

# TX-W32D20 Service Manual

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## Service Support

Service and repair of this product is supported by Panasonic's LUCI interface.

This interface provides a link between the TV and a standard PC to allow a number of diagnostic and control functions to be performed.

For more details contact your local Panasonic company.

  
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EXIT

Audio/Video

Control

  
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B - Schematic

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BACK

# Service Manual



## Colour Television

## TX-W32D20

## EURO-3HW Chassis

### Specifications

<b>Power Source :</b>	220 - 240 V AC, 50Hz
<b>Power Consumption :</b>	173W
<b>Aerial Impedance :</b>	75Ω unbalanced, Coaxial Type
<b>Standby Power Consumption :</b>	1W
<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 R3 - R5 VHF A - H (ITALY) VHF R3 - R5 UHF E21 - E69 CATV (S01 - S05) CATV S1 - S10 (M1 - M10) CATV S11 - S20 (U1 - U10) CATV S21 - S41 (HYPERBAND)
<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) 500mV rms 1kΩ
<b>AV1 IN</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin)
<b>AV1 OUT</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
<b>AV2 IN</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ S-Video In (21 pin) Y : 1V p-p 75Ω C : 0.3V p-p 75Ω
<b>AV2 OUT</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ Selectable output (21 pin)
<b>AV3 IN</b>	S-Video In (4-pin) Y : 1V p-p 75Ω C : 0.3V p-p 75Ω Audio (RCA x 2) 500mV rms 10kΩ Video (RCA x 1) 1V p-p 75Ω
<b>AV4 IN</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ
<b>AV4 OUT</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
<b>High Voltage :</b>	30,5 kV ± 1kV at zero beam current
<b>Picture Tube :</b>	W76LFC185X05 82cm
<b>Visible screen size:</b>	106° deflection
<b>Audio Output :</b>	
Internal Speaker	2 x 20W (Left/Right) (Music Power) 26W (3D Bass) (Music Power) 8 Ω Impedance
Headphones	8 Ω Impedance
<b>Accessories supplied :</b>	Remote Control 2 x R6 (UM3) Batteries
<b>Dimensions :</b>	Height : 553mm Width : 862mm Depth : 555mm
<b>Net Weight</b>	52kg

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

# Panasonic

### Technische Daten

<b>Netzspannung :</b>	220 - 240 V AC, 50Hz
<b>Leistungsaufnahme :</b>	173W
<b>Antennenimpedanz :</b>	75Ω asymmetrisch, Koaxial-Typ
<b>Standby Leistungsaufnahme</b>	1W
<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 R3 - R5 VHF A - H (ITALY) VHF R3 - R5 UHF E21 - E69 CATV (S01 - S05) CATV S1 - S10 (M1 - M10) CATV S11 - S20 (U1 - U10) CATV S21 - S41 (HYPERBAND)
<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) 500mV rms 1kΩ
<b>AV1 EINGANG</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin)
<b>AV1 AUSGANG</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
<b>AV2 EINGANG</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ S-Video In (21 pin) Y : 1V p-p 75Ω C : 0.3V p-p 75Ω
<b>AV2 AUSGANG</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ Wählbarer Ausgang (21 pin)
<b>AV3 EINGANG</b>	S-Video In (4-pin) Y : 1V p-p 75Ω C : 0.3V p-p 75Ω Audio (RCA x 2) 500mV rms 10kΩ Video (RCA x 1) 1V p-p 75Ω
<b>AV4 EINGANG</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ
<b>AV4 AUSGANG</b>	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
<b>Hochspannung :</b>	30,5 kV ± 1kV bei Nullstrahlstrom
<b>Bildrohre :</b>	W76LFC185X05 82cm
<b>Visuelle Diagonale :</b>	106° Ablenkung
<b>Ton Ausgangsleistung :</b>	Einbaulautsprecher 2 x 20W (Links/Rechts) (Musikleistung) 26W (3D Bass) (Musikleistung) 8 Ω Impedanz
Kopfhörer	8 Ω Impedanz
<b>Mittel. Zubehör</b>	Fernbedienung 2 x R6 (UM3) Batterien
<b>Abmessungen :</b>	Höhe : 553mm Breite : 862mm Tiefe : 555mm
<b>Gewicht</b>	52kg

Änderungen der technischen Daten vorbehalten.  
Gewichte und Abmessungen sind Näherungsangaben.

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## SAFETY PRECAUTIONS

### General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress 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.

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## 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 2kΩ 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 1,4V rms. 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.

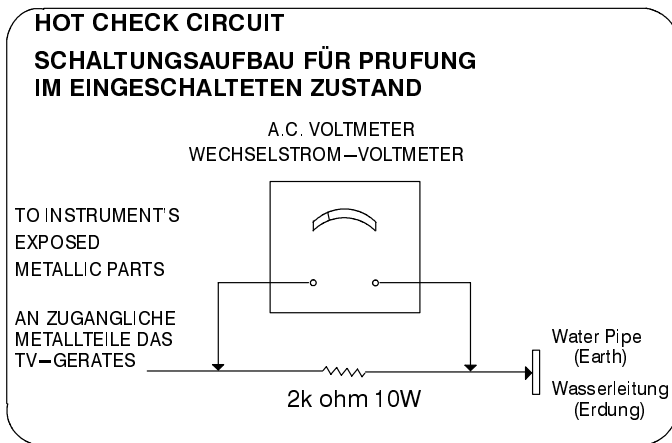


Fig.1.  
Abb.1.

## 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 ± 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 Ω / 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 ± 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

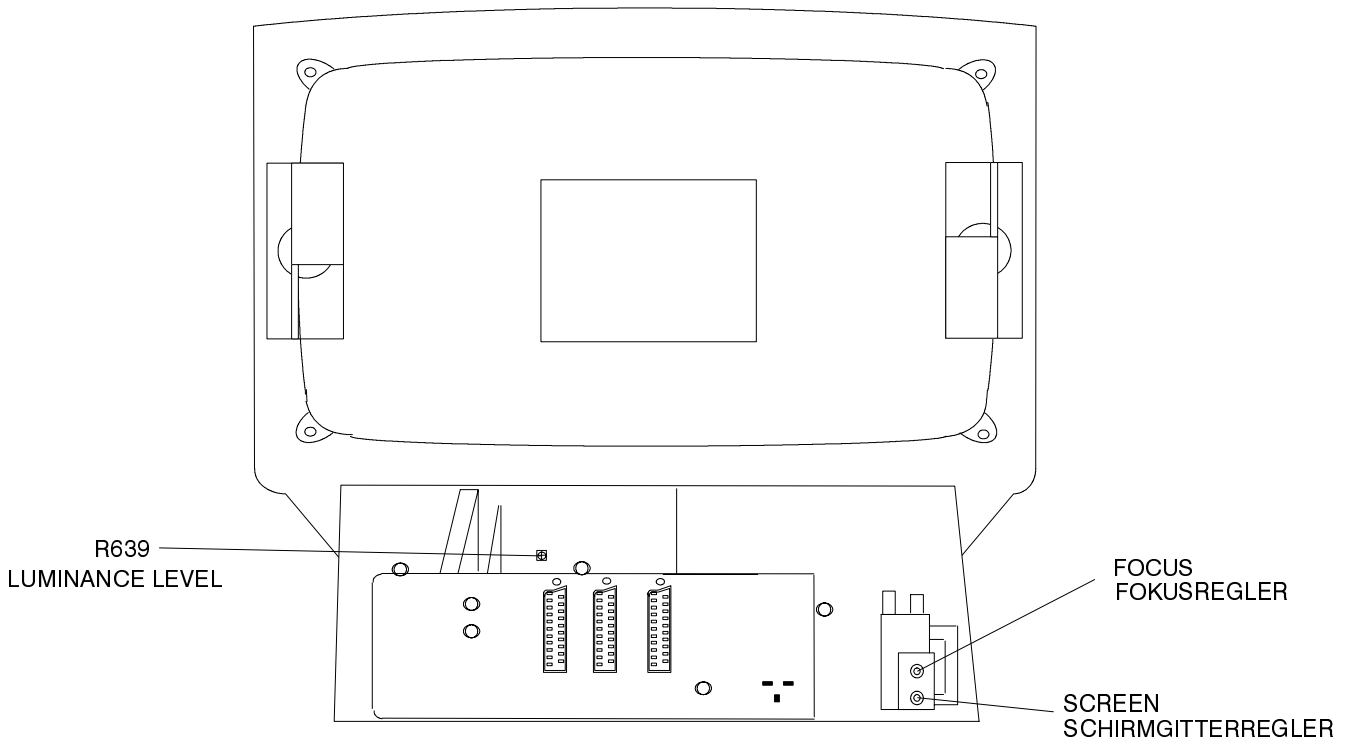


Fig.2.  
Abb.2.

## SERVICE HINTS

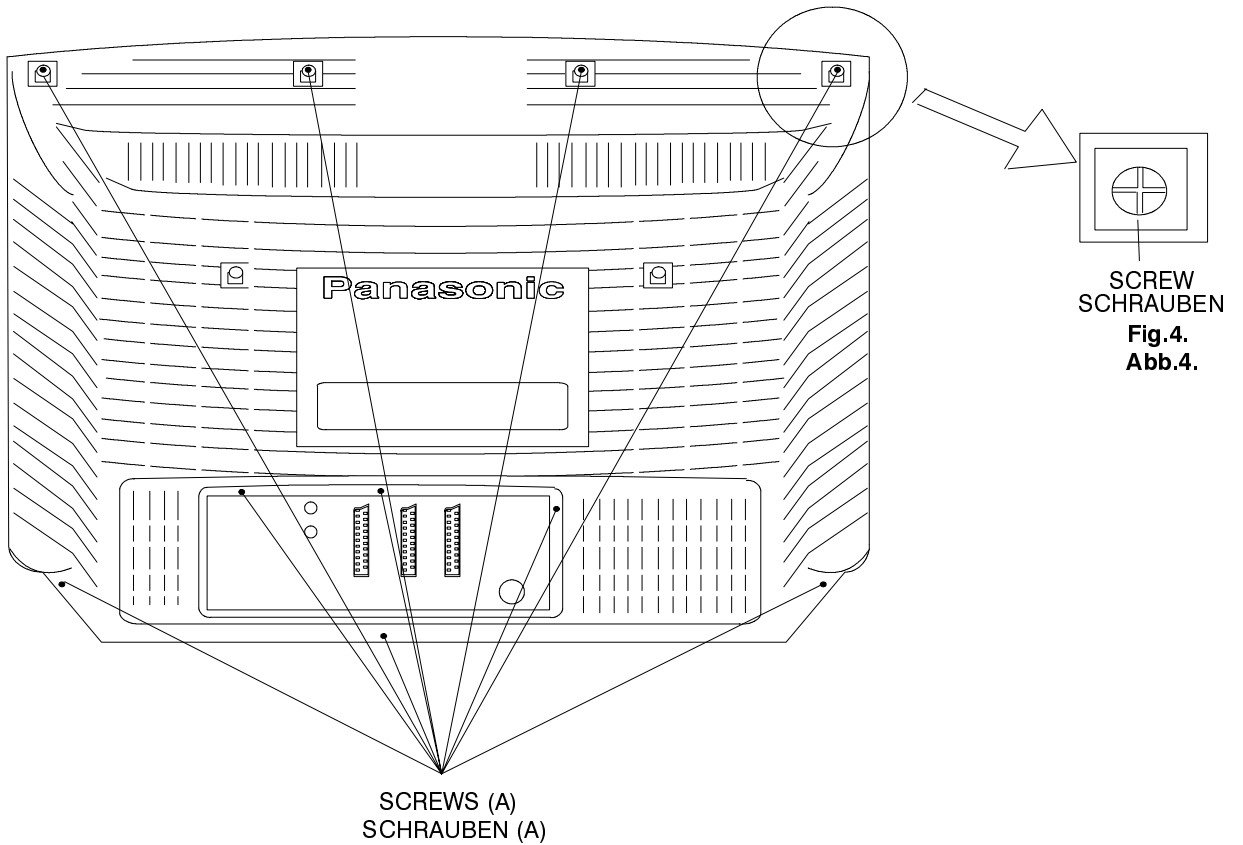
### How to remove the rear cover

1. Remove the 10 screws (A) as shown in Fig.3./Fig.4.

## SERVICE HINWEISE

### Entfernen Der Geräterückwand

1. Die 10 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  $\text{—/v}$  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!

### Memory Pack to TV 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 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.

## 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.

- Um in den Service—Mode zu gelangen, gehen sie bitte wie folgt vor.
  - Stellen sie im Toneinstellungs—Menü die Bässe auf Maximum und die Höhen auf Minimum.
  - 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.
- Die einzelnen Funktionen mit Hilfe der ROTEN und GRÜNEN Taste anwählen.
- Mit der GELBEN und BLAUEN Taste die Werte der einzelnen Funktionen ändern.
- Nach jeder Einstellung die Taste STR auf der Fernbedienung oder am Bedienfeld drücken, um die geänderten Werte abzuspeichern.
- 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

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

Program  
External>>TV

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

Program  
TV>>External

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

Storing

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

OK!

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

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

Program  
External>>TV

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

Loading

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

OK!

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

## 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)

The remote control is used for entering and storing adjustments. 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  $\pm$ /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.

Alignment Function		Settings / Special features
Vertical amplitude	V-AMP 038	Optimum setting.
Vertical linearity	V-LIN 022	
V-Pos.	V-POS 005	Optimum setting.
Horizontal amplitude	H-AMP 043	Optimum setting.
Horizontal position	H-POS 035	
EW-amplitude	E/W-AMP 1 020	Optimum setting.
EW-amplitude	E/W-AMP 2 015	Optimum setting.
Trapezium-comp	TRAPEZ-1 004	Optimum setting
Vert. DC.	VERT. D.C. 008	Not to be adjusted.
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 $150 \pm 5V$ 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)

Die Fernbedienung dient zum Eingeben und Abspeichern der Einstellwerte. Die Einstellfolge für den Service-Modus ist nachstehend beschrieben.

1. Den Tiefenregler auf Höchststellung und den Höhenregler auf Mindeststellung stellen. Nachdem die F-Taste am Bedienfeld des FS-Gerätes gedrückt wurde, die Die Taste "Lautstärke Minus" am FS-Gerät drücken und gleichzeitig die Taste "Reveal" auf der Fernbedienung betätigen. Hierdurch wird das FS-Gerät auf Service-Modus geschaltet.
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.

Abgleichfunktion		Einstellung/Besondere Merkmale
Vertikale Amplitude	V-AMP 038	Optimale Einstellung.
Vertical linearität	V-LIN 022	
V-Pos.	V-POS 005	Optimale Einstellung.
Horizontale Amplitude	H-AMP 043	Optimale Einstellung.
Horizontale position	H-POS 035	
OW-amplitude	E/W-AMP 1 020	Optimale Einstellung.
OW-amplitude	E/W-AMP 2 015	Optimale Einstellung.
Trapez-Kompensation	TRAPEZ-1 004	Optimale Einstellung.
Vert. DC.	VERT. D.C. 008	Nicht einstellen.
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><b>E PCB</b></td> <td></td> <td><b>D PCB</b></td> <td></td> </tr> <tr> <td><b>U5B</b></td> <td>5 ± 0,5V</td> <td><b>U5A</b></td> <td>5,5 +0,5/-0,1V</td> </tr> <tr> <td><b>U8B</b></td> <td>8 ± 0,5V</td> <td><b>U5SB</b></td> <td>5 ± 0,25V</td> </tr> <tr> <td><b>U8</b></td> <td>8 ± 0,5V</td> <td><b>U15</b></td> <td>15 ± 0,7V</td> </tr> <tr> <td><b>U9</b></td> <td>9 ± 0,5V</td> <td><b>U16</b></td> <td>16,8 ± 0,8V</td> </tr> <tr> <td><b>U12</b></td> <td>11,8 ± 0,5V</td> <td><b>U22</b></td> <td>21,5 ± 1V</td> </tr> <tr> <td></td> <td></td> <td><b>U38</b></td> <td>38,5 ± 1V</td> </tr> <tr> <td></td> <td></td> <td><b>U47</b></td> <td>47,5 ± 2,5V</td> </tr> <tr> <td></td> <td></td> <td><b>U150</b></td> <td>150 ± 1V</td> </tr> <tr> <td></td> <td></td> <td><b>U200</b></td> <td>206 ± 10V</td> </tr> </table>	<b>E PCB</b>		<b>D PCB</b>		<b>U5B</b>	5 ± 0,5V	<b>U5A</b>	5,5 +0,5/-0,1V	<b>U8B</b>	8 ± 0,5V	<b>U5SB</b>	5 ± 0,25V	<b>U8</b>	8 ± 0,5V	<b>U15</b>	15 ± 0,7V	<b>U9</b>	9 ± 0,5V	<b>U16</b>	16,8 ± 0,8V	<b>U12</b>	11,8 ± 0,5V	<b>U22</b>	21,5 ± 1V			<b>U38</b>	38,5 ± 1V			<b>U47</b>	47,5 ± 2,5V			<b>U150</b>	150 ± 1V			<b>U200</b>	206 ± 10V
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## 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><b>E PCB</b></td> <td></td> <td><b>D PCB</b></td> <td></td> </tr> <tr> <td><b>U5B</b></td> <td>5 ± 0,5V</td> <td><b>U5A</b></td> <td>5,5 +0,5/-0,1V</td> </tr> <tr> <td><b>U8B</b></td> <td>8 ± 0,5V</td> <td><b>U5SB</b></td> <td>5 ± 0,25V</td> </tr> <tr> <td><b>U8</b></td> <td>8 ± 0,5V</td> <td><b>U15</b></td> <td>15 ± 0,7V</td> </tr> <tr> <td><b>U9</b></td> <td>9 ± 0,5V</td> <td><b>U16</b></td> <td>16,8 ± 0,8V</td> </tr> <tr> <td><b>U12</b></td> <td>11,8 ± 0,5V</td> <td><b>U22</b></td> <td>21,5 ± 1V</td> </tr> <tr> <td></td> <td></td> <td><b>U38</b></td> <td>38,5 ± 1V</td> </tr> <tr> <td></td> <td></td> <td><b>U47</b></td> <td>47,5 ± 2,5V</td> </tr> <tr> <td></td> <td></td> <td><b>U150</b></td> <td>150 ± 1V</td> </tr> <tr> <td></td> <td></td> <td><b>U200</b></td> <td>206 ± 10V</td> </tr> </table>	<b>E PCB</b>		<b>D PCB</b>		<b>U5B</b>	5 ± 0,5V	<b>U5A</b>	5,5 +0,5/-0,1V	<b>U8B</b>	8 ± 0,5V	<b>U5SB</b>	5 ± 0,25V	<b>U8</b>	8 ± 0,5V	<b>U15</b>	15 ± 0,7V	<b>U9</b>	9 ± 0,5V	<b>U16</b>	16,8 ± 0,8V	<b>U12</b>	11,8 ± 0,5V	<b>U22</b>	21,5 ± 1V			<b>U38</b>	38,5 ± 1V			<b>U47</b>	47,5 ± 2,5V			<b>U150</b>	150 ± 1V			<b>U200</b>	206 ± 10V
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## 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:—

## 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)
1 — ok	Lst Power	9 — ok	Clock generator
2 — ok	U5 Det	10 — ok	V-Processor
3 — ok	Protector	11 — ok	DFU
4 — ok	Not Used	12 — ok	Display Processor
5 — ok	Not Used	13 — ok	RGB Processor
6 — ok	Not Used	14 — ok	Deflection IC
7 — ok	Not Used	15 — ok	MSP

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

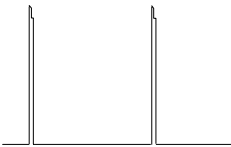
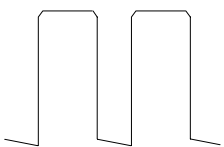

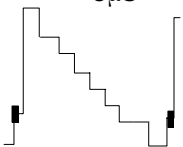
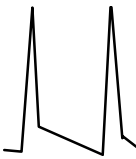
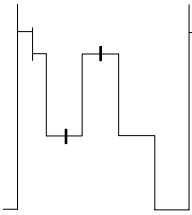
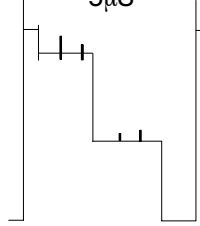
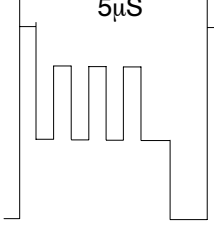
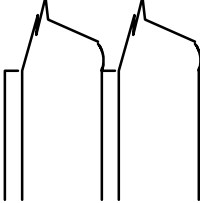
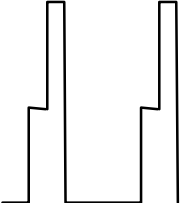
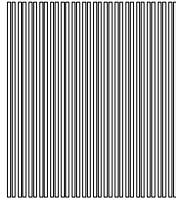
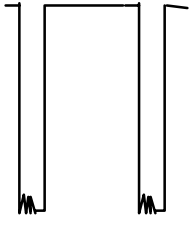
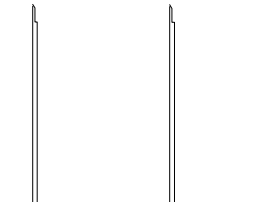
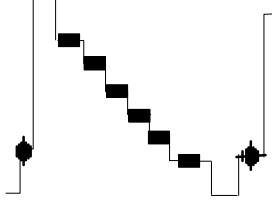
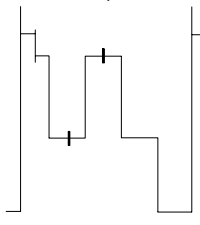
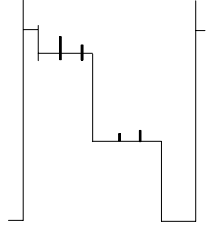
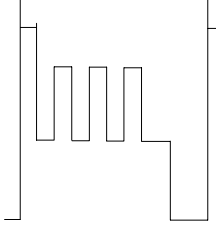
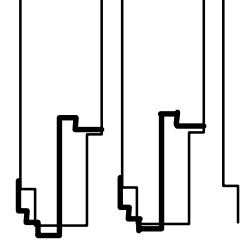
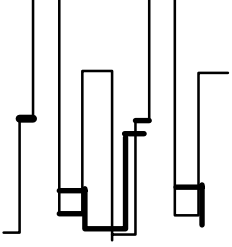
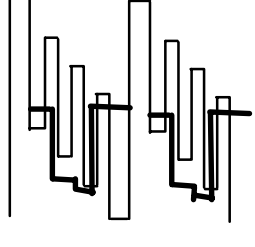
Wenn der Hauptprozessor (CCU) an den Anschlüssen einen Fehler erkennt, oder der entsprechende Anschluss nicht belegt ist, zeigt die entsprechende Position — anstelle von OK an.

