

Service Manual

Colour Television EURO 2 Chassis

TX-28XDP1C

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Service Manual

Colour Television

TX-28XDP1C

EURO-2 Chassis

Specifications

Power Source :	220 — 240 V AC, 50Hz
Power Consumption :	112W
Aerial Impedance :	75Ω unbalanced, Coaxial Type
Receiving System :	PAL B/G, D/K PAL — 60 SECAM B/G, D/K
Receiving Channels :	VHF E2 — E12 VHF A — H (ITALY) VHF R1 — R2 VHF R6 — R12 CATV (S01 — S05) CATV S11 — S20 (U1 — U10)
Intermediate Frequency :	Video 38.9MHz Sound 33.4MHz, 33.16MHz, 32.4MHz Colour 34.65MHz, 34.47MHz, 34.5MHz
Video / Audio Terminals :	
AV1 IN	Video (21 pin) 1V p—p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin)
AV1 OUT	Video (21 pin) 1V p—p 75Ω Audio (21 pin) 500mV rms 1kΩ
AV2 IN	Video (21 pin) 1V p—p 75Ω Audio (21 pin) 500mV rms 10 kΩ S—Video IN Y : 1V p—p 75Ω (21 pin) C : 0.3V p—p 75Ω
AV2 OUT	Video (21 pin) 1V p—p 75Ω Audio (21 pin) 500mV rms 1kΩ Selectable output (21 pin)
AV3 IN	Audio (RCA x 2) 500mV rms 10kΩ Video (RCA x 1) 1V p—p 75Ω
High Voltage :	29 kV ± 1kV at zero beam current
Picture Tube :	A66EAK252X21 70 cm
Visible screen size:	110° deflection
Audio Output :	
Internal Speaker	2 x 20 W (Music Power) 8 Ω Impedance
External Speaker	2 x 10W (Front) (Music Power) 2 x 15W (Rear) (Music Power) 2 x 15W (Centre) (Music Power) 8 Ω Impedance
Headphones	8 Ω Impedance
Accessories supplied :	Remote Control R6 (UM3) Battery External speakers (TS-100DP)
Dimensions :	Height : 562mm Width : 771mm Depth : 482mm
Net Weight	34kg
Specifications are subject to change without notice. Weight and dimensions shown are approximate.	

Technische Daten

Netzspannung :	220 — 240 V AC, 50Hz
Leistungsaufnahme :	112W
Antennenimpedanz :	75Ω asymmetrisch, Koaxial— Typ
Empfangssystem :	PAL B/G, D/K PAL — 60 SECAM B/G, D/K
Empfangsbereiche :	VHF E2 — E2 VHF H1 — H2 (ITALY) VHF R1 — R2 VHF R6 — R12 CATV (S01 — S05) CATV S11 — S20 (U1 — U10)
Zwischenfrequenz :	Video 38.9MHz Sound 33.4MHz, 33.16MHz, 32.4MHz Colour 34.65MHz, 34.47MHz, 34.5MHz
Video / Audio Anschlüsse :	
AV1 EINGANG	Video (21 pin) 1V p—p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin)
AV1 AUSGANG	Video (21 pin) 1V p—p 75Ω Audio (21 pin) 500mV rms 1kΩ
AV2 EINGANG	Video (21 pin) 1V p—p 75Ω Audio (21 pin) 500mV rms 10 kΩ S—Video IN Y : 1V p—p 75Ω (21 pin) C : 0.3V p—p 75Ω
AV2 AUSGANG	Video (21 pin) 1V p—p 75Ω Audio (21 pin) 500mV rms 1kΩ Selectable output (21 pin)
AV3 EINGANG	Audio (RCA x 2) 500mV rms 10kΩ Video (RCA x 1) 1V p—p 75Ω
Hochspannung :	29 kV ± 1kV bei Nullstrahlstrom
Bildrohre :	A66EAK252X21 70 cm
Visuelle Diagonale :	110° Ablenkung
Ton Ausgangsleistung :	
Einbaulautsprecher	2 x 20W (Musikleistung) 8 Ω Impedanz
Zusatz—Lautsprecherboxen	2 x 10W (Vorn) (Musikleistung) 2 x 15W (Hinten) (Musikleistung) 2 x 15W (Mitte) (Musikleistung) 8 Ω Impedance
Kopfhörer	8 Ω Impedanz
Mitgel. Zubehör	Fernbedienung R6 (UM3) Batterien Zusatz—Lautsprecherboxen (TS-100DP)
Abmessungen :	Höhe : 562mm Breite : 771mm Tiefe : 482mm
Gewicht	34kg
Änderungen der technischen Daten vorbehalten. Gewichte und Abmessungen sind Näherungsangaben.	

Panasonic

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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 30kV 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 30kV 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 2k Ω 10W resistor in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed Metallic part and check the voltage at each point.
5. Reverse the AC plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

HOT CHECK CIRCUIT

SCHALTUNGSAUFBAU FÜR PRÜFUNG IM EINGESCHALTETEN ZUSTAND

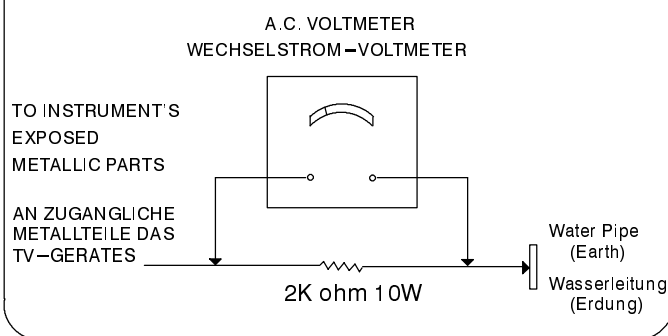


Fig.1
Abb.1

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 30kV 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 29kV $\pm$ 1kV if the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

MESSUNG DES KRIECHSTROMS IM EINGESCHALTETEN ZUSTAND

1. Den Netzstecker direkt in eine Netsteckdose stecken. Für diese Messung keinen Trenntransformator verwenden.
2. Einen 2k 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 :

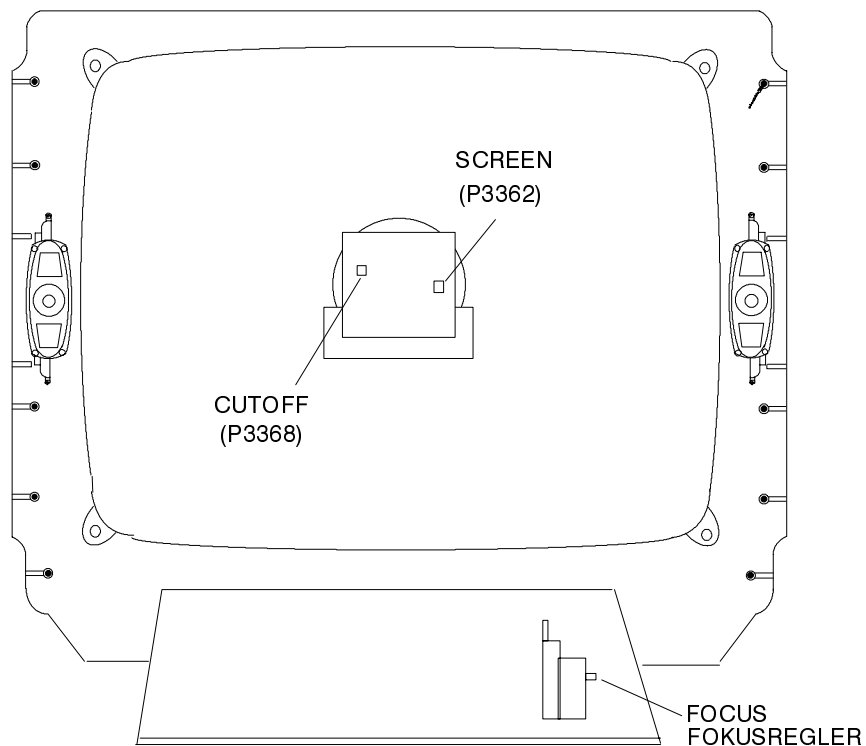
1. Potentielle Quellen von Röntgenstrahlung in Fernsehgeräten sind das Hochspannungsteil und die Bildröhre.
2. Bei Verwendung eines Bildröhren-Prüfgerätes für den Service ist sicherzustellen, daß es für die Belastung von 30kV geeignet ist, ohne daß eine Röntgenstrahlung verursacht wird.

ANMERKUNG : Es ist wichtig, daß ein präzises, regelmäßig geprüfetes Voltmeter verwendet wird.

1. Helligkeit auf Minimum stellen.
2. Die Hochspannung messen. Die Anzeige des Instrumentes sollte 29kV $\pm$ 1 kV 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

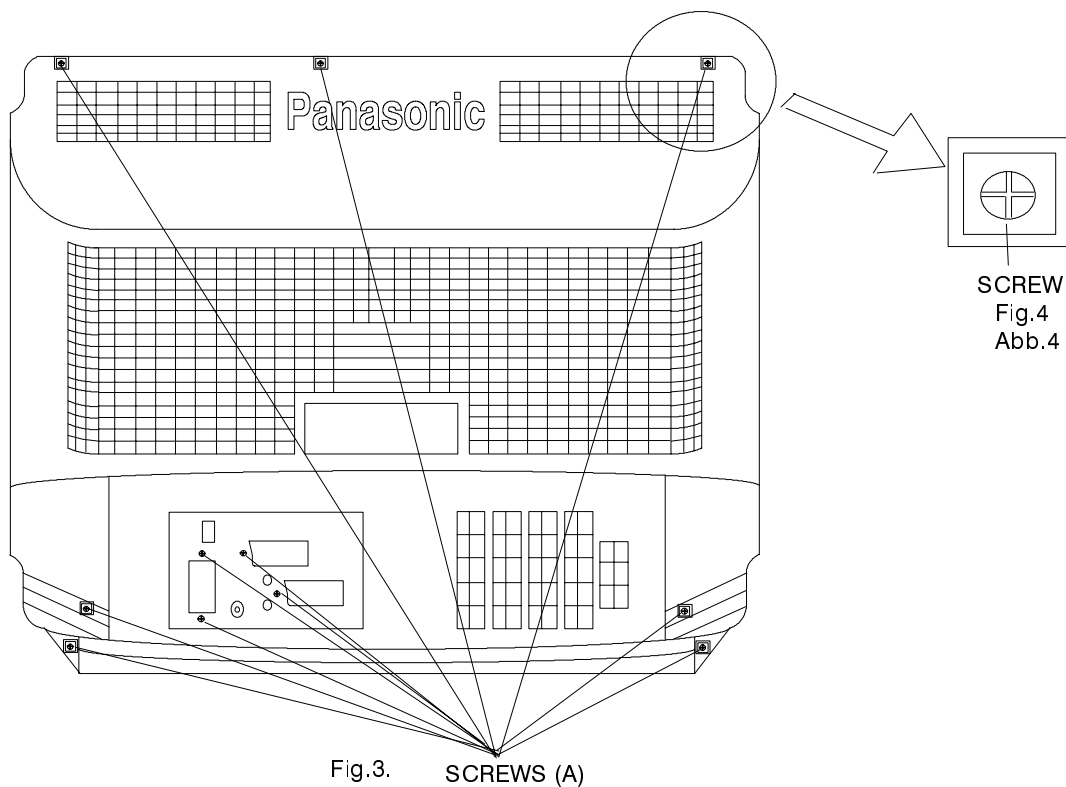
How to remove the rear cover

1. Remove the 11 screws (A) as shown in Fig.3/Fig.4.

SERVICE HINWEISE

Entfernen Der Geräterückwand

1. Die 11 Schrauben (A) entfernen, siehe Abb.3/Abb.4.



HOW TO REMOVE THE CONTROL PANEL (M BOARD)

1. Hold and lift the rear of the E-PCB chassis and gently pull toward you with the M-board attached.
2. Unclip by lifting the front of the M-board vertically.
3. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

AUS- UND EINBAU DES BEDIENFELDES UND DER LEITERPLATTE M

1. Ziehen Sie die Leiterplatte E zusammen mit der Leiterplatte M nach hinten aus dem Gehäuse.
2. Die Leiterplatte M kann vom Hauptchassisrahmen durch leichtes Anheben gelöst werden.
3. Nach erfolgter Reparatur/Einstellung müssen sämtliche Kabel wieder in ihre ursprüngliche Lage gebracht werden, bevor das FS-Gerät an den Kunden übergeben wird

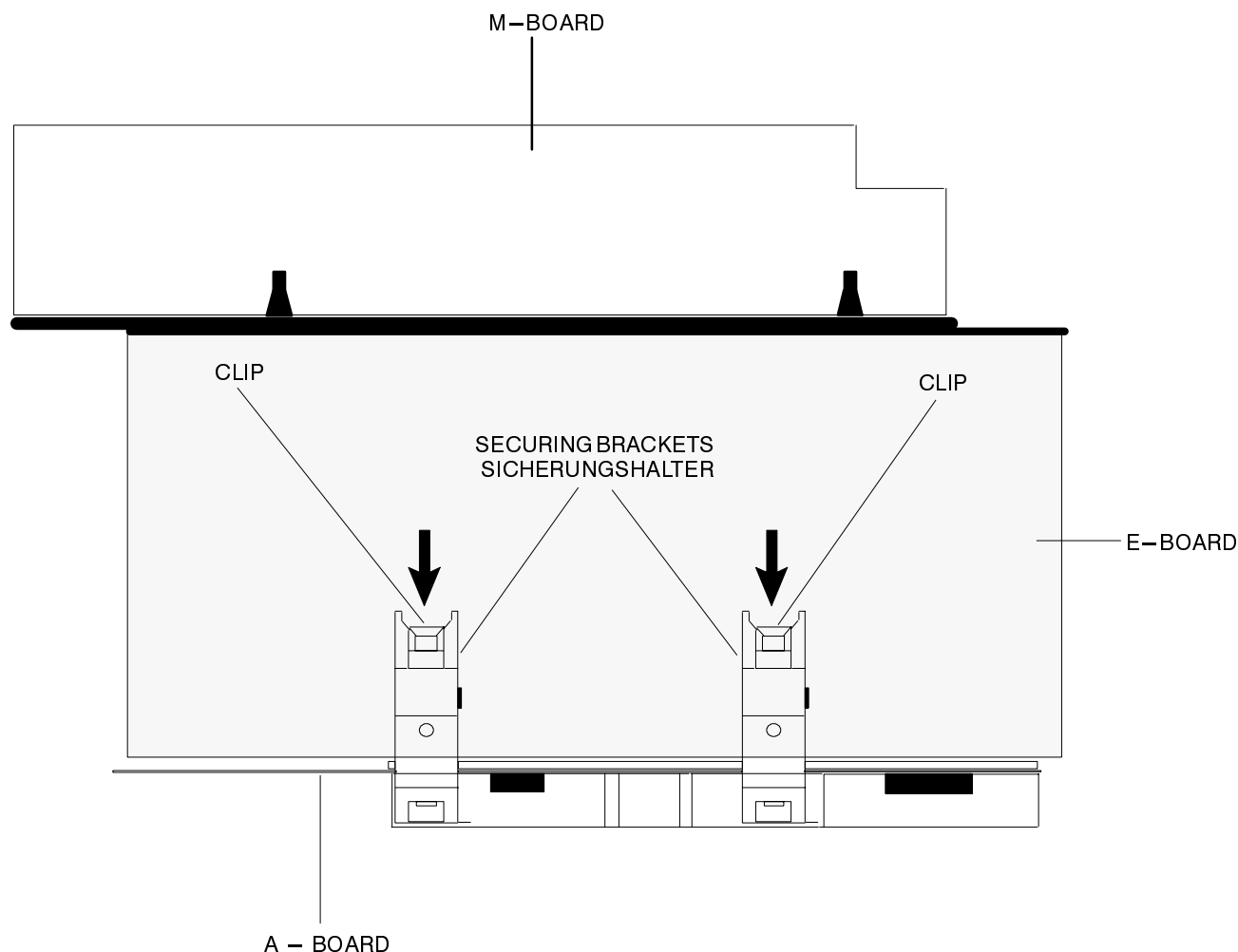


Fig.5
Abb.5

HOW TO REMOVE THE A - BOARD

1. Disconnect the 4 leads from the A - board.
2. Remove the A - board by gently lifting vertically.
3. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

AUSBAU DER LEITERPLATTE A

1. Lösen Sie die 4 Kabel vom A-Bord.
2. Danach lösen Sie jetzt die A-Bord Sicherungshalter indem Sie die Clips zu sich drücken und die Halter nach oben abziehen. Das A-bord vorsichtig aus den 3 Steckerleisten vertikal herausziehen.
3. Nach Beendigung der Reparatur versichern Sie sich bitte, ob alle Kabel wieder in der richtigen Position sind.

SERVICE POSITION FOR THE A-BOARD

1. Remove the A-board from the main chassis (E-board)
2. Carefully unclip the three metal clips marked B in Fig.6.
3. Unclip the front metal cover (fig.7) and remove from the A-board.
4. Fit the 3 extension leads to the A-board making sure that the A-board does not touch the E-board (fig.9).

5. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

Note : The extension lead wire kit is supplied as a service kit. (Part number TZS4EP001).

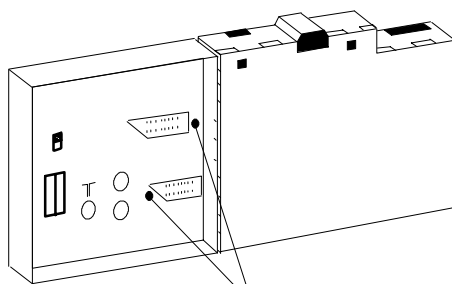


Fig. 6.
Abb.6.

SCREWS A

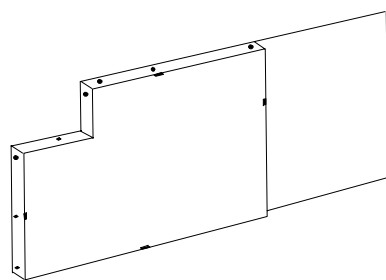


Fig. 8.
Abb.8.

REPARATURSTELLUNG FÜR LEITERPLATTE A

1. Die Leiterplatte A vom Hauptchassis (Leiterplatte E) abnehmen; vorher müssen alle Anschlusskabel abgezogen werden.
2. Die 3 kleinen Metallwinkel B (Abb.6, Pos.B) anheben und die vordere Metallabdeckung entfernen (Abb.7).
3. Um die Reparatur zu erleichtern, die hintere Metallabdeckung entfernen.
4. Die 3 Verlängerungskabel an die Leiterplatte A anschliessen; darauf achten, daß die Leiterplatte A die Platine E nicht berührt (Abb.9).
5. Nach erfolgter Reparatur müssen sämtliche Leitungen wieder in ihre ursprüngliche Lage gebracht werden, bevor das FS-Gerät an den Kunden übergeben wird.

Hinweis : Die Verlängerungskabel werden als Reparatur-Teilesatz unter der Bestell-Nr TZS4EP001 geliefert

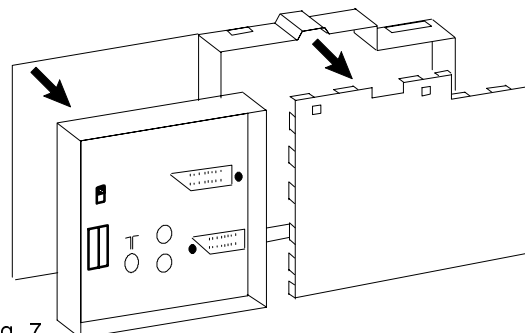


Fig. 7.
Abb.7.

E - BOARD

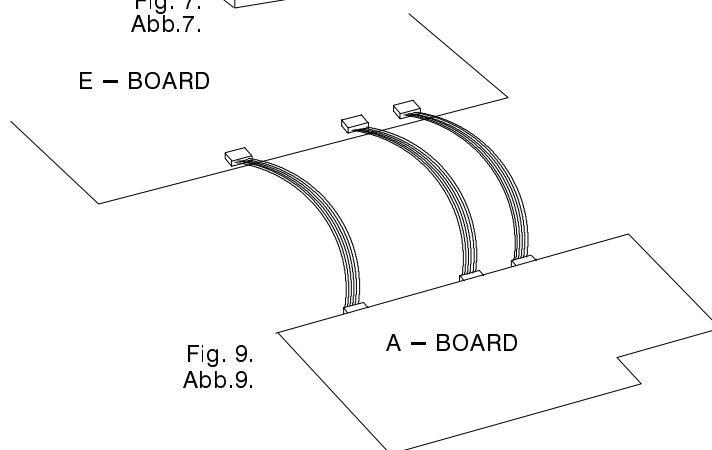


Fig. 9.
Abb.9.

A - BOARD

SERVICE POSITION FOR THE K-BOARD

Side View
Seitenansicht

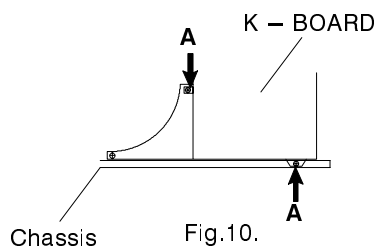


Fig. 10.
Abb.10.

