

Service Manual

Colour Television EURO 2 Chassis

TX-25AD1D TX-29AD1D

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Service Manual

Colour Television

TX-29AD1D

TX-25AD1D

EURO-2 Chassis

Specifications

(Information in brackets refers to TX - 25AD1D)

Power Source :	220 - 240 V AC, 50Hz
Power Consumption :	110W (100W)
Aerial Impedance :	75W unbalanced, Coaxial Type
Receiving System :	PAL B/G, D/K PAL - 60 SECAM B/G, D/K
Receiving Channels :	VHF E2 - E12
VHF H1 - H2 (ITALY)	VHF A - H (ITALY)
VHF R1 - R2	VHF R3 - R5
VHF R6 - R12	UHF E21 - E69
CATV (S01 - S05)	CATV S1 - S10 (M1 - M10)
CATV S11 - S20 (U1 - U10)	CATV S21 - S41 (HYPERBAND)
Intermediate Frequency :	
Video	38.9MHz
Sound	33.4MHz,33.16MHz 32.4MHz,33.05MHz
Colour	35.07MHz,34.47MHz,34.5MHz
Video / AudioTerminals :	
AV1 IN	Video (21 pin) 1 Vp-p 75W Audio (21 pin) 500 mV rms 10kW RGB (21 pin)
AV1 OUT	Video (21 pin) 1 Vp-p 75W Audio (21 pin) 500 mV rms 1kW
AV2 IN	Video (21 pin) 1 Vp-p 75W Audio (21 pin) 500 mV rms 10 kW S-Video IN Y : 1 Vp-p 75W (21 pin) C : 0.3 Vp-p 75W
AV2 OUT	Video (21 pin) 1 Vp-p 75W Audio (21 pin) 500 mV rms 1kW Selectable output (21 pin)
AV3 IN	S-Video IN Y : 1 Vp-p 75W (4-pin) C : 0.3 Vp-p 75W Audio (RCA x 2) 500 mV rms 10kW Video (RCA x 1) 1 Vp-p 75W
High Voltage :	31 kV "1kV at zero beam current
Picture Tube :	A68ESF002X11 72 cm (A59EEH048201 63 cm)
Visible screen size:	110_ deflection
Audio Output :	
Internal Speaker	2 x 20 W (Music Power) 4-8 W Impedance
Headphones	1 x 8 W Impedance
Accessories supplied :	Remote Control R6 (UM3) Battery
Dimensions :	Height : 551mm (504mm) Width : 668mm (606mm) Depth : 467mm (448mm)
Net Weight	41kg (30kg)

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

Technische Daten

(Werte in klammern gelten nur für TX - 25AD1D)

Netzspannung :	220 - 240 V AC, 50Hz
Leistungsaufnahme :	110W (100W)
Antennenimpedanz :	75W asymmetrisch, Koaxial- Typ
Empfangssystem :	PAL B/G, D/K PAL - 60 SECAM B/G, D/K VHF E2 - E2
Empfangsbereiche :	VHF H1 - H2 (ITALY) VHF R1 - R2 VHF R6 - R12
CATV (S01 - S05)	VHF A - H (ITALY) VHF R3 - R5 UHF E21 - E69
CATV S11 - S20 (U1 - U10)	CATV S1 - S10 (M1 - M10) CATV S21 - S41 (HYPERBAND)
Zwischenfrequenz :	
Video	38.9MHz
Sound	33.4MHz,33.16MHz 32.4MHz,33.05MHz
Colour	35.07MHz,34.47MHz,34.5MHz
Video / Audio Anschlüsse :	
AV1 EINGANG	Video (21 pin) 1 Vp-p 75W Audio (21 pin) 500 mV rms10kW RGB (21 pin)
AV1 AUSGANG	Video (21 pin) 1 Vp-p 75W Audio (21 pin) 500 mV rms1kW
AV2 EINGANG	Video (21 pin) 1 Vp-p 75W Audio (21 pin) 500 mV rms 10 kW S-Video IN Y : 1 Vp-p 75W (21 pin) C : 0.3 Vp-p 75W
AV2 AUSGANG	Video (21 pin) 1 Vp-p 75W Audio (21 pin) 500 mV rms1kW Selectable output (21 pin)
AV3 EINGANG	S-Video IN Y : 1 Vp-p 75W (4-pin) C : 0.3 Vp-p 75W Audio (RCA x 2) 500 mV rms10kW Video (RCA x 1) 1 Vp-p 75W
Hochspannung :	31 kV "1kV bei Nullstrahlstom
Bildrohre :	A68ESF002X11 72 cm (A59EEH048201 63 cm)
Visuelle Diagonale :	110_Ablenkung
Ton Ausgangsleistung :	
Einbaulautsprecher	2 x 20W (Musikleistung) 4-8 W Impedanz
Kopfhörer	1 x 8 W Impedanz
Mitgel. Zubehör	Fernbedienung R6 (UM3) Batterien
Abmessungen :	Höhe : 551mm (504mm) Breite : 668mm (606mm) Tiefe : 467mm (448mm)
Gewicht	41kg (30kg)

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

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SAFETY PRECAUTIONS

General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the AC outlet.
5. Potentials as high as 32kV 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 32kV 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.

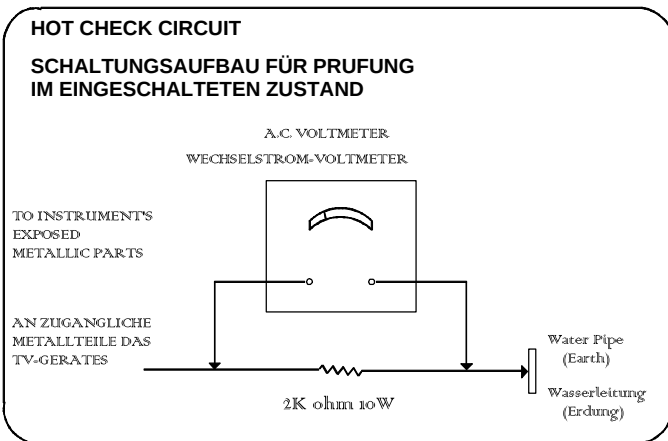
MESSUNG DES ISOLATIONSWIDERSTANDES IM ABGESCHALTETEN ZUSTAND

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.