16 — ok	Colour Decoder (P)	Hex codes
17 — ok	Q-PIP	49
18 — ok	Not Used	73
19 — ok	Not Used	F7
20 — ok	EAROM	9F
21 — ok	Audio Matrix	BB
22 — ok	Video Matrix	FB
23 — ok	Tuner	03

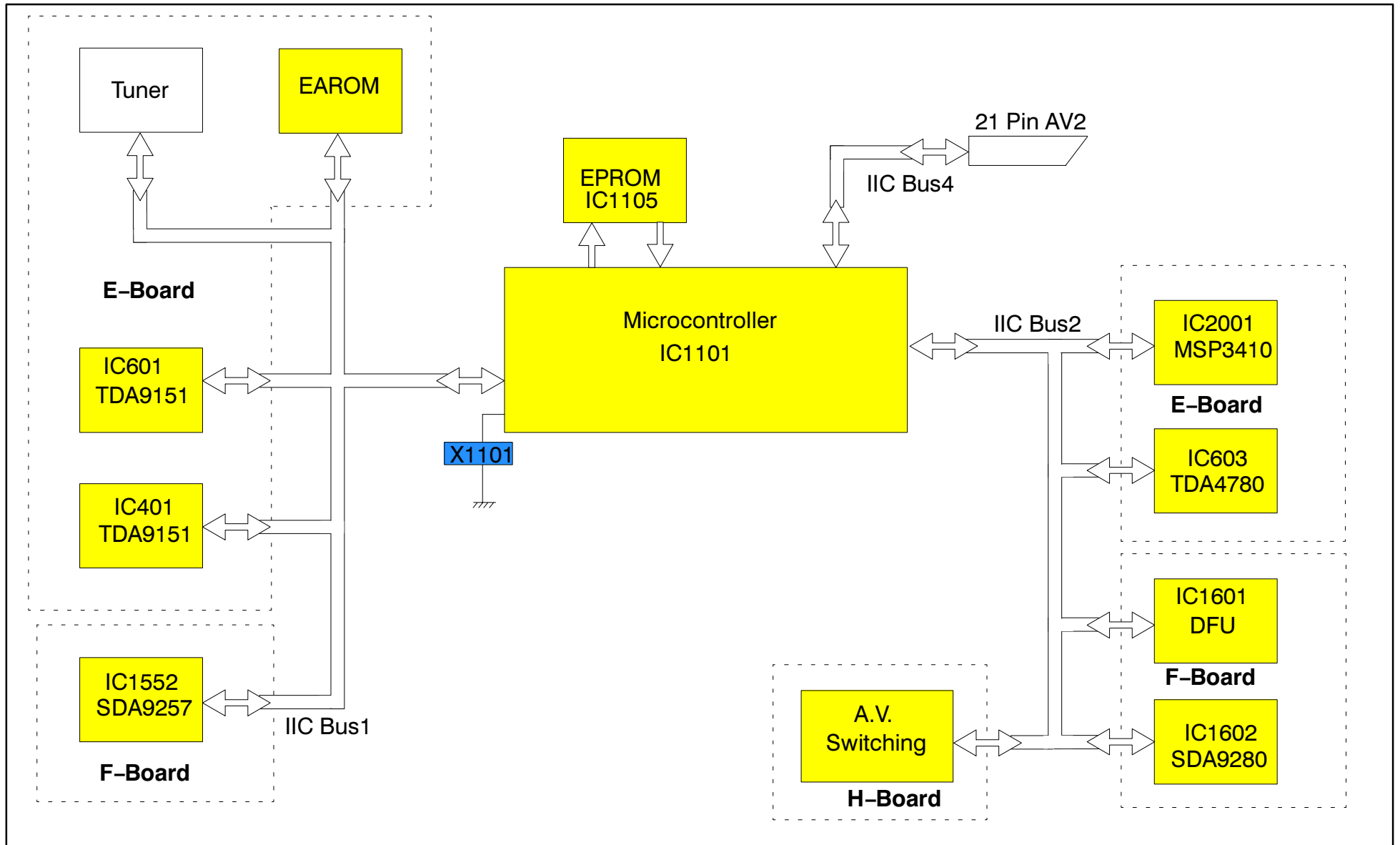
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# WAVEFORM PATTERN TABLE

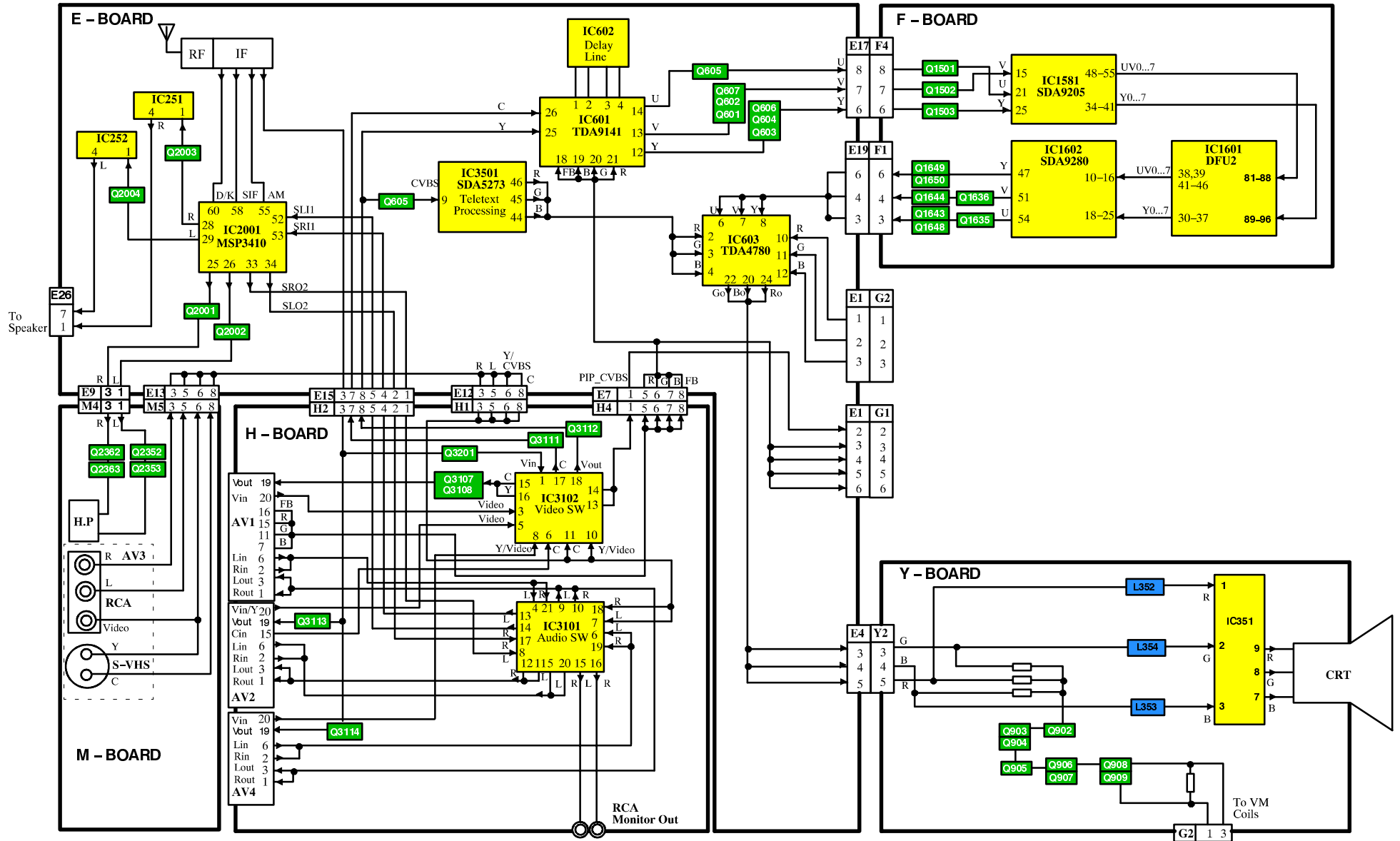
## SIGNAL TABELLE

<p>IC 3501 PIN3 1<math>\mu</math>S</p> 	<p>IC 3501 PIN4 1<math>\mu</math>S</p> 	<p>IC601 PIN25 5<math>\mu</math>S</p> 	<p>IC601 PIN26 5<math>\mu</math>S</p> 
<p>Q552 COLLECTOR 20<math>\mu</math>S</p> 	<p>IC 603 PIN 20 5<math>\mu</math>S</p> 	<p>IC 603 PIN 24 5<math>\mu</math>S</p> 	<p>IC 603 PIN 22 5<math>\mu</math>S</p> 
<p>Q502 COLLECTOR 64<math>\mu</math>S</p> 	<p>IC 1801 PIN 10 20<math>\mu</math>S</p> 	<p>IC 1803 PIN 12 20<math>\mu</math>S</p> 	<p>IC 1803 PIN 1 20<math>\mu</math>S</p> 
<p>IC 1841 PIN 10 5<math>\mu</math>S</p> 	<p>IC 1801 PIN 26 5<math>\mu</math>S</p> 	<p>IC 371 PIN 3 20<math>\mu</math>S</p> 	<p>IC 351 PIN 3 20<math>\mu</math>S</p> 
<p>IC 361 PIN 3 20<math>\mu</math>S</p> 	<p>TPY1 5<math>\mu</math>S</p> 	<p>TPY2 5<math>\mu</math>S</p> 	<p>TPY3 5<math>\mu</math>S</p> 

# CONTROL BLOCK DIAGRAM STROMVERSORGUNGS BLOCKSCHEMA



# VIDEO AND AUDIO SIGNAL PROCESSING BLOCK DIAGRAM BILDsignal / TONSIGNAL BLOCKSCHEMA



## PARTS LOCATION

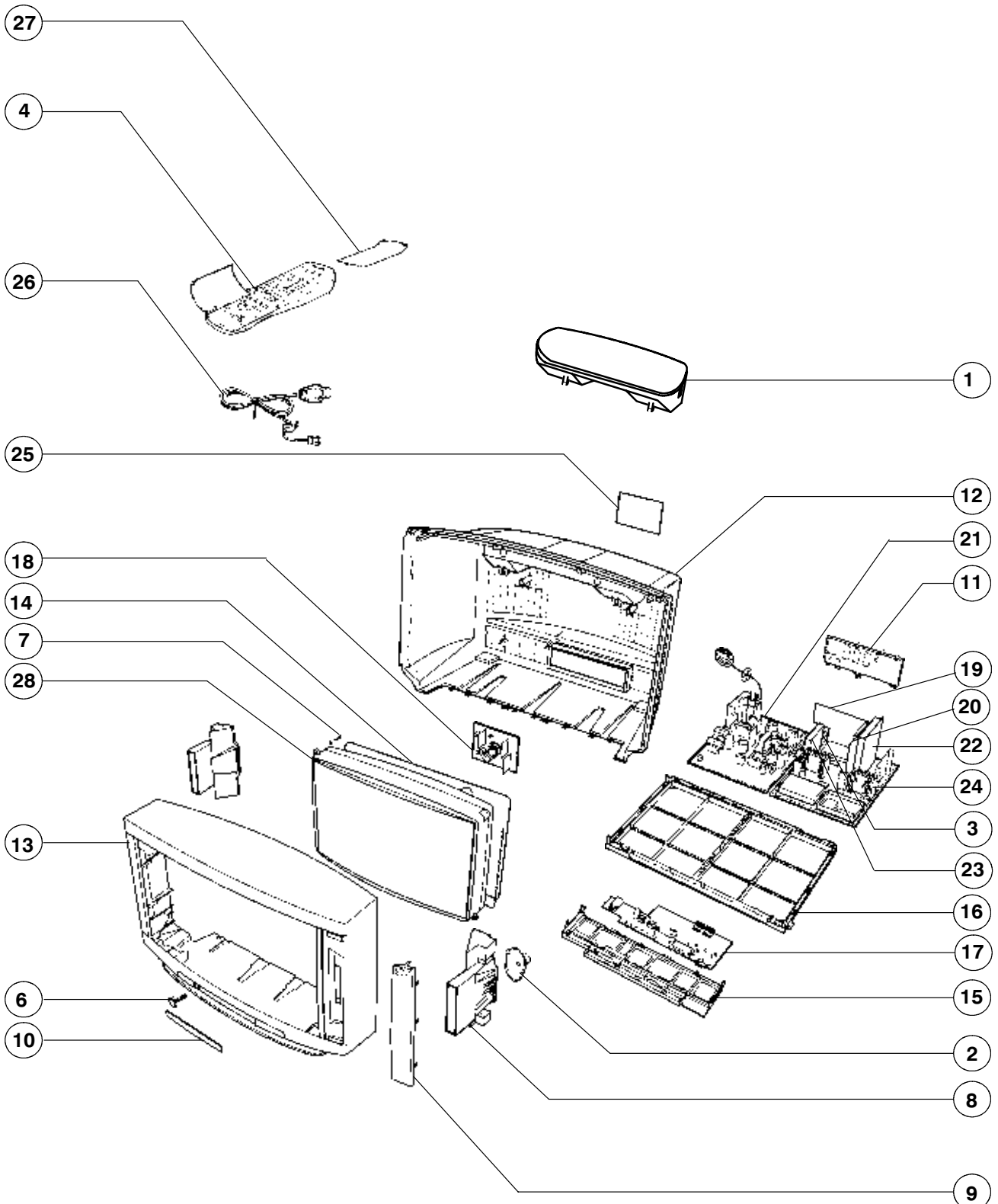
### NOTE :

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

## EXPLOSIONSZEICHNUNG


### Anmerking :

Die Nummer auf den mechanischen Teilen zeigt die Bezugsnummer der Ersatzteilliste an.




# REPLACEMENT PARTS LIST

## Important Safety Notice

Components Identified by  mark have special characteristics important for safety.  
When replacing any of these components, use only manufacturers specified parts.  
\* In case of ordering these spare parts, please always add the complete Model-Type number to your order.

# ERSATZTEILLISTE






## Wichtiger Sicherheitshinweis

Teile, die mit einem Hinweis  gekennzeichnet sind wichtig für die Sicherheit. Sollte ein Auswechsellern erforderlich sein, sind unbedingt Originalteile einzusetzen.  
Bei der Bestellung von Ersatzteilen, die mit \* gekennzeichnet sind, geben Sie bitte unbedingt die vollständige Typenbezeichnung mit an.

Cct Ref	Parts Number	Description
<b>MECHANICAL PARTS</b>		
1	EAB10102B2	3D WOOFER SPEAKER
2	EAGG1218J2	SPEAKER
3	ENV57D03G3	TUNER
4	EUR51922	REMOTE CONTROL
5	TBM8E1728	PANASONIC BADGE
6	TBX8E033	POWER BUTTON
7	THT1062	CRT FIXING SCREW
8	TKK8E026	SPEAKER REFLECTOR
9	TKP8E1148	SPEAKER NET
10	TKP8E1149	DOOR LID
11	TKP8E1153	AV COVER
12	TKU8E00290	BACK COVER
13	TKY8E110	CABINET
14	TLK8E05123	DEGAUSS COIL
15	TMW8E023	CONTROL BRACKET
16	TMX8E014	CHASSIS FRAME
17	TNPA0291AB	M P.C.B.
18	TNPA0292AA	Y P.C.B.
19	TNPA0293AA	H P.C.B.
20	TNPA0294AD	F P.C.B.
21	TNPA0295AZ	D P.C.B.
22	TNPA0297AA	G P.C.B.
23	TNPA0317AA	B P.C.B.
24	TNPH0063BY	E P.C.B.
25	TQF8E2708	MODEL LABEL
26	TSX8E0020	POWER CORD
27	UR51EC780	BATTERY COVER (REMOTE)
28	W76LFC185X05	C.R.T.
<b>MISCELLANEOUS COMPONENTS</b>		
	832AG11D-ESL	I.C. SOCKET
	PCS-068A-1	68 PIN IC SOCKET
	TBM8E1532-2	PRESET PANEL
	TEK6940	LID CATCH
	TKP8E1150	LEFT PANEL
	TKP8E1160	RIGHT PANEL
	TLK8E05124	GEOMAGNETIC CORRECTION
	TMW8E017	LED HOLDER
	TMX8E015	PCB SUPPORT BRACKET
	TPC8E4538	OUTER CARTON
	TPD8E621	TOP CUSHION
	TPD8E622	BOTTOM CUSHION
	UM-3DJ-2P	BATTERY PACK
MOD12	31221212478	FIX CLIP
MOE11	F9-4-220	RELAY
MOD7	TES4537	SPRING
MOD6	TES4537	SPRING
MOD5	TES4537	SPRING
MOE12	TES4537	SPRING
RL806	TSE1885-1	RELAY
RL571	TSEH8012	RELAY
R805	232266296706	THERMISTOR

Cct Ref	Parts Number	Description
	TQB8E2606	GERMAN
<b>INSTRUCTION BOOKS</b>		
<b>I.C.s</b>		
IC101	TDA9814TV3	VIF
IC251	TDA2030AV	AUDIO AMPLIFIER
IC252	TDA2030AV	AUDIO AMPLIFIER
IC351	TDA6111Q-N4	RGB OUTPUT
IC361	TDA6111Q-N4	RGB OUTPUT
IC371	TDA6111Q-N4	RGB OUTPUT
IC401	TDA9151-B	DEFLECTION CONTROLLER
IC451	TDA8350Q/N5	VERTICAL OUTPUT
IC601	TDA9143-N1	COLOUR DECODER
IC602	TDA4665-V5	DELAY LINE
IC603	TDA4780/V4	RGB VIDEO PROCESSOR
IC801	AN8029	POWER SUPPLY
IC845	SE140N	ERROR AMPLIFIER
IC851	TL431ACLPM	REGULATOR
IC852	TL431ACLPM	REGULATOR
IC1051	RPM-637CBRS1	LED RECEIVER
IC1101	SDA30C164-2	MICRO PROCESSOR
IC1102	S-80745AL-Z	RESET
IC1103	MN1280R	RESET
IC1104	X24C0301EE	EAROM *
IC1105	27C2001-F18	EPROM *
IC1301	SAA4961-V3	COMB FILTER
IC1551	SN74F04DR	CLOCK BUFFER
IC1552	SDA9257	CLOCK GENERATOR
IC1581	SDA9205-2GEG	A/D CONVERTER
IC1601	UPD93213GF	DFU
IC1602	SDA9280B22GE	VIDEO 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
IC1801	TDA9143-N1	COLOUR DECODER
IC1802	TDA4665-V5	DELAY LINE
IC1803	SDA9187-2XGE	A/D CONVERTER
IC1841	SDA9189XGEG	PIP PROCESSOR
IC1844	L78M05MRB	5V REGULATOR
IC1901	LA6515	EARTH CORRECTION
IC2001	MSP3410DPPB4	AUDIO PROCESSOR
IC2301	TDA2030AV	AUDIO AMPLIFIER
IC2302	BA15218	OPERATIONAL AMPLIFIER
IC3101	TEA6420	AUDIO SWITCH
IC3102	TEA6415C	VIDEO SWITCH
IC3501	SDA5273S/134	MEGA TEXT
IC3502	M514256C70RS	DRAM
IC3801	AN7808LB	8V REGULATOR



Cct Ref	Parts Number	Description
IC3803	AN7805LB	5V REGULATOR
IC3804	AN7809FLB	9V REGULATOR
IC3805	AN78L08TA	8V REGULATOR
<b>FUSES</b>		
F531	TR5-T1000	FUSE 
F801	XBA2C50TH15	FUSE 
F845	TR5-T2000	FUSE 
F846	TR5-T1250	FUSE 
F8011	EYF52BC	FUSE HOLDER
F8012	EYF52BC	FUSE HOLDER
R585	TSF19201	FS LINK 
<b>DIODES</b>		
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	DIODE
D352	ERA15-04V3	DIODE
D361	ERA15-04V3	DIODE
D362	ERA15-04V3	DIODE
D371	ERA15-04V3	DIODE
D372	ERA15-04V3	DIODE
D387	MA2160LFS	DIODE
D401	MA165TA5	DIODE
D451	MA4056	DIODE
D452	MA2330-ALF	DIODE
D453	TVSEM01ZV0	DIODE
D457	1SS252T-77	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	ERC91-02L9	DIODE
D558	AU02V0	DIODE
D559	MTZJT-7736A	DIODE
D560	1SS252T-77	DIODE
D561	1SS254T-77	DIODE
D563	RH3GLF102	DIODE
D571	FMV-3GULF027	DIODE
D572	RU3NLF1	DIODE
D573	1SS254T-77	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