K - BOARD

REPARATURSTELLUNG FÜR DIE LEITERPLATTE K

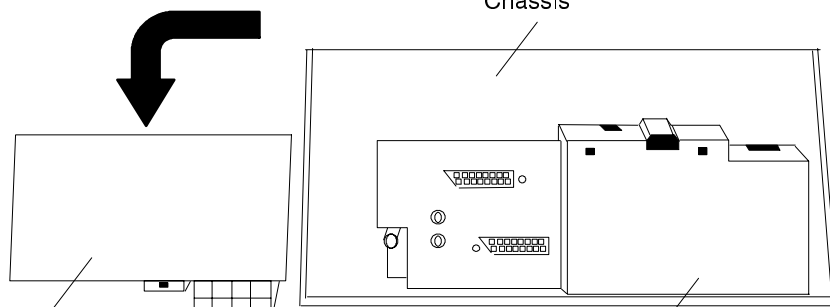


Fig. 11.
Abb.11.

A - BOARD

1. Remove the two screws (A) indicated in fig.10 to release K-board
2. Slide the K-board out of the chassis holding position and gently release making sure that the K-board does not touch the E-board.

1. Entfernen Sie die 2 Schrauben (A siehe Abb.10), um die Leiterplatte K zu lösen.
2. Heben Sie die Leiterplatte K aus dem Chassis heraus. Bitte beachten Sie im Servicefall, daß die Leiterplatte K nicht mit Teilen der Leiterplatte E in Berührung kommt.

HOW TO MOVE THE CHASSIS INTO THE SERVICE POSITION

1. Release the M – PCB as explained on page 5
2. Turn the chassis through 90°, anti-clockwise, as shown in fig.12 and Fig.13.
3. Clip the chassis onto the Bead clasper as shown in fig.13 and fig.14
4. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer

GERÄTECHASSIS IN REPARATURSTELLUNG BRINGEN

1. Lösen Sie die Leiterplatte M, wie auf Seite 5 beschrieben.
2. Drehen Sie jetzt das Chassis um 90° entgegen dem Uhrzeigersinn in die Position wie in Abb.12 und 13 gezeigt.
3. In die Öffnung des Chassisrahmens den Chassishalter, welcher sich oben rechts am Gehäuserahmen befindet, einhängen. (Siehe Abb.13 und 14)
4. Nach erfolgter Reparatur/Einstellung müssen die Leitungen wieder in ihre ursprüngliche Lage gebracht werden, bevor das FS-Gerät an den Kunden übergeben wird.

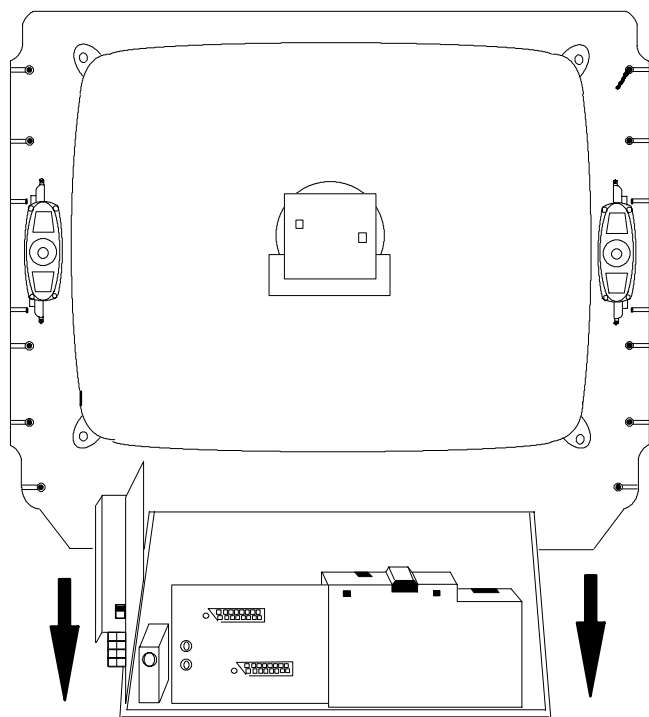


Fig.12.
Abb.12.

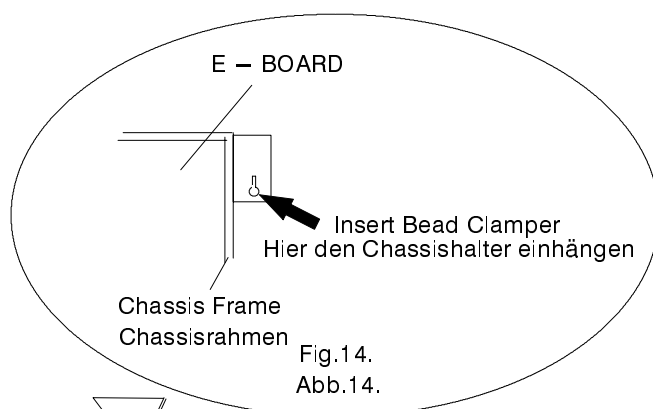


Fig.14.
Abb.14.

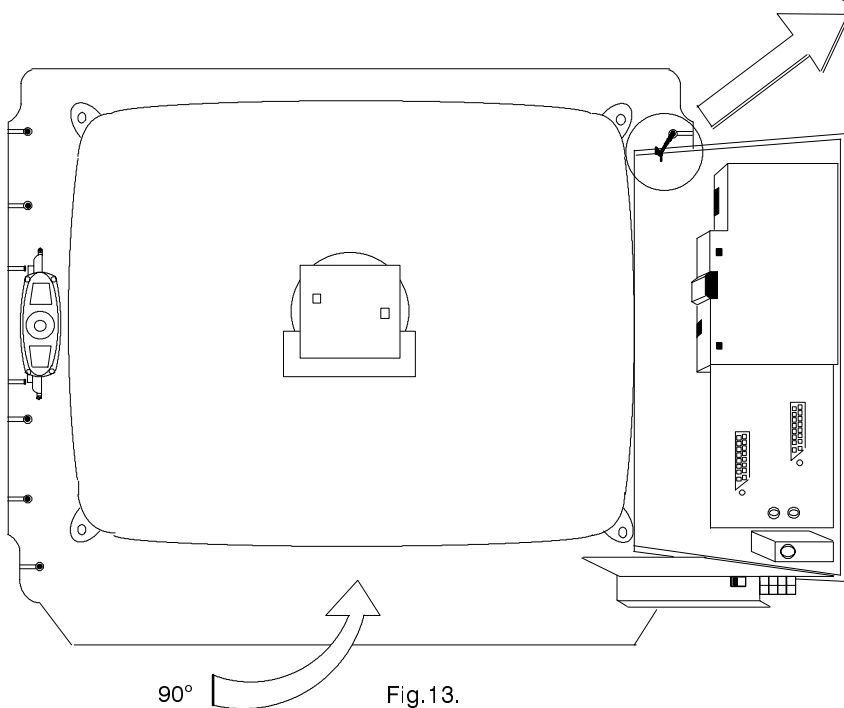


Fig.13.
Abb.13.

SERVICE MODE

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 the F button followed by the volume down button on the customer controls at the front of the TV and at the same time press the Reveal button on the remote control, 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-2S TV set.

TV to Memory Pack process

1.

Plug the memory pack into the lower of the two 21 pin terminals at the back of the TV and switch the TV on. If the TV has only one 21 pin connector then this will be able to accept the memory pack.
2.

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

Program
External>>TV

3.

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

Program
TV>>External

4.

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

Storing

5.

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

OK!

1.

Plug the memory pack into the lower of the two 21 pin terminals at the back of the TV and switch the TV on. If the TV has only one 21 pin connector then this will be able to accept the memory pack.
2.

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

Program
External>>TV

3.

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

Loading

4.

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

OK!

5.

The tuning information from the Memory Pack has now been copied into the TV
6.

To exit from the Service Mode press the Normalisation button.
7.

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

Memory Pack to TV Process

Errors

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

Program
Error!

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

SERVICE-MODUS

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

1. Den Tiefenregler auf Höchststellung und den Höhenregler auf Mindeststellung stellen. Nachdem die F-Taste am Bedienfeld des FS-Gerätes gedrückt wurde, 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

HINWEIS: Dieses FS-Gerät bietet auch die Möglichkeit eines Memory Pack, mit dem Sie die gewählten Fernsehkanäle abspeichern und auf jedes beliebige EURO2S FS-Gerät umkopieren können.

Kopieren der Einstelldaten vom FS-Gerät in das Memory Pack

1. Das Memory Pack in die untere der beiden 21-poligen Steckerleisten an der Rückseite des FS-Geräts stecken und das Gerät einschalten. Wenn das FS-Gerät nur eine 21-polige Anschlussleiste hat, kann das Memory Pack auch an diese angeschlossen werden.
2. Wie schon oben beschrieben auf Service-Modus umschalten. Auf dem Bildschirm erscheint:

Program
External>>TV

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

Program
TV>>External

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

Storing

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

OK!

1. Das Memory Pack in die untere der beiden 21-poligen Steckerleisten an der Rückseite des FS-Geräts stecken und das Gerät einschalten. Wenn das FS-Gerät nur eine 21-polige Anschlussleiste hat, kann das Memory Pack auch an diese angeschlossen werden.

2. Wie schon oben beschrieben auf Service-Modus umschalten. Auf dem Bildschirm erscheint:

Program
External>>TV

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

Loading

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

OK!

5. Die Kanal-Einstelldaten sind damit vom Memory Pack in das FS-Gerät überspielt.

6. Zum Verlassen des Service-Modus die "N"-Taste auf der Fernbedienung drücken

7. Der Kopiervorgang ist somit abgeschlossen, und das Memory Pack kann von der Steckerleiste abgezogen werden.

Kopieren der Einstelldaten vom Memory Pack in das FS-Gerät

FEHLER

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

Program
Error!

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

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

Alignment Function		Settings / Special features						
1. Vertical amplitude	V-AMP 054	Optimum setting						
2. Vertical symmetry	V-SYM 002							
3. Vertical linearity	V-LIN 006							
4. Vert. DC.	Vert. D.C. 000	Not to be adjusted.						
5. V-Pos	V. Pos. 005	Optimum setting						
6. Horizontal amplitude	H-AMP 055	Optimum setting						
7. Horizontal position	H-POS 061							
8. Text Position	TEXT POSITION 048	Optimum setting						
9. EW-amplitude	E-W-AMP 1 -128	Optimum setting						
10. EW-amplitude	E-W-AMP 2 006	Optimum setting						
11. Trapezium-comp	TRAPEZ-1 047	Optimum setting						
12. Trapezium-comp	TRAPEZ-2 -128	Optimum setting						
13. Colour VCO	Colour VCO -005	Press either Blue or Yellow buttons to effect automatic adjustment						
14. Cut-off DC	Cut-off DC 171	Not to be adjusted.						
15. Ug2 Test	<table border="1"> <tr><td colspan="3">Ug 2 Test</td></tr> <tr><td>006</td><td>055</td><td>059</td></tr> </table>	Ug 2 Test			006	055	059	To adjust the screen settings. Turn P3362 until a colour reaches 25 ± 5 , place an oscilloscope probe on the cathode with the highest output and adjust P3368 so the oscilloscope trace reads 170V 0-peak then turn P3362 up so the highest numbered box on the TV screen reads 050 ± 010 .
Ug 2 Test								
006	055	059						
16. Cutoff	<table border="1"> <tr><td colspan="3">Cutoff</td></tr> <tr><td>034</td><td>052</td><td>056</td></tr> </table>	Cutoff			034	052	056	Press the GREEN button to step through the settings. Adjust for optimum.
Cutoff								
034	052	056						
17. White	<table border="1"> <tr><td colspan="3">White</td></tr> <tr><td>216</td><td>255</td><td>216</td></tr> </table>	White			216	255	216	Press the GREEN button to step through the settings. Adjust for optimum.
White								
216	255	216						

ABGLEICHTABELLE

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

Abgleichfunktion		Einstellung/Besondere Merkmale
1. Vertikale Amplitude	V-AMP 054	Optimale Einstellung
2. Vertikale symmetrie	V-SYM 002	
3. Vertical linearität	V-LIN 006	
4. Vert. DC	Vert. D.C. 000	Nicht einstellen
5. V-Pos	V. Pos. 005	Optimale Einstellung
6. Horizontale Amplitude	H-AMP 055	Optimale Einstellung
7. Horizontale position	H-POS 061	
8. Text Position	TEXT POSITION 048	Optimale Einstellung
9. OW-amplitude	E-W-AMP 1 -128	Optimale Einstellung
10. OW-amplitude	E-W-AMP 2 006	Optimale Einstellung
11 Trapez-Kompensation	TRAPEZ-1 047	Optimale Einstellung
12. Trapez-Kompensation	TRAPEZ-2 -128	Optimale Einstellung
13. Colour VCO	Colour VCO -005	Optimale Einstellung
14. Cut-off DC	Cut-off DC 171	Nicht einstellen
15. Bildschirm	Ug 2 Test 006 055 059	Zum Einstellen des Bild- schirms, P3362 auf Link- sanschlag stellen.Oszillograph an die Rotkatode ansch- liessen und mit P3368 auf 170V einstellen; danach P3362 so einstellen, daß im roten Feld auf dem FS- Bildschirm der Wert 050±010 erscheint.
16. Cutoff	Cutoff 034 052 056	Die Einstellungen mit Hilfe der GRÜNEN Taste anwählen. Optimale Einstellung.
17. White	White 216 255 216	Die Einstellungen mit Hilfe der GRÜNEN Taste anwählen. Optimale Einstellung.

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 the F button followed by the volume down button on the customer controls at the front of the TV at the same time pressing the Status button, on the Remote Control, and the screen will show: —

1 — ok	Tuner	11 — ok	Dolby IC for C/R
2 — ok	VIF	12 — ok	P S MODE
3 — ok	EEPROM	13 — ok	P TA0
4 — ok	Sound AV switch1	14 — ok	P TA1
5 — ok	Video AV switch1	15 — ok	P TA2
6 — ok	VDP	16 — ok	P TA3
7 — ok	TPU	17 — ok	P SDA
8 — ok	MSP	18 — ok	P SCL1
9 — ok	Dolby Sub	19 — ok	P SCL3
10 — ok	Dolby IC for L/R	20 — ok	P SCL4

If the CCU ports have been checked and found to be incorrect then "—" will appear in place of "OK".

21 — ok	P SBLED
22 — ok	P OFF
23 — ok	P DEFL
24 — ok	P RAM

Hex codes

7A
21
E2
54
84

ADJUSTMENT PROCEDURE

Item/Preparation	Adjustments
+B SET—UP 1. Operate the TV set 2. Set the controls: Brightness minimum Contrast minimum	1. Set the +B voltage up as follows: Adjust P633 so that U147 shows 147V $\pm$ 0.5V 2. Confirm the following voltages. U5 5 $\pm$ 0.25V U28 28 $\pm$ 1.0V U8 8 $\pm$ 0.5V U40 38.5 $\pm$ 1.5V U12 12 $\pm$ 0.5V U210 209 $\pm$ 10V U16 16.0 $\pm$ 0.5V U5SB 5.0 $\pm$ 0.25V U25 24.8 $\pm$ 1.0V UM 8 $\pm$ 0.5 KU5 5 $\pm$ 0.25 KU8 8 $\pm$ 0.3 KU12 12 $\pm$ 0.5V KU-12 -12 $\pm$ 0.5V KU28 29.5 $\pm$ 2V
RF AGC 1. Receive a test pattern. 2. Connect an oscilloscope between the tuner RF AGC and ground. 3. Set the oscilloscope gain range to 1V/div.	1. Check that the noise becomes large when the RF AGC VR P4701 is turned counterclockwise. After the check turn it clockwise. 2. Gradually turn the RF AGC VR anti-clockwise, and set to a point where the voltage drops by 0.2V from the maximum value.
CUT OFF 1. Receive a black and white signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode . 4. Select Ug2 Test.	1. Confirm which colour has the biggest value 2. Turn the screen VR P3368 to minimum. 3. Connect an oscilloscope to the cathode with the biggest value colour. 4. Adjust P3368 to get a low light pulse voltage of 170V $\pm$ 5V. 5. Adjust P3362 to whichever colour reaches 50 $\pm$ 10 first.
FOCUS 1. Receive a test pattern.	1. Adjust the focus at the flyback transformer for optimum setting

SELBSTDIAGNOSE

1) Die Selbstdiagnose dient zum automatischen Prüfen der Bus-Leitungen sowie des Hexadezimalcodes des FS-Geräts. Zum Umschalten auf Selbstdiagnose nach dem Drücken der "F"-Taste die "Lautstärke Minus" Taste am Bedienfeld des FS-Geräts und gleichzeitig die Taste "Status" an der Fernbedienung drücken; auf dem Bildschirm erscheint hierauf: –

1 — ok	Tuner	11 — ok	Dolby IC for C/R		
2 — ok	ZF-Verstärker	12 — ok	P S MODE		
3 — ok	EEPROM	13 — ok	P TA0		
4 — ok	Audio	14 — ok	P TA1		
5 — ok	AV-Schalter 1	15 — ok	P TA2		
6 — ok	Video AV switch1	16 — ok	P TA3		
7 — ok	AV-Schalter 1	17 — ok	P SDA		
8 — ok	Video AV-Schalter 2	18 — ok	P SCL1		
9 — ok	MSP	19 — ok	P SCL3		
10 — ok	Dolby Sub	20 — ok	P SCL4		
	Dolby IC for L/R				

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

21 — ok	P SBLED		Hexadezimalcode
22 — ok	P OFF		7A
23 — ok	P DEFL		21
24 — ok	P RAM		E2
			54
			84

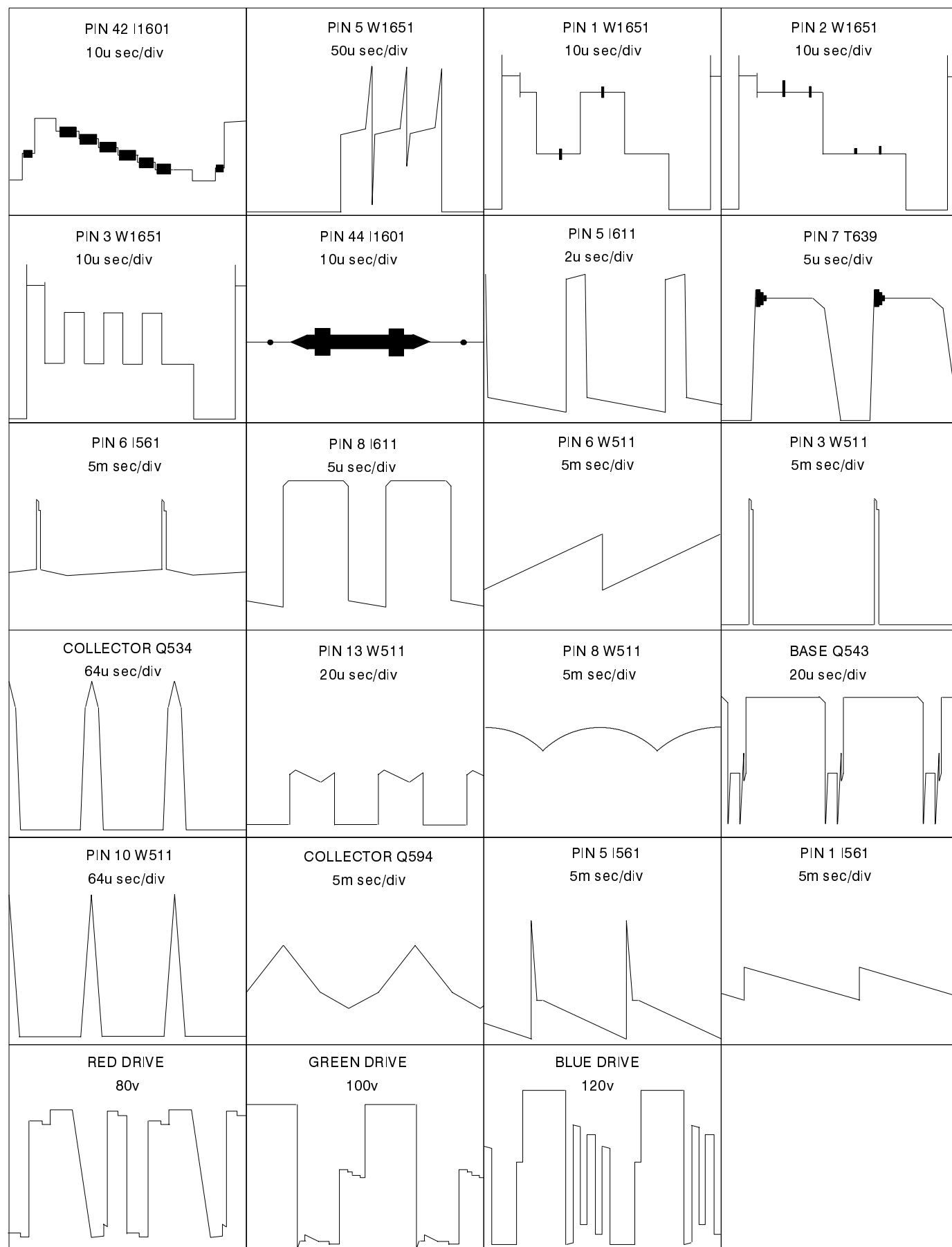
2) Nach der Selbstdiagnose wird das Gerät automatisch auf sämtliche werksseitigen Standardeinstellungen zurückgesetzt.