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LEAKAGE CURRENT HOT CHECK

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



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 32kV 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 31kV "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 Netzsteckdose stecken. Für diese Messung keinen Trenntransformator verwenden.
2. Einen 2k W / 10W-Widerstand in Serie mit einem von außen zugänglichen Metallteil am Fernsehgerät und einer guten Erdung z.B. Wasserleitung, anschließen.
3. Ein Wechselstrom-Voltmeter mit einem Meßbereich von 1000 Ohm.Volt oder größer verwenden, um die Spannung über den Widerstand zu messen.
4. Jedes zugängliche Metallteil prüfen, und an jedem Punkt die Spannung messen.
5. Den Netzstecker umgekehrt in die Steckdose stecken und jede der obigen Messungen wiederholen.
6. Die Spannung darf an keinem der Punkte 1.4V eff. überschreiten. Wird dieser Wert nicht eingehalten, besteht die Gefahr eines elektrischen Schlages, und das Fernsehgerät sollte daher repariert und nachgeprüft werden, bevor es an den Kunden zurückgegeben wird.

RÖNTGENSTRAHLUNG

ACHTUNG :

1. Potentielle Quellen von Röntgenstrahlung in Fernsehgeräten sind das Hochspannungsteil und die Bildröhre.
2. Bei Verwendung eines Bildröhren-Prüfgerätes für den Service ist sicherzustellen, daß es für die Belastung von 32kV geeignet ist, ohne daß eine Röntgenstrahlung verursacht wird.

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

1. Helligkeit auf Minimum stellen.
2. Die Hochspannung messen. Die Anzeige des Instrumentes sollte 31kV "1kV betragen. Falls die Anzeige diese Toleranzgrenzen überschreitet, ist die sofortige Behebung nötig, um die Möglichkeit vorzeitigen Komponentenausfalls zu verhüten.
3. Um die Möglichkeit von Röntgenstrahlung zu begrenzen, ist es wichtig, daß nur die vorgeschriebene Bildröhre verwendet wird.