Cct Ref	Parts Number	Description
D817	D5L60F4015	DIODE
D818	TMPG10G3	DIODE
D819	ERA81004V3	DIODE
D820	MA4100	DIODE
D821	EU02AV0	DIODE
D822	MTZJT-7718C	DIODE
D845	1SS254T-77	DIODE
D846	TVSS1WBS20	DIODE
D847	ERA15-01V1	DIODE
D848	EU02	DIODE
D849	FMGG26S	DIODE
D850	EU02	DIODE
D851	FMGG2CS	DIODE
D852	MTZJT-779.1C	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
D1824	MA4051	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
D3104	PMLL5242B	DIODE
D3105	PMLL5242B	DIODE
D3107	PMLL5242B	DIODE
D3108	PMLL5242B	DIODE
D3109	PMLL5242B	DIODE
D3110	PMLL5242B	DIODE
D3111	PMLL5242B	DIODE
D3112	PMLL5242B	DIODE
D3115	PMLL5242B	DIODE
D3117	PMLL5242B	DIODE
D3120	RLS72TE-11	DIODE
D3121	RLS72TE-11	DIODE
D3351	1SS254T-77	DIODE
D3501	MA4030	DIODE
D3801	MA4043	DIODE
D3802	MTZJT-778.2A	DIODE
D3803	ERA81004V3	DIODE
D3805	MA4091	DIODE
D3806	MA165TA5	DIODE
D3807	MA165TA5	DIODE

Cct Ref	Parts Number	Description
<b>TRANSISTORS</b>		
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
Q572	BC547B	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
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q1112	2SC3757QRTX	TRANSISTOR
Q1191	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description
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
Q1803	BC847B	TRANSISTOR
Q1879	BC857B	TRANSISTOR
Q1880	BC857B	TRANSISTOR
Q1881	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
Q2363	BC557B	TRANSISTOR
Q3101	BC847B	TRANSISTOR
Q3102	BC847B	TRANSISTOR
Q3103	BC847B	TRANSISTOR
Q3104	BC847B	TRANSISTOR
Q3105	BC847B	TRANSISTOR
Q3106	BC847B	TRANSISTOR
Q3107	BC857B	TRANSISTOR
Q3108	BC847B	TRANSISTOR
Q3109	BC847B	TRANSISTOR
Q3110	BC847B	TRANSISTOR
Q3113	BC847B	TRANSISTOR
Q3114	BC847B	TRANSISTOR
Q3115	BC857B	TRANSISTOR
Q3201	BC847B	TRANSISTOR
Q3351	BC847B	TRANSISTOR
Q3352	BC857B	TRANSISTOR
Q3501	BC847B	TRANSISTOR
Q3502	BC847B	TRANSISTOR
Q3503	2SC3130TX	TRANSISTOR
Q3801	2SD1474PLB	TRANSISTOR
<b>TRANSFORMERS</b>		
T501	TLHA003	TRANSFORMER
T551	ZTFH65011A	F.B.T.
T801	ETP35KAN615U	TRANSFORMER
T802	ETS49AH137ND	TRANSFORMER
T803	ETQ19K55AY	TRANSFORMER
<b>COILS</b>		
	TLT100K991R	COIL
LC1602	ELKTR391CA	DELAY LINE
LC1503	ELKTR391CA	DELAY LINE
LC1854	ELKTR391CA	DELAY LINE
LC1601	ELKTR391CA	DELAY LINE
LC1603	ELKTR391CA	DELAY LINE
LC1609	ELKTR560BA	DELAY LINE
LC1509	EXCEMT103DTM	COIL

Cct Ref	Parts Number	Description
LC1508	EXCEMT103DTM	COIL
LC1507	EXCEMT103DTM	COIL
LC1510	EXCEMT103DTM	COIL
L002	TLT047K991R	COIL
L004	TLT047K991R	COIL
L005	TLT047K991R	COIL
L102	TLT056K991R	COIL
L103	EQV7EN203B	COIL
L105	ELESNR22MA	COIL
L107	ELESNR22MA	COIL
L108	ELESNR22MA	COIL
L109	EIL7EN015Q	COIL
L110	EQL7EN022Q	COIL
L113	EIL7EN015Q	COIL
L252	EXCELSA35T	COIL
L253	EXCELSA35T	COIL
L254	EXCELSA35T	COIL
L255	EXCELSA35T	COIL
L351	SDL5000	DELAY LINE
L352	EXCELDLDR25V	COIL
L353	TLT150K991R	COIL
L361	SDL5000	DELAY LINE
L362	EXCELDLDR25V	COIL
L363	TLT150K991R	COIL
L371	SDL5000	DELAY LINE
L372	EXCELDLDR25V	COIL
L373	TLT150K991R	COIL
L381	TLT220K991R	COIL
L401	EXCELDLDR35V	COIL
L402	EXCELDLDR35V	COIL
L451	EXCELDLDR35V	COIL
L552	EXCELSA35T	COIL
L553	EXCELSA35T	COIL
L554	EXCELDLDR35V	COIL
L555	EXCELDLDR35C	COIL
L571	ELC18B801L	COIL
L572	ELHKL025B	COIL
L573	ELHKL028B	COIL
L575	ELC18B331E	COIL
L576	ELC08D101E	COIL
L601	TLT047K991R	COIL
L602	TLT047K991R	COIL
L603	TLT047K991R	COIL
L605	EXCELDLDR25V	COIL
L801	ELF18D486D	COIL
L802	ELF18D486D	COIL
L807	ELF18D856A	COIL
L808	EXCELSA35T	COIL
L809	EXCELDLDR35C	COIL
L810	EXCELSA39V	COIL
L811	EXCELSA39V	COIL
L812	EXCELDLDR35V	COIL
L813	EXCELDLDR35V	COIL
L817	EXCELDLDR35V	COIL
L845	EXCELSA35T	COIL
L847	EXCELSA35B	COIL
L848	EXCELSA35T	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35B	COIL
L854	ELEIE150KA	COIL
L856	EXCELSA35T	COIL
L859	EXCELSA35T	COIL
L860	EXCELSA35T	COIL
L861	EXCELSA35T	COIL
L862	EXCELSA35T	COIL
L864	EXCELDLDR35V	COIL

Cct Ref	Parts Number	Description
L1102	EXCELDLDR35V	COIL
L1103	EXCELDLDR35V	COIL
L1104	EXCELSA35T	COIL
L1105	ELEXT4R7KA	COIL
L1301	TLT330K991R	COIL
L1302	TLT100K991R	COIL
L1303	TLT101K991R	COIL
L1304	TLT100K991R	COIL
L1306	TLT101K991R	COIL
L1501	EXCELDLDR35V	COIL
L1502	TLT033K991R	COIL
L1503	TLT033K991R	COIL
L1504	TLT033K991R	COIL
L1552	EXCELDLDR35V	COIL
L1553	EXCELDLDR35V	COIL
L1575	EXCELDLDR35V	COIL
L1576	EXCELDLDR35V	COIL
L1601	EXCELDLDR35V	COIL
L1602	EXCELDLDR35V	COIL
L1603	TLT100K991R	COIL
L1604	TLT100K991R	COIL
L1605	TLT100K991R	COIL
L1606	TLT100K991R	COIL
L1607	EXCELDLDR35V	COIL
L1641	EXCELDLDR35V	COIL
L1701	EXCELDLDR35V	COIL
L1721	EXCELDLDR35V	COIL
L1722	EXCELDLDR35V	COIL
L1801	TLT150K991R	COIL
L1802	TLT150K991R	COIL
L1804	EXCELDLDR35V	COIL
L1810	TLT470K991R	COIL
L1812	TLT150K991R	COIL
L1841	TLT150K991R	COIL
L1842	TLT150K991R	COIL
L1901	EXCELDLDR25V	COIL
L2001	TLT047K991R	COIL
L2003	EXCELDLDR35V	COIL
L2004	TLT068K991R	COIL
L2005	TLT068K991R	COIL
L2303	EXCELDLDR35V	COIL
L2319	TLS159054E	COIL
L2320	TLS159054E	COIL
L2351	ELEBR6R8KA	COIL
L2361	ELEBR6R8KA	COIL
L3001	ELEBR6R8KA	COIL
L3002	ELEBR6R8KA	COIL
L3003	ELEBR470KA	COIL
L3101	ELEMV1R5MA	COIL
L3102	ELEMV1R5MA	COIL
L3103	ELEMV1R5MA	COIL
L3104	ELEMV1R5MA	COIL
L3107	ELEMV1R5MA	COIL
L3108	ELEMV1R5MA	COIL
L3109	ELEMV1R5MA	COIL
L3110	ELEMV1R5MA	COIL
L3111	ELEMV1R5MA	COIL
L3112	ELEMV1R5MA	COIL
L3113	ELEMV1R5MA	COIL
L3114	ELEMV1R5MA	COIL
L3503	EXCELDLDR35V	COIL
L3507	EXCELDLDR35V	COIL
L3509	EXCELDLDR35V	COIL
L3511	TLT100K991R	COIL
<b>FILTERS</b>		
X101	EFCT6504BF	FILTER

Cct Ref	Parts Number	Description				
X102	EFCT5M7MW3	FILTER				
X103	EFCT6R0MW5	FILTER				
X104	K3953-M100	SAW FILTER				
X105	L9454M	SAW FILTER				
X106	EFCV3195T6	CERAMIC FILTER				
X107	EFCT7004BF	CERAMIC FILTER				
X109	EFCV4045T4	CERAMIC FILTER				
<b>CRYSTALS</b>						
X601	TSSA024	CRYSTAL				
X602	TSSA025	CRYSTAL				
X1101	TAF10020	CRYSTAL				
X1551	TSSA009	CRYSTAL				
X1815	TSSA024	CRYSTAL				
X1816	TSSA025	CRYSTAL				
X1841	TSSA009	CRYSTAL				
X2001	4730007158	CRYSTAL				
X3501	TSSA009	CRYSTAL				
<b>RESISTORS</b>						
	ERC12GK825	SOLID	0.5W	10%	8M2	Ω
	ERDS1TJ6R8	CARBON	0.5W	5%	6R8	Ω
C3181	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
C3183	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
C3185	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
D2008	ERD25TC0T	CARBON	0.25W	5%	0	Ω
JSE012	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JA8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE024	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JA9	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSB3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE011	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE018	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JA7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE02	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE042	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE025	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE010	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JA6	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JA5	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JA2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE050	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF004	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE056	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF002	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE068	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE066	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE064	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE057	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE058	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JA3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF056	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF026	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE019	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSG024	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSG011	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSG002	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSG001	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF062	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSG026	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF059	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSG027	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF054	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF050	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF049	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF046	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω

Cct Ref	Parts Number	Description				
JSF045	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF041	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF040	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF038	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF061	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSH02	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE072	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE09	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF005	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE023	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE020	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE022	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE021	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSF001	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSE062	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSG025	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSH010	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSH01	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSH005	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSH004	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSG075	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSG073	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSG071	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
JSG028	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
L001	ERD25TC0T	CARBON	0.25W	5%	0	Ω
L1307	ERD25TC0T	CARBON	0.25W	5%	0	Ω
L1803	ERD25TC0T	CARBON	0.25W	5%	0	Ω
R003	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω
R006	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K	Ω
R011	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R101	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R103	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R104	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R105	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω
R106	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68	Ω
R107	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K	Ω
R109	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R110	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R111	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω
R113	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R115	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120	Ω
R117	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K	Ω
R118	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150	Ω
R119	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R120	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω
R121	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω
R122	EVNDXAA03B24	CONTROL			20K	Ω
R123	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R124	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω
R125	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R126	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω
R127	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R128	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180	Ω
R130	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R132	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2	Ω
R133	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2	Ω
R134	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R135	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R136	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2	Ω
R137	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R138	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2	Ω
R139	ERJ6GEYJ154	S.M.CARB	0.1W	5%	150K	Ω
R141	ERJ6GEYJ330	S.M.CARB	0.1W	5%	33	Ω
R142	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270	Ω

Cct Ref	Parts Number	Description				
R143	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K	Ω
R144	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5	Ω
R145	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω
R146	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R147	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2	Ω
R148	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K	Ω
R149	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8	Ω
R150	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220	Ω
R151	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R152	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R154	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R156	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R157	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R159	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R251	ERJ6GEYJ2R2	S.M.CARB	0.1W	5%	2R2	Ω
R252	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R253	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R254	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω
R255	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω
R256	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R257	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R258	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R259	ERG3SJS120	METAL	3W	5%	12	Ω ▲
R260	ERJ6GEYJ2R2	S.M.CARB	0.1W	5%	2R2	Ω
R261	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R262	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω
R263	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω
R264	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R265	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R266	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R267	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	Ω
R268	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390	Ω
R269	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R270	ERG3SJS120	METAL	3W	5%	12	Ω ▲
R351	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R352	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R355	ERG2FJ823	METAL	2W	5%	82K	Ω ▲
R356	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R357	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2	Ω
R358	ERDS1TJ821	CARBON	0.5W	5%	820	Ω
R359	ERJ6GEYJ334	S.M.CARB	0.1W	5%	330K	Ω
R360	ERDS1TJ103	CARBON	0.5W	5%	10K	Ω
R361	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R362	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R364	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R365	ERG2FJ823	METAL	2W	5%	82K	Ω ▲
R366	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R367	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2	Ω
R368	ERDS1TJ821	CARBON	0.5W	5%	820	Ω
R369	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R370	ERQ1CJP1R0	FUSIBLE	1W	5%	1	Ω ▲
R371	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R372	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R374	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R375	ERG2FJ823	METAL	2W	5%	82K	Ω ▲
R376	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R377	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2	Ω
R378	ERDS1TJ821	CARBON	0.5W	5%	820	Ω
R379	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R380	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R381	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560	Ω
R383	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6	Ω
R384	ERQ12HJ101	FUSIBLE	0.5W	5%	100	Ω ▲
R390	ERDS1TJ184	CARBON	0.5W	5%	180	Ω
R401	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω

Cct Ref	Parts Number	Description				
R402	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R403	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9	Ω
R406	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K	Ω
R407	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R408	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R409	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R410	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10	Ω
R411	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K	Ω
R412	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R451	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K	Ω
R452	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K	Ω
R453	ERG2FJ820	METAL	2W	5%	82	Ω ▲
R454	ERX12SJ1R0	METAL	0.5W	5%	1	Ω ▲
R455	ERX12SJ1R2	METAL	0.5W	5%	1R2	Ω ▲
R456	ERDS1TJ220	CARBON	0.5W	5%	22	Ω
R457	ERDS1TJ223	CARBON	0.5W	5%	22K	Ω
R458	ERG1SJ272	METAL	1W	5%	2K7	Ω
R459	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K	Ω
R460	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R461	ERJ6GEYJ184	S.M.CARB	0.1W	5%	180K	Ω
R504	ERD25TJ271	CARBON	0.25W	5%	270	Ω
R505	ERG3SJS330	METAL	3W	5%	22	Ω ▲
R506	ERDS1TJ152	CARBON	0.5W	5%	1K5	Ω
R507	ERDS1TJ152	CARBON	0.5W	5%	1K5	Ω
R531	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R532	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R533	ERD25TJ683	CARBON	0.25W	5%	68K	Ω
R534	ERD25TJ473	CARBON	0.25W	5%	47K	Ω
R535	ERD25TJ472	CARBON	0.25W	5%	4K7	Ω
R536	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R539	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R540	ERD25TJ183	CARBON	0.25W	5%	18K	Ω
R541	ERD25TJ102	CARBON	0.25W	5%	1K	Ω
R542	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R543	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω
R547	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R551	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R552	ERD25TJ473	CARBON	0.25W	5%	47K	Ω
R553	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R554	ERX3SJSR27H	METAL	3W	5%	R27	Ω
R555	ERO25CKF2802	METAL	0.25W	1%	8K	Ω ▲
R556	ERO50PKF2802	METAL	0.5W	1%	8K	Ω ▲
R557	ERO25CKF6492	METAL	0.25W	1%	4K9	Ω ▲
R558	ERO50PKF4532	METAL	0.5W	1%	5K3	Ω ▲
R559	ERO25CKF1002	METAL	0.25W	1%	10K	Ω ▲
R560	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω
R562	ERD25TJ473	CARBON	0.25W	5%	47K	Ω
R564	ERDS1TJ394	CARBON	0.5W	5%	390K	Ω
R565	ERQ14AJW2R2	FUSIBLE	0.25W	5%	2R2	Ω ▲
R566	ERDS1TJ183	CARBON	0.5W	5%	18K	Ω
R567	ERG2ANJ223	METAL	2W	5%	22K	Ω ▲
R568	ERQ12HJ330	FUSIBLE	0.5W	5%	33	Ω ▲
R569	ERDS1TJ120	CARBON	0.5W	5%	12	Ω
R570	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R571	ERX3FJ2R7H	METAL	3W	5%	2R7	Ω
R572	ERG3FJ821	METAL	3W	5%	820	Ω ▲
R574	ERG3FJ151	METAL	3W	5%	150	Ω ▲
R577	ERD25TJ683	CARBON	0.25W	5%	68K	Ω
R578	ERD25TJ153	CARBON	0.25W	5%	15K	Ω
R579	ERD25TJ274	CARBON	0.25W	5%	270K	Ω
R580	ERD25TJ563	CARBON	0.25W	5%	56K	Ω
R581	ERD25TJ104	CARBON	0.25W	5%	100K	Ω
R582	ERD25TJ225	CARBON	0.25W	5%	2M2	Ω
R583	ERD25TJ225	CARBON	0.25W	5%	2M2	Ω
R584	ERD25TJ152	CARBON	0.25W	5%	1K5	Ω
R587	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω

Cct Ref	Parts Number	Description				
R588	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω
R589	ERDS1TJ100	CARBON	0.5W	5%	10	Ω
R591	ERF2AKR15	WOUND	2W	10%	R15	Ω ▲
R601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R603	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R604	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R605	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R606	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75	Ω
R609	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R610	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K	Ω
R612	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9	Ω
R613	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9	Ω
R615	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K	Ω
R616	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R617	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R618	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10	Ω
R619	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R620	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R621	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R624	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150	Ω
R625	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K	Ω
R626	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R627	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680	Ω
R628	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150	Ω
R629	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R630	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56	Ω
R632	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K	Ω
R633	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R634	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680	Ω
R635	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150	Ω
R636	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R637	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω
R639	EVNDXAA03B32	CONTROL			300	Ω
R640	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R643	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R644	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R645	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270	Ω
R646	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R647	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150	Ω
R648	ERJ6GEYJ150	S.M.CARB	0.1W	5%	15	Ω
R649	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R651	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2	Ω
R652	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R653	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R654	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R655	ERJ6GEYJ243	S.M.CARB	0.1W	5%	24K	Ω
R656	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R657	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R658	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R659	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R660	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R661	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R662	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R663	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R664	ERC14GJ206V	SOLID	0.25W	5%	20M	Ω
R665	ERC14GJ206V	SOLID	0.25W	5%	20M	Ω
R711	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K	Ω
R712	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K	Ω
R714	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8	Ω
R715	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R716	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R717	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K	Ω
R718	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R753	ERD25TJ333	CARBON	0.25W	5%	33K	Ω
R806	ERD25TJ101	CARBON	0.25W	5%	100	Ω