ABGLEICHTABELLE

Abgleich/Vorbereitung	Einstellung
Betriebsspannung 1. Testbild empfangen 2. Geräteeinstellungen: Helligkeit minimum Kontrast minimum	1. Die +B Spannung wie folgt einstellen: Mit P633 die U147 auf 147V $\pm$ 0.5V einstellen 2. Folgende Spannungen kontrollieren: U5 5 $\pm$ 1/-0.25V U28 28 $\pm$ 1.0V U8 8 $\pm$ 0.5V U40 38.5 $\pm$ 1.5/-1.0V U12 12 $\pm$ 0.5V U210 209 $\pm$ 10V U16 16.0 $\pm$ 0.5/-1V U5SB 5.0 $\pm$ 0.25V U25 24.8 $\pm$ 1.0V UM 8 $\pm$ 0.5 KU5 5 $\pm$ 0.25 KU8 8 $\pm$ 0.3 KU12 12 $\pm$ 0.5V KU-12 -12 $\pm$ 0.5V KU28 29.5 $\pm$ 2V
HF-Regelspannung 1. Farbbalkentestbild 2. Einen Oszillograph (DC-Modus) an Pin 4 vom Tuner an die AGC anschliessen	1. P4701 auf Linksanschlag drehen, um zu kontrollieren, ob die Regelfunktion arbeitet. Der Rauschanteil im Bild muß deutlich erhöht sein. Danach P4701 auf Rechtsanschlag stellen. 2. P4701 gegen den Uhrzeigersinn drehen, bis die Regelspannung um 0,2V vom Maximum absinkt.
CUT OFF Einstellung 1. Ein schwarz-weiß Testbild empfangen. 2. Die Bildröhre von aussen entmagnetisieren. 3. Den Service-Modus aufrufen. 4. Den Abgleich für UG2 Test auswählen.	1. VR-P3368 auf Linksanschlag stellen. 2. Ein Oszilloskop an die Katode mit der höchliessen. 3. Mit P3362 einen Wert von 170Vss $\pm$ 5V einstellen. 4. P3362 so abgleichen, daß in einem der 3 Felder auf dem Bildschirm der Wert 50 $\pm$ 10 erreicht wird. HINWEIS: 5. Bei korrektem Abgleich von P3362 wird der vorher stummgeschaltete Ton automatisch freigeschaltet.
FOKUS 1. Farbbalkentestbild.	1. Den Fokusregler am Zeilentransformator bei Beobachtung des Gesamtbildes optimal einstellen.

WAVEFORM PATTERN TABLE

SIGNAL TABELLE



SCHEMATIC DIAGRAM FOR MODEL TX-28XDP1C (Euro-2S Chassis)

IMPORTANT SAFETY NOTICE

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

Notes

1. **RESISTOR**
All resistors are carbon 1/4W resistor, unless marked as follows:
Unit of resistance is OHM (Ω) (K=1,000, M=1,000,000).
2. **CAPACITORS**
All capacitors are ceramic 50V, unless marked as follows:
Unit of capacitance is μ F, unless otherwise stated.
3. **COIL**
Unit of inductance is μ H, unless otherwise stated.
4. Components marked 'L' on the schematic diagram shows leadless parts.
5. **TEST POINT**
 : Test Point position
6. **EARTH SYMBOL**
 : Chassis Earth (Cold)  : Line Earth (Hot)
7. **VOLTAGE MEASUREMENT**
Voltage is measured by a DC voltmeter.
Measurement conditions are as follows:

Power source	AC 220V-240V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Maximum position
8.  : Indicates the Video signal path
 : Indicates the Audio signal path
 : Indicates the Vertical/Horizontal signal path
9. This schematic diagram is the latest at the time of printing and is subject to change without notice.

Remarks

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

Precautions

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

ZEICHENERKLÄRUNG FÜR MODELL TX-28XDP1C (Euro-2S Chassis)

WICHTIGER SICHERHEITSHINWEIS

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

Anmerkung

1. **WIDERSTÄNDE**
Alle 1/4Watt Widerstände sind Kohlewiderstände, Abweichungen sind folgt gekennzeichnet.
Die Maßeinheit ist OHM (Ω) (K=1,000 M=1,000,000)
2. **KONDENSATOREN**
Alle Kondensatoren sind Keramikausführungen
Spannungsfestigkeit 50V. Abweichungen sind wie folgt gekennzeichnet.
Die Maßeinheit ist μ F, wenn keine anderen Bezeichnungen genannt sind
3. **SPULEN**
Die Maßeinheit ist μ H. Abweichungen sind gekennzeichnet.
4. Mit 'L' gekennzeichnete Teile sind ohne Anschlußdrähte.
5. **TESTPUNKTE**
 : Kennzeichnung der Testpunktpositio
6. **MASSE SYMBOL**
 : Erdung am Chassis  : Erdung an Masse—Leitung
7. **SPANNUNGSMESSUNG**
Spannungsmessungen sind mit einem DC-Voltmeter durchzuführen. Die Meßbedingungen sind folgende:

Netzspannung	AC 220V-240V 50Hz
Wiedergabe Signal	Farbbalken-Testbild
Alle übrigen Einstellungen für Benutzer Sollangaben	
8.  : Videosignalweg
 : Audiosignalweg
 : Signalweg für Hor/Vert. Synchronsignale
9. Änderungen im Laufe der Fertigung sind möglich.

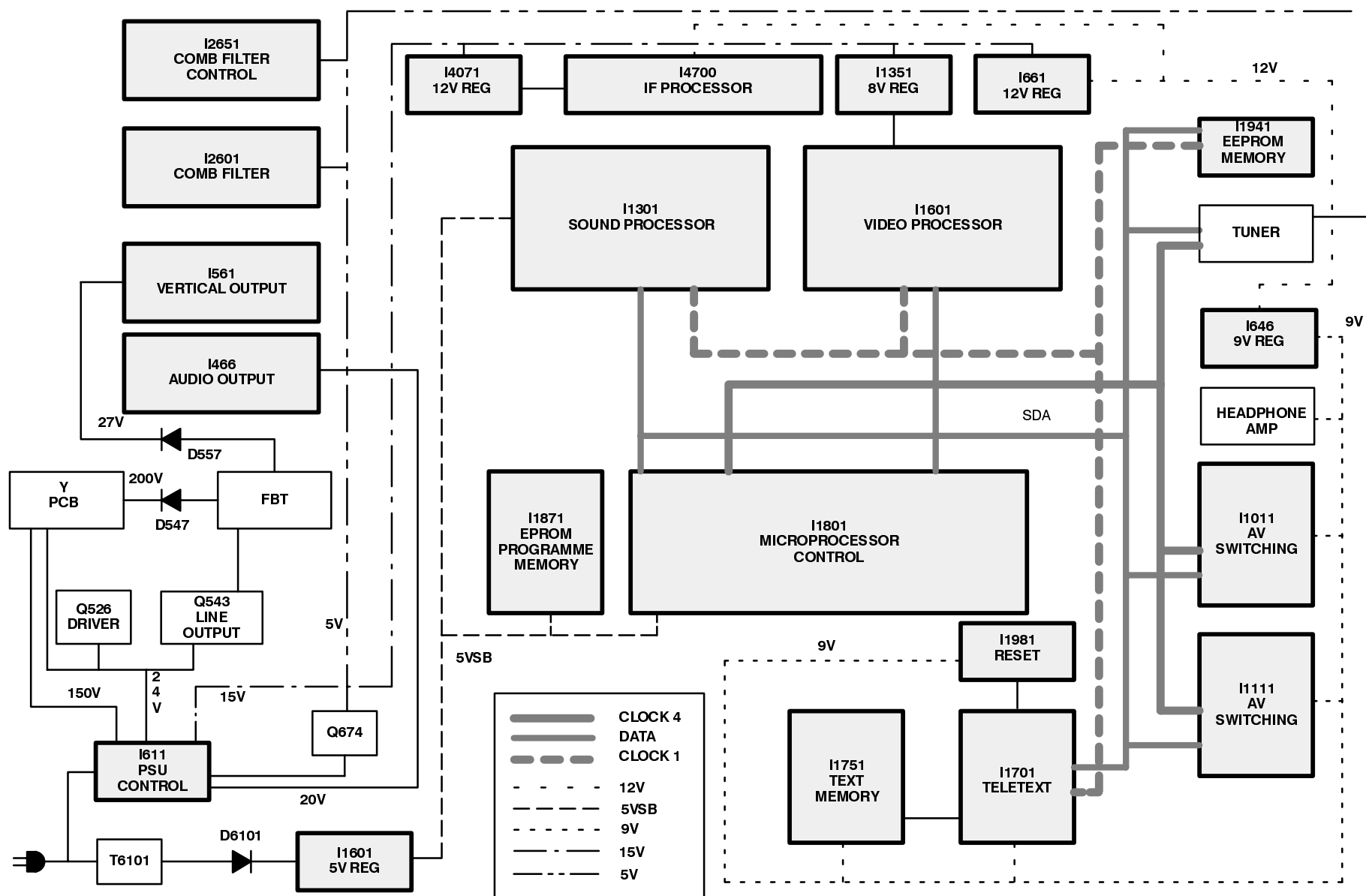
Bemerkungen

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

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

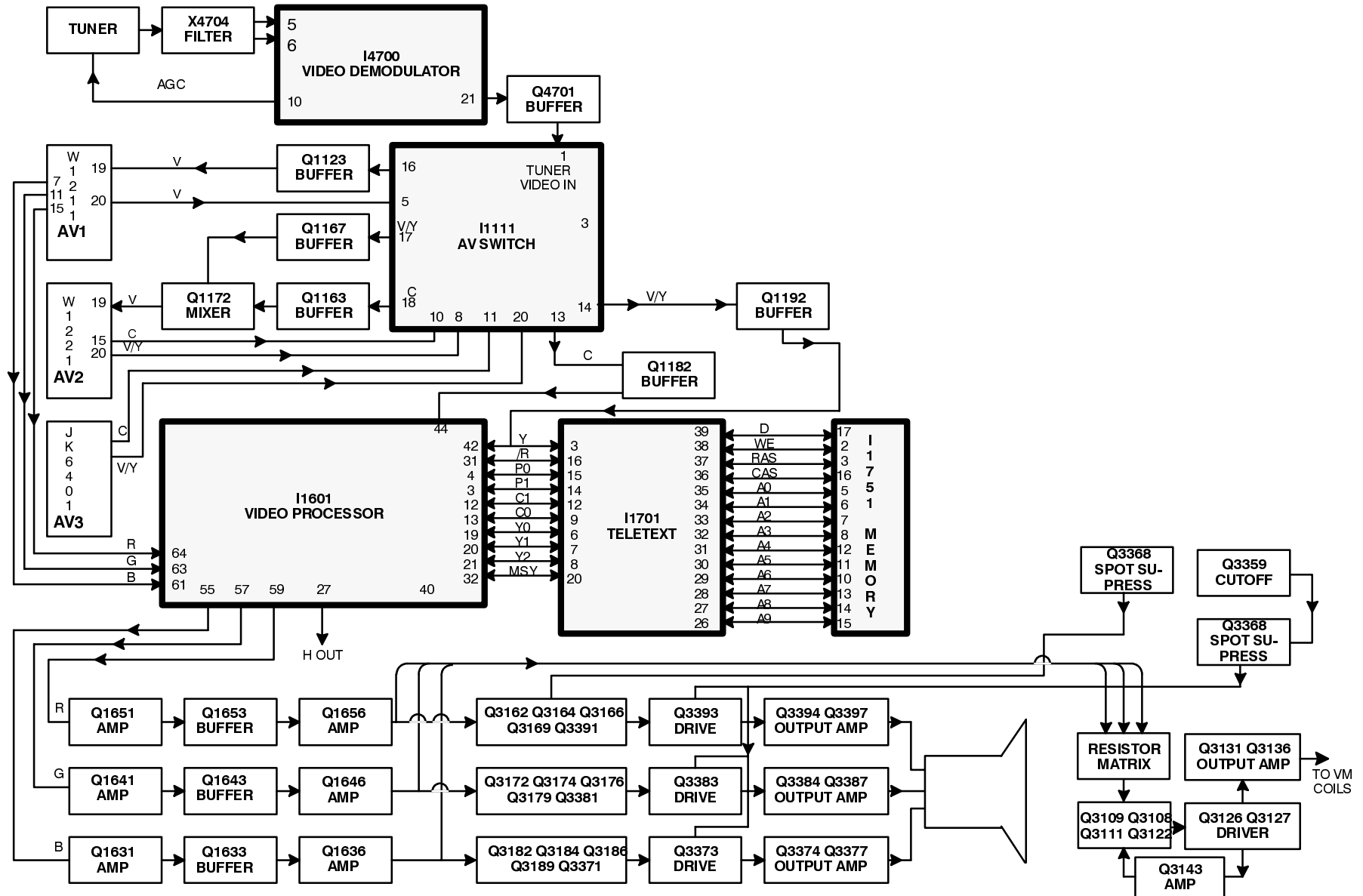
- a. Weder die Leitungen im heißen noch Leitungen im heißen und im kalten Bereich gleichzeitig berühren. Es besteht die Gefahr eines elektrischen Schlages.
- b. Keinesfalls die Leitungen im heißen Bereich mit denen im kalten Bereich verbinden oder kurzschließen. Dies kann zur Zerstörung von Bauteilen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

POWER SUPPLY AND CONTROL BLOCK DIAGRAM STROMVERSORGUNGS BLOCKSCHEMA



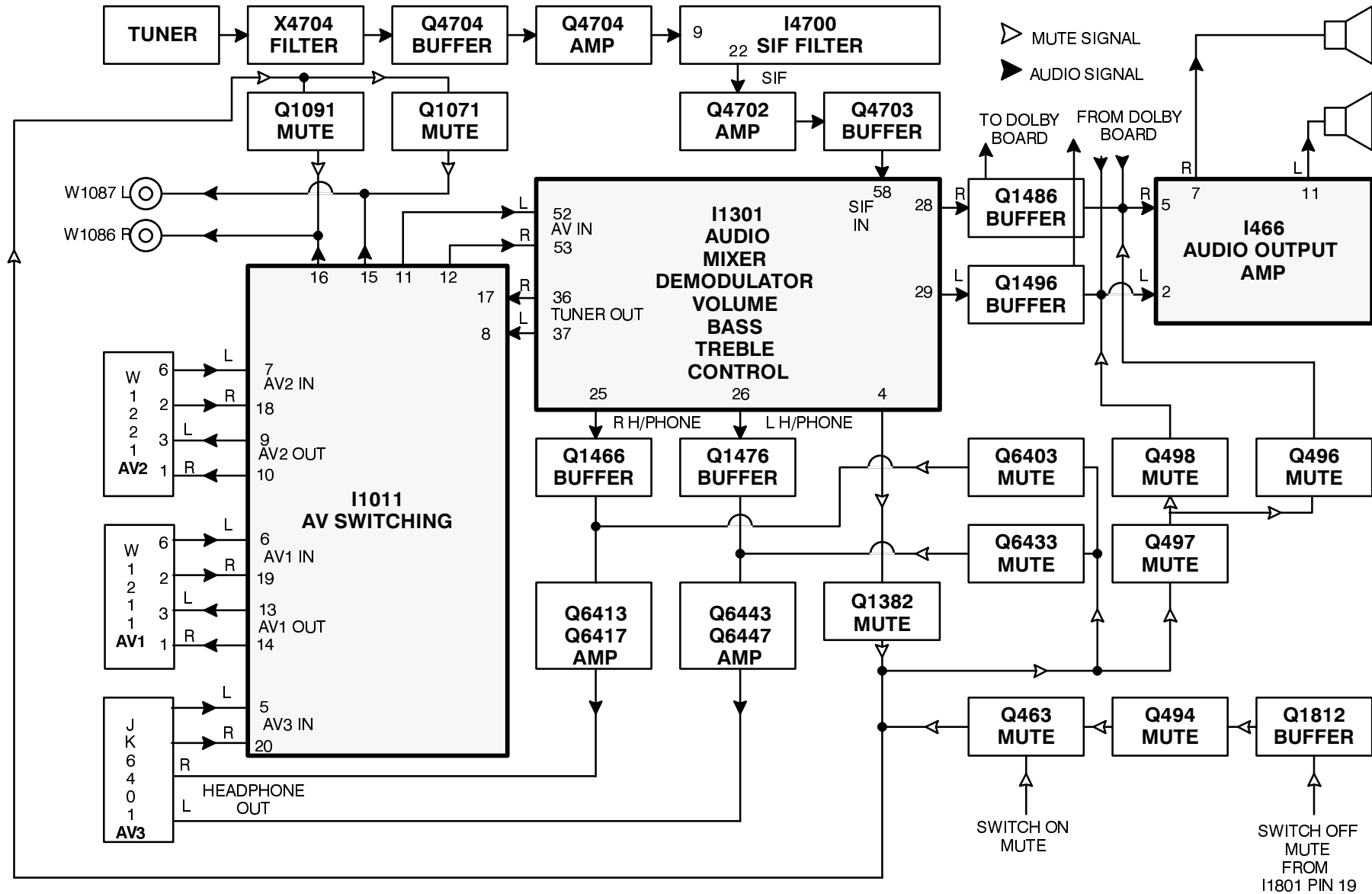
VIDEO BLOCK DIAGRAM

BILDSIGNAL BLOCKSCHEMA

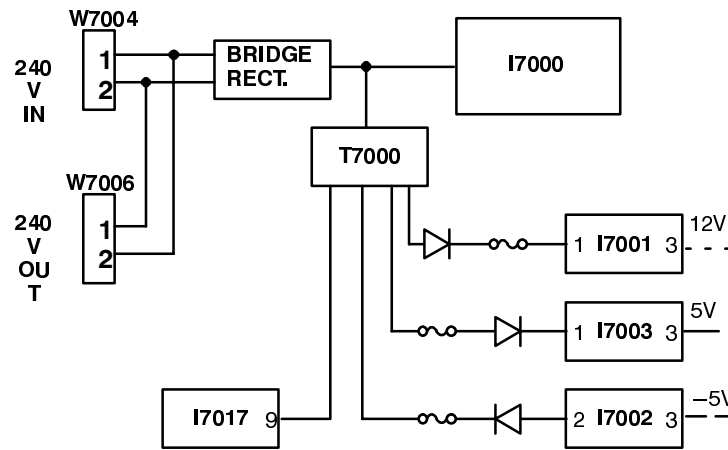


AUDIO BLOCK DIAGRAM

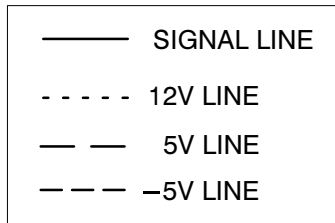
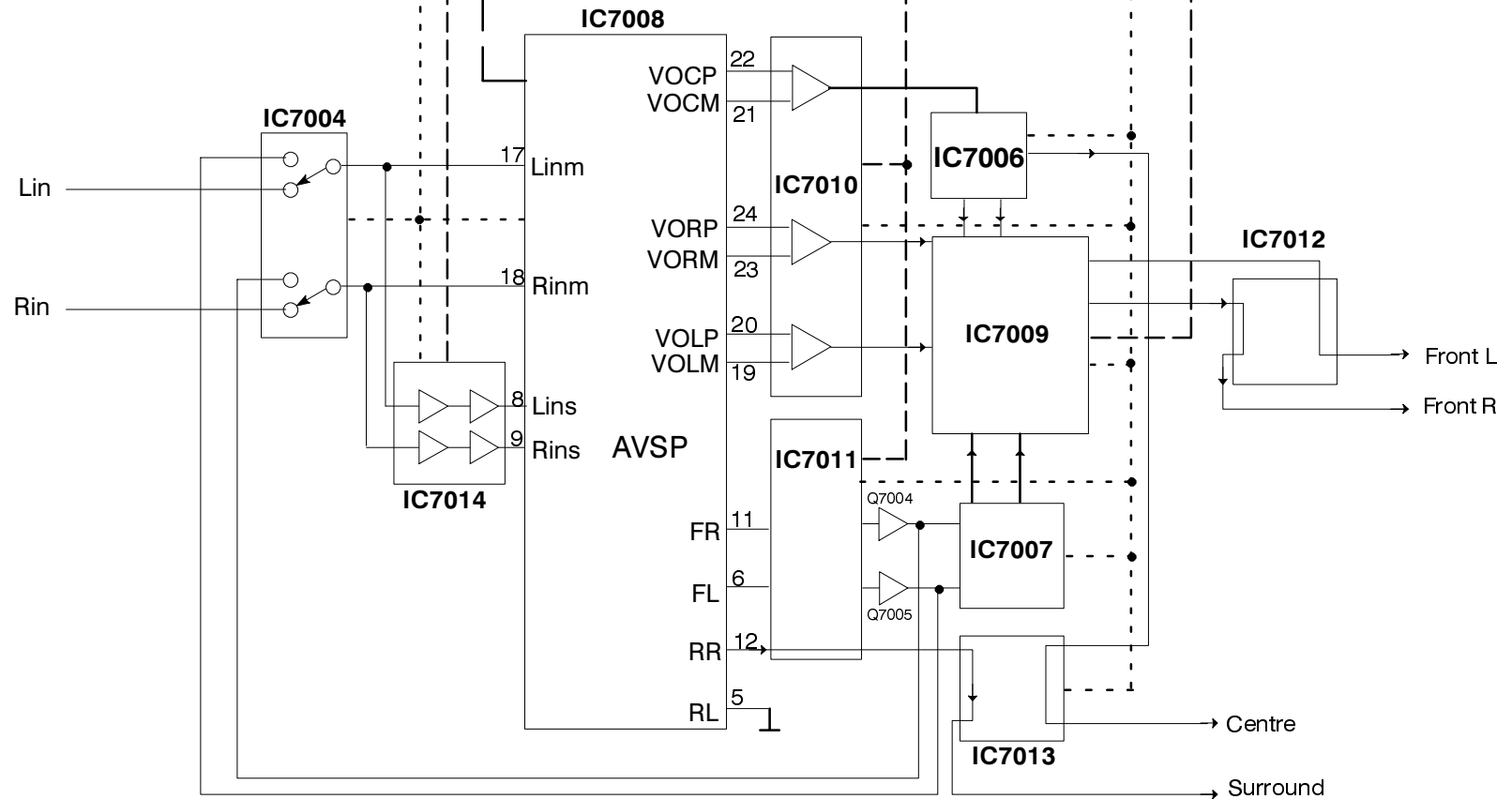
TONSIGNAL BLOCKSCHEMA