Location Of Controls

Lage der Einstellregler

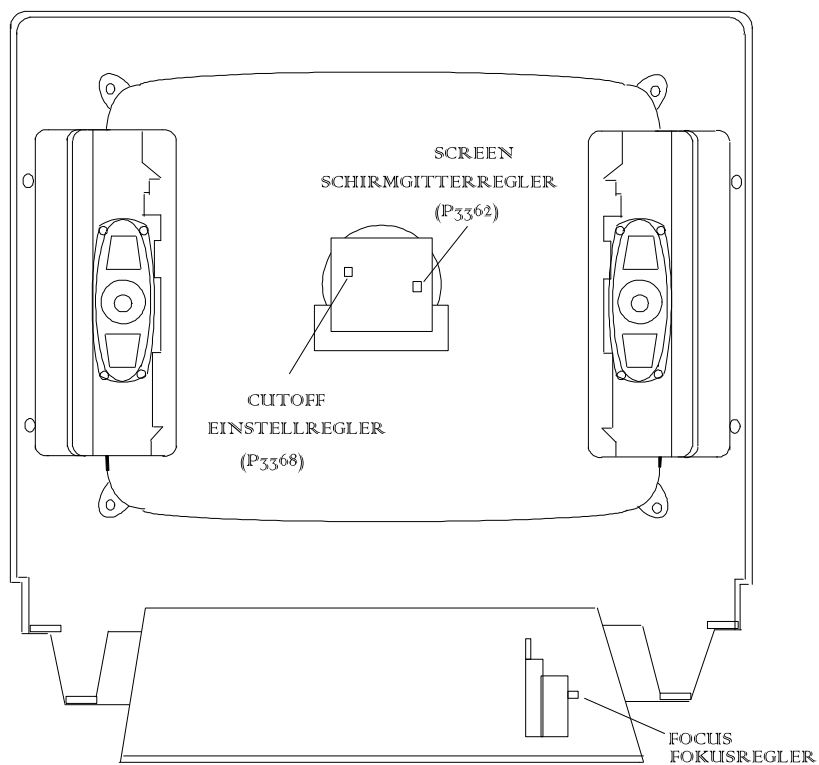


Fig.2
Abb.2

SERVICE HINTS

How to remove the rear cover

1. Remove the 8 screws (A) as shown in Fig.3/Fig.4.

SERVICE HINWEISE

Entfernen Der Geräterückwand

1. Die 8 Schrauben (A) entfernen, siehe Abb.3/Abb.4.

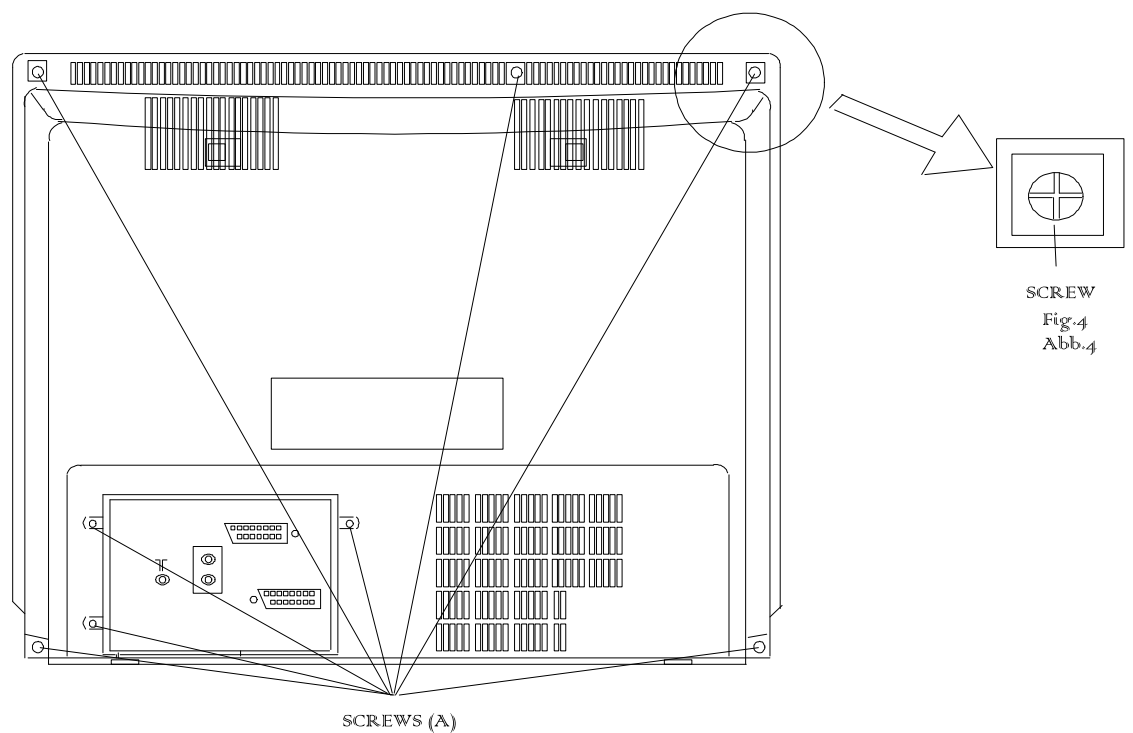


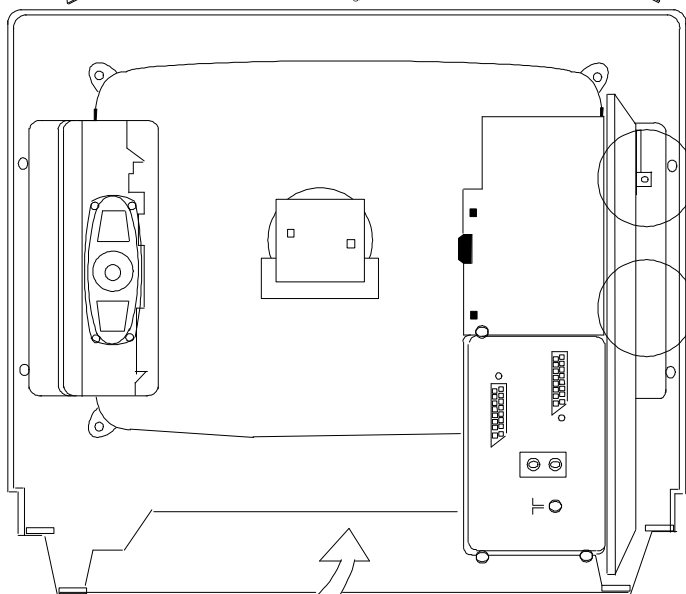
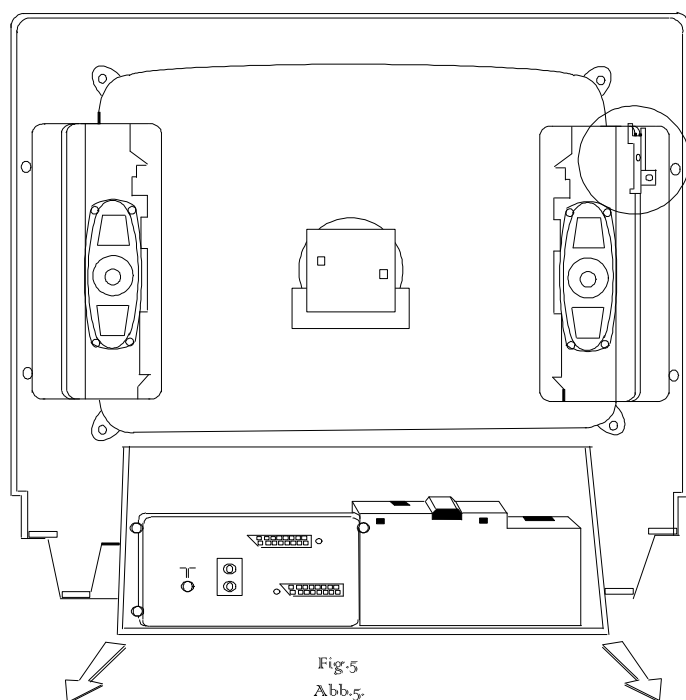
Fig.3.
Abb.3.

How to move the chassis into the Service position

1. Hold and lift the rear of the E- PCB chassis and M - PCB as shown in fig.5. and gently pull the chassis toward you. Release the M - PCB as explained on page 6
2. Turn the chassis through 90°, anti-clockwise, as shown in fig.6.
3. Clip the chassis onto the support bracket as shown in fig.6 and fig.7.
4. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer

Gerätechassis in reparaturstellung bringen

1. Ziehen Sie die Leiterplatte E zusammen mit der Leiterplatte M nach hinten aus dem Gehäuse. Die Leiterplatte M kann vom Hauptchassisrahmen durch leichtes Anheben gelöst werden.
2. Drehen Sie jetzt das Chassis um 90° im Uhrzeigersinn in die Position wie in Abb.6 gezeigt.
3. Die Öffnungen im Chassisrahmen, wie in Abb.7 gezeigt, in die seitlichen Halterungen einhängen.
4. Nach erfolgter Reparatur/Einstellung müssen die Leitungen wieder in ihre ursprüngliche Lage gebracht werden, bevor das FS-Gerät an den Kunden übergeben wird.