Cct Ref	Parts Number	Description				
R807	ERD25TJ104	CARBON	0.25W	5%	100K	Ω
R809	ERF10ZK4R7	WOUND	10W	5%	4R7	Ω ▲
R810	ERD25TJ223	CARBON	0.25W	5%	22K	Ω
R811	ERD25TJ102	CARBON	0.25W	5%	1K	Ω
R812	ERD25TJ681	CARBON	0.25W	5%	680	Ω
R814	ERD25TJ332	CARBON	0.25W	5%	3K3	Ω
R815	ERD25TJ150	CARBON	0.25W	5%	15	Ω
R816	ERDS1TJ470	CARBON	0.5W	5%	47	Ω
R818	ERD25TJ331	CARBON	0.25W	5%	330	Ω
R820	ERG3FJ223	METAL	3W	5%	22K	Ω ▲
R821	ERG3FJ223	METAL	3W	5%	22K	Ω ▲
R822	ERD25TJ391	CARBON	0.25W	5%	390	Ω
R823	ERX2SJR22	METAL	2W	5%	R22	Ω ▲
R824	ERX2SJR22	METAL	2W	5%	R22	Ω ▲
R825	ERX2SJR22	METAL	2W	5%	R22	Ω ▲
R827	ERDS1FJ100	CARBON	0.5W	5%	10	Ω ▲
R828	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R829	ERD25TJ471	CARBON	0.25W	5%	470	Ω
R831	ERD75TAJ825	CARBON	0.75W	5%	8M2	Ω ▲
R832	ERG1SJ331	METAL	1W	5%	330	Ω
R835	ERD25TJ220	CARBON	0.25W	5%	22	Ω
R836	ERD25TJ100	CARBON	0.25W	5%	10	Ω
R837	ERD25TJ153	CARBON	0.25W	5%	15K	Ω
R838	ERD25TJ102	CARBON	0.25W	5%	1K	Ω
R847	ERQ1CKPR68	FUSIBLE	1W	10%	R68	Ω ▲
R853	ERO25CKF1002	METAL	0.25W	1%	10K	Ω ▲
R854	ERDS1TJ153	CARBON	0.5W	5%	15K	Ω
R855	ERD25TJ472	CARBON	0.25W	5%	4K7	Ω
R856	ERD25TJ473	CARBON	0.25W	5%	47K	Ω
R858	ERO25CKF1002	METAL	0.25W	1%	10K	Ω ▲
R862	ERD25TJ472	CARBON	0.25W	5%	4K7	Ω
R863	ERG3FJ470	METAL	3W	5%	47	Ω ▲
R864	ERDS1TJ103	CARBON	0.5W	5%	10K	Ω
R865	ERG3FJ470	METAL	3W	5%	47	Ω ▲
R867	ERD25TJ102	CARBON	0.25W	5%	1K	Ω
R870	ERD25TJ101	CARBON	0.25W	5%	100	Ω
R873	ERDS1TJ2R2	CARBON	0.5W	5%	2R2	Ω
R876	ERD25TJ562	CARBON	0.25W	5%	5K6	Ω
R877	ERO25CKF1022	METAL	0.25W	1%	10K2	Ω ▲
R878	ERO25CKF1002	METAL	0.25W	1%	10K	Ω ▲
R883	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R885	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R886	ERF10ZK4R7	WOUND	10W	5%	4R7	Ω ▲
R888	ERDS1TJ393	CARBON	0.5W	5%	39K	Ω
R889	ERD25TJ392	CARBON	0.25W	5%	3K9	Ω
R890	ERX3SJR56	METAL	3W	5%	R56	Ω
R891	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R892	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω
R894	ERD25TJ101	CARBON	0.25W	5%	100	Ω
R905	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680	Ω
R906	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K	Ω
R907	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2	Ω
R908	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470	Ω
R909	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R910	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R911	ERD25TJ561	CARBON	0.25W	5%	560	Ω
R913	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K	Ω
R914	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R915	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8	Ω
R916	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220	Ω
R918	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R919	ERQ14AJW390	FUSIBLE	0.25W	5%	39	Ω ▲
R920	ERQ14AJW390	FUSIBLE	0.25W	5%	39	Ω ▲
R922	ERD25TJ683	CARBON	0.25W	5%	68K	Ω
R923	ERD25TJ683	CARBON	0.25W	5%	68K	Ω
R924	ERDS1FYJ390	CARBON	0.5W	5%	39	Ω ▲

Cct Ref	Parts Number	Description				
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R927	ERD25TJ122	CARBON	0.25W	5%	1K2	Ω
R928	ERD25TJ2R7	CARBON	0.25W	5%	2R7	Ω
R929	ERDS1FYJ471	CARBON	0.5W	5%	470	Ω
R930	ERD25TJ2R7	CARBON	0.25W	5%	2R7	Ω
R931	ERDS1FYJ390	CARBON	0.5W	5%	39	Ω
R932	ERDS1FYJ101	CARBON	0.5W	5%	100	Ω
R933	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R934	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R935	ERQ14AJW3R9	FUSIBLE	0.25W	5%	3R9	Ω
R936	ERQ1CJP102	FUSIBLE	1W	5%	1K	Ω
R937	ERQ14AJW100	FUSIBLE	0.25W	5%	10	Ω
R938	ERD25TJ122	CARBON	0.25W	5%	1K2	Ω
R940	ERD25TJ3R3	CARBON	0.25W	5%	3R3	Ω
R941	ERD25TJ3R3	CARBON	0.25W	5%	3R3	Ω
R1054	ERD25TJ101	CARBON	0.25W	5%	100	Ω
R1057	ERD25TJ101	CARBON	0.25W	5%	100	Ω
R1058	ERD25TJ471	CARBON	0.25W	5%	470	Ω
R1059	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R1061	ERD25TJ103	CARBON	0.25W	5%	10K	Ω
R1062	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω
R1063	ERD25TJ222	CARBON	0.25W	5%	2K2	Ω
R1064	ERD25TJ332	CARBON	0.25W	5%	3K3	Ω
R1065	ERD25TJ512	CARBON	0.25W	5%	5K1	Ω
R1066	ERD25TJ912	CARBON	0.25W	5%	9K1	Ω
R1101	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1102	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1103	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1104	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1105	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1106	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1107	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1108	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1111	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1118	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1122	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1123	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1124	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1125	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1128	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10	Ω
R1129	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10	Ω
R1133	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1134	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1135	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R1136	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220	Ω
R1137	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560	Ω
R1138	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1142	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1143	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9	Ω
R1144	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R1145	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1149	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K	Ω
R1150	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1151	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1152	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1153	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω

Cct Ref	Parts Number	Description				
R1154	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1156	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8	Ω
R1163	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5	Ω
R1164	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1169	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R1170	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3	Ω
R1171	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8	Ω
R1172	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560	Ω
R1174	ERDS1TJ561	CARBON	0.5W	5%	560	Ω
R1182	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1183	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1184	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1185	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1186	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1188	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2	Ω
R1190	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R1191	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R1192	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K	Ω
R1193	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1194	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1301	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R1302	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9	Ω
R1305	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56	Ω
R1306	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1307	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6	Ω
R1308	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M	Ω
R1313	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R1315	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1317	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180	Ω
R1318	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180	Ω
R1319	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R1320	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1321	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1322	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1323	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K	Ω
R1324	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7	Ω
R1325	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1326	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1327	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47	Ω
R1328	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R1329	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0	Ω
R1337	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6	Ω
R1340	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7	Ω
R1501	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56	Ω
R1502	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56	Ω
R1504	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120	Ω
R1507	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7	Ω
R1508	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120	Ω
R1510	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1511	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7	Ω
R1513	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7	Ω
R1515	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R1516	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R1517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K	Ω
R1518	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1519	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1520	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1523	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1550	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220	Ω
R1551	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18	Ω
R1552	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56	Ω
R1554	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18	Ω
R1555	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330	Ω
R1560	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1561	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω
R1562	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100	Ω

Cct Ref	Parts Number	Description				
R1563	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω	
R1568	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R1570	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R1572	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R1575	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1576	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	
R1577	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R1578	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω	
R1581	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1606	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1608	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1620	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1621	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1622	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1624	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1625	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R1626	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1627	ERJ6GEYJ622	S.M.CARB	0.1W	5%	6K2 Ω	
R1628	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R1629	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200 Ω	
R1630	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω	
R1631	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1632	ERJ6GEYJ133	S.M.CARB	0.1W	5%	13K Ω	
R1633	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R1634	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1641	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1643	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1644	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1646	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R1647	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R1648	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1649	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1650	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1652	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1653	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1654	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1656	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1659	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1662	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1666	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1667	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1668	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω	
R1679	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R1680	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R1681	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1682	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R1683	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω	
R1688	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R1701	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω	
R1703	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1704	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1705	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R1706	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R1707	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω	
R1710	ERJ6GEYJ180	S.M.CARB	0.1W	5%	18 Ω	
R1713	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1716	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1724	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R1730	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	
R1777	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R1778	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	
R1801	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1802	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1803	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1804	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	

Cct Ref	Parts Number	Description				
R1805	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R1806	ERJ6GEYJ823	S.M.CARB	0.1W	5%	82K Ω	
R1807	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω	
R1808	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω	
R1809	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1810	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1811	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R1814	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1815	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R1816	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R1817	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1818	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1819	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1820	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1821	ERQ14AJW221	FUSIBLE	14W	5%	220 Ω	
R1823	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R1833	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1834	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1835	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1839	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω	
R1841	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω	
R1842	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	
R1843	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	
R1844	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	
R1860	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1861	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1862	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1863	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1864	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1866	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1867	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R1868	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1873	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1874	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1875	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1877	ERC14GJ206V	SOLID	0.25W	5%	20M Ω	
R1878	ERC14GJ206V	SOLID	0.25W	5%	20M Ω	
R1879	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1880	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1881	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1882	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1883	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1884	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1896	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1897	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1898	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R1899	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω	
R1901	ERD25TJ110	CARBON	0.25W	5%	11 Ω	
R1902	ERD25TJ110	CARBON	0.25W	5%	11 Ω	
R1903	ERD25TJ154	CARBON	0.25W	5%	150K Ω	
R1904	ERD25TJ154	CARBON	0.25W	5%	150K Ω	
R1905	ERD25TJ154	CARBON	0.25W	5%	150K Ω	
R1906	ERD25TJ753	CARBON	0.25W	5%	75K Ω	
R1908	ERD25TJ682	CARBON	0.25W	5%	6K8 Ω	
R1909	ERD25TJ362	CARBON	0.25W	5%	3K6 Ω	
R2001	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R2004	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R2005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2006	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2007	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R2008	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2009	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2010	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2011	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2013	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	



Cct Ref	Parts Number	Description				
R2014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2015	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2016	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2017	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2019	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2020	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R2021	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2022	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2023	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2025	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω	
R2026	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R2027	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2038	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2039	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2044	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2045	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2301	ERJ6GEYJ2R2	S.M.CARB	0.1W	5%	2R2 Ω	
R2302	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R2303	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R2304	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R2305	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R2306	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2307	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2308	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R2309	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R2310	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R2311	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R2312	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R2313	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R2314	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R2315	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R2316	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R2317	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R2318	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2319	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R2320	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R2322	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R2351	ERQ14AJW100	FUSIBLE	0.25W	5%	10 Ω	△
R2352	ERD25TJ101	CARBON	0.25W	5%	100 Ω	
R2353	ERD25TJ101	CARBON	0.25W	5%	100 Ω	
R2354	ERD25TJ473	CARBON	0.25W	5%	47K Ω	
R2355	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2356	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2357	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2358	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2359	ERD25TJ271	CARBON	0.25W	5%	270 Ω	
R2360	ERD25TJ183	CARBON	0.25W	5%	18K Ω	
R2361	ERD25TJ100	CARBON	0.25W	5%	10 Ω	
R2371	ERQ14AJW100	FUSIBLE	0.25W	5%	10 Ω	△
R2372	ERD25TJ101	CARBON	0.25W	5%	100 Ω	
R2373	ERD25TJ101	CARBON	0.25W	5%	100 Ω	
R2374	ERD25TJ473	CARBON	0.25W	5%	47K Ω	
R2375	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2376	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2377	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2378	ERD25TJ102	CARBON	0.25W	5%	1K Ω	
R2379	ERD25TJ271	CARBON	0.25W	5%	270 Ω	
R2380	ERD25TJ183	CARBON	0.25W	5%	18K Ω	
R2381	ERD25TJ100	CARBON	0.25W	5%	10 Ω	
R3006	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3101	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3108	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3109	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	

Cct Ref	Parts Number	Description				
R3110	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3111	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3114	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3115	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3117	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3118	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3119	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3122	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3123	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3124	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3125	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3126	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3127	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3128	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3129	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R3130	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3131	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3132	ERD2FCVG100T	CARBON	2W	5%	10 Ω	△
R3133	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3134	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3135	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3136	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3137	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3138	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3139	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3140	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3141	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3142	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3143	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3144	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3146	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R3147	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3148	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3149	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3150	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3151	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3153	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3154	ERD2FCVG100T	CARBON	2W	5%	10 Ω	△
R3156	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R3157	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R3158	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω	
R3159	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3160	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R3161	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	
R3162	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3163	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3164	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8 Ω	
R3165	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3166	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω	
R3167	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3168	ERD2FCVG100T	CARBON	2W	5%	10 Ω	△
R3169	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3170	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R3171	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω	
R3172	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R3173	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560 Ω	
R3174	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R3175	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R3178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3180	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R3182	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	

Cct Ref	Parts Number	Description			
R3184	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3185	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω
R3186	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3187	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω
R3188	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3192	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3193	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3194	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3195	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3196	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω
R3197	ERD2FCVG100T	CARBON	2W	5%	10 Ω
R3198	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω
R3199	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47 Ω
R3200	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3201	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R3202	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R3205	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3206	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3207	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3208	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3210	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω
R3211	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω
R3212	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R3213	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3214	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3215	ERD2FCVG100T	CARBON	2W	5%	10 Ω
R3216	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω
R3217	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3218	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3219	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12K Ω
R3220	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3221	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3222	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω
R3223	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3224	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3225	ERD2FCVG100T	CARBON	2W	5%	10 Ω
R3226	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3227	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3228	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω
R3229	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3230	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3231	ERD2FCVG100T	CARBON	2W	5%	10 Ω
R3232	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R3233	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R3236	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3237	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3238	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3239	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3240	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R3351	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3352	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3353	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470K Ω
R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3355	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R3501	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R3502	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3503	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3505	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R3506	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R3507	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3508	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150 Ω
R3509	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3513	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3514	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3515	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω

Cct Ref	Parts Number	Description			
R3516	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R3517	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3518	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3520	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3521	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3522	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3523	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3526	ERD25TC0T	CARBON	0.25W	5%	0 Ω
R3531	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3532	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R3534	ERD25TJ181	CARBON	0.25W	5%	180 Ω
R3536	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3539	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R3540	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω
R3541	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω
R3542	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9 Ω
R3802	ERG3FJ100	METAL	3W	5%	10 Ω
R3803	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R3804	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
<b>CAPACITORS</b>					
C002	ECUV1H102JCX	S.M. CAP	50V		1nF
C003	ECA1HM101GB	ELECT	50V		100μF
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		1nF
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		47μF
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		10μF
C120	ECEA1HKA2R2	ELECT	50V		2.2μF
C121	ECEA1HKA2R2	ELECT	50V		2.2μF
C122	ECUV1C105ZFX	S.M. CAP	16V		1μF
C123	ECEA1HKA2R2	ELECT	50V		2.2μF
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		10μF
C128	ECUV1H102KBX	S.M. CAP	50V		1nF
C129	ECEA1CKA100	ELECT	16V		10μF
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		10μF
C136	ECUV1H104ZFX	S.M. CAP	50V		100nF

Cct Ref	Parts Number	Description		
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	10µF
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
C255	ECEA1CN100	ELECT	16V	10µF
C256	ECA1HM330B	ELECT	50V	33µF
C257	ECA1HM100GB	ELECT	50V	10µF
C258	ECQM1H474J	FILM	50V	470nF
C259	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C261	ECUV1H393KBX	S.M. CAP	50V	39nF
C262	ECEA1CN100	ELECT	16V	10µF
C263	ECA1HM330B	ELECT	50V	33µF
C264	ECA1HM100GB	ELECT	50V	10µF
C267	ECUV1H103ZFX	S.M. CAP	50V	10nF
C268	ECJ2VF1H223Z	ELECT	350V	22nF
C269	ECA1EM222GB	ELECT	25V	22nF
C270	ECA1EM222GB	ELECT	25V	22nF
C271	ECA1HM010GB	ELECT	50V	1µF
C272	ECA1HM010GB	ELECT	50V	1µF
C273	ECA1HM010GB	ELECT	50V	1µF
C274	ECA1HM010GB	ELECT	50V	1µF
C275	ECUV1C184KBX	S.M. CAP	16V	180nF
C276	ECUV1C184KBX	S.M. CAP	16V	180nF
C277	ECEA1HU471	ELECT	50V	470µF
C281	ECUV1H104ZFX	S.M. CAP	50V	100nF
C282	ECUV1H561JCX	S.M. CAP	50V	560pF
C283	ECUV1H561JCX	S.M. CAP	50V	560pF
C352	ECUV1H224ZFX	S.M. CAP	50V	220nF
C353	ECUV1H104KBX	S.M. CAP	50V	100nF
C354	ECKC2H103J	CERAMIC	50V	10nF
C355	ECKC2H102J	CERAMIC	500V	1nF
C362	ECUV1H224ZFX	S.M. CAP	50V	220nF
C363	ECUV1H104KBX	S.M. CAP	50V	100nF
C364	ECKC2H103J	CERAMIC	50V	10nF
C365	ECKC2H102J	CERAMIC	500V	1nF
C372	ECUV1H224ZFX	S.M. CAP	50V	220nF
C373	ECUV1H104KBX	S.M. CAP	50V	100nF
C374	ECKC2H103J	CERAMIC	50V	10nF
C375	ECKC2H102J	CERAMIC	500V	1nF
C381	ECA1HM101GB	ELECT	50V	100µF
C382	ECA1CM471GB	ELECT	16V	470µF
C383	ECUV1H103KBX	S.M. CAP	50V	10nF
C384	ECQM2104KZ	FILM	250V	100nF
C385	ECEA2EU220	ELECT	250V	22µF
C386	ECKC3D152J	CERAMIC	2KV	1.5nF
C395	ECQM1H104J	FILM	50V	100nF
C402	ECUV1H104ZFX	S.M. CAP	50V	100nF
C403	ECA1AM332E	ELECT	10V	100nF
C404	ECUV1H104ZFX	S.M. CAP	50V	100nF
C405	ECUV1H104ZFX	S.M. CAP	50V	100nF
C406	ECUV1H471JCX	S.M. CAP	50V	470pF

Cct Ref	Parts Number	Description		
C409	ECUV1H101JCX	S.M. CAP	50V	100pF
C413	ECUV1H561KBX	S.M. CAP	50V	560pF
C451	ECUV1H104ZFX	S.M. CAP	50V	100nF
C452	ECA1EM332E	ELECT	25V	100nF
C453	ECA2CM100B	ELECT	160V	10µF
C455	ECEA1HN100	ELECT	50V	10µF
C456	ECQV1104JZ3	FILM	100V	100nF
C457	ECUV1H102JCX	S.M. CAP	50V	1nF
C461	ECUV1C224KBX	S.M. CAP	16V	220nF
C462	ECKC3A471J	CERAMIC	1KV	470pF
C463	ECUV1H102KBX	S.M. CAP	50V	1nF
C464	ECKC1H102J	CERAMIC	50V	1nF
C501	ECQM1H224J	FILM	50V	220nF
C502	ECQM2683JZ	FILM	250V	68nF
C503	ECKC2H102J	CERAMIC	500V	1nF
C504	ECQB1H223K	FILM	50V	22nF
C506	ECKC2H102J	CERAMIC	500V	1nF
C552	ECWH15H102JN	FILM	1500V	1nF
C553	ECQP1223JZW	FILM	100V	22nF
C555	TAC4R6T622JC	CERAMIC	400V	6.2µF
C556	ECEA2CNR47SB	ELECT	160V	6.2µF
C557	ECKC2H331J	CERAMIC	500V	330pF
C558	ECA2EM330B	ELECT	250V	33µF
C559	ECKC2H101J	CERAMIC	500V	100pF
C560	ECA1EM332E	ELECT	25V	100pF
C561	ECKC2H561J	CERAMIC	500V	560pF
C562	ECA1JM220B	ELECT	63V	22µF
C563	TAC7A2D564JC	CERAMIC	1500V	560nF
C564	ECKC1H472J	CERAMIC	50V	4.7nF
C565	ECQP1223JZW	FILM	100V	22nF
C571	ECQV1H105JZ	FILM	50V	1µF
C572	TAC4R6T682JC	CERAMIC	400V	6.8µF
C573	ECQF4153JZH	FILM	400V	1.5nF
C574	ECWF4564JBB	FILM	400V	560nF
C575	ECWF4564JBB	FILM	400V	560nF
C577	TAC1114Z105A	CERAMIC	100V	1µF
C580	ECKC1H103JB	CERAMIC	50V	10nF
C581	ECQF4153JZH	FILM	400V	1.5nF
C584	ECKC3D391J	CERAMIC	2KV	390pF
C585	ECKC3A471J	CERAMIC	1KV	470pF
C586	ECKC1H103JB	CERAMIC	50V	10nF
C601	ECUV1H104ZFX	S.M. CAP	50V	100nF
C602	ECUV1H104ZFX	S.M. CAP	50V	100nF
C603	ECUV1H104ZFX	S.M. CAP	50V	100nF
C604	ECUV1H104ZFX	S.M. CAP	50V	100nF
C605	ECUV1H104ZFX	S.M. CAP	50V	100nF
C606	ECUV1H104ZFX	S.M. CAP	50V	100nF
C608	ECUV1H104ZFX	S.M. CAP	50V	100nF
C609	ECUV1H180JCX	S.M. CAP	50V	18pF
C610	ECUV1H150JCX	S.M. CAP	50V	15pF
C611	ECUV1H104ZFX	S.M. CAP	50V	100nF
C612	ECUV1H332ZFX	S.M. CAP	50V	3.3nF
C613	ECUV1C474ZFX	S.M. CAP	16V	470nF
C614	ECUV1H332ZFX	S.M. CAP	50V	3.3nF
C615	ECUV1H104ZFX	S.M. CAP	50V	100nF
C616	ECUV1H104ZFX	S.M. CAP	50V	100nF
C617	ECA1CM220GB	ELECT	16V	22µF
C618	ECUV1H104ZFX	S.M. CAP	50V	100nF
C619	ECUV1H104ZFX	S.M. CAP	50V	100nF
C620	ECUV1H104ZFX	S.M. CAP	50V	100nF
C621	ECUV1H104ZFX	S.M. CAP	50V	100nF
C622	ECUV1H104ZFX	S.M. CAP	50V	100nF
C623	ECUV1H103ZFX	S.M. CAP	50V	10nF
C624	ECUV1H103ZFX	S.M. CAP	50V	10nF
C625	ECUV1H103ZFX	S.M. CAP	50V	10nF
C626	ECUV1H103ZFX	S.M. CAP	50V	10nF

