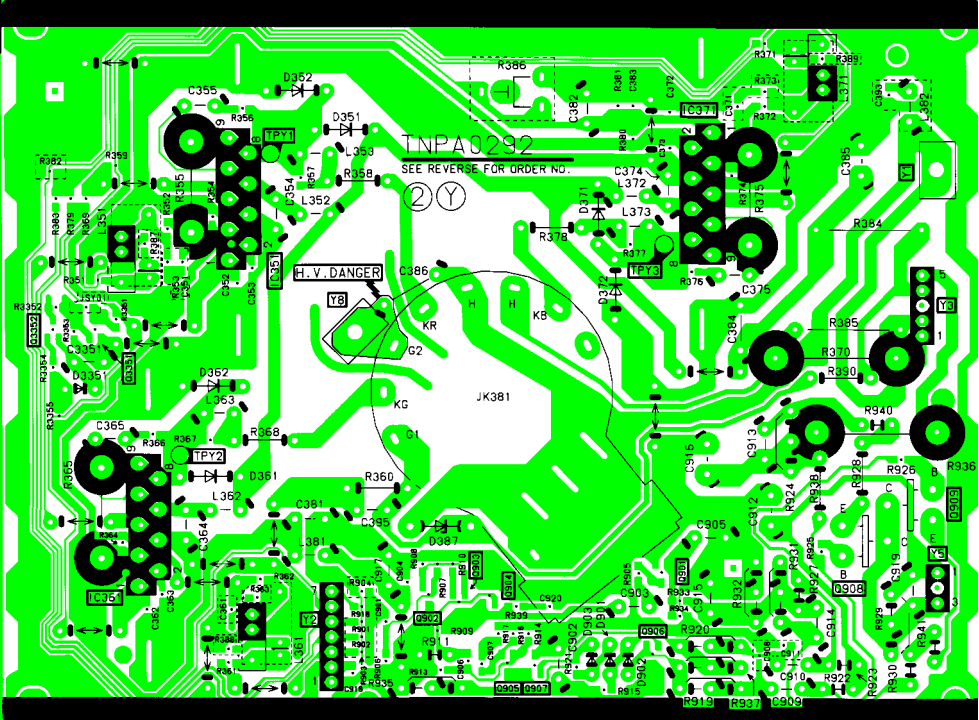
TNPA0292

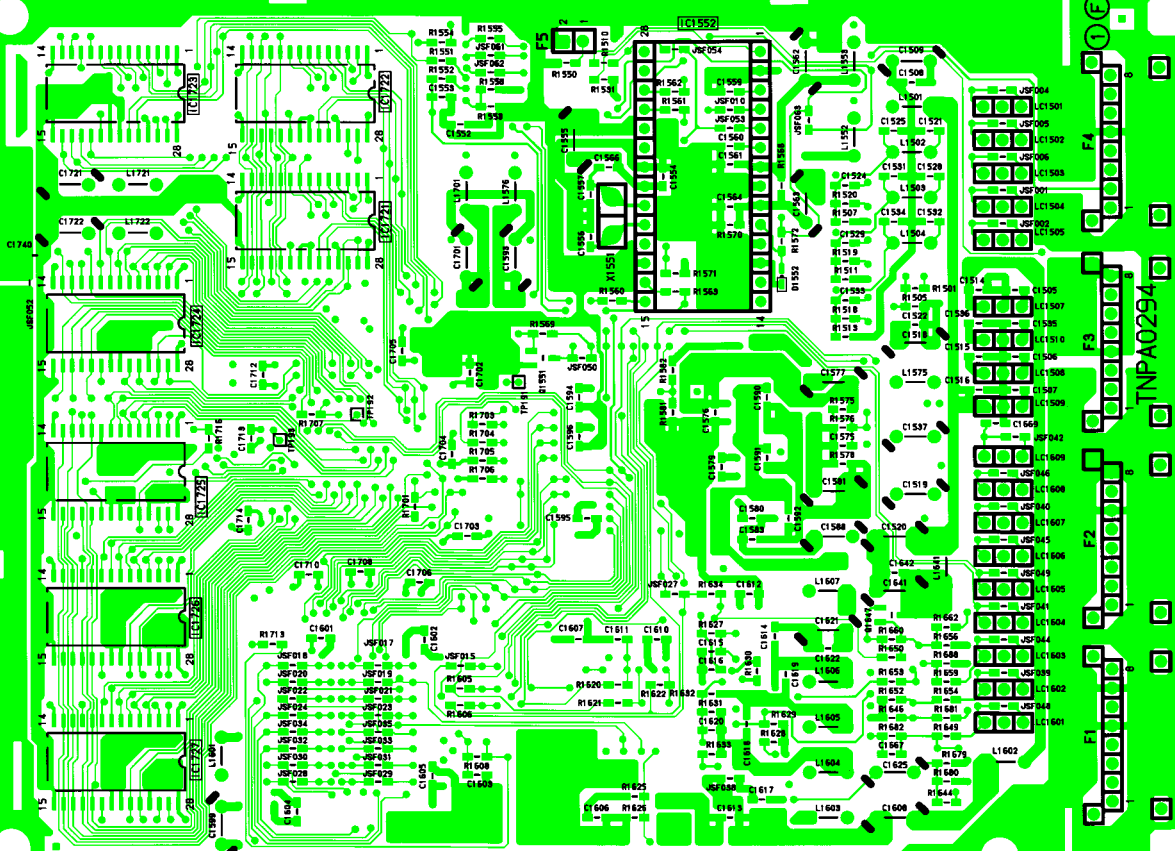
SEE REVERSE FOR ORDER NO.