90°

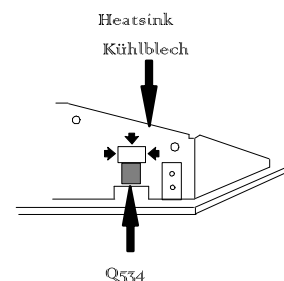
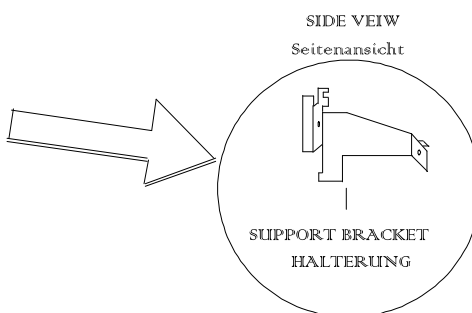
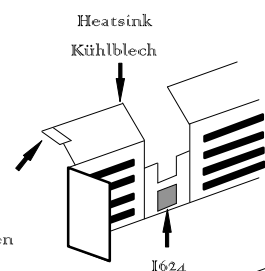


Fig.7.
Abb.7.



Clip to edge of speaker box
Winkle im Rahmen des
lautsprecher gehäuses ein hängen

HOW TO REMOVE THE CONTROL PANEL (M BOARD)

1. Remove the E-board from the cabinet 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 BEDIENTELDES 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

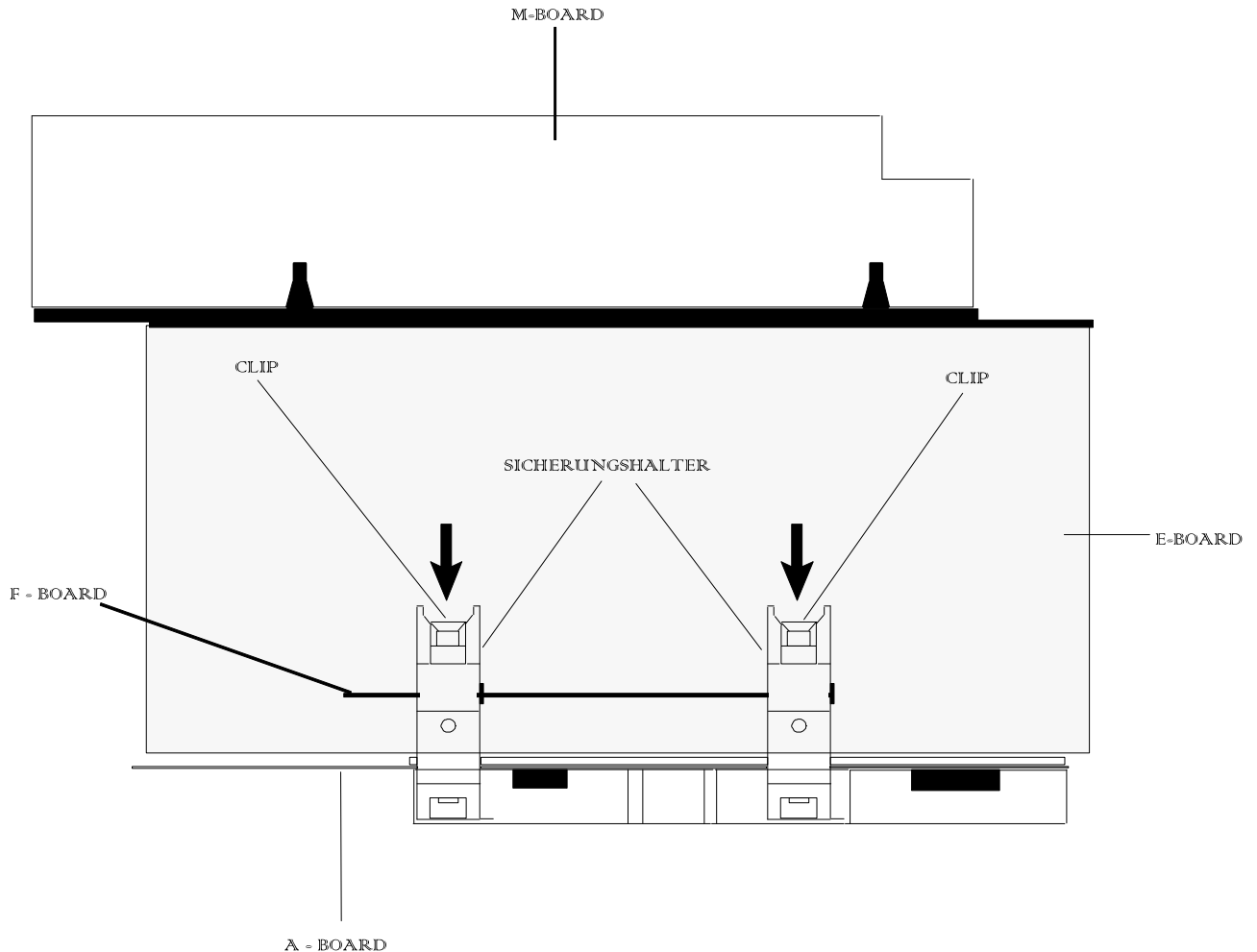


Fig.8
Abb.8

HOW TO REMOVE THE A - BOARD

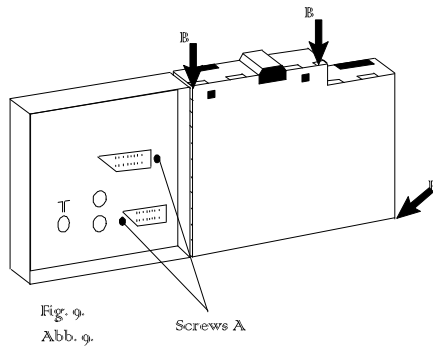
1. Disconnect the 5 leads from the A - board.
2. Release the A and F boards securing brackets by pushing the clips in the direction shown in Fig.8, and remove the A - board by gently lifting vertically.
3. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

AUSBAU DER LEITERPLATTE A

1. Lösen Sie 5 die fünf Kabel vom A-Bord.
2. Danach lösen Sie jetzt die A-und F-Bord Sicherungshalter indem Sie die Clips in die Richtung, welche in Abb.8 gezeigt ist, drücken und entfernen Sie das A-bord indem Sie es vorsichtig vertikal anheben.
3. Nach Beendigung der Reparatur versichern Sie sich bitte, ob alle Kabel wieder in der richtigen Position sind.