Cct Ref	Parts Number	Description			
C627	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C628	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C629	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C630	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C631	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C632	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C633	ECUV1H470JCX	S.M. CAP	50V	47pF	
C634	ECA1CM221GB	ELECT	16V	220µF	
C635	ECA1HM220GB	ELECT	50V	22µF	
C636	ECA1HM010GB	ELECT	50V	1µF	
C637	ECQM1H224J	FILM	50V	220nF	
C638	ECA1HM010GB	ELECT	50V	1µF	
C639	ECQM1H224J	FILM	50V	220nF	
C640	ECQM1H224J	FILM	50V	220nF	
C641	ECQM1H224J	FILM	50V	220nF	
C642	ECA1AM470GB	ELECT	10V	47µF	
C643	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C644	ECA1CM470GB	ELECT	16V	47µF	
C645	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C646	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C647	ECEA1CN470	ELECT	16V	47µF	
C648	ECEA1CN470	ELECT	16V	47µF	
C651	ECUV1H820JCX	S.M. CAP	50V	82pF	
C654	ECUV1H393KBX	S.M. CAP	50V	39nF	
C655	ECJ2VB1E563K	ELECT	350V	56nF	
C657	ECUV1C474ZFX	S.M. CAP	16V	470nF	
C659	ECUV1H821KBX	S.M. CAP	50V	820pF	
C661	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C662	ECUV1H470JCX	S.M. CAP	50V	47pF	
C663	ECUV1H150JCX	S.M. CAP	50V	15pF	
C703	ECUV1C224KBX	S.M. CAP	16V	220nF	
C752	ECKC2H103J	CERAMIC	50V	10nF	⚠
C803	ECQE2A474MWB	FILM	100V	470nF	
C804	222233510154	FILM	50V	100µF	
C806	ECQE6104K	FILM	600V	100nF	⚠
C807	ECQB1H473K	FILM	50V	47nF	
C808	ECQB1H333J	FILM	50V	33nF	
C810	222233510154	FILM	50V	100µF	
C811	ECQB1H104J	FILM	50V	100nF	
C812	ECQB1H222J	FILM	50V	2.2nF	
C813	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C814	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C815	ECA1CM331B	ELECT	16V	330µF	
C816	ECQB1H122J	FILM	50V	1.2nF	
C817	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C818	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C819	ECOS2GG181NG	ELECT	400V	180µF	⚠
C820	ECOS2GG181NG	ELECT	400V	180µF	⚠
C821	ECQB1H222J	FILM	50V	2.2nF	
C822	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C823	EEUFA1V221B	CERAMIC	35V	220µF	
C824	ECQB1H121KF3	FILM	50V	120pF	
C826	ECQB1H473K	FILM	50V	47nF	
C827	ECKCNS332J	CERAMIC	1.2KV	3.3nF	⚠
C830	ECQE4105JFW	FILM	400V	1µF	⚠
C831	ECKC3D471JB	CERAMIC	2KV	470pF	⚠
C833	ECQB1H682K	FILM	50V	6.8nF	
C834	ECQB1H471KF3	FILM	50V	470pF	
C835	ECQB1H152K	FILM	50V	1.5nF	
C849	ECKC2H471J	CERAMIC	500V	470pF	⚠
C851	ECQM1H104J	FILM	50V	100nF	
C852	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C853	ECA1CM471GB	ELECT	16V	470µF	
C854	ECA1EM471GB	ELECT	25V	470µF	
C855	ECEA1HU102	ELECT	50V	470µF	
C856	ECEA1HU471	ELECT	50V	470µF	

Cct Ref	Parts Number	Description			
C857	ECA1EM471GB	ELECT	25V	470µF	
C858	ECOS2EA271BB	ELECT	250V	270µF	
C859	ECKC2H471J	CERAMIC	500V	470pF	⚠
C861	ECOS2EA221AB	ELECT	250V	220µF	
C863	ECA1EM222GB	ELECT	25V	220µF	
C864	ECA0JM102GB	ELECT	6.3V	220µF	
C866	ECA1HM101GB	ELECT	50V	100µF	
C867	ECA1CM222GB	ELECT	16V	100µF	
C868	ECA1CM100GB	ELECT	16V	10µF	
C871	ECA0JM102GB	ELECT	6.3V	10µF	
C872	ECA1CM222GB	ELECT	16V	10µF	
C901	ECUV1H030CCX	S.M. CAP	50V	30pF	
C902	ECA1VM101GB	ELECT	35V	100µF	
C903	ECA1CM470GB	ELECT	16V	47µF	
C904	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C905	ECA1CM100GB	ELECT	16V	10µF	
C906	ECUV1H151JCX	S.M. CAP	50V	150pF	
C908	ECUV1H151JCX	S.M. CAP	50V	150pF	
C909	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C910	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C911	ECUV1H151JCX	S.M. CAP	50V	150pF	
C912	ECEA2EU220	ELECT	250V	22µF	
C913	ECA1HM101GB	ELECT	50V	100µF	
C914	ECA1HM101GB	ELECT	50V	100µF	
C915	ECA1CM471GB	ELECT	16V	470µF	
C916	ECEA2EU220	ELECT	250V	22µF	
C917	ECA1HM100GB	ELECT	50V	10µF	
C918	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C919	ECCR2H270J	CERAMIC	500V	27pF	
C1051	ECKC1H101J	CERAMIC	50V	100pF	
C1052	ECA1VM470B	ELECT	35V	47µF	
C1053	ECKC1H103JB	CERAMIC	50V	10nF	
C1102	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1103	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1104	ECA0JM101G	ELECT	6.3V	100µF	
C1105	ECUV1H330JCX	S.M. CAP	50V	33pF	
C1106	ECUV1H330JCX	S.M. CAP	50V	33pF	
C1107	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1108	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C1109	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C1110	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1111	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1112	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C1113	ECUV1H102JCX	S.M. CAP	50V	1nF	
C1114	ECUV1H102JCX	S.M. CAP	50V	1nF	
C1115	ECUV1H102JCX	S.M. CAP	50V	1nF	
C1126	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1127	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1129	ECA1AM470GB	ELECT	10V	47µF	
C1130	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1131	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1133	ECUV1C184KBX	S.M. CAP	16V	180nF	
C1134	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1135	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C1136	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1137	ECUV1H102KBX	S.M. CAP	50V	1nF	
C1138	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1302	ECUV1H150JCX	S.M. CAP	50V	15pF	
C1304	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C1305	ECA1HM101GB	ELECT	50V	100µF	
C1306	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1307	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1308	ECA1HM101GB	ELECT	50V	100µF	
C1309	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1310	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1311	ECUV1H104ZFX	S.M. CAP	50V	100nF	

Cct Ref	Parts Number	Description		
C1312	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1313	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1314	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1315	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1316	ECA1HM101GB	ELECT	50V	100µF
C1317	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1318	ECA1HM101GB	ELECT	50V	100µF
C1321	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1322	ECUV1H101JCX	S.M. CAP	50V	100pF
C1323	ECA1HM101GB	ELECT	50V	100µF
C1324	ECA1HM101GB	ELECT	50V	100µF
C1325	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1326	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1327	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1508	ECUV1H103KBX	S.M. CAP	50V	10nF
C1509	ECA1CM100GB	ELECT	16V	10µF
C1518	ECA1HM101GB	ELECT	50V	100µF
C1519	ECA1CM470GB	ELECT	16V	47µF
C1520	ECA1CM470GB	ELECT	16V	47µF
C1521	ECUV1H390JCX	S.M. CAP	50V	39pF
C1524	ECUV1H221JCX	S.M. CAP	50V	220pF
C1525	ECUV1H391JCX	S.M. CAP	50V	390pF
C1528	ECUV1H390JCX	S.M. CAP	50V	39pF
C1529	ECUV1H221JCX	S.M. CAP	50V	220pF
C1531	ECUV1H391JCX	S.M. CAP	50V	390pF
C1532	ECUV1H151JCX	S.M. CAP	50V	150pF
C1533	ECUV1H750JCX	S.M. CAP	50V	75pF
C1534	ECUV1H391JCX	S.M. CAP	50V	390pF
C1537	ECA0JM102GB	ELECT	6.3V	390pF
C1552	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1554	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1555	ECA0JM331GB	ELECT	6.3V	330µF
C1556	ECUV1H270JCX	S.M. CAP	50V	27pF
C1557	ECUV1H270JCX	S.M. CAP	50V	27pF
C1559	ECUV1H103KBX	S.M. CAP	50V	10nF
C1560	ECUV1H103KBX	S.M. CAP	50V	10nF
C1561	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1562	ECA0JM331GB	ELECT	6.3V	330µF
C1564	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1575	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1576	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1577	ECA1CM470GB	ELECT	16V	47µF
C1579	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1580	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1583	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1584	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1585	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1586	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1588	ECA1CM470GB	ELECT	16V	47µF
C1590	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1591	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1592	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1593	ECA1CM470GB	ELECT	16V	47µF
C1594	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1595	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1596	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1599	ECA1CM470GB	ELECT	16V	47µF
C1601	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1602	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1603	ECUV1H103KBX	S.M. CAP	50V	10nF
C1604	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1605	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1606	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1607	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1608	ECA1CM470GB	ELECT	16V	47µF
C1610	ECUV1H104ZFX	S.M. CAP	50V	100nF

Cct Ref	Parts Number	Description		
C1611	ECUV1H103KBX	S.M. CAP	50V	10nF
C1612	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1613	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1614	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1616	ECUV1H152JCX	S.M. CAP	50V	1.5pF
C1617	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1618	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1619	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1620	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1621	ECA1CM470GB	ELECT	16V	47µF
C1622	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1625	ECA1CM470GB	ELECT	16V	47µF
C1641	ECA1CM470GB	ELECT	16V	47µF
C1642	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1701	ECA1CM470GB	ELECT	16V	47µF
C1702	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1703	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1704	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1705	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1706	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1707	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1708	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1709	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1710	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1711	ECUV1H103KBX	S.M. CAP	50V	10nF
C1712	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1713	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1714	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1721	ECA1CM470GB	ELECT	16V	47µF
C1722	ECA1CM470GB	ELECT	16V	47µF
C1723	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1724	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1725	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1726	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1727	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1728	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1729	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1730	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1731	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1732	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1733	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1734	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1735	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1736	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1740	ECUV1H102KBX	S.M. CAP	50V	1nF
C1801	ECUV1C104KBX	S.M. CAP	16V	100nF
C1802	ECUV1C104KBX	S.M. CAP	16V	100nF
C1803	ECUV1C104KBX	S.M. CAP	16V	100nF
C1804	ECUV1C104KBX	S.M. CAP	16V	100nF
C1805	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1806	ECUV1C104KBX	S.M. CAP	16V	100nF
C1807	ECUV1C104KBX	S.M. CAP	16V	100nF
C1808	ECUV1C104KBX	S.M. CAP	16V	100nF
C1809	ECUV1C104KBX	S.M. CAP	16V	100nF
C1810	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1811	ECUV1C104KBX	S.M. CAP	16V	100nF
C1812	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1813	ECUV1H332KBX	S.M. CAP	50V	3.3nF
C1814	ECUV1C104KBX	S.M. CAP	16V	100nF
C1815	ECUV1H180JCX	S.M. CAP	50V	18pF
C1816	ECUV1H150JCX	S.M. CAP	50V	15pF
C1817	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1818	ECUV1H331JCX	S.M. CAP	50V	330pF
C1819	ECUV1H331JCX	S.M. CAP	50V	330pF
C1820	ECUV1H680JCX	S.M. CAP	50V	68pF
C1821	ECUV1H103KBX	S.M. CAP	50V	10nF

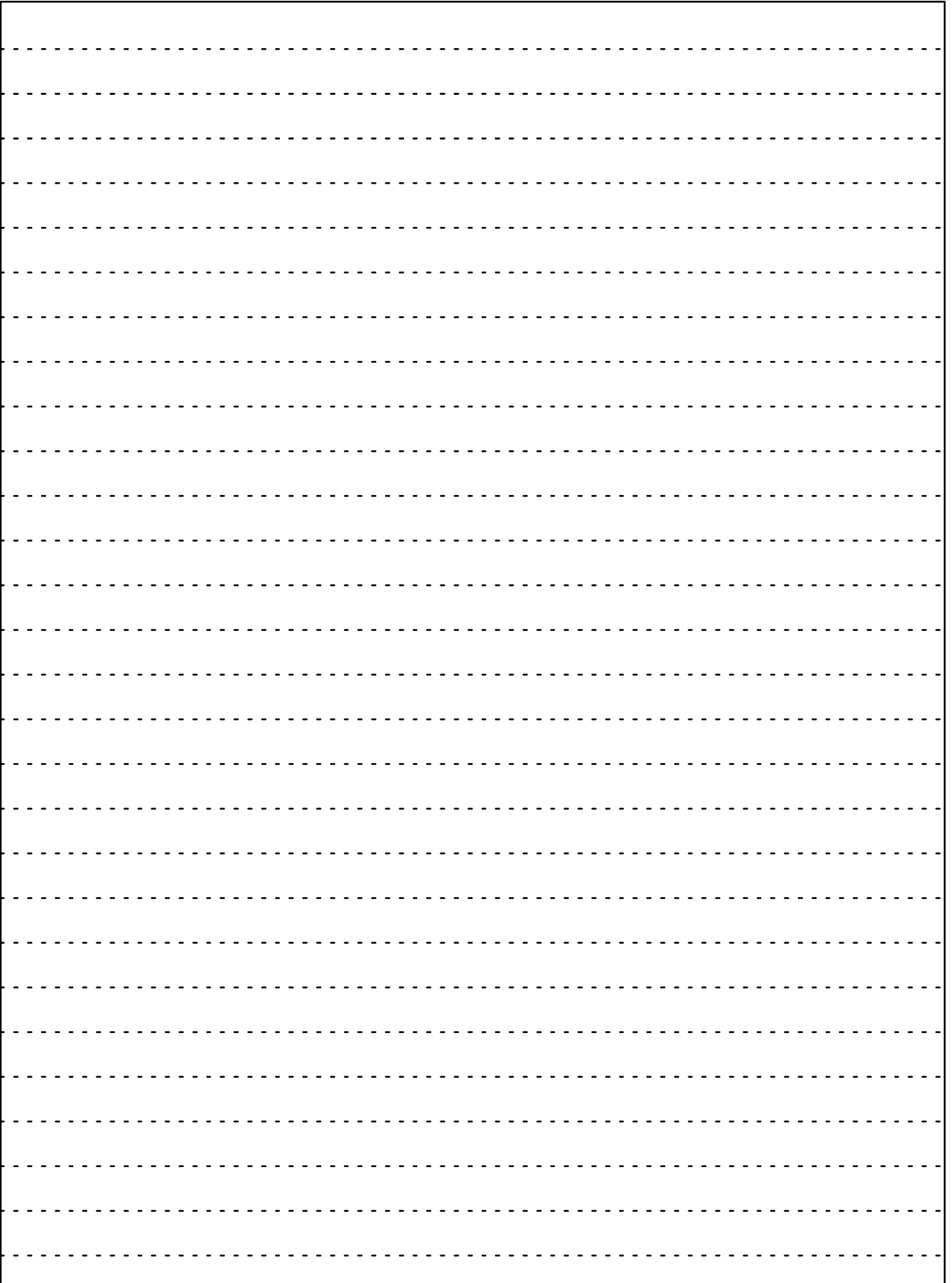
Cct Ref	Parts Number	Description			
C1822	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1823	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1824	ECA1AM470GB	ELECT	10V	47µF	
C1825	ECQB1H563K	FILM	50V	56nF	
C1826	ECUV1H152KBX	S.M. CAP	50V	1.5pF	
C1827	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1828	ECA1HM010GB	ELECT	50V	1µF	
C1829	ECUV1C104KBX	S.M. CAP	16V	100nF	
C1840	ECUV1C104KBX	S.M. CAP	16V	100nF	
C1843	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1845	ECA1AM470GB	ELECT	10V	47µF	
C1846	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1861	ECUV1H561KBX	S.M. CAP	50V	560pF	
C1862	ECUV1H561KBX	S.M. CAP	50V	560pF	
C1865	ECA1CM470GB	ELECT	16V	47µF	
C1881	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1882	ECA1AM470GB	ELECT	10V	47µF	
C1887	ECA1HM101GB	ELECT	50V	100µF	
C1888	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1891	ECUV1H332KBX	S.M. CAP	50V	3.3nF	
C1892	ECUV1C104KBX	S.M. CAP	16V	100nF	
C1894	ECA1AM470GB	ELECT	10V	47µF	
C1895	ECA1AM470GB	ELECT	10V	47µF	
C1896	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C1897	ECA1AM330GB	ELECT	10V	33µF	
C1901	ECQM1H474J	FILM	50V	470nF	
C1902	ECQM1H474J	FILM	50V	470nF	
C1903	ECA1EM470GB	ELECT	25V	47µF	
C1904	ECKC1H103JB	CERAMIC	50V	10nF	
C2001	ECA1CM100GB	ELECT	16V	10µF	
C2002	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C2003	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C2004	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2005	ECUV1H391JCX	S.M. CAP	50V	390pF	
C2006	ECUV1H391JCX	S.M. CAP	50V	390pF	
C2007	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2008	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2009	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2010	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2011	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2012	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2014	ECQM1H334J	FILM	50V	330nF	
C2017	ECA1CM100GB	ELECT	16V	10µF	
C2018	ECA1CM100GB	ELECT	16V	10µF	
C2019	ECA1CM221GB	ELECT	16V	220µF	
C2020	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C2021	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C2022	ECA1HM3R3GB	ELECT	50V	3.3µF	
C2023	ECUV1H471JCX	S.M. CAP	50V	470pF	
C2024	ECUV1H471JCX	S.M. CAP	50V	470pF	
C2025	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2026	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2027	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2028	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2029	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2030	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2031	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C2032	ECA1CM100GB	ELECT	16V	10µF	
C2034	ECUV1H070DCX	S.M. CAP	50V	7pF	
C2035	ECUV1H560JCX	S.M. CAP	50V	56pF	
C2036	ECUV1H100DCX	S.M. CAP	50V	10pF	
C2037	ECUV1H220JCX	S.M. CAP	50V	22pF	
C2039	ECUV1H070DCX	S.M. CAP	50V	7pF	
C2040	ECUV1H560JCX	S.M. CAP	50V	56pF	
C2041	ECUV1H560JCX	S.M. CAP	50V	56pF	
C2042	ECUV1H104ZFX	S.M. CAP	50V	100nF	

Cct Ref	Parts Number	Description			
C2043	ECA1CM100GB	ELECT	16V	10µF	
C2044	ECUV1H010CCX	S.M. CAP	50V	1pF	
C2045	ECUV1H010CCX	S.M. CAP	50V	1pF	
C2050	ECJ2VF1H223Z	ELECT	350V	22nF	
C2051	ECJ2VF1H223Z	ELECT	350V	22nF	
C2052	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C2053	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C2054	ECA1CM331B	ELECT	16V	330µF	
C2055	ECA1CM331B	ELECT	16V	330µF	
C2058	ECUV1H683ZFX	S.M. CAP	50V	68nF	
C2059	ECUV1H102KBX	S.M. CAP	50V	1nF	
C2060	ECUV1H102KBX	S.M. CAP	50V	1nF	
C2301	ECQM1H474J	FILM	50V	470nF	
C2302	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C2303	ECUV1H101JCX	S.M. CAP	50V	100pF	
C2304	ECEA1HN010UB	ELECT	50V	1µF	
C2305	ECA1HM220GB	ELECT	50V	22µF	
C2306	ECJ2VF1H223Z	ELECT	350V	22nF	
C2307	ECJ2VF1H223Z	ELECT	350V	22nF	
C2308	ECA1HM010GB	ELECT	50V	1µF	
C2309	ECUV1H393KBX	S.M. CAP	50V	39nF	
C2310	ECUV1H393KBX	S.M. CAP	50V	39nF	
C2311	ECA1HM101GB	ELECT	50V	100µF	
C2312	ECUV1H393KBX	S.M. CAP	50V	39nF	
C2313	ECUV1H393KBX	S.M. CAP	50V	39nF	
C2314	ECA1HM100GB	ELECT	50V	10µF	
C2315	ECUV1H562KBX	S.M. CAP	50V	5.6nF	
C2316	ECA1HM010GB	ELECT	50V	1µF	
C2317	ECA1HM010GB	ELECT	50V	1µF	
C2318	ECUV1H050CCX	S.M. CAP	50V	50pF	
C2319	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C2320	ECUV1H102KBX	S.M. CAP	50V	1nF	
C2351	ECA1CM471GB	ELECT	16V	470µF	
C2352	ECA1CM471GB	ELECT	16V	470µF	
C2353	ECA1HM4R7GB	ELECT	50V	4.7µF	
C2354	ECKC1H103JB	CERAMIC	50V	10nF	
C2355	ECA1HMR33GB	ELECT	50V	10nF	
C2356	ECKC1H103JB	CERAMIC	50V	10nF	
C2360	ECKC1H103JB	CERAMIC	50V	10nF	
C2361	ECA1CM471GB	ELECT	16V	470µF	
C2362	ECA1CM471GB	ELECT	16V	470µF	
C2363	ECA1HM4R7GB	ELECT	50V	4.7µF	
C2364	ECKC1H103JB	CERAMIC	50V	10nF	
C2365	ECA1HMR33GB	ELECT	50V	10nF	
C2366	ECKC1H103JB	CERAMIC	50V	10nF	
C3001	ECKC1H561J	CERAMIC	50V	560pF	
C3002	ECKC1H561J	CERAMIC	50V	560pF	
C3005	ECCR1H151J	CERAMIC	50V	150pF	
C3101	ECEA1HN4R7UB	ELECT	50V	4.7µF	
C3102	ECA1HM470GB	ELECT	50V	47µF	
C3103	ECA1CM470GB	ELECT	16V	47µF	
C3106	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3107	ECA1HM470GB	ELECT	50V	47µF	
C3108	ECA1CM470GB	ELECT	16V	47µF	
C3110	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3111	ECUV1H102JCX	S.M. CAP	50V	1nF	
C3112	ECA1HM470GB	ELECT	50V	47µF	
C3113	ECA1HM470GB	ELECT	50V	47µF	
C3114	ECA1CM470GB	ELECT	16V	47µF	
C3115	ECEA1HNR47UB	ELECT	50V	47µF	
C3116	ECA1HM470GB	ELECT	50V	47µF	
C3117	ECEA1HN4R7UB	ELECT	50V	4.7µF	
C3118	ECEA1HN4R7UB	ELECT	50V	4.7µF	
C3119	ECA1HM470GB	ELECT	50V	47µF	
C3120	ECA1CM470GB	ELECT	16V	47µF	
C3122	ECUV1H561JCX	S.M. CAP	50V	560pF	