DOLBY BLOCK DIAGRAM



DOLBY BLOCKSCHEMA

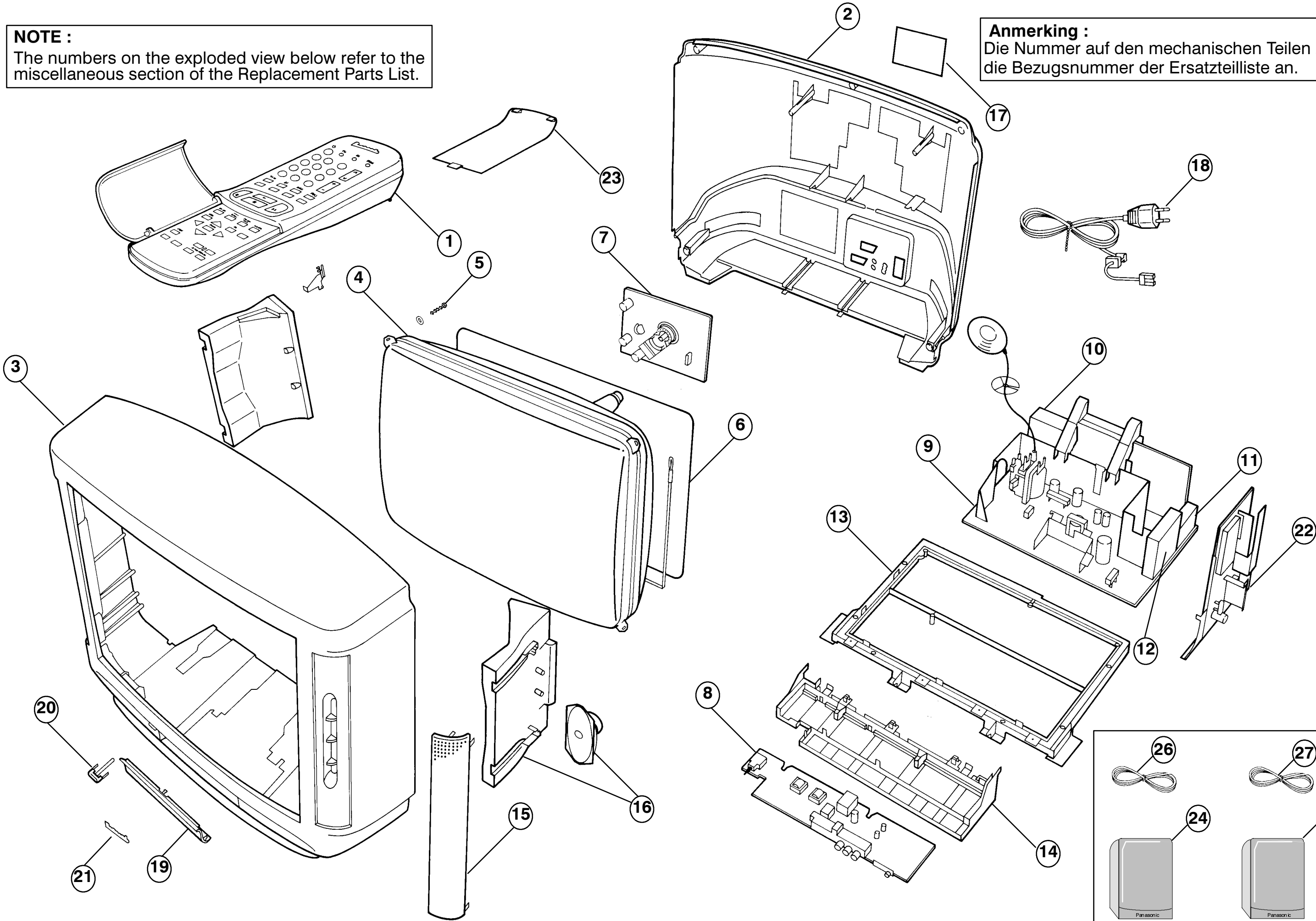


PARTS LOCATION

EXPLOSIONSZEICHNUNG

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

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



REPLACEMENT PARTS LIST

Important Safety Notice

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

Ref No.	Part No.	Description
MISCELLANEOUS COMPONENTS		
1)	EUR51921	REMOTE CONTROL
2)	TKU8E00171	REAR COVER Δ
3)	TKY8E038	CABINET Δ
4)	A66EAK252X21	C.R.T. Δ
5)	VP17005-32	CRT FIXING SCREW
6)	TLK8E05116	DEGAUSS COIL Δ
7)	TNP117037AN	Y P.C.B. Δ
8)	TNP8EM011AB	M P.C.B. Δ
9)	TNP197087AS	E P.C.B. Δ
10)	TNP117034AY	A P.C.B. Δ
11)	ENV578F5G3	TUNER Δ
12)	TNP117039AC	B P.C.B. Δ
13)	TMX8E005	CHASSIS FRAME
14)	TMW8E016-1	CONTROL BLOCK FRAME
15)	TKP8E1124	SPEAKER NET
16)	EAG1216A2	SPEAKER
17)	TBM8E1491	MODEL LABEL
18)	TSX8E0011	MAINS LEAD Δ
19)	TKP8E1122	LID
20)	TBX8E025	POWER BUTTON
21)	TBM153022	PANASONIC BADGE
22)	TNP117057AA	K P.C.B. Δ
23)	UR51EC780	BATTERY COVER (REMOTE)
24)	EAS8E001-A	EXTERNAL SPEAKER (FRONT)
25)	EAS8E002-A	EXTERNAL SPEAKER (REAR)
26)	TSX8E0014S	EXTERNAL SPK WIRE (FRONT)
27)	TSX8E0015S	EXTERNAL SPK WIRE (REAR)
	TBM8E1410	PRESET PANEL
	TBM8E1486	INDICATION SHEET
	TBM8E1490	DOLBY LABEL
	TEK6935	LID SWITCH
	TKP8E1120	LED PANEL
	TMW8E018	LED HOLDER
	TNA10804	VIF PACK
	TPC8E4464	OUTER CARTON
	TPD8E562	CUSHION
	TQB8E2046A	GERMAN INST BOOK Δ
	TQB8E2046B	DUTCH INST BOOK Δ
	TQB8E2046C	ITALIAN INST BOOK Δ
	TQB8E2068	ITALIAN INSERT SHEET Δ
	UM-3DEP-2P	BATTERY
	VP17101HIP	FIXING BUSH
LINKS		
BC1	ERJ6GEY0R00	WIRE LINK
BC2	ERJ6GEY0R00	WIRE LINK
BC4	ERJ6GEY0R00	WIRE LINK
BC5	ERJ6GEY0R00	WIRE LINK
B11	ERJ6GEY0R00	WIRE LINK
B12	ERJ6GEY0R00	WIRE LINK
B15	ERJ6GEY0R00	WIRE LINK
B16	ERJ6GEY0R00	WIRE LINK
B17	ERJ6GEY0R00	WIRE LINK
B18	ERJ6GEY0R00	WIRE LINK

ERSATZTEILLISTE

Wichtiger Sicherheitshinweis

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

Ref No.	Part No.	Description
B19	ERJ6GEY0R00	WIRE LINK
CAPACITORS		
C200	ECBT1H103KB3	CERAMIC 50V 10nF
C203	ECEA1CU221	ELECT 16V 220 μ F
C204	ECQB1H104J	FILM 50V 100nF
C205	ECBT1H102KB3	CERAMIC 50V 1nF
C206	222236516334	FILM 160V 330nF
C211	ECEA1HFQ101	ELECT 50V 100 μ F
C212	ECEA1HMR22GB	ELECT 50V 0.22 μ F
C226	ECQB1H104J	FILM 50V 100nF
C228	ECKC1H102J	CERAMIC 50V 1000pF
C461	ECKC1H821J	CERAMIC 50V 820pF
C462	ECEA1EU101	ELECT 25V 100 μ F
C463	ECEA1EM471GB	ELECT 25V 470pF
C465	ECEA1CU470	ELECT 16V 47 μ F
C466	ECEA1HU222	ELECT 50V 2200 μ F
C467	ECQB1H103J	FILM 50V 10nF
C470	222236516184	FILM 160V 180nF
C471	ECEA1HU010	ELECT 50V 1 μ F
C472	ECEA1CU101	ELECT 16V 100 μ F
C473	ECEA1EGE222	ELECT 25V 2200 μ F
C476	ECEA1HU4R7	ELECT 50V 4.7 μ F
C477	ECEA1HU4R7	ELECT 50V 4.7 μ F
C479	222236576104	FILM 760V 100nF
C480	222236516184	FILM 160V 180nF
C481	ECEA1HU010	ELECT 50V 1 μ F
C482	ECEA1CU101	ELECT 16V 100 μ F
C483	ECEA1EGE222	ELECT 25V 2200 μ F
C486	ECEA1HU4R7	ELECT 50V 4.7 μ F
C487	ECEA1HU4R7	ELECT 50V 4.7 μ F
C489	222236576104	FILM 760V 100nF
C492	ECEA1VM4R7GB	ELECT 35V 4.7 μ F
C495	ECEA1EU101	ELECT 25V 100 μ F
C496	ECEA1CU100	ELECT 16V 10 μ F
C521	ECEA1HU101	ELECT 50V 100 μ F
C524	222236516105	FILM 160V 1 μ F
C525	ECKC1H271J	CERAMIC 50V 270pF
C527	ECQM2683JZ	FILM 250V 68nF
C531	ECQM2564KZ	FILM 250V 560nF
C534	ECWH15H332J	FILM 1500V 3300 μ F
C536	ECWH12H103J	FILM 1250V 10nF Δ
C537	ECQF4393JZH	FILM 400V 0.039 μ F
C538	ECWF2H394JZ	CERAMIC 500V 390nF Δ
C541	ECWF2H105J	FILM 500V 1000nF Δ
C543	ECEA2VU2R2	ELECT 350V 2.2 μ F
C544	ECKC3D152J	CERAMIC 2KV 1.5nF Δ
C547	ECKC2H101J	CERAMIC 500V 100pF Δ
C548	ECEA2EU220	ELECT 250V 22 μ F
C549	ECEA2AU2R2	ELECT 100V 2.2 μ F
C557	ECKC2H101J	CERAMIC 500V 100pF Δ
C558	ECEA1VM102GB	ELECT 35V 1nF
C561	ECEA1VU222	ELECT 35V 2200 μ F
C562	222236576104	FILM 760V 100nF
C563	ECEA1VM471GB	ELECT 25V 470pF
C564	ECQB1H473K	FILM 50V 47nF
C565	ECKC2H151J	CERAMIC 500V 150pF Δ
C567	ECQB1H333J	FILM 50V 33nF
C568	222236516224	FILM 160V 220nF

Ref No.	Part No.	Description			
C574	ECEA1VU332	ELECT	35V	3300μF	
C577	222236516105	FILM	160V	1μF	
C578	222236576104	FILM	760V	100nF	
C579	ECKC1H472J	CERAMIC	50V	4.7nF	
C591	ECEA1HGE4R7	ELECT	50V	4.7μF	
C592	ECEA1CM330GB	ELECT	16V	33pF	
C593	ECKC1H103JB	CERAMIC	50V	10nF	
C594	ECKC1H103JB	CERAMIC	50V	10nF	
C595	ECQB1H102J	FILM	50V	1nF	
C596	ECQE2474KFW	FILM	200V	470nF	
C618	ECOS2GG181NG	ELECT	400V	180μF	△
C619	ECQE6104K	FILM	600V	100nF	△
C620	ECKC2H561J	CERAMIC	500V	560pF	△
C622	ECEA1HFS470	ELECT	50V	47μF	
C623	222236516224	FILM	160V	220nF	
C626	ECKC3D471JB	CERAMIC	2KV	470pF	△
C628	ECKC1H221J	CERAMIC	50V	220pF	
C629	ECQB1H153K	FILM	50V	15nF	
C631	ECQB1H472J	FILM	50V	4.7nF	
C632	ECQB1H103J	FILM	50V	10nF	
C634	ECEA1HGE010	ELECT	50V	1μF	
C635	ECKC3D331J	CERAMIC	2KV	330pF	△
C636	ECKC2H472J	CERAMIC	500V	4.7nF	△
C637	ECQB1H222J	FILM	50V	2200pF	
C638	ECQF6333JZH	FILM	600V	0.033μF	
C639	ECKCWS152MEJ	CERAMIC	500V	1500pF	
C647	222236516334	FILM	160V	330nF	
C650	ECKC3A102J	CERAMIC	1KV	1nF	△
C651	ECOS2EA221AB	ELECT	400V	220μF	
C656	ECKC2H681J	CERAMIC	500V	680pF	△
C657	ECEA1HM471GB	ELECT	50V	470pF	
C661	ECKC2H821J	CERAMIC	500V	820pF	△
C662	ECEA1VU222	ELECT	35V	2200μF	
C666	222236516224	FILM	160V	220nF	
C667	ECEA1CU471	ELECT	16V	470μF	
C671	ECKC2H681J	CERAMIC	500V	680pF	△
C672	ECEA1VU222	ELECT	35V	2200μF	
C677	ECEA1CU471	ELECT	16V	470μF	
C681	ECEA1EGE101	ELECT	25V	100μF	
C682	ECKC2H331J	CERAMIC	500V	330pF	△
C687	ECEA1HGE102	ELECT	50V	1000μF	
C1001	ECEA1CU470	ELECT	16V	47μF	
C1002	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1011	ECEA1CU470	ELECT	16V	47μF	
C1012	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C1013	ECEA1CU470	ELECT	16V	47μF	
C1019	ECEA1CU470	ELECT	16V	47μF	
C1020	ECEA1CU470	ELECT	16V	47μF	
C1021	ECEA1HUR47	ELECT	50V	0.47μF	
C1022	ECEA1HUR47	ELECT	50V	0.47μF	
C1023	ECUV1H221JCX	S.M.CAP	50V	220pF	
C1024	ECUV1H221JCX	S.M.CAP	50V	220pF	
C1031	ECEA1HNR47	ELECT	50V	0.47μF	
C1032	ECEA1HUR47	ELECT	50V	0.47μF	
C1033	ECUV1H221JCX	S.M.CAP	50V	220pF	
C1034	ECUV1H221JCX	S.M.CAP	50V	220pF	
C1036	ECEA1CU470	ELECT	16V	47μF	
C1038	ECEA1CU470	ELECT	16V	47μF	
C1041	ECUV1H103KBX	S.M.CAP	50V	10nF	
C1042	ECUV1H103KBX	S.M.CAP	50V	10nF	
C1043	ECEA1HUR47	ELECT	50V	0.47μF	
C1044	ECEA1HUR47	ELECT	50V	0.47μF	
C1051	ECEA1HNR33	ELECT	50V	0.33μF	
C1052	ECEA1HNR33	ELECT	50V	0.33μF	
C1071	ECEA1CN470	ELECT	16V	47μF	
C1091	ECEA1CU470	ELECT	16V	47μF	
C1101	ECEA1HUR47	ELECT	50V	0.47μF	
C1111	ECEA1HU470	ELECT	50V	47μF	
C1112	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C1116	ECUV1H473ZFX	S.M.CAP	50V	47nF	

Ref No.	Part No.	Description			
C1121	ECEA1HUR47	ELECT	50V	0.47μF	
C1124	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C1126	ECEA1CU470	ELECT	16V	47μF	
C1151	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1158	ECEA1HUR47	ELECT	50V	0.47μF	
C1161	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1178	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C1179	ECEA1CU470	ELECT	16V	47μF	
C1183	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1193	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1226	ECUV1H560JCX	S.M.CAP	50V	56pF	
C1231	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1241	ECUV1H472KBX	S.M.CAP	50V	4.7nF	
C1242	ECUV1H472KBX	S.M.CAP	50V	4.7nF	
C1263	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1271	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1273	ECEA1HUR47	ELECT	50V	0.47μF	
C1282	ECEA1HUR47	ELECT	50V	0.47μF	
C1284	ECEA1HUR47	ELECT	50V	0.47μF	
C1301	ECEA1CU100	ELECT	16V	10μF	
C1302	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1303	ECEA1CU100	ELECT	16V	10μF	
C1304	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1306	ECEA1CU101	ELECT	16V	100μF	
C1307	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1309	ECEA1CU100	ELECT	16V	10μF	
C1310	ECEA1CU100	ELECT	16V	10μF	
C1311	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1312	ECEA50Y3R3	ELECT	50V	3.3μF	
C1313	ECUV1H471JCX	S.M.CAP	50V	470pF	
C1314	ECUV1H471JCX	S.M.CAP	50V	470pF	
C1315	ECEA1CU100	ELECT	16V	10μF	
C1316	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1321	ECUV1H030CCX	S.M.CAP	50V	30pF	
C1322	ECUV1H030CCX	S.M.CAP	50V	30pF	
C1326	EQM1H334J	FILM	50V	330nF	
C1327	ECUV1H221JCX	S.M.CAP	50V	220pF	
C1331	ECUV1H391JCX	S.M.CAP	50V	390pF	
C1332	ECUV1H391JCX	S.M.CAP	50V	390pF	
C1346	ECUV1H221JCX	S.M.CAP	50V	220pF	
C1347	ECUV1H221JCX	S.M.CAP	50V	220pF	
C1351	ECEA1CU470	ELECT	16V	47μF	
C1352	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1353	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1371	ERJ6GEY0R00	WIRE LINK			
C1377	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1382	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1409	ECUV1H470JCX	S.M.CAP	50V	47pF	
C1411	ECUV1H070DCX	S.M.CAP	50V	7pF	
C1412	ECUV1H100DCX	S.M.CAP	50V	10pF	
C1413	ECUV1H220JCX	S.M.CAP	50V	22pF	
C1416	ECUV1H070DCX	S.M.CAP	50V	7pF	
C1417	ECUV1H560JCX	S.M.CAP	50V	56pF	
C1444	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1454	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1463	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1465	ECUV1H560JCX	S.M.CAP	50V	56pF	
C1467	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1468	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1473	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1475	ECUV1H560JCX	S.M.CAP	50V	56pF	
C1483	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1487	ECUV1H103KBX	S.M.CAP	50V	10nF	
C1493	ECUV1H102KBX	S.M.CAP	50V	1nF	
C1497	ECUV1H103KBX	S.M.CAP	50V	10nF	
C1601	ECEA1CU470	ELECT	16V	47μF	
C1602	ECUV1H103KBX	S.M.CAP	50V	10nF	
C1606	ECEA0JU102	ELECT	6.3V	1000μF	
C1607	ECUV1H103KBX	S.M.CAP	50V	10nF	
C1611	ECEA1CU470	ELECT	16V	47μF	