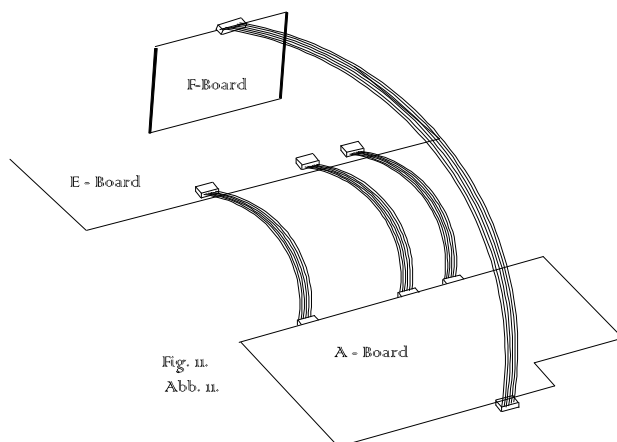
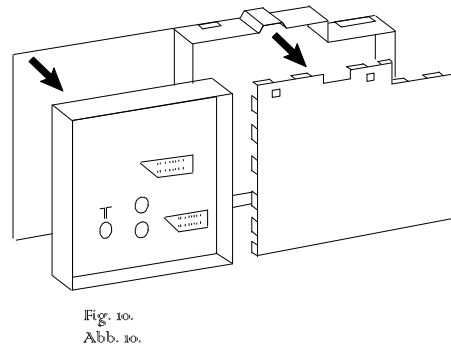
Service position for the A-Board

1. Remove the A-board from the main chassis (E-board) as shown in Fig.8.
2. Remove the two screws (A) (Fig.9) from the plastic AV cover and unclip the AV cover from the A-board (Fig. 10).
3. Carefully unclip the three metal clips marked B in Fig.9.
4. Unclip the front metal cover (fig.10) and remove from the A-board.
5. Fit the 4 extension leads to the A-board making sure that the A-board does not touch the E-board (fig.11).
6. 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).



Reparaturstellung Für Leiterplatte A

1. Die Leiterplatte A vom Hauptchassis (Leiterplatte E) abnehmen; vorher müssen alle Anschlusskabel abgezogen werden.
2. Die beiden Schrauben A (Fig.9) aus der AV-Abdeckung aus Kunststoff herauserschrauben und die AV-Abdeckung durch Ausclipsen von der Leiterplatte A abnehmen.
3. Die 3 kleinen Metallwinkel B (Abb.9, Pos.B) anheben und die vordere Metallabdeckung entfernen (Abb.10).
4. Um die Reparatur zu erleichtern, die hintere Metallabdeckung entfernen.
5. Die 4 Verlängerungskabel an die Leiterplatte A anschliessen; darauf achten, da_ die Leiterplatte A die Platine E nicht berührt (fig.11).
6. 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.



Adjustment Procedure

Adjustment	Signal	Conditions	Adjustments	Settings/Special features
Operating voltage	Test pattern	230 V - beam current 0	Adjust P633	Measure Cathode D651 so a Voltmeter shows +147V"0.5
Focus	Test pattern		Focus at line transformer	Optimum setting
RF AGC	Standard colour bar signal	Place an oscilloscope on tuner AGC	Adjust P4701 clockwise	Slowly turn P4701 anti-clockwise, set P4701 where the RF AGC voltage drops by 0.2V from maximum.
Comb Filter Adjustment	PAL colour bar pattern	Oscilloscope	Adjust P2601	Confirm input video signal (pin 4 W2601 is 1Vp-p). Adjust P2601 to obtain 2Vp-p at TPF1.

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.

- 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.
- Press the RED / GREEN buttons to step up / down through the functions.
- Press the YELLOW / BLUE buttons to alter the function values.
- Press the STORE button after each adjustment has been made to store the required values.
- 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

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

Program
External>>TV

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

Program
TV>>External

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

Storing

- 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!

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

Program
External>>TV

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

Loading

- 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!

- The tuning information from the Memory Pack has now been copied into the TV
- To exit from the Service Mode press the Normalisation button.
- 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.

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Abgleichverfahren

Abgleich	Signal	Bedingungen	Einstellung	Einstellung / Bes. Merkmale
Betriebsspannung	Testbild	230 V-Strahlstrom 0	P633 abgleichen	Mit einem Voltmeter an der Katode von D651 147V "0.5 einstellen
Fokus	Testbild		Am Zeilentrafo fokussieren	Optimale Einstellung
HF-Regelspannung	Farbbalkentestbild	Einen Oszillograph (DC-Modus) an Pin 4 vom Tuner an die AGC anschliessen	Regler P4701 auf Rechtsanschlag	P4701 langsam gegen den Uhrzeigersinn drehen, bis die AGC-Spannung um 0.2V vom Maximum absinkt.
Combfilter Abgleich	Farbbalkentestbild	Oszillograph	P2601 abgleichen	Das Eingangssignal an Pin 4 (Stecker W2601 muss 1Vss betragen. Am Testpunkt TPF1 ein Signal von 2Vss mit P2601 einstellen

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 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!