Cct Ref	Parts Number	Description			
C3123	ECEA1HN4R7UB	ELECT	50V	4.7μF	
C3125	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3126	ECEA1HN4R7UB	ELECT	50V	4.7μF	
C3127	ECEA1HN4R7UB	ELECT	50V	4.7μF	
C3128	ECEA1HN4R7UB	ELECT	50V	4.7μF	
C3129	ECUV1H102JCX	S.M. CAP	50V	1nF	
C3130	ECEA1HN4R7UB	ELECT	50V	4.7μF	
C3131	ECUV1H473KBX	S.M. CAP	50V	47nF	
C3132	ECA1CM470GB	ELECT	16V	47μF	
C3133	ECA1CM470GB	ELECT	16V	47μF	
C3134	ECA1CM470GB	ELECT	16V	47μF	
C3135	ECA1HMR47GB	ELECT	50V	47μF	
C3136	ECA1CM470GB	ELECT	16V	47μF	
C3137	ECA1HM470GB	ELECT	50V	47μF	
C3138	ECA1HM470GB	ELECT	50V	47μF	
C3139	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3140	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3144	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3145	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3147	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3148	ECA1HM4R7GB	ELECT	50V	4.7μF	
C3150	ECA1HM4R7GB	ELECT	50V	4.7μF	
C3152	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3153	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C3154	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C3155	ECA1CM470GB	ELECT	16V	47μF	
C3156	ECA1CM470GB	ELECT	16V	47μF	
C3158	ECUV1H102JCX	S.M. CAP	50V	1nF	
C3159	ECUV1H121JCX	S.M. CAP	50V	120pF	
C3160	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C3162	ECA1CM471GB	ELECT	16V	470μF	
C3163	ECA1HMR47GB	ELECT	50V	470μF	
C3164	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C3165	ECA1HM470GB	ELECT	50V	47μF	
C3167	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3168	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3169	ECUV1H102JCX	S.M. CAP	50V	1nF	
C3173	ECA1HMR47GB	ELECT	50V	1nF	
C3175	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3177	ECUV1H561JCX	S.M. CAP	50V	560pF	
C3180	ECA1HMR47GB	ELECT	50V	560pF	
C3182	ECUV1H102JCX	S.M. CAP	50V	1nF	
C3184	ECUV1H473KBX	S.M. CAP	50V	47nF	
C3186	ECEA1HNR47UB	ELECT	50V	47nF	
C3187	ECA1HM470GB	ELECT	50V	47μF	
C3188	ECEA1CN470	ELECT	16V	47μF	
C3189	ECEA1CN470	ELECT	16V	47μF	
C3190	ECA1HMR47GB	ELECT	50V	47μF	
C3191	ECA1HM470GB	ELECT	50V	47μF	
C3192	ECUV1H473KBX	S.M. CAP	50V	47nF	
C3193	ECUV1H473KBX	S.M. CAP	50V	47nF	
C3194	ECA1HM470GB	ELECT	50V	47μF	
C3195	ECUV1H391JCX	S.M. CAP	50V	390pF	
C3196	ECEA1CN330	ELECT	16V	33μF	
C3201	ECA1HM010GB	ELECT	50V	1μF	
C3202	ECUV1H473ZFX	S.M. CAP	50V	47nF	
C3203	ECA1CM100GB	ELECT	16V	10μF	
C3204	ECUV1H473ZFX	S.M. CAP	50V	47nF	
C3351	ECA1HM101GB	ELECT	50V	100μF	
C3501	ECUV1H220JCX	S.M. CAP	50V	22pF	
C3502	ECUV1H220JCX	S.M. CAP	50V	22pF	
C3503	ECEA1HKN010	ELECT	50V	1μF	
C3504	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C3510	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C3511	ECA1HM101GB	ELECT	50V	100μF	
C3512	ECUV1H104ZFX	S.M. CAP	50V	100nF	

Cct Ref	Parts Number	Description			
C3514	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C3515	ECA0JM331GB	ELECT	6.3V	330μF	
C3516	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C3521	ECA1HM101GB	ELECT	50V	100μF	
C3522	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C3801	ECA1HM010GB	ELECT	50V	1μF	
C3802	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C3803	ECA1CM471GB	ELECT	16V	470μF	
C3807	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C3808	ECUV1H104ZFX	S.M. CAP	50V	100nF	
C3809	ECA0JM101G	ELECT	6.3V	100μF	
C3810	ECUV1H103KBX	S.M. CAP	50V	10nF	
C3812	ECA1CM221GB	ELECT	16V	220μF	
<b>TERMINALS AND LINKS</b>					
JK3102	1364-21-21	SCART SOCKET			
JK3101	1364-21-21	SCART SOCKET			
JK3104	1364-21-21	SCART SOCKET			
JK3001	TJB16656	A.V. TERMINAL			
<b>SWITCHES</b>					
S801	ESB91232A	SWITCH			
S1051	EVQ23405R	SWITCH			
S1052	EVQ23405R	SWITCH			
S1053	EVQ23405R	SWITCH			
S1054	EVQ23405R	SWITCH			
S1055	EVQ23405R	SWITCH			

## NOTES

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


# SCHEMATIC DIAGRAMS FOR MODEL TX-W32D20 (Euro-3HW 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

- RESISTOR**  
All resistors are carbon 1/4W resistor, unless marked as follows:  
Unit of resistance is OHM ( $\Omega$ ) (K=1,000, M=1,000,000).
- CAPACITORS**  
All capacitors are ceramic 50V, unless marked as follows:  
Unit of capacitance is  $\mu$ F, unless otherwise stated.
- COIL**  
Unit of inductance is  $\mu$ H, unless otherwise stated.
- Components marked 'L' on the schematic diagram shows leadless parts.
- TEST POINT**  
 Test Point Position
- EARTH SYMBOL**  
 Chassis Earth Cold      Line Earth Hot
- 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
-  Indicates the video signal path  
 Indicates the Audio signal path
- These schematic diagrams are the latest at the time of printing and are subject to change without notice.

### Remarks


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

### Precautions






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

# ZEICHENERKLÄRUNG FÜR MODELL TX-W32D20 (Euro-3HW 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

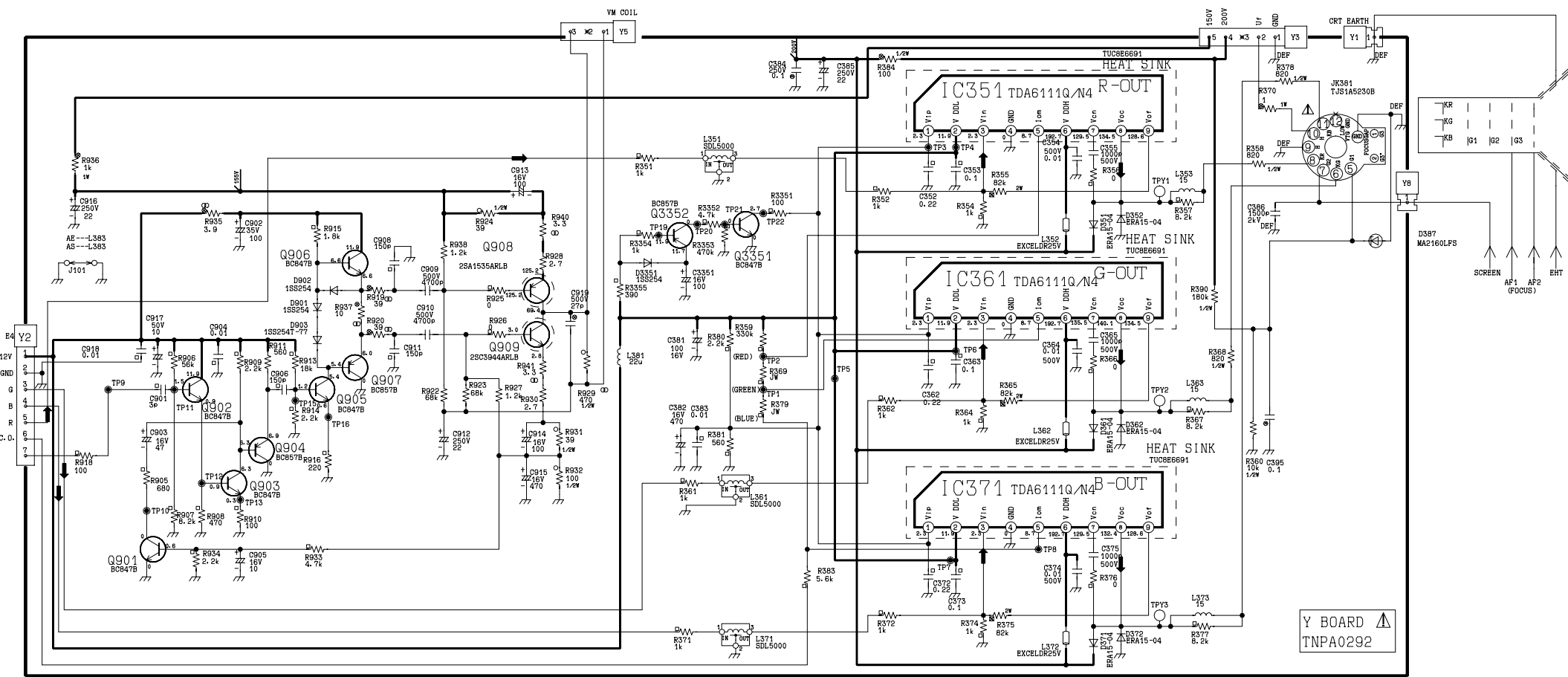
- WIDERSTÄNDE**  
Alle 1/4Watt Widerstände sind Kohlewiderstände, Abweichungen sind folgt gekennzeichnet.  
Die Maßeinheit ist OHM ( $\Omega$ ) (k=1,000 M=1,000,000)
- KONDENSATOREN**  
Alle Kondensatoren sind Keramikausführungen Spannungsfestigkeit 50V. Abweichungen sind wie folgt gekennzeichnet.  
Die Maßeinheit ist  $\mu$ F, wenne keine andersen Bezeichnungen genannt sind.
- SPULEN**  
Die Maßeinheit ist  $\mu$ H, Abweichungen sind gekennzeichnet.  
Mit 'L' gekennzeichnete Teile sind ohne Anschlußdrähte.
- TESTPUNKE**  
 Kennzeichnung der Testpunktposition
- MASSE SYMBOL**  
 Erdung am Chassis      Erdung an Masse-Leitung
- SPANNUNGSMESSUNG**  
Spannungsmessungen sind mit einem DC-Voltmeter durchzuführen. Die Meßbedingungen sind folgende:  
Netzspannung                      AC 220V-240V 50Hz  
Wiedregabe Signal                  Farbbalken-Testbild  
Alle übrigen Einstellungen für Benutzer Sollangaben
-  Videosignalweg  
 Audiosignalweg
- Anderungen im Laufe der Fertigung sind möglich.

### Bemerkungen

- 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:

- Weder die Leitungen im heißen noch Leitungen im kalten und im kalten Bereich gleichzeitig berühren. Es besteht die Gefahr eines elektrischen Schlages.
- Keinesfalls die Leitungen im heißen 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.
- 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.
- Vor Ausbau des Chassis, Stecker aus der Netzsteckdose ziehen.

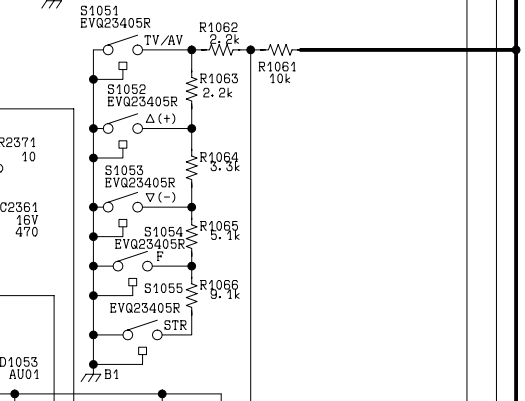
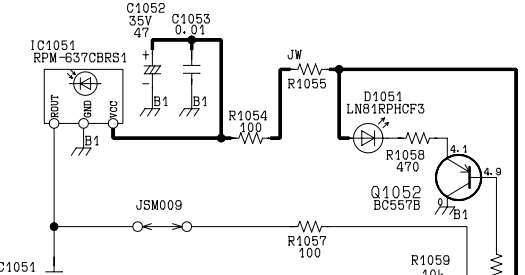
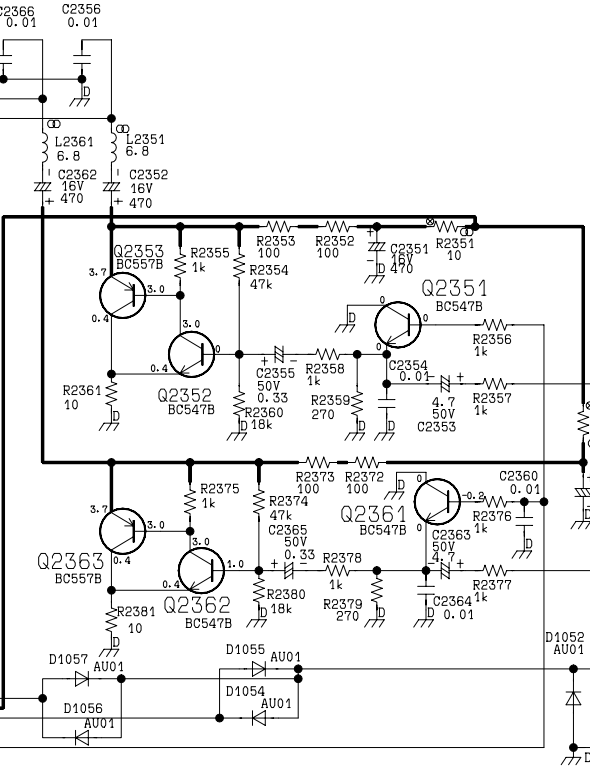
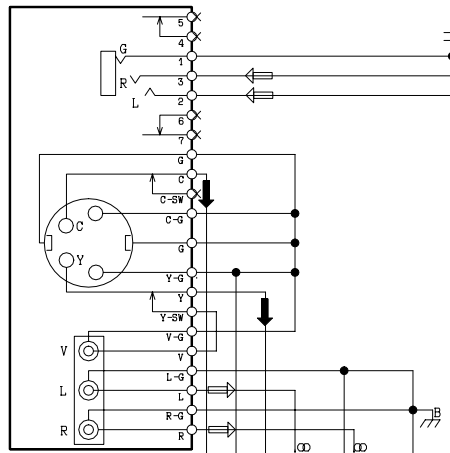
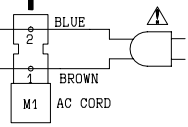
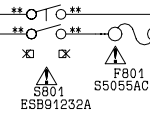
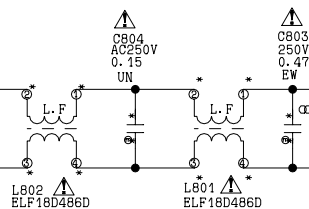
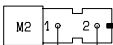


Y BOARD  
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M BOARD  
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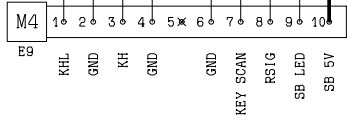
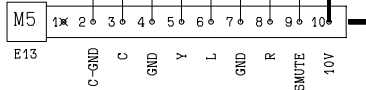
COLD

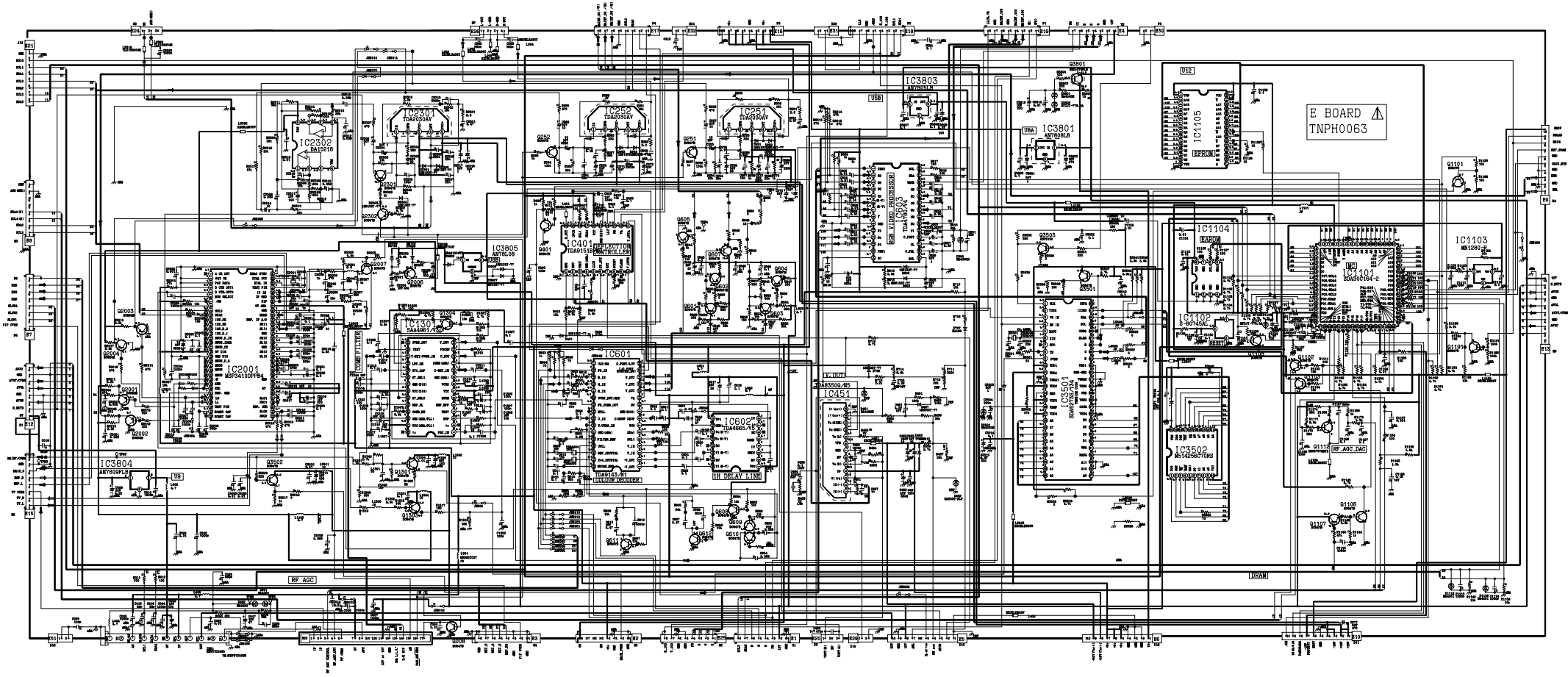
HOT



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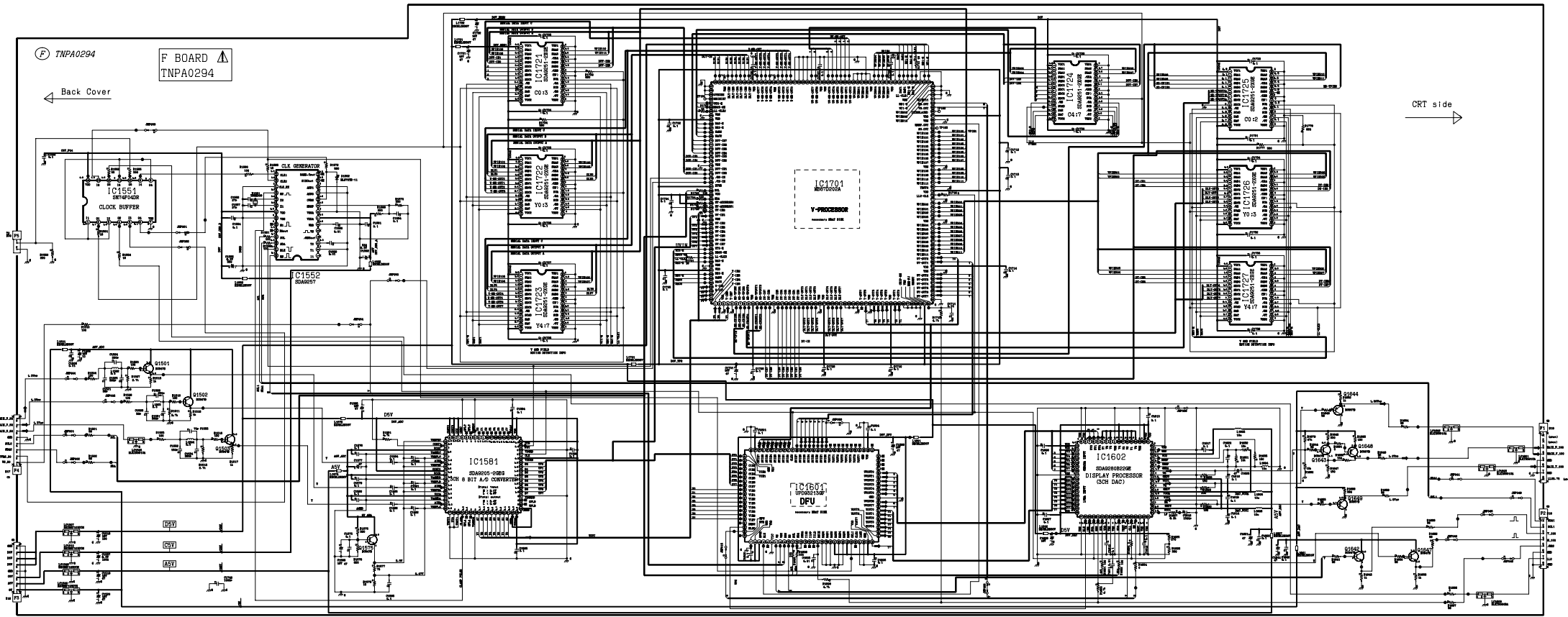