Ref No.	Part No.	Description		
C1612	ECUV1H103KBX S.M.CAP	50V 10nF		
C1613	ECEA1CU100 ELECT	16V 10 μ F		
C1614	ECUV1H473ZFX S.M.CAP	50V 47nF		
C1615	ECUV1H103KBX S.M.CAP	50V 10nF		
C1616	ECUV1H101JCX S.M.CAP	50V 100pF		
C1617	ECUV1H470JCX S.M.CAP	50V 47pF		
C1618	ECUV1H470JCX S.M.CAP	50V 47pF		
C1619	ECUV1H103KBX S.M.CAP	50V 10nF		
C1620	ECUV1H102KBX S.M.CAP	50V 1nF		
C1621	ECUV1H103KBX S.M.CAP	50V 10nF		
C1622	ECEA0JU102 ELECT	6.3V 1000 μ F		
C1625	ERJ6GEYJ151 S.M.CARB	0.1W 5% 150 Ω		
C1626	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1627	ECEA1HNR22 ELECT	50V 0.22 μ F		
C1628	ECEA0JU102 ELECT	6.3V 1000 μ F		
C1641	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1651	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1652	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1653	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1655	ECEA1CU470 ELECT	16V 47 μ F		
C1661	ECUV1H102KBX S.M.CAP	50V 1nF		
C1662	ECUV1H683ZFX S.M.CAP	50V 68nF		
C1663	ECUV1H102KBX S.M.CAP	50V 1nF		
C1666	ECUV1H102KBX S.M.CAP	50V 1nF		
C1667	ECUV1H683ZFX S.M.CAP	50V 68nF		
C1668	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1672	ECEA0JU101 ELECT	6.3V 100 μ F		
C1673	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1681	ECUV1H102KBX S.M.CAP	50V 1nF		
C1682	ECUV1H102KBX S.M.CAP	50V 1nF		
C1685	ECUV1H102KBX S.M.CAP	50V 1nF		
C1686	ECUV1H271JCX S.M.CAP	50V 270pF		
C1687	ECUV1H121JCX S.M.CAP	50V 120pF		
C1688	ECUV1H471JCX S.M.CAP	50V 470pF		
C1691	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1692	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1693	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1696	ECUV1H102KBX S.M.CAP	50V 1nF		
C1697	ECUV1H100DCX S.M.CAP	50V 10pF		
C1698	ECUV1H102KBX S.M.CAP	50V 1nF		
C1699	ECUV1H100DCX S.M.CAP	50V 10pF		
C1701	ECEA1CU470 ELECT	16V 47 μ F		
C1702	ECUV1H103KBX S.M.CAP	50V 10nF		
C1704	ECEA1CU470 ELECT	16V 47 μ F		
C1706	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1714	ECUV1H103KBX S.M.CAP	50V 10nF		
C1717	ECUV1H102KBX S.M.CAP	50V 1nF		
C1721	ECUV1H473ZFX S.M.CAP	50V 47nF		
C1722	ECUV1H102KBX S.M.CAP	50V 1nF		
C1752	ECUV1H103KBX S.M.CAP	50V 10nF		
C1753	ECEA1CU100 ELECT	16V 10 μ F		
C1801	ECUV1H103KBX S.M.CAP	50V 10nF		
C1802	ECEA0JM471GB ELECT	6.3V 470pF		
C1804	ECUV1H103KBX S.M.CAP	50V 10nF		
C1811	ECUV1H332KBX S.M.CAP	50V 3.3nF		
C1816	ERJ6GEYJ153 S.M.CARB	0.1W 5% 15K Ω		
C1826	ERJ6GEYJ153 S.M.CARB	0.1W 5% 15K Ω		
C1836	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1838	ECUV1H101JCX S.M.CAP	50V 100pF		
C1843	ECUV1H472KBX S.M.CAP	50V 4.7nF		
C1845	ECUV1H560JCX S.M.CAP	50V 56pF		
C1849	ECKC1H102J CERAMIC	50V 1000pF		
C1851	ECUV1H470JCX S.M.CAP	50V 47pF		
C1852	ECUV1H390JCX S.M.CAP	50V 39pF		
C1853	ECUV1H390JCX S.M.CAP	50V 39pF		
C1857	ECUV1H560JCX S.M.CAP	50V 56pF		
C1859	ECUV1H560JCX S.M.CAP	50V 56pF		
C1871	ECUV1H103KBX S.M.CAP	50V 10nF		
C1879	ECUV1H560JCX S.M.CAP	50V 56pF		
C1888	ECUV1H103KBX S.M.CAP	50V 10nF		
C1891	ECUV1H102KBX S.M.CAP	50V 1nF		

Ref No.	Part No.	Description		
C1893	ECUV1H102KBX S.M.CAP	50V 1nF		
C1894	ECUV1H102KBX S.M.CAP	50V 1nF		
C1922	ECUV1H103KBX S.M.CAP	50V 10nF		
C1925	ECUV1H103KBX S.M.CAP	50V 10nF		
C1931	ECUV1H103KBX S.M.CAP	50V 10nF		
C1941	ECUV1H103KBX S.M.CAP	50V 10nF		
C1942	ECEA1CU470 ELECT	16V 47 μ F		
C1961	ECUV1H332KBX S.M.CAP	50V 3.3nF		
C1962	ECUV1H332KBX S.M.CAP	50V 3.3nF		
C1963	ECUV1H332KBX S.M.CAP	50V 3.3nF		
C1964	ECUV1H332KBX S.M.CAP	50V 3.3nF		
C1971	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1972	ECEA1CU470 ELECT	16V 47 μ F		
C1973	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1974	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1976	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1977	ECEA0JM471GB ELECT	6.3V 470pF		
C1981	ECUV1H104ZFX S.M.CAP	50V 100nF		
C1982	ECUV1H101JCX S.M.CAP	50V 100pF		
C3101	ECUV1H030CCX S.M.CAP	50V 30pF		
C3102	ECUV1H103ZFX S.M.CAP	50V 10nF		
C3103	ECEA1HU100 ELECT	50V 10 μ F		
C3122	ECUV1H102KBX S.M.CAP	50V 1nF		
C3124	ECUV1H471JCX S.M.CAP	50V 470pF		
C3131	ECKC2H471J CERAMIC	500V 470pF		△
C3134	ECEA1CU101 ELECT	16V 100 μ F		
C3136	ECKC2H471J CERAMIC	500V 470pF		△
C3139	ECEA1CU101 ELECT	16V 100 μ F		
C3141	ECEA1CU471 ELECT	16V 470 μ F		
C3143	ECEA1CU100 ELECT	16V 10 μ F		
C3144	ECEA1CU470 ELECT	16V 47 μ F		
C3146	ECEA2EU220 ELECT	250V 22 μ F		
C3152	ECEA2EU220 ELECT	250V 22 μ F		
C3153	ECEA1VM101GB ELECT	35V 100pF		
C3167	ECUV1H100DCX S.M.CAP	50V 10pF		
C3168	ECUV1H103ZFX S.M.CAP	50V 10nF		
C3169	ECEA1CU100 ELECT	16V 10 μ F		
C3177	ECUV1H150JCX S.M.CAP	50V 15pF		
C3178	ECUV1H103ZFX S.M.CAP	50V 10nF		
C3179	ECEA1CU100 ELECT	16V 10 μ F		
C3187	ECUV1H270JCX S.M.CAP	50V 27pF		
C3188	ECUV1H103ZFX S.M.CAP	50V 10nF		
C3189	ECEA1CU100 ELECT	16V 10 μ F		
C3356	ECEA1CM220GBELECT	16V 22 μ F		
C3357	ECUV1H104ZFX S.M.CAP	50V 100nF		
C3362	TACA1103P2KV I.C.			
C3363	TACA1103P2KV I.C.			
C3364	ECKC1H102J CERAMIC	50V 1000pF		
C3366	ECEA2EU220 ELECT	250V 22 μ F		
C3367	ECQM2104KZ FILM	250V 100nF		
C3369	ECEA1HU010 ELECT	50V 1 μ F		
C3371	ECUV1H150JCX S.M.CAP	50V 15pF		
C3373	ECUV1H104ZFX S.M.CAP	50V 100nF		
C3377	ECUV1H681JCX S.M.CAP	50V 680pF		
C3383	ECUV1H104ZFX S.M.CAP	50V 100nF		
C3387	ECUV1H681JCX S.M.CAP	50V 680pF		
C3392	ECEA1CM222GBELECT	16V 2200 μ F		
C3393	ECUV1H104ZFX S.M.CAP	50V 100nF		
C3397	ECUV1H681JCX S.M.CAP	50V 680pF		
C4701	ECUV1H151JCX S.M.CAP	50V 150pF		
C4702	ECUV1H331JCX S.M.CAP	50V 330pF		
C4703	ECEA1HKAR47 ELECT	50V 0.47 μ F		
C4704	ECUV1H104ZFX S.M.CAP	50V 100nF		
C4705	ECUV1H104ZFX S.M.CAP	50V 100nF		
C4706	ECUV1H104ZFX S.M.CAP	50V 100nF		
C4707	ECUV1H104ZFX S.M.CAP	50V 100nF		
C4708	ECEA1CKA100 ELECT	16V 10 μ F		
C4709	ECUV1H104ZFX S.M.CAP	50V 100nF		
C4710	ECEA1CKA100 ELECT	16V 10 μ F		
C4711	ECUV1H390JPX S.M.CAP	50V 39pF		

Ref No.	Part No.	Description	
C4712	ECUV1H150JCX S.M.CAP	50V 15pF	
C4713	ECUV1H104ZFX S.M.CAP	50V 100nF	
C4714	ECEA1EKA100 ELECT	25V 10μF	
C4715	ECUV1H104ZFX S.M.CAP	50V 100nF	
C4716	ECEA1CKA100 ELECT	16V 10μF	
C4717	ECUV1H683ZFX S.M.CAP	50V 68nF	
C4718	ECUV1H102KBX S.M.CAP	50V 1nF	
C4719	ECEA1HKAR47 ELECT	50V 0.47μF	
C4720	ECUV1H104ZFX S.M.CAP	50V 100nF	
C4721	ECEA1HKA2R2 ELECT	50V 2.2μF	
C4722	ECUV1H104ZFX S.M.CAP	50V 100nF	
C4723	ECUV1H104ZFX S.M.CAP	50V 100nF	
C4724	ECUV1H104ZFX S.M.CAP	50V 100nF	
C4725	ECUV1H104ZFX S.M.CAP	50V 100nF	
C4726	ECEA1CKA470 ELECT	16V 47μF	
C4729	ECUV1H102KBX S.M.CAP	50V 1nF	
C4730	ECUV1H102KBX S.M.CAP	50V 1nF	
C4733	ECUV1H270JFX S.M.CAP	50V 27pF	
C4742	ECUV1H100DCX S.M.CAP	50V 10pF	
C4744	ECUV1H100DCX S.M.CAP	50V 10pF	
C4745	ECUV1H102KBX S.M.CAP	50V 1nF	
C4746	ECUV1H104ZFX S.M.CAP	50V 100nF	
C4747	ECUV1H102KBX S.M.CAP	50V 1nF	
C4748	ECUV1H102KBX S.M.CAP	50V 1nF	
C4749	ECUV1H102KBX S.M.CAP	50V 1nF	
C4790	ECEA1HKA010 ELECT	50V 1μF	
C6101	ECEA1HM471GB ELECT	50V 470pF	
C6102	ECQM1H334J FILM	50V 330nF	
C6103	ECQM1H104J FILM	50V 100nF	
C6106	ECEA1HU101 ELECT	50V 100μF	
C6301	ECEA1CU470 ELECT	16V 47μF	
C6303	ECUV1H103ZFX S.M.CAP	50V 10nF	
C6401	ECEA1CU101 ELECT	16V 100μF	
C6402	ECEA1CU101 ELECT	16V 100μF	
C6403	ECUV1H103ZFX S.M.CAP	50V 10nF	
C6406	ECEA1HU4R7 ELECT	50V 4.7μF	
C6407	ECUV1H102KBX S.M.CAP	50V 1nF	
C6408	ECEA1HU4R7 ELECT	50V 4.7μF	
C6409	ECUV1H561JCX S.M.CAP	50V 560pF	
C6410	ECUV1H561JCX S.M.CAP	50V 560pF	
C6417	ECEA1CU471 ELECT	16V 470μF	
C6418	ECUV1H103ZFX S.M.CAP	50V 10nF	
C6436	ECEA1HU4R7 ELECT	50V 4.7μF	
C6437	ECUV1H102KBX S.M.CAP	50V 1nF	
C6438	ECEA1HU4R7 ELECT	50V 4.7μF	
C6447	ECEA1CU471 ELECT	16V 470μF	
C6448	ECUV1H103ZFX S.M.CAP	50V 10nF	
C6491	ECUV1H271JCX S.M.CAP	50V 270pF	
C6591	ECUV1H271JCX S.M.CAP	50V 270pF	
C6811	ECKCNS332J CERAMIC	1.2KV 3.3nF	△
C6812	ECQU2A154MN FILM	250V 150nF	
C6815	ECQU2A224MN FILM	250V 220nF	
C7000	ECKC2H472J CERAMIC	500V 4.7nF	△
C7003	ECKC2H472J CERAMIC	500V 4.7nF	△
C7004	ECOS2GA101BB ELECT	400V 100μF	
C7005	ECEA1CU221 ELECT	16V 220μF	
C7006	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7007	ECKC3D471JB CERAMIC	2KV 470pF	△
C7008	ECQM1H683J FILM	50V 68nF	
C7009	ECKC2H103J CERAMIC	50V 10nF	△
C7010	ECQM1H333J FILM	50V 33nF	
C7011	ECKCWS471J CERAMIC	500V 470pF	
C7012	ECEA1CU221 ELECT	16V 220μF	
C7013	ECUV1H330JCX S.M.CAP	50V 33pF	
C7014	ECUV1H330JCX S.M.CAP	50V 33pF	
C7015	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7016	ECEA1VM471GB ELECT	25V 470pF	
C7017	ECEA1EM102GB ELECT	25V 1nF	
C7018	ECEA1EM102GB ELECT	25V 1nF	
C7019	ECEA1EM102GB ELECT	25V 1nF	

Ref No.	Part No.	Description	
C7020	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7021	ECEA1HU010 ELECT	50V 1μF	
C7022	ECEA1HU010 ELECT	50V 1μF	
C7023	ECEA1HU010 ELECT	50V 1μF	
C7024	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7025	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7026	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7027	ECEA0JM221GB ELECT	6.3V 220pF	
C7028	ECEA0JM221GB ELECT	6.3V 220pF	
C7029	ECUV1H223KBX S.M.CAP	50V 22nF	
C7030	ECEA1HU100 ELECT	50V 10μF	
C7031	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7032	ECEA1CU470 ELECT	16V 47μF	
C7033	ECQM1H154J FILM	50V 150nF	
C7034	ECUV1H330JCX S.M.CAP	50V 33pF	
C7035	ECUV1H330JCX S.M.CAP	50V 33pF	
C7036	ECEA1HU4R7 ELECT	50V 4.7μF	
C7037	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7038	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7039	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7040	ECUV1H332KBX S.M.CAP	50V 3.3nF	
C7041	ECUV1H332KBX S.M.CAP	50V 3.3nF	
C7042	ECUV1H332KBX S.M.CAP	50V 3.3nF	
C7043	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7044	ECUV1H101JCX S.M.CAP	50V 100pF	
C7045	ECEA1CU470 ELECT	16V 47μF	
C7046	ECEA1CU470 ELECT	16V 47μF	
C7047	ECEA0JM471GB ELECT	6.3V 470pF	
C7048	ECUV1H104ZFX S.M.CAP	50V 100nF	
C7049	ECUV1H104ZFX S.M.CAP	50V 100nF	
C7050	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7051	ECEA1CU470 ELECT	16V 47μF	
C7052	ECUV1H221JCX S.M.CAP	50V 220pF	
C7053	ECUV1H101JCX S.M.CAP	50V 100pF	
C7054	ECUV1H101JCX S.M.CAP	50V 100pF	
C7055	ECUV1H101JCX S.M.CAP	50V 100pF	
C7056	ECUV1H101JCX S.M.CAP	50V 100pF	
C7057	ECEA1HN010 ELECT	50V 1μF	
C7058	ECEA1HU010 ELECT	50V 1μF	
C7059	ECEA1HU010 ELECT	50V 1μF	
C7060	ECUV1H300JCX S.M.CAP	50V 30pF	
C7061	ECUV1H104ZFX S.M.CAP	50V 100nF	
C7062	ECUV1H104ZFX S.M.CAP	50V 100nF	
C7063	ECUV1H562KBX S.M.CAP	50V 5.6nF	
C7064	ECUV1H104ZFX S.M.CAP	50V 100nF	
C7065	ECUV1H152KBX S.M.CAP	50V 1.5pF	
C7066	ECUV1H333KBX S.M.CAP	50V 33nF	
C7067	ECUV1H562KBX S.M.CAP	50V 5.6nF	
C7068	ECEA1CU101 ELECT	16V 100μF	
C7069	ECUV1H300JCX S.M.CAP	50V 30pF	
C7070	ECEA1CU101 ELECT	16V 100μF	
C7071	ECEA1HN010 ELECT	50V 1μF	
C7072	ECUV1H333KBX S.M.CAP	50V 33nF	
C7073	ECUV1H101JCX S.M.CAP	50V 100pF	
C7074	ECEA1CU470 ELECT	16V 47μF	
C7075	ECEA1CU470 ELECT	16V 47μF	
C7076	ECUV1H392KBX S.M.CAP	50V 3.9nF	
C7077	ECEA1CN100 ELECT	16V 10μF	
C7078	ECEA1CN100 ELECT	16V 10μF	
C7079	ECUV1H104ZFX S.M.CAP	50V 100nF	
C7080	ECEA1CM220GBELECT	16V 22μF	
C7081	ECUV1H333KBX S.M.CAP	50V 33nF	
C7082	ECUV1H562KBX S.M.CAP	50V 5.6nF	
C7083	ECUV1H333KBX S.M.CAP	50V 33nF	
C7084	ECUV1H562KBX S.M.CAP	50V 5.6nF	
C7085	ECEA1CM220GBELECT	16V 22μF	
C7086	ECUV1H103ZFX S.M.CAP	50V 10nF	
C7087	ECUV1H104ZFX S.M.CAP	50V 100nF	
C7088	ECEA1CU470 ELECT	16V 47μF	
C7089	ECUV1H562KBX S.M.CAP	50V 5.6nF	

Ref No.	Part No.	Description
C7090	ECUV1H152KBX S.M.CAP	50V 1.5pF
C7091	ECUV1H152KBX S.M.CAP	50V 1.5pF
C7092	ECUV1H561KBX S.M.CAP	50V 560pF
C7093	ECUV1H103ZFX S.M.CAP	50V 10nF
C7094	ECKC1H101J CERAMIC	50V 100pF
C7095	ECEA1HU010 ELECT	50V 1μF
C7097	ECEA1CU100 ELECT	16V 10μF
C7098	ECUV1H561JCX S.M.CAP	50V 560pF
C7099	ECUV1H272KBX S.M.CAP	50V 2.7nF
C7100	ECEA1CU470 ELECT	16V 47μF
C7101	ECUV1H272JCX S.M.CAP	50V 2.7nF
C7102	ECUV1H221JCX S.M.CAP	50V 220pF
C7103	ECEA1CU100 ELECT	16V 10μF
C7104	ECUV1H221JCX S.M.CAP	50V 220pF
C7105	ECUV1H392KBX S.M.CAP	50V 3.9nF
C7106	ECUV1H101JCX S.M.CAP	50V 100pF
C7107	ECUV1H392KBX S.M.CAP	50V 3.9nF
C7108	ECEA1HN010 ELECT	50V 1μF
C7109	ECUV1H104ZFX S.M.CAP	50V 100nF
C7110	ECUV1H104ZFX S.M.CAP	50V 100nF
C7111	ECUV1H392KBX S.M.CAP	50V 3.9nF
C7112	ECUV1H103ZFX S.M.CAP	50V 10nF
C7113	ECUV1H392KBX S.M.CAP	50V 3.9nF
C7114	ECUV1H152JCX S.M.CAP	50V 1.5pF
C7115	ECUV1H152JCX S.M.CAP	50V 1.5pF
C7116	ECUV1H103KBX S.M.CAP	50V 10nF
C7117	ECUV1H102JCX S.M.CAP	50V 1nF
C7118	ECEA1CN100 ELECT	16V 10μF
C7119	ECEA1CN100 ELECT	16V 10μF
C7120	ECEA1EM221GB ELECT	25V 220pF
C7121	ECEA1EU101 ELECT	25V 100μF
C7122	ECEA1EM221GB ELECT	25V 220pF
C7123	ECUV1H102KBX S.M.CAP	50V 1nF
C7124	ECUV1H103KBX S.M.CAP	50V 10nF
C7125	ECUV1H103ZFX S.M.CAP	50V 10nF
C7127	ECEA1VU222 ELECT	35V 2200μF
C7130	ECQM1H104J FILM	50V 100nF
C7131	ECEA1EM102GB ELECT	25V 1nF
C7132	ECQM1H104J FILM	50V 100nF
C7133	ECEA1EM102GB ELECT	25V 1nF
C7134	ECUV1H101JCX S.M.CAP	50V 100pF
C7135	ECUV1H221JCX S.M.CAP	50V 220pF
C7136	ECUV1H101JCX S.M.CAP	50V 100pF
C7137	ECUV1H103ZFX S.M.CAP	50V 10nF
C7138	ECEA1HU100 ELECT	50V 10μF
C7139	ECEA1HU100 ELECT	50V 10μF
C7140	ECEA1HU100 ELECT	50V 10μF
C7141	ECEA1HU100 ELECT	50V 10μF
C7142	ECEA1HU100 ELECT	50V 10μF
C7143	ECEA1CN100 ELECT	16V 10μF
C7144	ECEA1CN100 ELECT	16V 10μF
C7145	ECEA1CU100 ELECT	16V 10μF
C7146	ECEA1CU100 ELECT	16V 10μF
C7153	ECEA1CU100 ELECT	16V 10μF
C7154	ECUV1H103ZFX S.M.CAP	50V 10nF
C7155	ECEA1EM221GB ELECT	25V 220pF
C7156	ECUV1H332KBX S.M.CAP	50V 3.3nF
C7157	ECUV1H332KBX S.M.CAP	50V 3.3nF
C7158	ECUV1H332KBX S.M.CAP	50V 3.3nF