Kopieren der Einstelldaten vom Memory Pack in das FS-Gerät

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.

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	TX-29AD1D	TX-25AD1D	Settings / Special features
1. Vertical amplitude	V-AMP 051	V-AMP 063	Optimum setting
2. Vertical symmetry	V-SYM 013	V-SYM 002	Optimum setting
3. Vertical linearity	V-LIN 012	V-LIN -020	Optimum setting
4. Vert. DC.	Vert. D.C. 000	Vert. D.C. 000	Optimum setting
5. V-Pos.	V. Pos 003	V. Pos 005	Optimum setting
6. Horizontal amplitude	H-AMP -033	H-AMP -044	Optimum setting
7. Horizontal position	H-POS 049	H-POS 069	Optimum setting
8. Text Position	TEXT POSITION 045	TEXT POSITION 049	Optimum setting
9. EW-amplitude	E-W AMP1 -058	E-W AMP1 -058	Optimum setting
10. EW-amplitude	E-W AMP2 023	E-W AMP2 044	Optimum setting
11. Trapezium-comp	TRAPEZ-1 -014	TRAPEZ-1 -000	Optimum setting
12. Trapezium- comp	TRAPEZ-2 012	TRAPEZ-2 -009	Optimum setting
13. Colour VCO	COLOUR VCO 015	COLOUR VCO 006	Optimum setting
14. Cut-off DC	CUT-OFF DC 050	CUT-OFF DC 050	Not to be adjusted.
15. Ug2 Test	Ug2 Test 107 021 023	Ug2 Test 94 044 020	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 150V 0-peak (160V 0-peak TX - 25AD1D), then turn P3362 up so the highest numbered box on the TV screen reads 050 " 010.
16. Cutoff	Cutoff 045 055 050	Cutoff 057 064 056	Press the GREEN button to step through the settings. Adjust for optimum.
17. White	White 224 255 237	White 200 255 248	Press the GREEN button to step through the settings. Adjust for optimum.

Abgleichtabelle

Abgleichfunktion	TX-29AD1D	TX-25AD1D	Einstellung/Besondere Merkmale
1. Vertikale Amplitude	V-AMP 051	V-AMP 063	Optimale Einstellung
2. Vertikale symmetrie	V-SYM 013	V-SYM 002	Optimale Einstellung
3. Vertical linearität	V-LIN 012	V-LIN -020	Optimale Einstellung
4. Vert. DC.	Vert. D.C. 000	Vert. D.C. 000	Optimale Einstellung
5. V-Pos.	V. Pos 003	V. Pos 005	Optimale Einstellung
6. Horizontale Amplitude	H-AMP -033	H-AMP -044	Optimale Einstellung
7. Horizontale position	H-POS 049	H-POS 069	Optimale Einstellung
8. Text Position	TEXT POSITION 045	TEXT POSITION 049	Optimale Einstellung
9. OW-amplitude	E-W AMP1 -058	E-W AMP1 -058	Optimale Einstellung
10. OW-amplitude	E-W AMP2 023	E-W AMP2 044	Optimale Einstellung
11. Trapez-Kompensation	TRAPEZ-1 -014	TRAPEZ-1 -000	Optimale Einstellung
12. Trapez-Kompensation	TRAPEZ-2 012	TRAPEZ-2 -009	Optimale Einstellung
13. Colour VCO	COLOUR VCO 015	COLOUR VCO 006	Optimale Einstellung
14. Cut-off DC	CUT-OFF DC 050	CUT-OFF DC 050	Nicht einstellen
15. Bildschirm	Ug2 Test 107 021 023	Ug2 Test 94 044 020	Zum Einstellen des Bildschirms P3362 auf Linksanschlag stellen. Oszillograph an die Rotkatode anschliessen und mit P3368 auf 150V einstellen (160V einstellen TX-25AD1D; danach P3362 so einstellen, da_ im roten Feld auf dem FS-Bildschirm der Wert 050±010 erscheint.
16. Cutoff	Cutoff 045 055 050	Cutoff 057 064 056	Die Einstellungen mit Hilfe der GRÜNEN Taste anwählen. Optimale Einstellung.
17. White	White 224 255 237	White 200 255 248	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	—	=	Dolby IC for C/R
2	—	ok	VIF	12	—	ok	P S MODE
3	—	ok	EEPROM	13	—	ok	P TAo
4	—	ok	Sound AV switchu	14	—	ok	P TA1
5	—	ok	Video AV switchu	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	—	=	Dolby Sub	19	—	ok	P SCL3
10	—	=	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".

Hex codes				29"	25"
21	—	ok	P SBLED	7A	7A
22	—	ok	P OFF	30	30
23	—	ok	P DEFL	E2	E2
24	—	ok	P RAM	54	54
				64	44