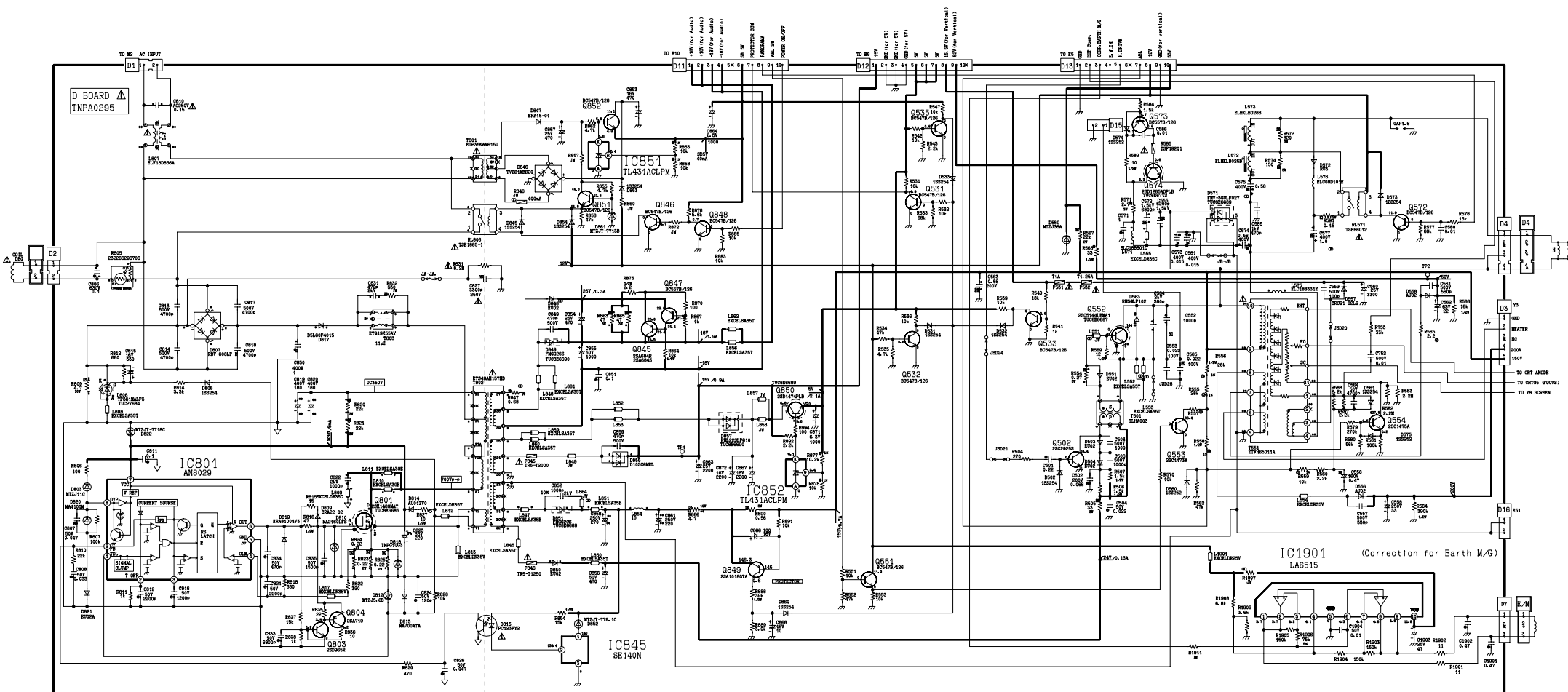
Ⓟ TNPA0294

F BOARD ▲  
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← Back Cover

→ CRT side





D BOARD  
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TL431ACLPM

IC852  
TL431ACLPM

IC801  
AN9029

IC845  
SE140N

IC1901  
LA6515

(Correction for Earth M/G)

TO CRT ANODE  
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TO WATER  
TO GND  
TO GND  
TO VS SOURCE

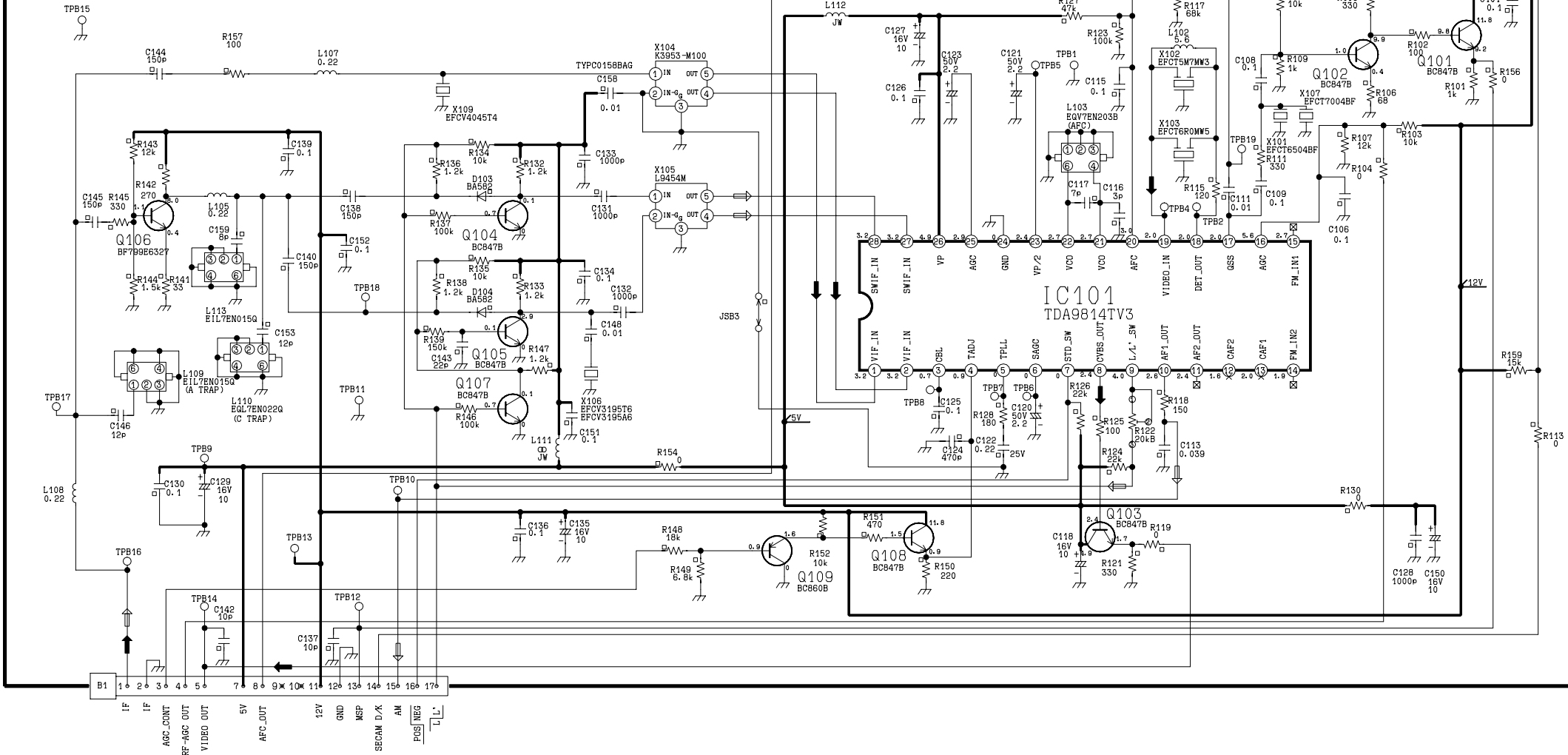
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B BOARD  
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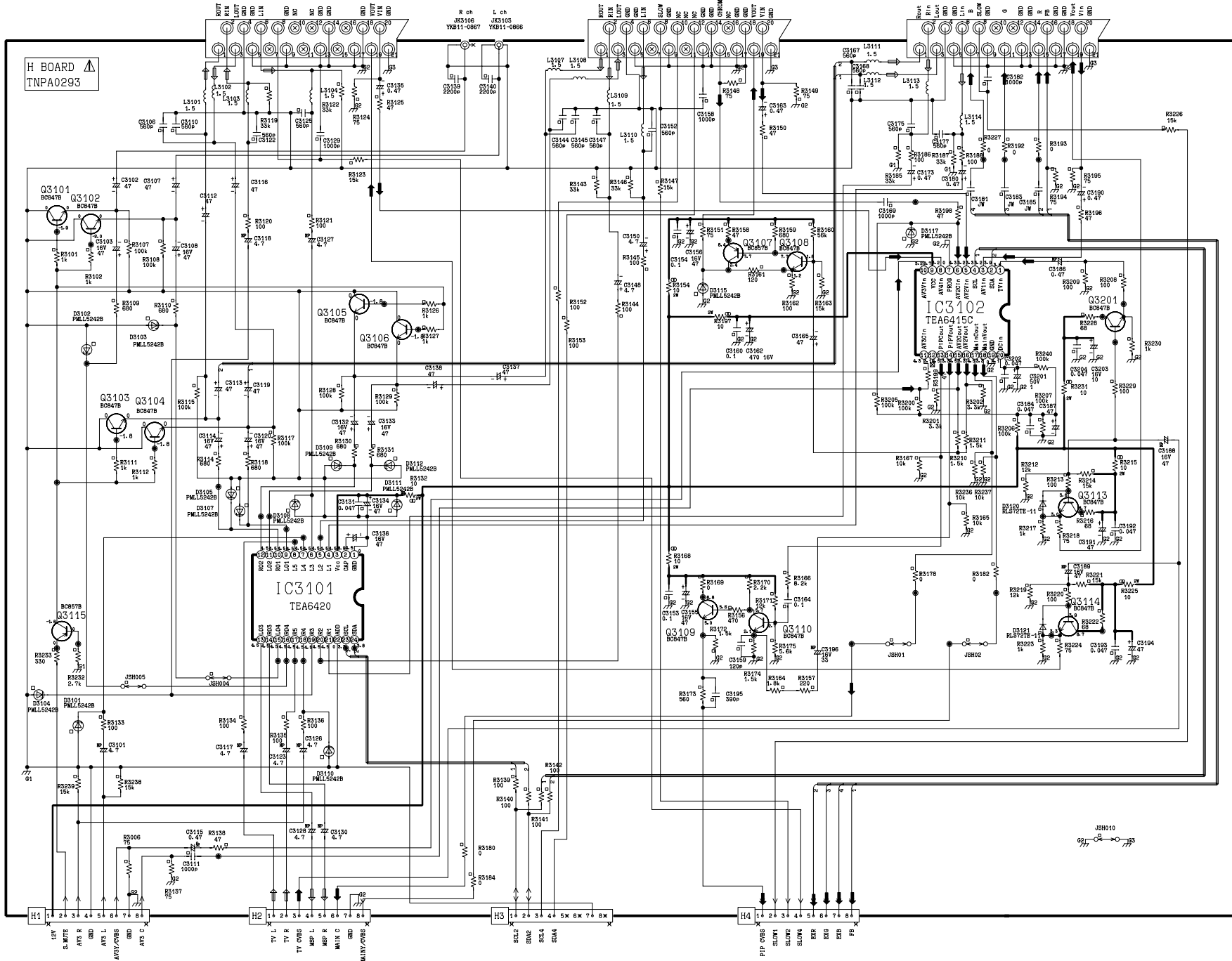
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- 5V
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- SECAM D/K
- AM
- POS/NEG
- L