DIODES

D206	MA4300	DIODE
D465	MA165TA5	DIODE
D466	MA165TA5	DIODE
D467	MA165TA5	DIODE
D468	MA165TA5	DIODE
D471	MA700TA5	DIODE
D481	MA700TA5	DIODE
D491	MA167TA5	DIODE

Ref No.	Part No.	Description
D521	MA170	DIODE
D526	MA165TA5	DIODE
D527	EU02	DIODE
D536	ERB0615	DIODE TYPD0753VAG
D537	TVSRU2AM	DIODE
D544	TVSRC2V1	DIODE
D547	AU02V0	DIODE
D548	MA165TA5	DIODE
D549	MA167TA5	DIODE
D557	EU02	DIODE
D561	ERA15-02V3	DIODE
D562	MA165TA5	DIODE
D563	MA165TA5	DIODE
D566	MA2082ALFS	DIODE
D567	MA4062	DIODE
D568	MA2100LFS	DIODE
D569	MA2082ALFS	DIODE
D590	MA4360	DIODE
D613	RBV4-08	DIODE
D622	MA167TA5	DIODE
D624	BYT56K15/10	DIODE
D630	MA165TA5	DIODE
D636	MA167TA5	DIODE
D651	RG4CLFL1	DIODE
D656	EU02	DIODE
D661	ERD32-02L7	DIODE
D671	ERD32-02L7	DIODE
D674	MA4120	DIODE
D678	MA4027	DIODE
D681	EU02	DIODE
D686	RU4AMLF-M1	DIODE
D1019	PMLL5242B	DIODE
D1020	PMLL5242B	DIODE
D1023	PMLL5242B	DIODE
D1024	PMLL5242B	DIODE
D1033	PMLL5242B	DIODE
D1034	PMLL5242B	DIODE
D1036	PMLL5242B	DIODE
D1038	PMLL5242B	DIODE
D1070	PMLL5242B	DIODE
D1080	PMLL4148L	DIODE
D1081	PMLL4148L	DIODE
D1082	PMLL4148L	DIODE
D1090	PMLL5242B	DIODE
D1121	PMLL5242B	DIODE
D1123	PMLL5242B	DIODE
D1156	PMLL5242B	DIODE
D1158	PMLL5242B	DIODE
D1172	PMLL5242B	DIODE
D1221	PMLL5232B	DIODE
D1222	PMLL5232B	DIODE
D1270	PMLL5242B	DIODE
D1273	PMLL5242B	DIODE
D1282	PMLL5242B	DIODE
D1284	PMLL5242B	DIODE
D1381	PMLL5239B	DIODE
D1382	PMLL4148L	DIODE
D1601	RLS72TE-11	DIODE
D1614	RLS72TE-11	DIODE
D1617	PMLL4148L	DIODE
D1623	PMLL4148L	DIODE
D1624	PMLL4148L	DIODE
D1672	PMLL4148L	DIODE
D1681	PMLL4148L	DIODE
D1682	PMLL4148L	DIODE
D1717	RLS72TE-11	DIODE
D1941	PMLL5232B	DIODE
D3126	PMLL4148L	DIODE
D3127	PMLL4148L	DIODE
D3133	PMLL4148L	DIODE
D3138	PMLL4148L	DIODE

Ref No.	Part No.	Description
D3368	PMLL4148L	DIODE
D3372	MA165TA5	DIODE
D3373	PMLL4148L	DIODE
D3374	PMLL4148L	DIODE
D3377	PMLL4148L	DIODE
D3382	MA165TA5	DIODE
D3383	PMLL4148L	DIODE
D3384	PMLL4148L	DIODE
D3387	PMLL4148L	DIODE
D3391	MA165TA5	DIODE
D3392	MA165TA5	DIODE
D3393	PMLL4148L	DIODE
D3394	PMLL4148L	DIODE
D3397	PMLL4148L	DIODE
D6101	TVSS1WBS10	DIODE
D6103	PMLL4148L	DIODE
D6106	PMLL4148L	DIODE
D6301	SLR56UR3FCF4	L.E.D.
D6381	PMLL4148L	DIODE
D6382	PMLL4148L	DIODE
D6391	PMLL4148L	DIODE
D6392	PMLL4148L	DIODE
D6491	PMLL4148L	DIODE
D6492	PMLL4148L	DIODE
D6591	PMLL4148L	DIODE
D6592	PMLL4148L	DIODE
D7000	TVSRM10B	DIODE
D7001	TVSRM10B	DIODE
D7002	TVSRM10B	DIODE
D7003	TVSRM10B	DIODE
D7004	TVSEH1V0	DIODE
D7005	EU02	DIODE
D7006	EG01CV0	DIODE
D7007	RU4AMLF-M1	DIODE
D7008	TVSEU2ZV0	DIODE
D7009	TVSEU2ZV0	DIODE
D7010	ERD32-02L7	DIODE
D7011	PMLL4148L	DIODE
D7012	PMLL4148L	DIODE
D7013	PMLL4148L	DIODE
D7014	PMLL4148L	DIODE
D7015	PMLL4148L	DIODE
D7016	PMLL4148L	DIODE
D7017	PMLL4148L	DIODE
D7018	PMLL4148L	DIODE
D7019	PMLL4148L	DIODE
D7020	PMLL4148L	DIODE
D7021	PMLL4148L	DIODE
D7022	MA1075MTR	DIODE
D7024	PMLL4148L	DIODE
D7025	PMLL4148L	DIODE
FUSES		
F547	TR5-T2000	FUSE
F656	TR5-T1250	FUSE
F661	TR5-T2000	FUSE
F671	TR5-T2000	FUSE
F6811	2153.15H	FUSE
F68111	EYF52BC	FUSE HOLDER
F68112	EYF52BC	FUSE HOLDER
SOCKETS		
H1871	832AG11D-ESL	I.C.SOCKET

Ref No.	Part No.	Description
INTEGRATED CIRCUITS		
I466	LA4282	AUDIO OUTPUT
I561	TDA8175-3	VERTICAL OUTPUT
I611	TDA4605-3	SWITCHABLE POWER SUPPLY
I646	L78M09MRB	9V REGULATOR
I661	LM317T	12V REGULATOR
I676	TL431ACLP	COIL
I1011	TEA6420	AUDIO SWITCH
I1111	TEA6415C	VIDEO SWITCH
I1301	MSP3400	AUDIO PROCESSOR
I1351	AN78L08TA	8V REGULATOR
I1601	VDP3108-29	VIDEO PROCESSOR
I1701	TPU3040-20	TEXT PROCESSOR
I1751	81C1000A-70P	DRAM
I1801	CCU3000I-05	CENTRAL CONTROL UNIT
I1802	MN1280R	RESET
I1871	27C010-07A2D	EPROM
I1941	X24C16P-E1PC	EAROM
I1981	MN1280R	RESET
I4700	LA7577N	V.I.F.
I4701	AN78N12	12V REGULATOR
I6101	AN78L05TA	5V REGULATOR
I6301	RPM-637CBRS1	LED RECEIVER
I7000	STR10006-M	SWITCHABLE POWER SUPPLY
I7001	L78M12MRB	12V REGULATOR
I7002	AN79M12LB1	12V REGULATOR
I7003	L78M05MRB	5V REGULATOR
I7004	HEF4066BT-T	SWITCHING I.C.
I7005	51832AFL10EL	STATIC RAM
I7006	HEF4066BT-T	SWITCHING I.C.
I7007	HEF4066BT-T	SWITCHING I.C.
I7008	YSS215-F	DOLBY PROCESSOR
I7009	AN6554NSF-E2	OPERATIONAL AMPLIFIER
I7010	AN6554NSF-E2	OPERATIONAL AMPLIFIER
I7011	AN6554NSF-E2	OPERATIONAL AMPLIFIER
I7012	TEA6330T	VOLUME CONTROL
I7013	TEA6330T	VOLUME CONTROL
I7014	AN6554NSF-E2	OPERATIONAL AMPLIFIER
I7015	AN78L08TA	8V REGULATOR
I7016	SC419014FB	MICRO PROCESSOR
I7017	TDA7262	AUDIO OUTPUT
I7018	MN1280R	RESET
TERMINALS AND LINKS		
JC1001	ERJ8GEY0R00	WIRE LINK
JC1002	ERJ8GEY0R00	WIRE LINK
JC1003	ERJ8GEY0R00	WIRE LINK
JC1004	ERJ8GEY0R00	WIRE LINK
JC1005	ERJ6GEY0R00	WIRE LINK
JC1006	ERJ6GEY0R00	WIRE LINK
JC1007	ERJ8GEY0R00	WIRE LINK
JC1008	ERJ8GEY0R00	WIRE LINK
JC1009	ERJ8GEY0R00	WIRE LINK
JC1010	ERJ8GEY0R00	WIRE LINK
JC1011	ERJ8GEY0R00	WIRE LINK
JC1012	ERJ6GEY0R00	WIRE LINK
JC1013	ERJ6GEY0R00	WIRE LINK
JC1014	ERJ8GEY0R00	WIRE LINK
JC1015	ERJ6GEY0R00	WIRE LINK
JC1016	ERJ8GEY0R00	WIRE LINK
JC1017	ERJ8GEY0R00	WIRE LINK
JC1018	ERJ8GEY0R00	WIRE LINK
JC1019	ERJ6GEY0R00	WIRE LINK
JC1020	ERJ8GEY0R00	WIRE LINK
JC1021	ERJ8GEY0R00	WIRE LINK
JC1022	ERJ8GEY0R00	WIRE LINK
JC1023	ERJ8GEY0R00	WIRE LINK
JC1024	ERJ6GEY0R00	WIRE LINK

Ref No.	Part No.	Description
JC1025	ERJ8GEY0R00	WIRE LINK
JC1026	ERJ8GEY0R00	WIRE LINK
JC1027	ERJ6GEY0R00	WIRE LINK
JC1029	ERJ8GEY0R00	WIRE LINK
JC1030	ERJ6GEY0R00	WIRE LINK
JC1031	ERJ6GEY0R00	WIRE LINK
JC1032	ERJ6GEY0R00	WIRE LINK
JC1033	ERJ8GEY0R00	WIRE LINK
JC1034	ERJ8GEY0R00	WIRE LINK
JC1035	ERJ6GEY0R00	WIRE LINK
JC1036	ERJ8GEY0R00	WIRE LINK
JC1037	ERJ8GEY0R00	WIRE LINK
JC1040	ERJ8GEY0R00	WIRE LINK
JC1041	ERJ8GEY0R00	WIRE LINK
JC1042	ERJ8GEY0R00	WIRE LINK
JC1043	ERJ8GEY0R00	WIRE LINK
JC1044	ERJ8GEY0R00	WIRE LINK
JC1045	ERJ6GEY0R00	WIRE LINK
JC1047	ERJ8GEY0R00	WIRE LINK
JC1048	ERJ6GEY0R00	WIRE LINK
JC1049	ERJ8GEY0R00	WIRE LINK
JC1050	ERJ8GEY0R00	WIRE LINK
JC1051	ERJ6GEY0R00	WIRE LINK
JC1052	ERJ8GEY0R00	WIRE LINK
JC1053	ERJ8GEY0R00	WIRE LINK
JC1054	ERJ8GEY0R00	WIRE LINK
JC1055	ERJ6GEY0R00	WIRE LINK
JC1056	ERJ6GEY0R00	WIRE LINK
JC1057	ERJ6GEY0R00	WIRE LINK
JC1058	ERJ8GEY0R00	WIRE LINK
JC1059	ERJ8GEY0R00	WIRE LINK
JC1060	ERJ6GEY0R00	WIRE LINK
JC1061	ERJ8GEY0R00	WIRE LINK
JC1062	ERJ8GEY0R00	WIRE LINK
JC1064	ERJ6GEY0R00	WIRE LINK
JC1065	ERJ8GEY0R00	WIRE LINK
JC1066	ERJ6GEY0R00	WIRE LINK
JC1067	ERJ6GEY0R00	WIRE LINK
JC1068	ERJ6GEY0R00	WIRE LINK
JC1069	ERJ8GEY0R00	WIRE LINK
JC1070	ERJ6GEY0R00	WIRE LINK
JC1071	ERJ6GEY0R00	WIRE LINK
JC1072	ERJ6GEY0R00	WIRE LINK
JC1073	ERJ8GEY0R00	WIRE LINK
JC1074	ERJ6GEY0R00	WIRE LINK
JC1075	ERJ6GEY0R00	WIRE LINK
JC1076	ERJ6GEY0R00	WIRE LINK
JC1077	ERJ8GEY0R00	WIRE LINK
JC1078	ERJ6GEY0R00	WIRE LINK
JC1079	ERJ8GEY0R00	WIRE LINK
JC1080	ERJ8GEY0R00	WIRE LINK
JC1081	ERJ8GEY0R00	WIRE LINK
JC1082	ERJ8GEY0R00	WIRE LINK
JC1083	ERJ8GEY0R00	WIRE LINK
JC1084	ERJ6GEY0R00	WIRE LINK
JC1085	ERJ6GEY0R00	WIRE LINK
JC1086	ERJ6GEY0R00	WIRE LINK
JC1087	ERJ6GEY0R00	WIRE LINK
JC1088	ERJ6GEY0R00	WIRE LINK
JC1089	ERJ8GEY0R00	WIRE LINK
JC1090	ERJ6GEY0R00	WIRE LINK
JC1091	ERJ6GEY0R00	WIRE LINK
JC1092	ERJ8GEY0R00	WIRE LINK
JC1093	ERJ8GEY0R00	WIRE LINK
JC1094	ERJ8GEY0R00	WIRE LINK
JC1095	ERJ8GEY0R00	WIRE LINK
JC1096	ERJ6GEY0R00	WIRE LINK
JC1097	ERJ6GEY0R00	WIRE LINK
JC1098	ERJ8GEY0R00	WIRE LINK
JC1099	ERJ8GEY0R00	WIRE LINK
JC1100	ERJ8GEY0R00	WIRE LINK

Ref No.	Part No.	Description
JC1101	ERJ8GEY0R00	WIRE LINK
JC1102	ERJ8GEY0R00	WIRE LINK
JC1103	ERJ6GEY0R00	WIRE LINK
JC1104	ERJ8GEY0R00	WIRE LINK
JC1105	ERJ8GEY0R00	WIRE LINK
JC1106	ERJ8GEY0R00	WIRE LINK
JC1107	ERJ8GEY0R00	WIRE LINK
JC1108	ERJ8GEY0R00	WIRE LINK
JC1109	ERJ6GEY0R00	WIRE LINK
JC1112	ERJ6GEY0R00	WIRE LINK
JC1113	ERJ6GEY0R00	WIRE LINK
JC1114	ERJ8GEY0R00	WIRE LINK
JC1115	ERJ6GEY0R00	WIRE LINK
JC1116	ERJ6GEY0R00	WIRE LINK
JC1117	ERJ6GEY0R00	WIRE LINK
JC1118	ERJ6GEY0R00	WIRE LINK
JC1119	ERJ6GEY0R00	WIRE LINK
JC1121	ERJ6GEY0R00	WIRE LINK
JC1122	ERJ6GEY0R00	WIRE LINK
JC1123	ERJ6GEY0R00	WIRE LINK
JK6401	TJB8E012	AV TERMINAL
JS7002	ERJ6GEY0R00	WIRE LINK
J2	ERJ6GEY0R00	WIRE LINK
J12	EXCELSA39V	COIL
J23	EXCELSA39V	COIL

COILS

L202	ELER220KA	COIL
L204	ELER220KA	COIL
L230	EXCELSA24T	COIL
L538	297-23293	COIL
L541	ELH5L421	COIL
L542	ELC08D055	COIL
L594	297-017696	COIL
L624	EXCELSA35T	COIL
L626	EXCELD35C	COIL
L650	EXCELD35C	COIL
L661	EXCELD35V	COIL
L671	EXCELD35V	COIL
L686	EXCELSA35T	COIL
L1037	TSC925-4	CHOKE
L1301	EXCELD35V	COIL
L1303	EXCELD35V	COIL
L1351	ELEV4R7KA	COIL
L1413	ELEV6R8KA	COIL
L1601	ELEV4R7KA	COIL
L1606	EXCELD35V	COIL
L1611	ELEV4R7KA	COIL
L1619	EXCELD35V	COIL
L1622	ELEV4R7KA	COIL
L1634	EXCEMT101BT	COIL
L1644	EXCEMT101BT	COIL
L1652	ELEV4R7KA	COIL
L1654	EXCEMT101BT	COIL
L1687	ELEMV1R5MA	COIL
L1691	EXCEMT101BT	COIL
L1692	EXCEMT101BT	COIL
L1693	EXCEMT101BT	COIL
L1694	EXCEMT101BT	COIL
L1701	ELEV4R7KA	COIL
L1714	EXCELD35V	COIL
L1751	EXCELD35V	COIL
L1801	ELEV4R7KA	COIL
L1837	EXCELD35V	COIL
L1845	ELEV3R3KA	COIL
L1857	ELEV3R3KA	COIL
L1859	ELEV3R3KA	COIL
L1871	EXCELD35V	COIL
L1878	ELEV3R3KA	COIL

Ref No.	Part No.	Description
L1888	ELEV4R7KA	COIL
L1931	ELEV4R7KA	COIL
L1941	EXCELD35V	COIL
L1972	EXCELD35V	COIL
L1974	EXCELD35V	COIL
L1977	EXCELD35V	COIL
L3161	SDL-4101	COIL
L3171	SDL-4101	COIL
L3181	SDL-4101	COIL
L4701	ELESNR47KA	COIL
L4704	ELESN2R2KA	COIL
L4705	EIV7EN200B	COIL
L4706	EIV7EN201B	COIL
L4707	ELESN100KA	COIL
L6403	ELEBT6R8KA	COIL
L6404	ELEBT6R8KA	COIL
L6417	ELEBT6R8KA	COIL
L6447	ELEBT6R8KA	COIL
L6811	ELF18D424F	COIL
L6812	ELF18D424F	COIL
L7000	ELF18D281A	COIL
L7002	TLT100K991R	COIL
L7003	TLT100K991R	COIL
L7004	TLT100K991R	COIL
L7007	5770206400	COIL
L7008	5770206400	COIL
L7009	5770206400	COIL
L7010	5770206400	COIL
L7011	5770206400	COIL
CONTROLS		
P633	EVMEASA00B52	CONTROL 500Ω
P3362	RH092GDJ6J	VARIABLE RESISTOR
P3368	EVN65UA00B24	CONTROL 20KΩ
P4701	EVNDXAA03B53	CONTROL 5KΩ
TRANSISTORS		
Q463	BC557B	TRANSISTOR
Q465	BC547B	TRANSISTOR
Q494	BC547B	TRANSISTOR
Q496	BC547B	TRANSISTOR
Q497	BC557B	TRANSISTOR
Q498	BC547B	TRANSISTOR
Q526	2SD836-AL	TRANSISTOR
Q534	BU2508AXRL	TRANSISTOR
Q591	BC557B	TRANSISTOR
Q592	BC557B	TRANSISTOR
Q593	BC547B	TRANSISTOR
Q594	2SD1265A	TRANSISTOR
Q624	2SK1118LB	TRANSISTOR
Q651	TFD312SOF632	DIODE
Q667	BC547B	TRANSISTOR
Q674	BUZ71AF1	TRANSISTOR
Q681	BC557B	TRANSISTOR
Q682	2SA1535LB	TRANSISTOR
Q1071	BC817-25	TRANSISTOR
Q1091	BC817-25	TRANSISTOR
Q1123	BC847B	TRANSISTOR
Q1163	BC847B	TRANSISTOR
Q1167	BC857B	TRANSISTOR
Q1172	BC847B	TRANSISTOR
Q1182	BC847B	TRANSISTOR
Q1192	BC847B	TRANSISTOR
Q1221	BC847B	TRANSISTOR
Q1222	BC847B	TRANSISTOR
Q1382	BC857B	TRANSISTOR