SELBSTDIAGNOSE

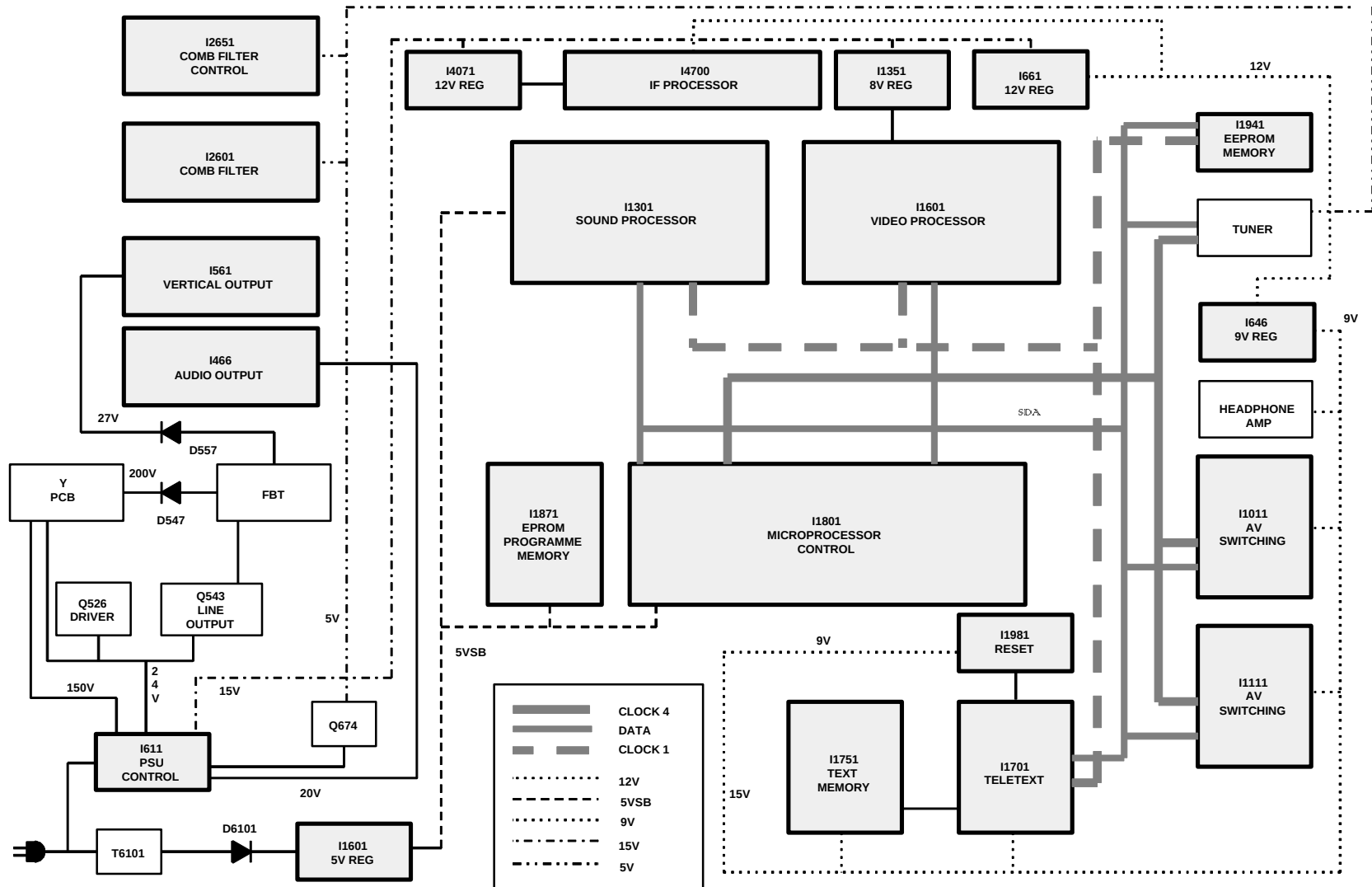
- 1) Die Selbstdiagnose dient zum automatischen Prüfen der Bus-Leitungen sowie des Hexadezimalcodes des FS-Geräts. Zum Umschalten auf Selbstdiagnose nach dem Drücken der "F"-Taste die "Lautstärke Minus" Taste am Bedienfeld des FS-Geräts und gleichzeitig die Taste "Status" an der Fernbedienung drücken; auf dem Bildschirm erscheint hierauf:-
- 2) Nach der Selbstdiagnose wird das Gerät automatisch auf sämtliche werksseitigen Standardeinstellungen zurückgesetzt.

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

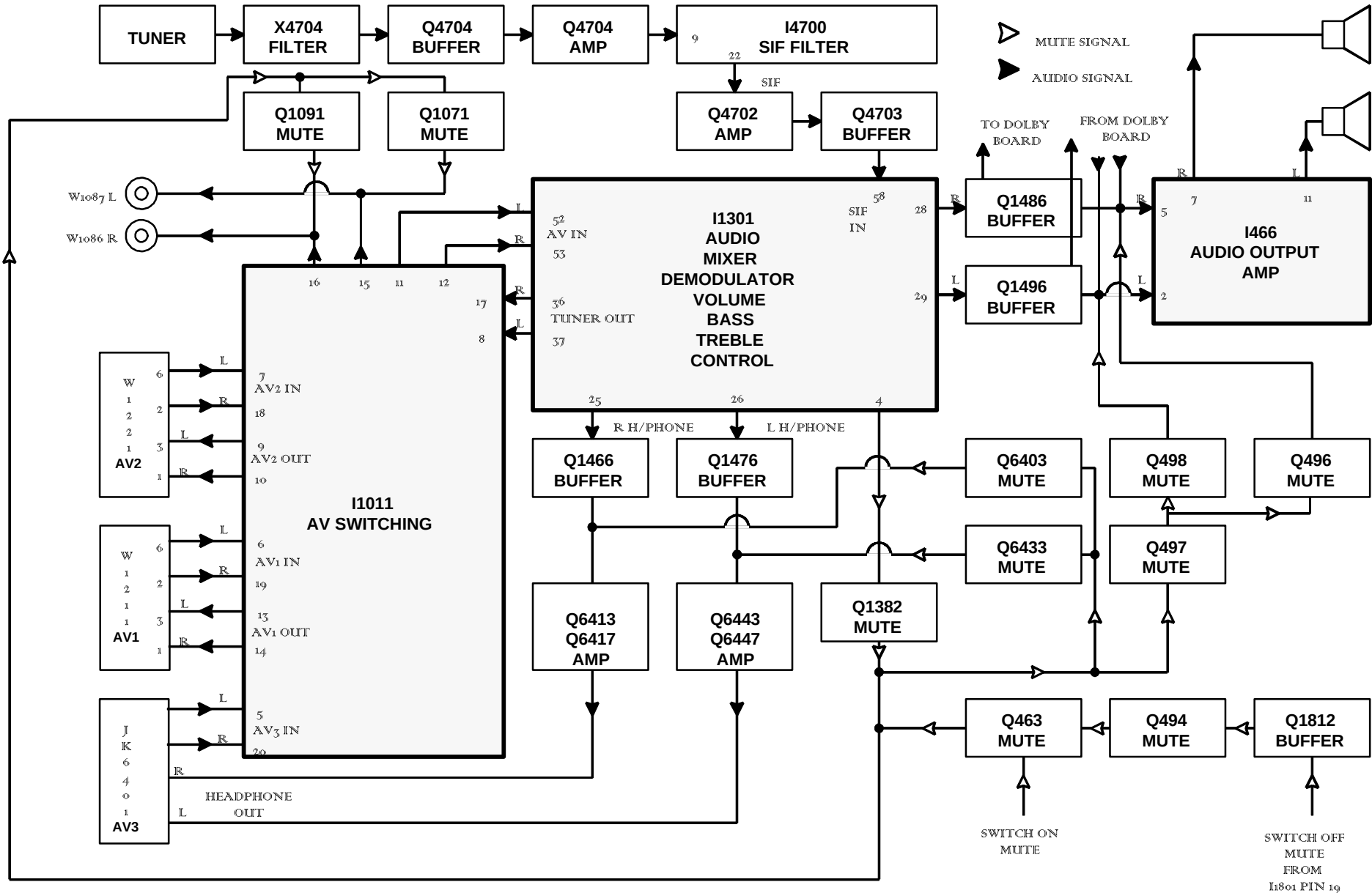
Wenn der Hauptprozessor (CCU) an den Anschlüssen einen Fehler finden sollte, oder der Anschluss nicht belegt ist, zeigt die entsprechende Position = anstelle von OK an.