(2) (Y)

H.V. DANGER

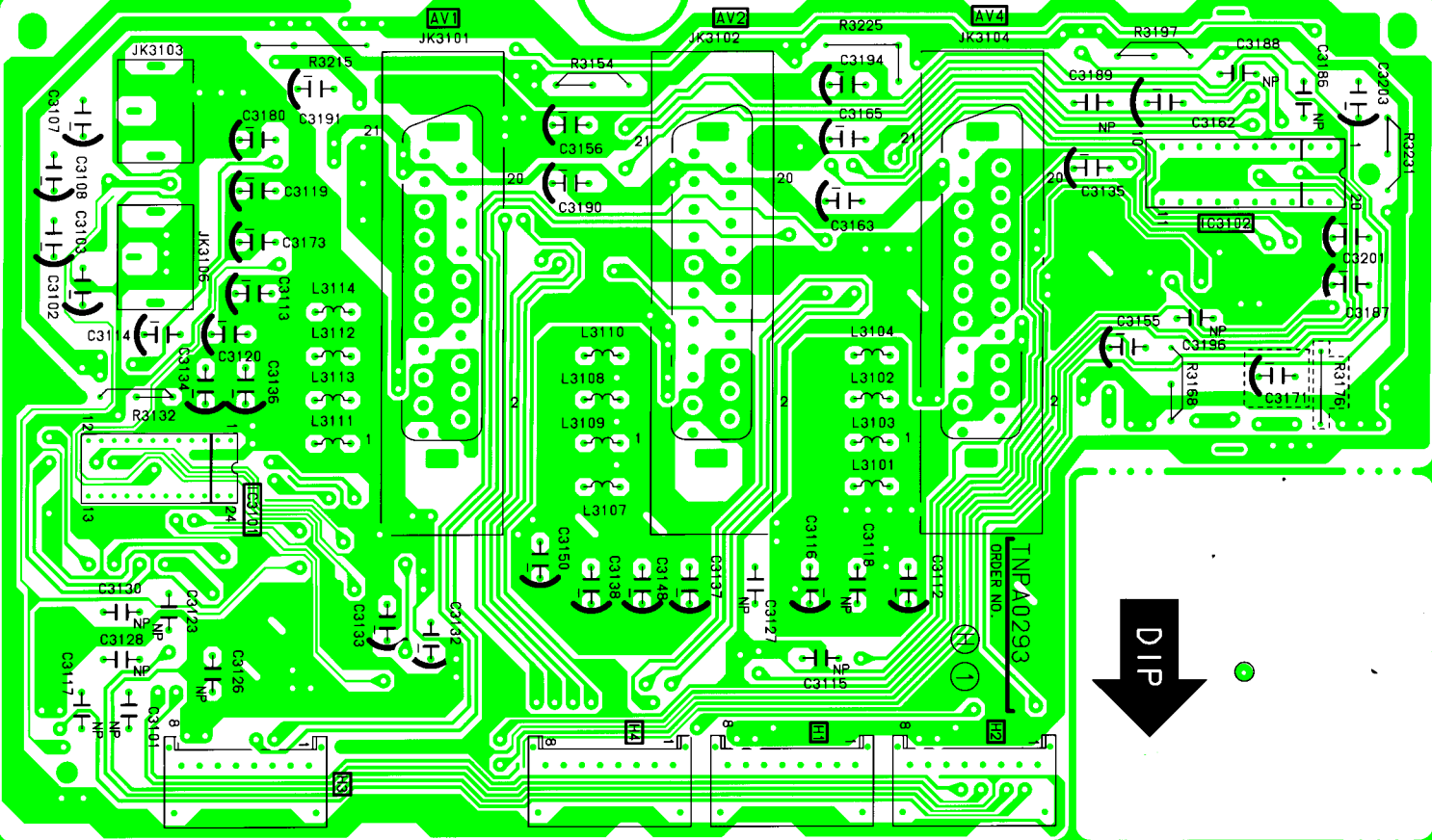
JK381





TNPA0294





DIP

TNP40293

ORDER NO.

AV1

AV2

AV3

AV4