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AV2 JK3102

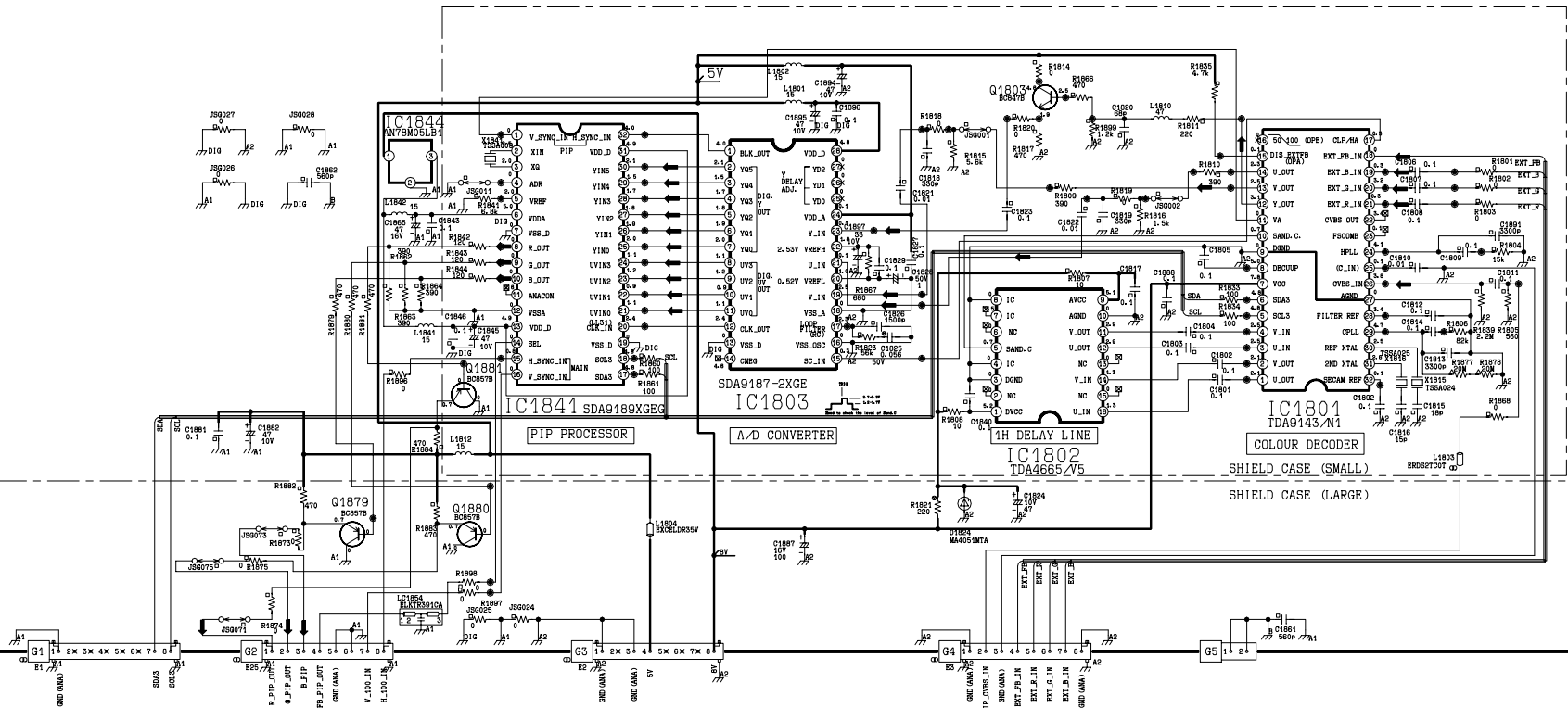
AV1 JK3101

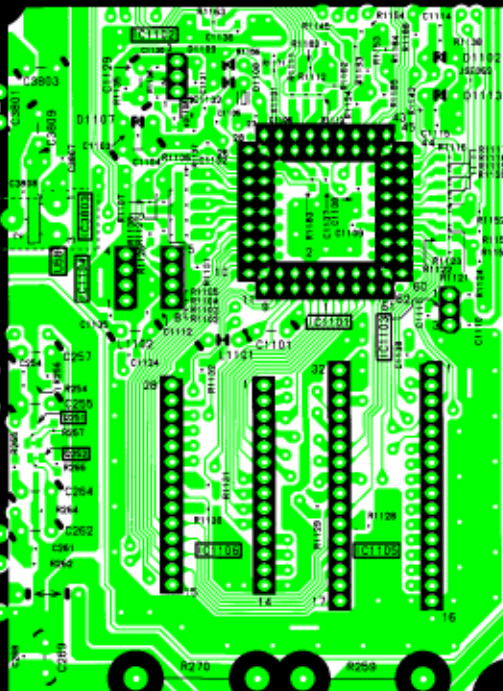
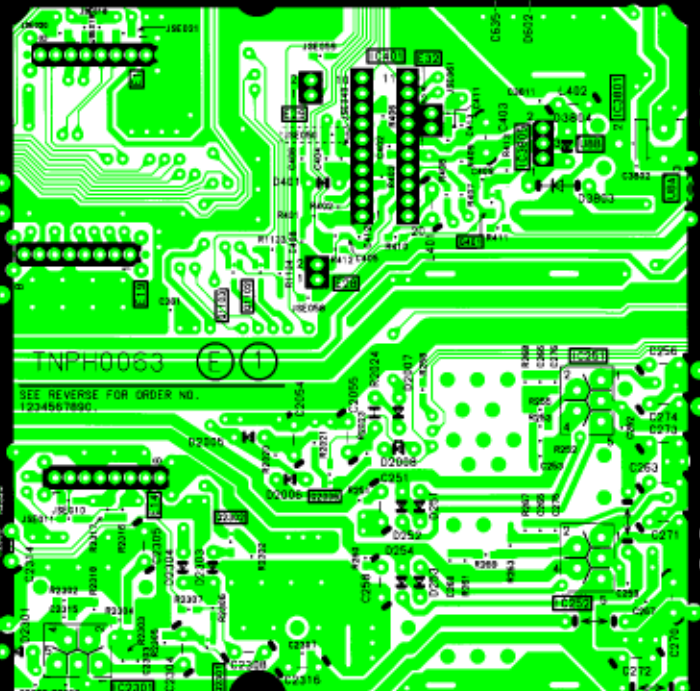
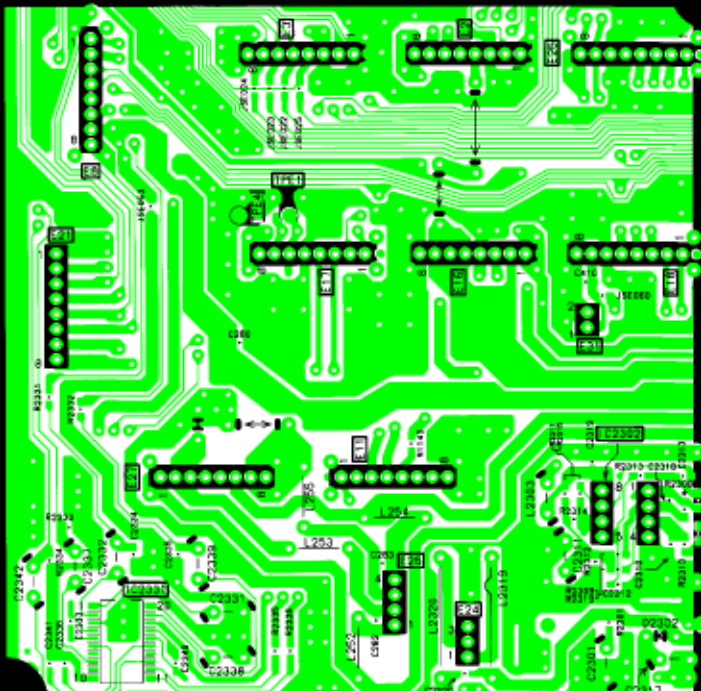
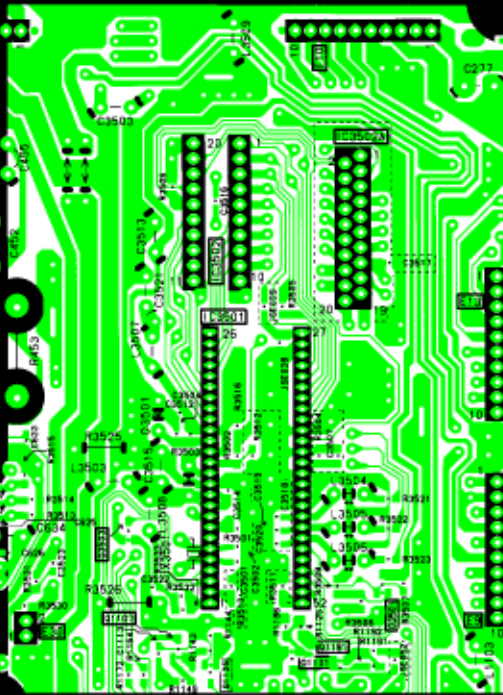
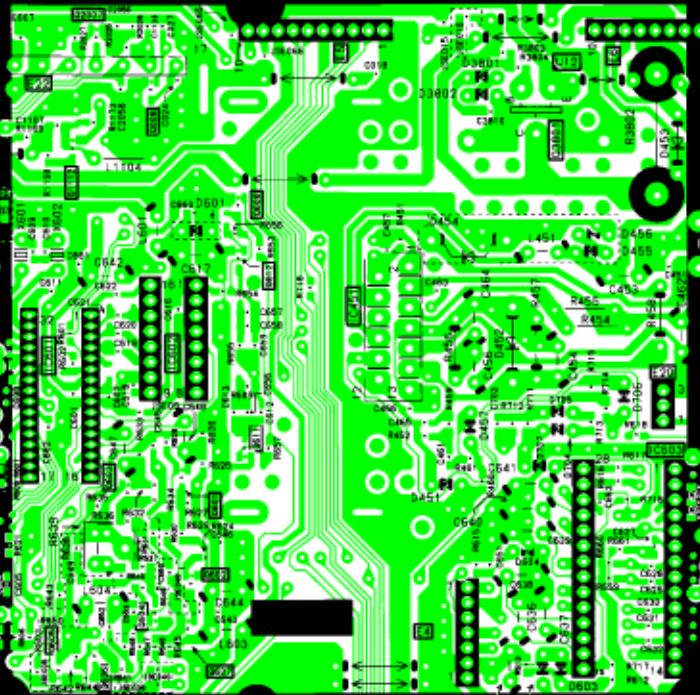
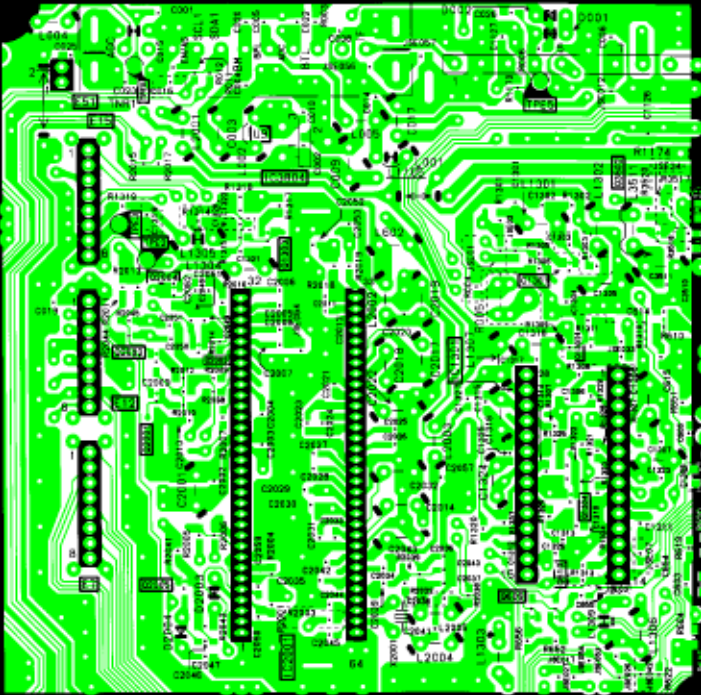
H BOARD  
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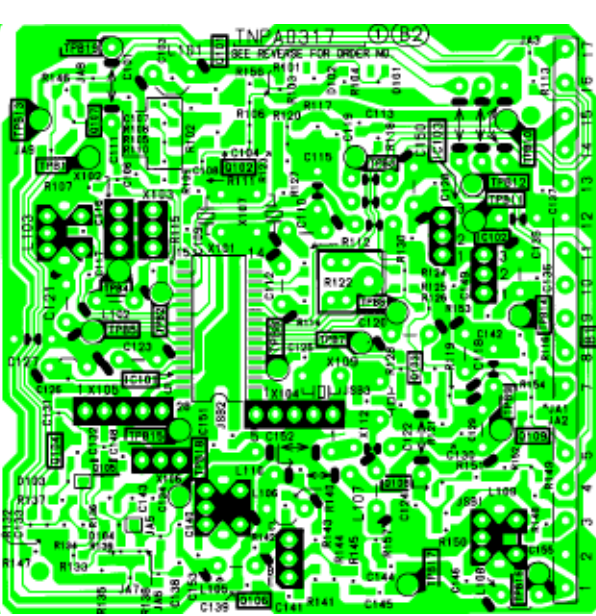


G BOARD  
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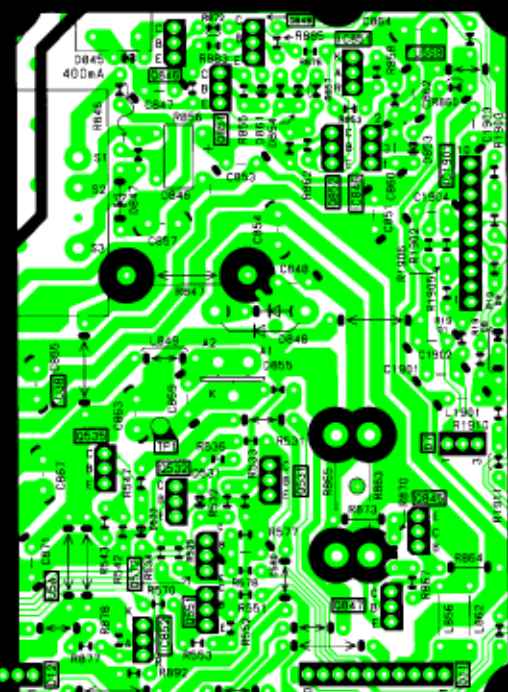
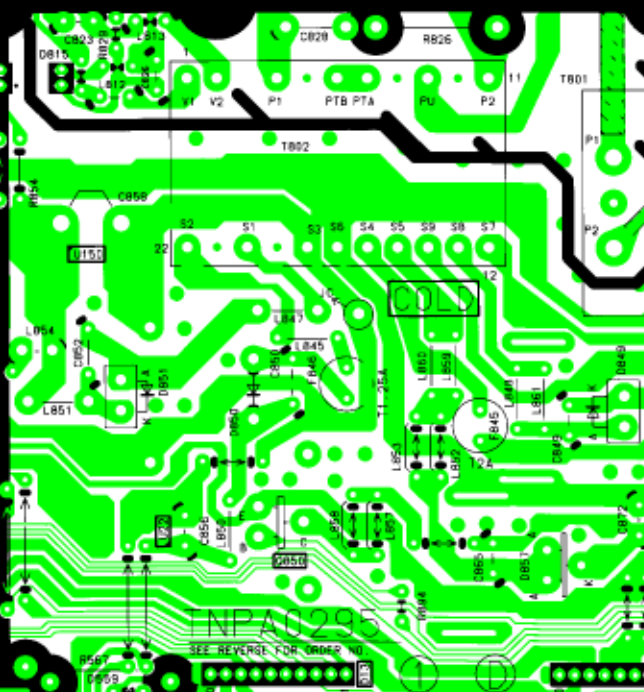
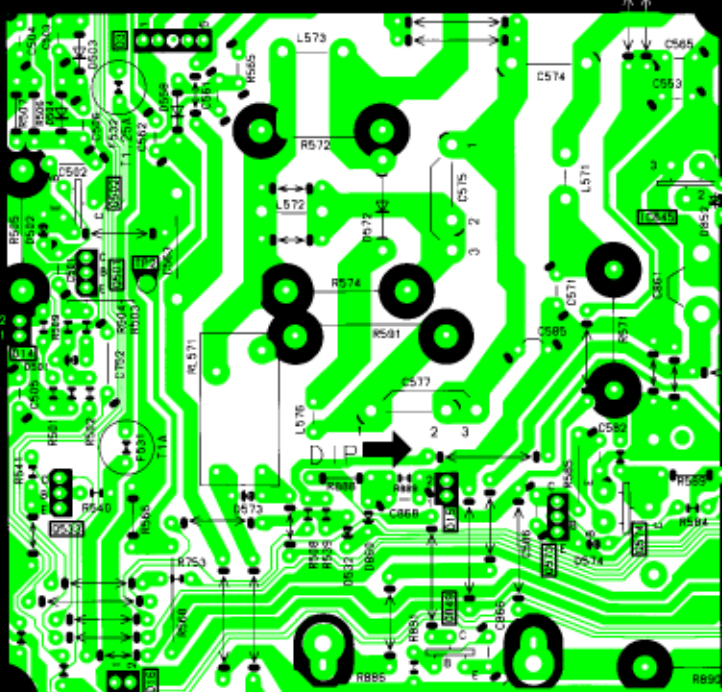
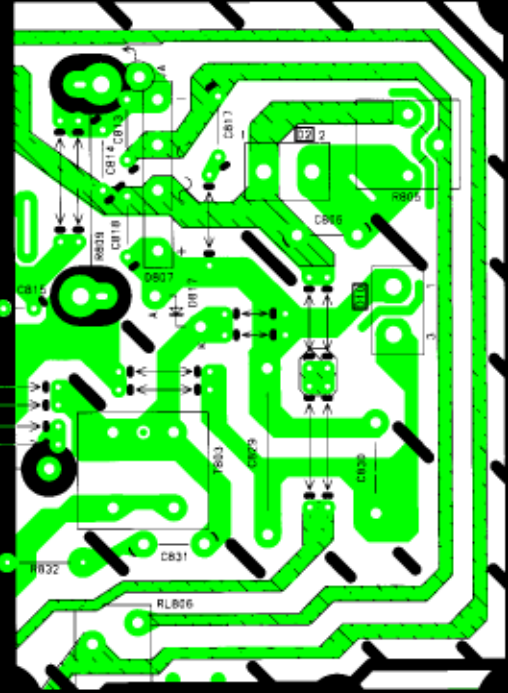
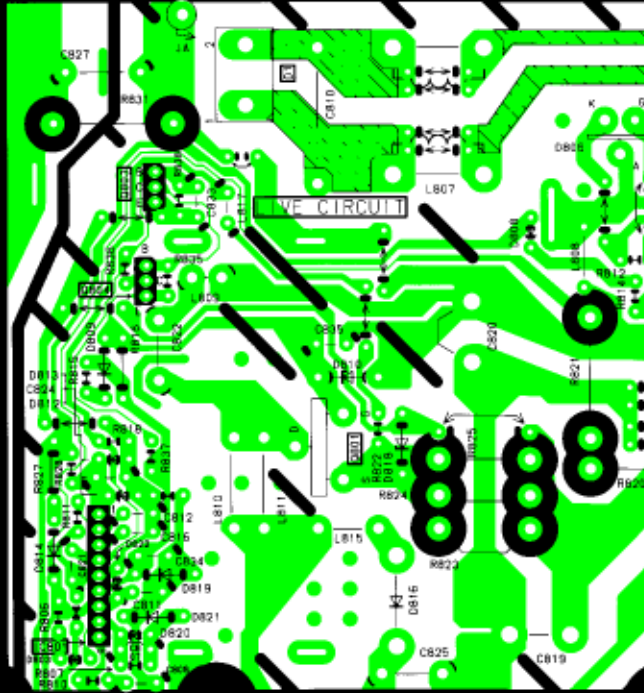
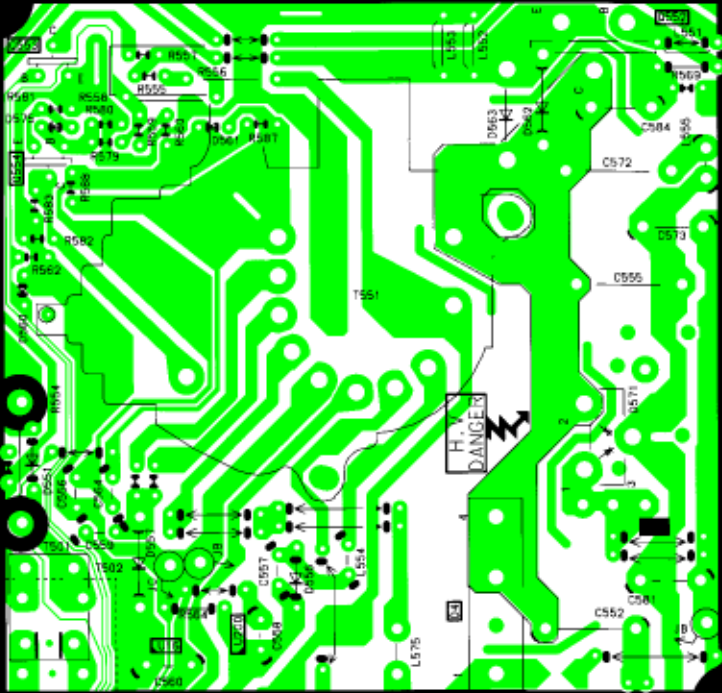




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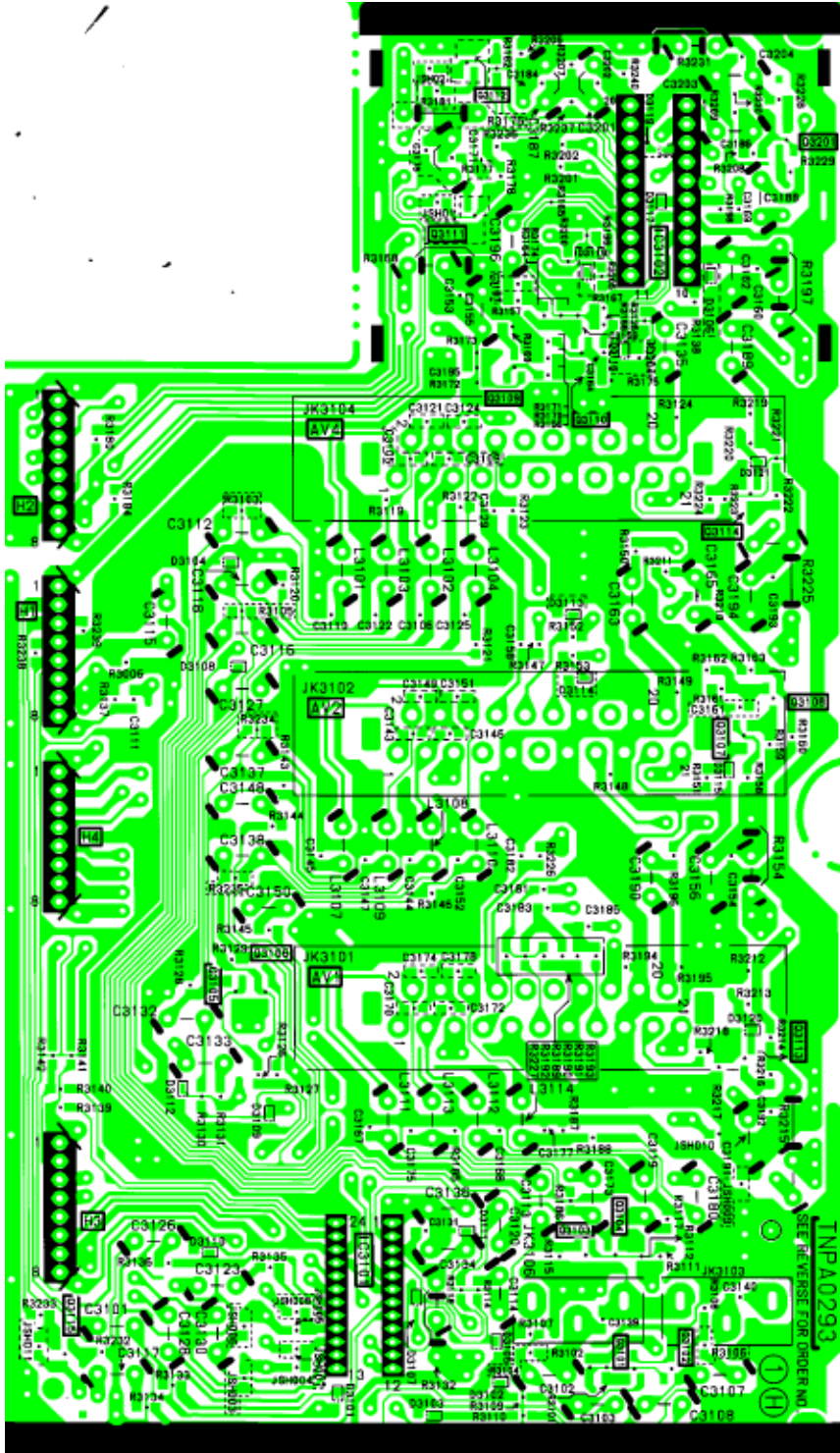












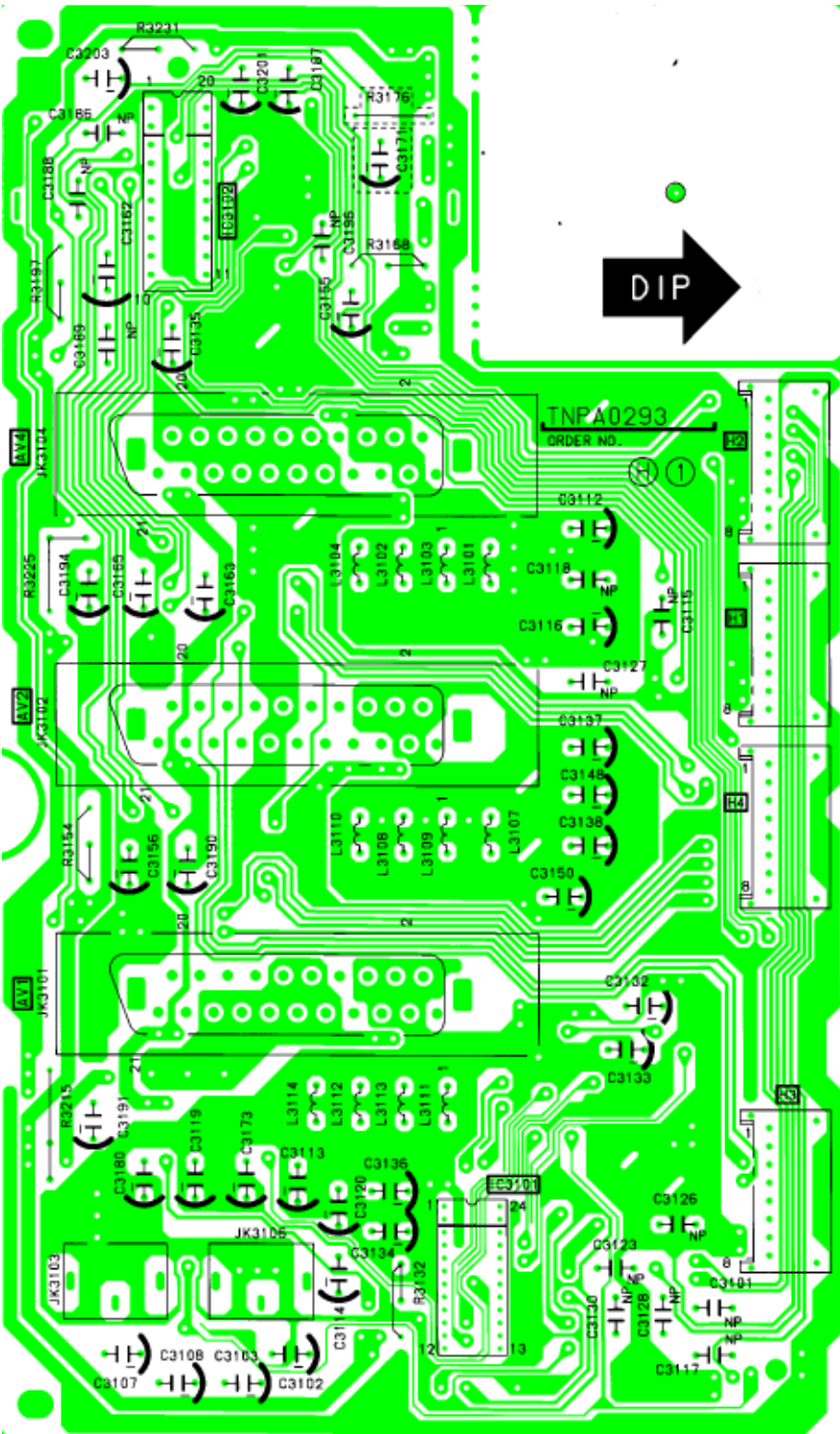
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AV4

AV2

AV1