Ref No.	Part No.	Description
Q1466	BC860B	TRANSISTOR
Q1476	BC860B	TRANSISTOR
Q1486	BC860B	TRANSISTOR
Q1496	BC860B	TRANSISTOR
Q1612	BC847B	TRANSISTOR
Q1631	BC847B	TRANSISTOR
Q1633	BC847B	TRANSISTOR
Q1636	BC857B	TRANSISTOR
Q1641	BC847B	TRANSISTOR
Q1643	BC847B	TRANSISTOR
Q1646	BC857B	TRANSISTOR
Q1651	BC847B	TRANSISTOR
Q1653	BC847B	TRANSISTOR
Q1656	BC857B	TRANSISTOR
Q1663	BC847B	TRANSISTOR
Q1664	BC847B	TRANSISTOR
Q1667	BC847B	TRANSISTOR
Q1673	BC847B	TRANSISTOR
Q1812	BC847B	TRANSISTOR
Q1816	BC847B	TRANSISTOR
Q1822	BC847B	TRANSISTOR
Q1824	BC847B	TRANSISTOR
Q1827	BC857B	TRANSISTOR
Q1831	BC847B	TRANSISTOR
Q3108	BC847B	TRANSISTOR
Q3109	BC847B	TRANSISTOR
Q3111	BC857B	TRANSISTOR
Q3122	BC847B	TRANSISTOR
Q3126	BC847B	TRANSISTOR
Q3127	BC857B	TRANSISTOR
Q3131	2SB940APLB	TRANSISTOR
Q3136	2SD1264APLB	TRANSISTOR
Q3143	BC847B	TRANSISTOR
Q3162	BC857B	TRANSISTOR
Q3164	BC847B	TRANSISTOR
Q3166	BC857B	TRANSISTOR
Q3169	BC857B	TRANSISTOR
Q3172	BC857B	TRANSISTOR
Q3174	BC847B	TRANSISTOR
Q3176	BC857B	TRANSISTOR
Q3179	BC857B	TRANSISTOR
Q3182	BC857B	TRANSISTOR
Q3184	BC847B	TRANSISTOR
Q3186	BC857B	TRANSISTOR
Q3189	BC857B	TRANSISTOR
Q3359	BC847B	TRANSISTOR
Q3368	2SB710A-XR	TRANSISTOR
Q3371	BC857B	TRANSISTOR
Q3373	2SC4714RL2	TRANSISTOR
Q3374	2SC3063RL	TRANSISTOR
Q3377	2SA1698RL	TRANSISTOR
Q3381	BC857B	TRANSISTOR
Q3383	2SC4714RL2	TRANSISTOR
Q3384	2SC3063RL	TRANSISTOR
Q3387	2SA1698RL	TRANSISTOR
Q3391	BC857B	TRANSISTOR
Q3392	2SA1309ATA	TRANSISTOR
Q3393	2SC4714RL2	TRANSISTOR
Q3394	2SC3063RL	TRANSISTOR
Q3397	2SA1698RL	TRANSISTOR
Q4701	BC847B	TRANSISTOR
Q4702	BC847B	TRANSISTOR
Q4703	BC847B	TRANSISTOR
Q4704	BF370-126	TRANSISTOR
Q4705	BF370-126	TRANSISTOR
Q6111	BC847B	TRANSISTOR
Q6114	BC847B	TRANSISTOR
Q6403	BC847B	TRANSISTOR
Q6413	BC847B	TRANSISTOR
Q6417	BC857B	TRANSISTOR
Q6433	BC847B	TRANSISTOR

Ref No.	Part No.	Description
Q6443	BC847B	TRANSISTOR
Q6447	BC857B	TRANSISTOR
Q7001	BC847B	TRANSISTOR
Q7002	BC847B	TRANSISTOR
Q7003	BC847B	TRANSISTOR
Q7004	BC847B	TRANSISTOR
Q7005	BC847B	TRANSISTOR
Q7007	BC847B	TRANSISTOR
Q7008	BC847B	TRANSISTOR
Q7009	BC847B	TRANSISTOR
Q7010	BC847B	TRANSISTOR
Q7011	BC847B	TRANSISTOR
Q7012	BC857B	TRANSISTOR
Q7013	BC857B	TRANSISTOR

RESISTOR

RL6101	TSE10818	RELAY			
R201	ERD25TJ223	CARBON	0.25W	5%	22KΩ
R206	ERG2ANJ223	METAL	2W	5%	22KΩ
R259	ERD25TJ473	CARBON	0.25W	5%	47KΩ
R462	ERD25TJ101	CARBON	0.25W	5%	100Ω
R463	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R466	ERD25TJ153	CARBON	0.25W	5%	15KΩ
R470	ERD25TJ560	CARBON	0.25W	5%	56Ω
R471	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R472	ERD25TJ333	CARBON	0.25W	5%	33KΩ
R473	ERD25TJ270	CARBON	0.25W	5%	27Ω
R477	ERD25TJ684	CARBON	0.25W	5%	680KΩ
R478	ERD25TJ332	CARBON	0.25W	5%	3K3Ω
R479	ERDS1TJ2R2	CARBON	0.5W	5%	2.2Ω
R480	ERD25TJ560	CARBON	0.25W	5%	56Ω
R481	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R482	ERD25TJ333	CARBON	0.25W	5%	33KΩ
R483	ERD25TJ270	CARBON	0.25W	5%	27Ω
R484	ERD25TJ273	CARBON	0.25W	5%	27KΩ
R485	ERD25TJ561	CARBON	0.25W	5%	560Ω
R486	ERD25TJ333	CARBON	0.25W	5%	33KΩ
R487	ERD25TJ684	CARBON	0.25W	5%	680KΩ
R488	ERD25TJ332	CARBON	0.25W	5%	3K3Ω
R489	ERDS1TJ2R2	CARBON	0.5W	5%	2.2Ω
R490	ERD25TJ563	CARBON	0.25W	5%	56KΩ
R491	ERQ14AJ100	METAL	0.25W	5%	10Ω ▲
R492	ERD25TJ102	CARBON	0.25W	5%	1KΩ
R493	ERD25TJ473	CARBON	0.25W	5%	47KΩ
R494	ERD25TJ684	CARBON	0.25W	5%	680KΩ
R496	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R497	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R498	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R499	ERD25TJ473	CARBON	0.25W	5%	47KΩ
R521	ERQ14AJ3R3	METAL	0.25W	5%	3R3Ω ▲
R526	ERD25TJ560	CARBON	0.25W	5%	56Ω
R527	ERDS1TJ152	CARBON	0.5W	5%	1K5Ω
R528	ERDS1TJ152	CARBON	0.5W	5%	1K5Ω
R531	ERF10ZK4R7	WOUND	10W	5%	4R7Ω ▲
R532	ERW2PKR56	WIRE	2W	10%	R56Ω ▲
R533	ERDS1TJ220	CARBON	0.5W	5%	22Ω
R541	ERG1ANJ152	METAL	1W	5%	1K5Ω
R542	ERQ12AJ101	FUSIBLE	0.5W	5%	100Ω ▲
R543	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R546	ERDS1TJ184	CARBON	0.5W	5%	180K
R548	ERD25TJ223	CARBON	0.25W	5%	22KΩ
R549	ERDS1TJ224	CARBON	0.5W	5%	220KΩ
R557	ERQ12HKR22	FUSIBLE	0.5W	5%	R22Ω ▲
R559	ERDS1TJ100	CARBON	0.5W	5%	10Ω
R561	ERQ12HJ1R5	FUSIBLE	0.5W	5%	1R5Ω ▲
R563	ERD25TJ104	CARBON	0.25W	5%	100KΩ
R564	ERD25TJ223	CARBON	0.25W	5%	22KΩ
R566	ERD25TJ472	CARBON	0.25W	5%	4K7Ω

Ref No.	Part No.	Description
R567	ERD25TJ472	CARBON 0.25W 5% 4K7Ω
R568	ERD25TJ1R5	CARBON 0.25W 5% 1R5Ω
R569	ERDS1TJ821	CARBON 0.5W 5% 820Ω
R570	ERG2SJ102	METAL 2W 5% 1K0Ω
R572	ERO25CKF1801	METAL 0.25W 1% 1K8Ω ▲
R573	ERO25CKF1801	METAL 0.25W 1% 1K8Ω ▲
R574	ERW12PKR68	WIREWOUND 0.5W 10% R68Ω ▲
R576	ERD25TJ223	CARBON 0.25W 5% 22KΩ
R577	ERD25TJ223	CARBON 0.25W 5% 22KΩ
R578	ERD25TJ680	CARBON 0.25W 5% 68Ω
R579	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R580	ERG1SJ561	METAL 1W 5% 560Ω
R581	ERG2FJ221	METAL 2W 5% 220Ω ▲
R583	ERD25TJ472	CARBON 0.25W 5% 4K7Ω
R590	ERD25TJ224	CARBON 0.25W 5% 220KΩ
R591	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R592	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R593	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R594	ERD25TJ104	CARBON 0.25W 5% 100KΩ
R595	ERD25TJ472	CARBON 0.25W 5% 4K7Ω
R596	ERD25TJ563	CARBON 0.25W 5% 56KΩ
R598	ERD25TJ102	CARBON 0.25W 5% 1KΩ
R613	ERF10ZK5R6	WIRE 10W 5% 5R6Ω ▲
R614	ERDS1TJ394	CARBON 0.5W 5% 390KΩ
R616	ERC12GK154D	SOLID 0.5W 10% 150KΩ
R619	232266296706	THERMISTOR
R621	ERG2FJ183	METAL 0.5W 5% 18KΩ ▲
R622	ERDS1TJ394	CARBON 0.5W 5% 390KΩ
R623	ERD25TJ472	CARBON 0.25W 5% 4K7Ω
R624	ERD25TJ121	CARBON 0.25W 5% 120Ω
R625	ERC12GK154D	SOLID 0.5W 10% 150KΩ
R626	ERG2FJ183	METAL 0.5W 5% 18KΩ ▲
R627	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R628	ERG3FJ393	METAL 0.25W 5% 39KΩ ▲
R629	ERG1ANJ470	METAL 1W 5% 47Ω
R630	ERD25TJ270	CARBON 0.25W 5% 27Ω
R631	ERD25TJ101	CARBON 0.25W 5% 100Ω
R632	ERO25CKF1400	METAL 0.25W 1% 140Ω ▲
R633	ERO25CKF3921	METAL 0.25W 1% 3R92KΩ ▲
R634	ERDS1TJ1R5	CARBON 0.5W 5% 1R5Ω
R636	ERD25TJ473	CARBON 0.25W 5% 47KΩ
R639	ERD75TAJ825	CARBON 0.75W 5% 8M2Ω ▲
R651	ERDS1TJ474	CARBON 0.5W 5% 470KΩ
R666	ERO25CKF3301	METAL 0.25W 1% 3K3Ω ▲
R667	ERO25CKF3900	METAL 0.25W 1% 3R9KΩ ▲
R668	ERD25TJ103	CARBON 0.25W 5% 10KΩ
R674	ERD25TJ223	CARBON 0.25W 5% 22KΩ
R675	ERD25TJ155	CARBON 0.25W 5% 1M5Ω
R676	ERO25CKF1002	METAL 0.25W 1% 10KΩ ▲
R677	ERO25CKF1002	METAL 0.25W 1% 10KΩ ▲
R678	ERD25TJ121	CARBON 0.25W 5% 120Ω
R680	ERQ12HJ1R5	FUSIBLE 0.5W 5% 1R5Ω ▲
R681	ERDS1TJ4R7	CARBON 0.5W 5% 4R7Ω
R682	ERD25TJ222	CARBON 0.25W 5% 2K2Ω
R683	ERG3FJ101	METAL 3W 5% 100Ω ▲
R684	ERD25TJ682	CARBON 0.25W 5% 6K8Ω
R686	NKS2	FUSIBLE 0.25W 5% 0.1Ω
R688	NKS2	FUSIBLE 0.25W 5% 0.1Ω
R1001	ERQ14AJ3R3	METAL 0.25W 5% 3R3Ω ▲
R1011	ERQ14AJ100	METAL 0.25W 5% 10Ω ▲
R1019	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1020	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1021	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R1022	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R1023	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1024	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1031	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R1032	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R1033	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1034	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω

Ref No.	Part No.	Description				
R1036	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1038	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1041	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1042	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1071	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ	
R1072	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1073	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω	
R1074	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R1091	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ	
R1092	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1093	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω	
R1094	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R1095	ERJ6GEYJ474	S.M.CARB	0.1W	5%	470KΩ	
R1116	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R1117	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1121	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1122	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1123	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R1124	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R1125	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R1126	ERQ14AJ100	METAL	0.25W	5%	10Ω	Δ
R1127	ERJ6GEY0R00	WIRE LINK				
R1131	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1132	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R1133	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R1151	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1152	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R1153	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R1156	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R1158	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1159	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1161	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8Ω	
R1162	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ	
R1163	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R1166	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R1167	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1168	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω	
R1169	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R1171	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1172	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R1173	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R1174	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R1177	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560Ω	
R1178	ERQ14AJ100	METAL	0.25W	5%	10Ω	Δ
R1181	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R1182	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1183	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω	
R1184	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R1185	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R1191	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R1192	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1193	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω	
R1194	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R1195	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1221	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ	
R1222	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ	
R1225	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1237	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R1241	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R1242	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R1251	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1270	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R1271	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1272	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1273	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R1276	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R1277	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R1281	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R1282	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1283	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	

Ref No.	Part No.	Description				
R1284	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1349	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ	
R1381	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ	
R1382	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ	
R1386	ERJ6GEY0R00	WIRE LINK				
R1412	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R1464	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1465	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KΩ	
R1466	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R1467	ERJ6GEY0R00	WIRE LINK				
R1474	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1476	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R1477	ERJ6GEY0R00	WIRE LINK				
R1484	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1486	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R1487	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R1494	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1496	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R1497	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R1608	ERJ6GEY0R00	WIRE LINK				
R1612	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1613	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56Ω	
R1614	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330Ω	
R1615	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω	
R1616	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R1617	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ	
R1618	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R1619	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R1621	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R1622	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R1623	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ	
R1624	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ	
R1626	ECUV1H151JCX	S.M.CAP	50V	150pF		
R1627	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1630	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1631	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω	
R1632	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω	
R1633	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1634	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R1636	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1637	ERJ8GEYJ471	S.M.CAR	0.125W	5%	470Ω	
R1641	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820Ω	
R1642	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω	
R1643	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1644	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R1646	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1647	ERJ8GEYJ471	S.M.CAR	0.125W	5%	470Ω	
R1652	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390Ω	
R1653	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1654	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R1656	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1657	ERJ8GEYJ471	S.M.CAR	0.125W	5%	470Ω	
R1661	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1664	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1666	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1667	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ	
R1669	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1670	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1671	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1672	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1673	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R1674	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1681	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R1682	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ	
R1683	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R1691	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1692	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1693	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1694	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω	
R1696	ERJ8GEYJ103	S.M.CAR	0.125W	5%	10KΩ	
R1698	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	

Ref No.	Part No.	Description
R1717	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1718	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1719	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1753	ERJ6GEY0R00	WIRE LINK
R1807	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R1808	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1809	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1811	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1812	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1815	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1816	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1819	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1821	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1822	ERJ6GEYJ392	S.M.CARB 0.1W 5% 3K9Ω
R1823	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1824	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R1825	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1826	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R1827	ERJ6GEYJ393	S.M.CARB 0.1W 5% 39KΩ
R1828	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1829	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R1831	ERJ6GEYJ392	S.M.CARB 0.1W 5% 3K9Ω
R1832	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1837	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6Ω
R1838	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R1840	ERJ6GEY0R00	WIRE LINK
R1842	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1843	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1844	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1845	ERJ6GEYJ470	S.M.CARB 0.1W 5% 47Ω
R1847	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1849	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1850	ERJ6GEY0R00	WIRE LINK
R1851	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1856	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1857	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1858	ERJ8GEYJ562	S.M.CARB0.125W 5% 5K6Ω
R1859	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1863	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1872	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1873	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1878	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1879	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1882	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1884	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R1885	ERJ8GEY0R00	WIRE LINK
R1886	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R1887	ERJ6GEY0R00	WIRE LINK
R1888	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1889	ERJ8GEY0R00	WIRE LINK
R1893	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1897	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1920	ERJ8GEYJ223	S.M.CARB0.125W 5% 22KΩ
R1921	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R1922	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R1925	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω
R1933	ERJ6GEY0R00	WIRE LINK
R1941	ERJ6GEY0R00	WIRE LINK
R1953	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1957	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1958	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1959	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1961	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1962	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1963	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1964	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R1983	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R1993	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3101	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6Ω
R3102	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6Ω
R3103	ERJ6GEYJ562	S.M.CARB 0.1W 5% 5K6Ω

Ref No.	Part No.	Description
R3104	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3106	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R3107	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R3108	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3109	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3111	ERDS1FYJ222	CARBON 0.5W 5% 2K2Ω ▲
R3112	ERJ6GEYJ152	S.M.CARB 0.1W 5% 1K5Ω
R3113	ERD25TJ681	CARBON 0.25W 5% 680Ω
R3121	ERJ6GEYJ153	S.M.CARB 0.1W 5% 15KΩ
R3122	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R3123	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3124	ERJ6GEYJ681	S.M.CARB 0.1W 5% 680Ω
R3126	ERJ6GEYJ122	S.M.CARB 0.1W 5% 1K2Ω
R3127	ERQ14AJ100	METAL 0.25W 5% 10Ω ▲
R3128	ERQ14AJ820	METAL 0.25W 5% 82Ω ▲
R3129	ERQ14AJ820	METAL 0.25W 5% 82Ω ▲
R3130	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R3131	ERD25TJ563	CARBON 0.25W 5% 56KΩ
R3132	ERD25TJ122	CARBON 0.25W 5% 1K2Ω
R3133	ERD25TJ2R7	CARBON 0.25W 5% 2R7Ω
R3134	ERDS1FVJ390	CARBON 0.5W 5% 39Ω ▲
R3135	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R3136	ERD25TJ563	CARBON 0.25W 5% 56KΩ
R3137	ERD25TJ122	CARBON 0.25W 5% 1K2Ω
R3138	ERD25TJ2R7	CARBON 0.25W 5% 2R7Ω
R3139	ERDS1FVJ390	CARBON 0.5W 5% 39Ω ▲
R3141	ERDS1FYJ101	CARBON 0.5W 5% 100Ω ▲
R3142	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R3143	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R3144	ERJ6GEYJ681	S.M.CARB 0.1W 5% 680Ω
R3146	ERDS1FYJ181	CARBON 0.5W 5% 180Ω ▲
R3152	ERQ12HJ102	METAL 0.5W 5% 1KΩ ▲
R3153	ERQ14AJ3R9	FUSIBLE 0.25W 5% 3R9Ω ▲
R3160	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R3161	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3162	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3163	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω
R3164	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3166	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3167	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3168	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3169	ERJ6GEYJ122	S.M.CARB 0.1W 5% 1K2Ω
R3170	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R3171	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3172	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3173	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω
R3174	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3176	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3177	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3178	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3179	ERJ6GEYJ122	S.M.CARB 0.1W 5% 1K2Ω
R3180	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R3181	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3182	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3183	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω
R3184	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3186	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3187	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R3188	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R3189	ERJ6GEYJ122	S.M.CARB 0.1W 5% 1K2Ω
R3307	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3308	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3309	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R3354	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R3358	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R3359	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R3361	ERQ12HKR68	FUSIBLE 0.5W 10% R68Ω ▲
R3362	ERC12GK105D	SOLID 0.5W 10% 1MΩ
R3364	ERC12GK821D	SOLID 0.5W 10% 820Ω
R3365	ERD25TJ220	CARBON 0.25W 5% 22Ω

Ref No.	Part No.	Description				
R3366	ERQ12AJ101	FUSIBLE	0.5W	5%	100Ω	Δ
R3367	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R3368	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R3369	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8Ω	
R3370	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R3371	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7Ω	
R3372	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R3373	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω	
R3374	ERDS1TJ104	CARBON	0.5W	5%	100KΩ	
R3375	ERG2ANJ183	METAL	2W	5%	18KΩ	
R3376	ERD25TJ561	CARBON	0.25W	5%	560Ω	
R3377	ERJ6GEY0R00	WIRE LINK				
R3378	ERC12GK821D	SOLID	0.5W	10%	820Ω	
R3379	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R3380	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R3381	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7Ω	
R3382	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R3383	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω	
R3384	ERDS1TJ104	CARBON	0.5W	5%	100KΩ	
R3385	ERG2ANJ183	METAL	2W	5%	18KΩ	
R3386	ERD25TJ561	CARBON	0.25W	5%	560Ω	
R3388	ERC12GK821D	SOLID	0.5W	10%	820Ω	
R3389	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R3390	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R3391	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7Ω	
R3392	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R3393	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω	
R3394	ERDS1TJ104	CARBON	0.5W	5%	100KΩ	
R3395	ERG2ANJ183	METAL	2W	5%	18KΩ	
R3396	ERD25TJ561	CARBON	0.25W	5%	560Ω	
R3398	ERC12GK821D	SOLID	0.5W	10%	820Ω	
R3399	ERD25TJ103	CARBON	0.25W	5%	10KΩ	
R4701	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R4702	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R4703	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R4705	ERJ6GEY0R00	WIRE LINK				
R4707	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68KΩ	
R4708	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ	
R4709	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R4710	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180Ω	
R4711	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω	
R4713	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R4714	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω	
R4715	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820Ω	
R4716	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω	
R4717	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R4718	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R4719	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ	
R4720	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8Ω	
R4721	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R4740	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820Ω	
R4743	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8Ω	
R4744	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180Ω	
R4745	ERJ6GEY0R00	WIRE LINK				
R4746	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R4747	ERJ6GEY0R00	WIRE LINK				
R4748	ERJ6GEY0R00	WIRE LINK				
R4750	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ	
R4751	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ	
R4752	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R4753	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120Ω	
R4754	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270Ω	
R4755	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R4756	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3Ω	
R4757	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8Ω	
R4758	ERJ6GEY0R00	WIRE LINK				
R4759	ERJ6GEY0R00	WIRE LINK				
R4760	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R4771	ERJ6GEY0R00	WIRE LINK				
R4772	ERJ6GEY0R00	WIRE LINK				
R6102	ERD25TJ151	CARBON	0.25W	5%	150Ω	

Ref No.	Part No.	Description				
R6111	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R6112	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R6113	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R6114	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R6301	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R6302	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R6305	ERJ6GEY0R00	WIRE LINK				
R6401	ERD25TJ220	CARBON	0.25W	5%	22Ω	
R6402	ERD25TJ220	CARBON	0.25W	5%	22Ω	
R6403	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R6404	ERJ6GEY0R00	WIRE LINK				
R6405	ERJ6GEY0R00	WIRE LINK				
R6406	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R6407	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R6408	ERJ6GEY0R00	WIRE LINK				
R6411	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ	
R6412	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27KΩ	
R6413	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R6416	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R6417	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R6418	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R6433	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R6436	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R6437	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω	
R6438	ERJ6GEY0R00	WIRE LINK				
R6441	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ	
R6442	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27KΩ	
R6443	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ	
R6446	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R6447	ERD25TJ101	CARBON	0.25W	5%	100Ω	
R6448	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10Ω	
R6811	ERC12ZGK335D	SOLID	0.5W	10%	3M3Ω	
R7000	ERDS1TJ184	CARBON	0.5W	5%	180K	
R7001	ERF5ZJ220	WOUND	5W	20%	22Ω	Δ
R7002	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R7003	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R7004	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R7005	ERDS1TJ154	CARBON	0.5W	5%	150K	
R7006	ERW12PKR33	WOUND	0.5W	10%	R33Ω	Δ
R7007	ERG1SJ330	METAL	1W	5%	33Ω	
R7008	ERG1SJ101	METAL	1W	5%	100Ω	
R7009	ERD2FCJ4R7	CARBON	0.25W	5%	4R7Ω	
R7010	ERG5SJS473	METAL	5W	5%	47KΩ	
R7011	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R7012	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R7013	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R7014	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R7015	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1MΩ	
R7016	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R7017	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R7018	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ	
R7019	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ	
R7020	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ	
R7021	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R7022	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R7023	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R7024	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R7025	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R7026	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R7027	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R7028	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R7029	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R7030	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R7031	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω	
R7032	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ	
R7033	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ	
R7034	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ	
R7035	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ	
R7036	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ	
R7037	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ	
R7038	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ	

Ref No.	Part No.	Description
R7039	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R7040	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R7041	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7042	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7043	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7044	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7045	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7046	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7047	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7048	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7049	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7050	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7051	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7052	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7053	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7054	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7055	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7056	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R7057	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R7058	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R7059	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ
R7060	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R7061	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R7062	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R7063	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7064	ERJ6GEYJ105	S.M.CARB 0.1W 5% 1MΩ
R7065	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R7066	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R7067	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7068	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7069	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7070	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7071	ERJ6GEYJ220	S.M.CARB 0.1W 5% 22Ω
R7072	ERJ6GEYJ105	S.M.CARB 0.1W 5% 1MΩ
R7073	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7074	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7075	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7076	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7077	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7078	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7079	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R7080	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7081	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7082	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7083	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R7084	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7085	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7086	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7087	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7088	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7089	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7090	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7091	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω
R7092	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R7093	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7094	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7095	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7096	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7097	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R7098	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7099	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7100	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7101	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7102	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R7103	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7104	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7105	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7106	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7107	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7108	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7109	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ

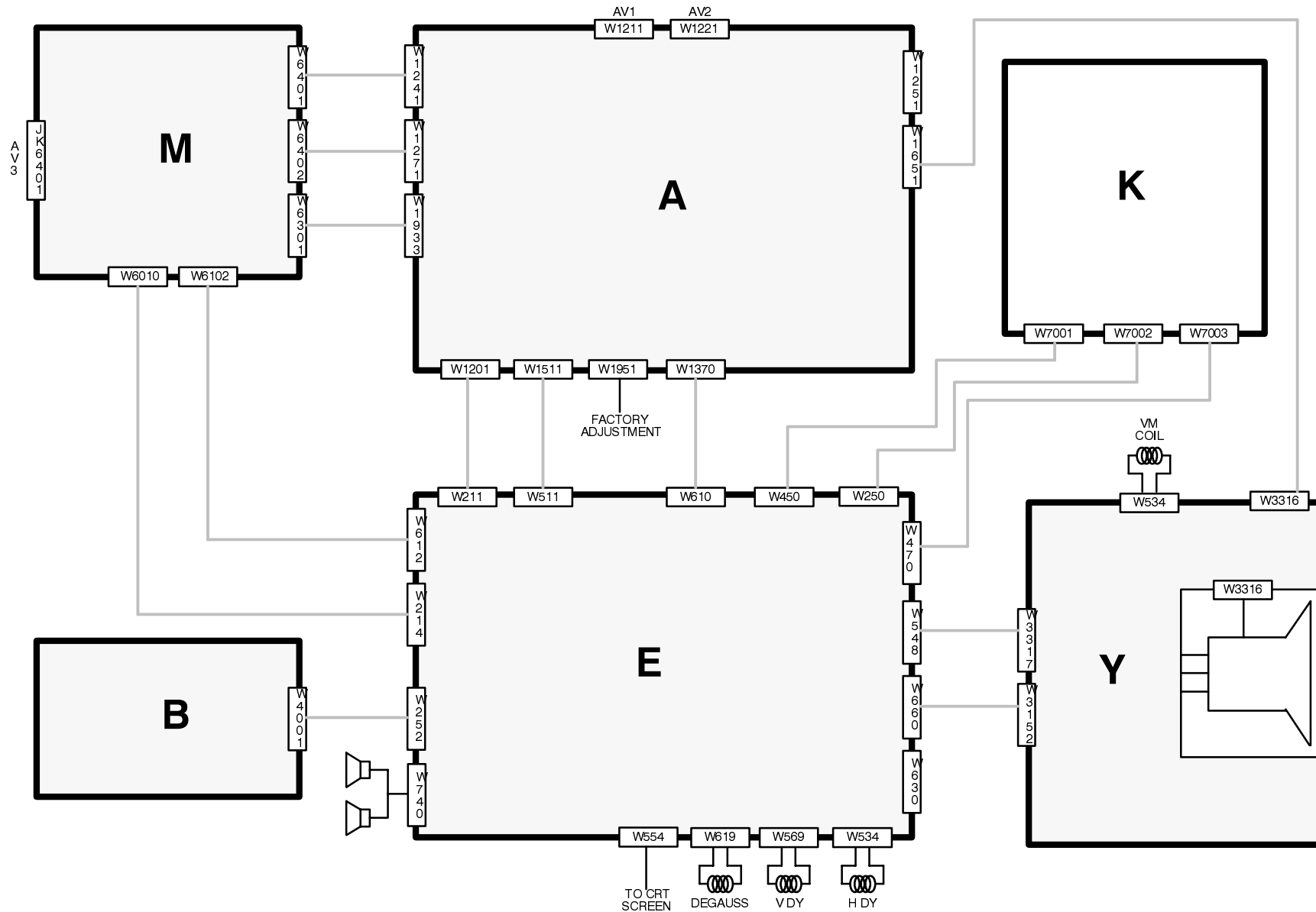
Ref No.	Part No.	Description
R7110	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7111	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7112	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7113	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7114	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7115	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7116	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7117	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R7118	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ
R7119	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7120	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7121	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7122	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R7123	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω
R7124	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R7125	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R7128	ERDS1TJ2R2	CARBON 0.5W 5% 2.2Ω
R7129	ERDS1TJ2R2	CARBON 0.5W 5% 2.2Ω
R7131	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7132	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7133	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7134	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7135	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7136	ERJ6GEYJ273	S.M.CARB 0.1W 5% 27KΩ
R7137	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7138	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7139	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7140	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R7141	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7142	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R7143	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7144	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R7145	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7146	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R7147	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R7148	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7149	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7150	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7Ω
R7151	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ
R7152	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R7153	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R7154	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω
R7155	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7156	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7157	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7158	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R7159	ERJ6GEYJ563	S.M.CARB 0.1W 5% 56KΩ
R7160	ERD2FCJ4R7	CARBON 0.25W 5% 4R7Ω
R7161	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R7162	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R7163	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R7164	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω
R7165	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω
R7166	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω
R7167	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R7169	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R7170	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R7171	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R7172	ERJ6GEYJ105	S.M.CARB 0.1W 5% 1MΩ
R7173	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ
R7174	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω
R7175	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R7176	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ
R7177	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω
R7178	TSF19252	FS LINK ▲
R7179	TSF19252	FS LINK ▲
R7180	TSF19252	FS LINK ▲
R7181	TSF19632	FS LINK ▲

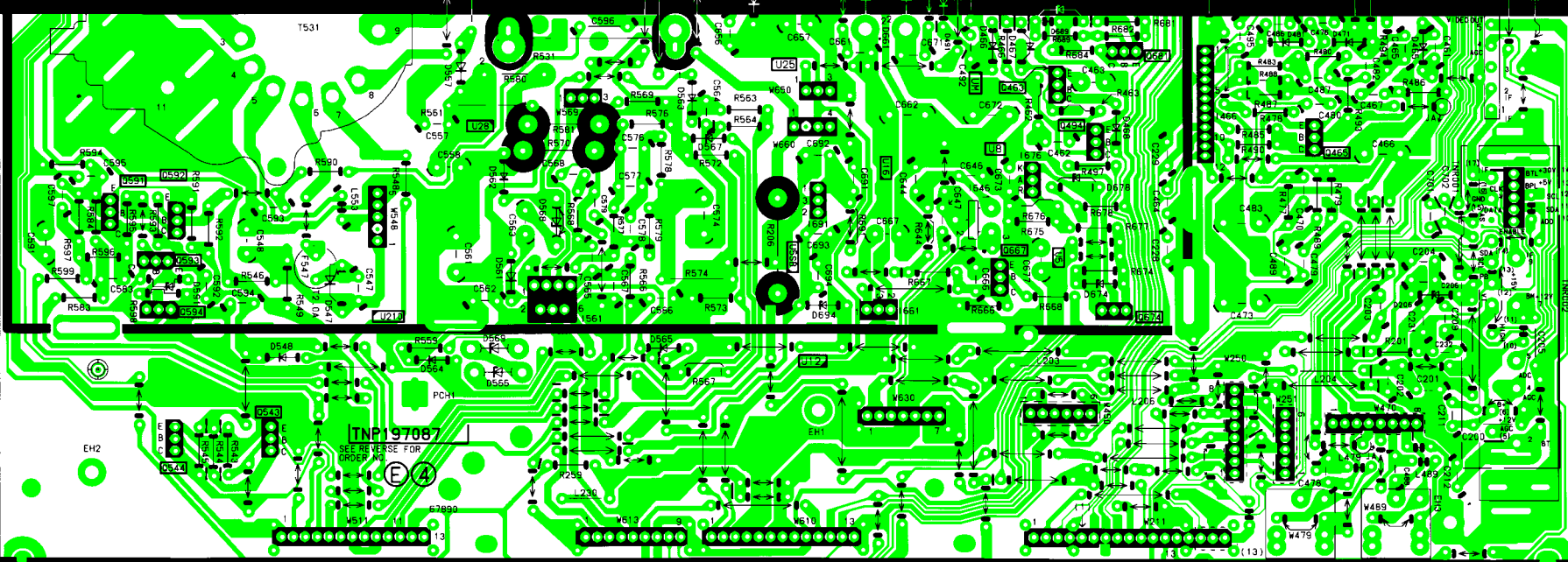
Ref No.	Part No.	Description	
SWITCHES			
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S6304	EVQQBH12G	SWITCH	
S6305	EVQQBH12G	SWITCH	
S6306	EVQQBH12G	SWITCH	
S6307	EVQQBH12G	SWITCH	
S6308	EVQQBH12G	SWITCH	
S6811	ESB91232A	SWITCH	⚠
TRANSFORMERS			
T528	5270103200	TRANSFORMER	
T531	ZTFH65007A	F.B.T.	⚠
T639	ETS39AH117AA	TRANSFORMER	⚠
T6101	BV030-7395.0	TRANSFORMER	
T7000	ETS29AD2G7NC	TRANS FORMER	

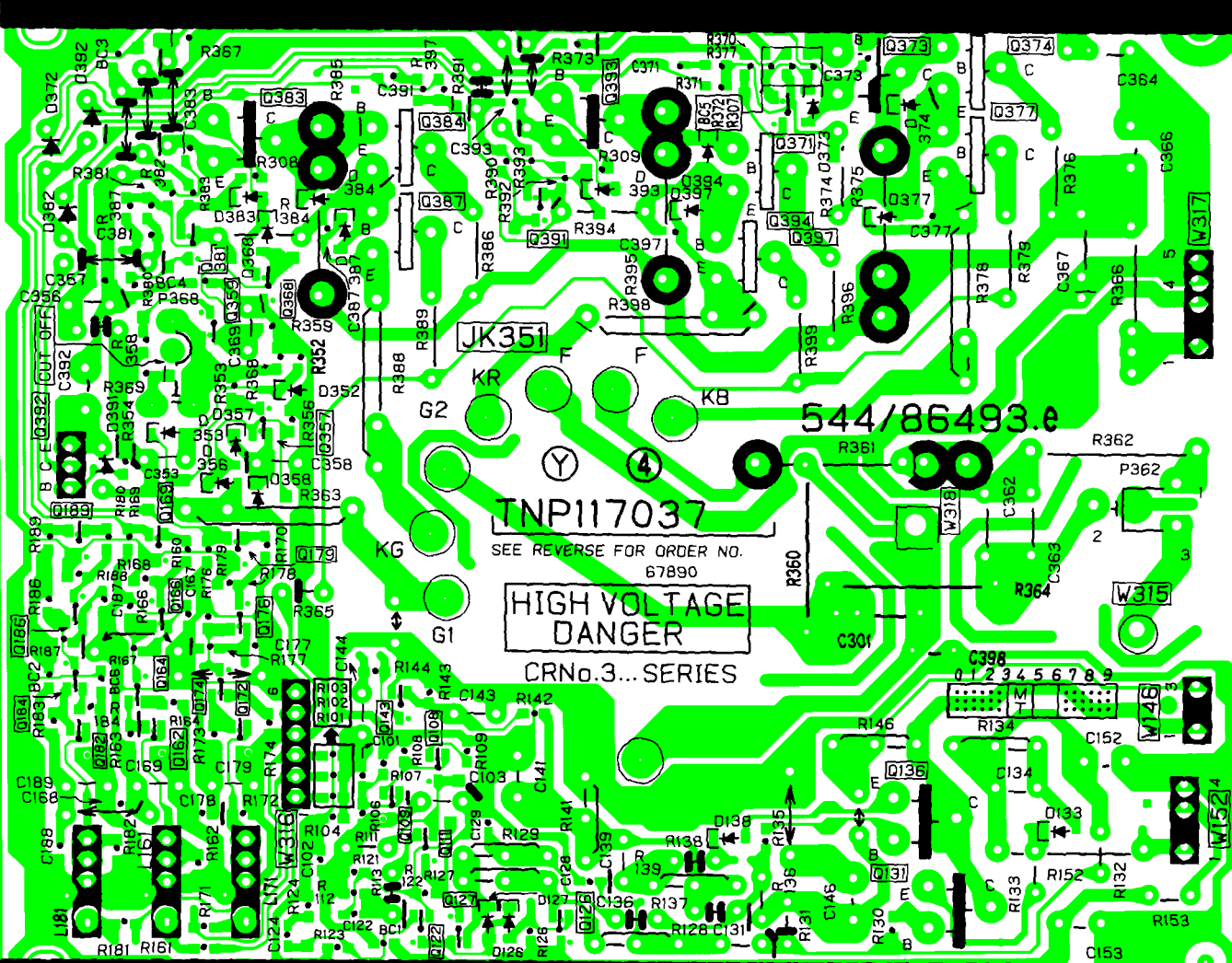
Ref No.	Part No.	Description
CONNECTORS		
W1951	MKS165810808	CONNECTOR
FILTERS		
X1321	TSS4004-B	CRYSTAL
X1608	TSS2169-B	CRYSTAL
X1854	TSS4007-B	CRYSTAL
X4703	EFCV3095A6	CHIP FILTER
X4704	G3355K	SAW FILTER
X4706	EFCS5M7MW3	CERAMIC FILTER
X7000	TAF10050	CRYSTAL
X7001	TSS4007-B	CRYSTAL

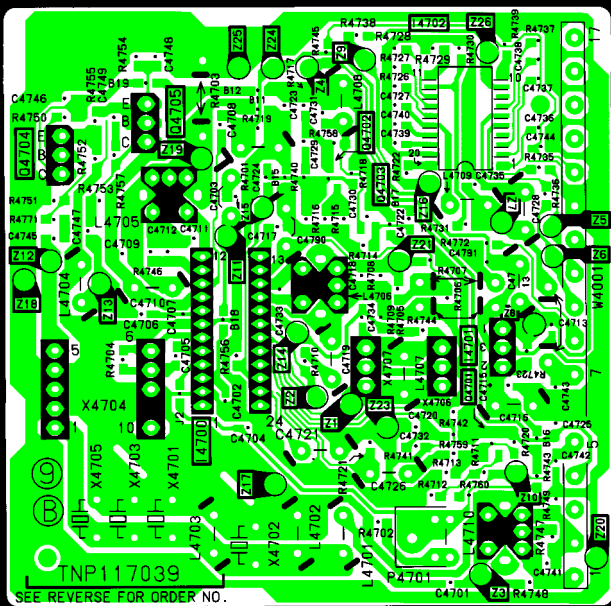
WIRING BLOCK DIAGRAM

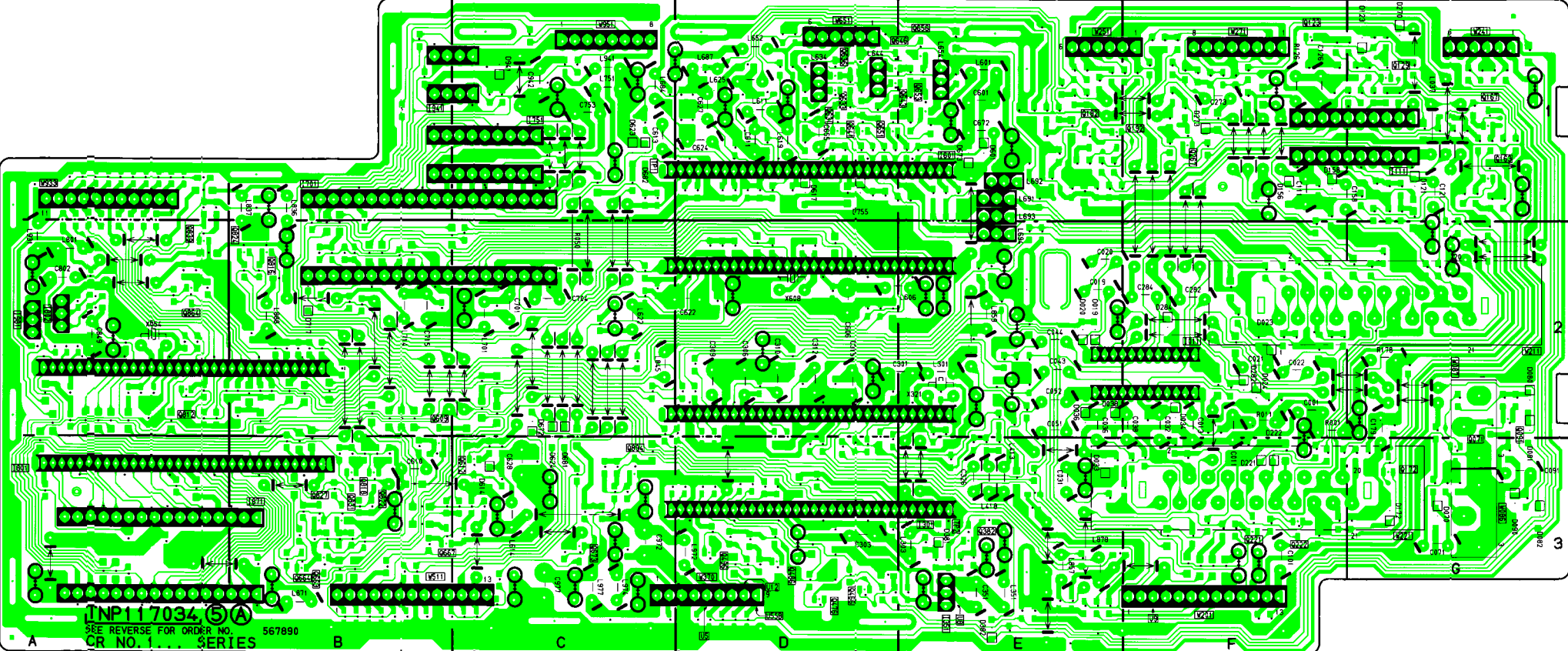
BLOCKDIAGRAM DER KABELVERBINDUNG











INP117034 (S) A

SEE REVERSE FOR ORDER NO. 567890
CR NO. 1... SERIES

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B

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