Hexadezimalcode				29"	25"
21	—	ok	P SBLED	7A	7A
22	—	ok	P OFF	30	30
23	—	ok	P DEFL	E2	E2
24	—	ok	P RAM	54	54
				64	44

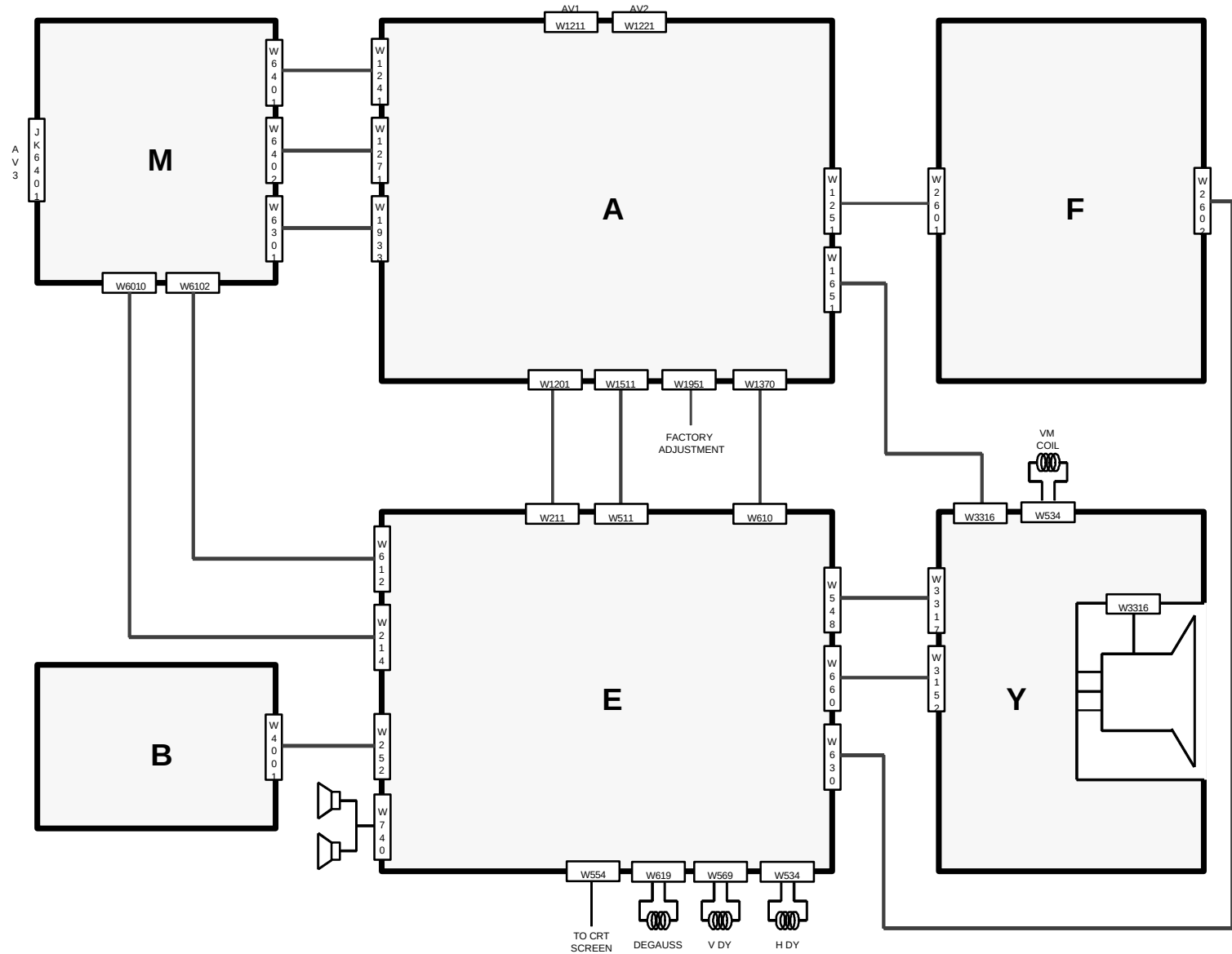
POWER SUPPLY AND CONTROL BLOCK DIAGRAM



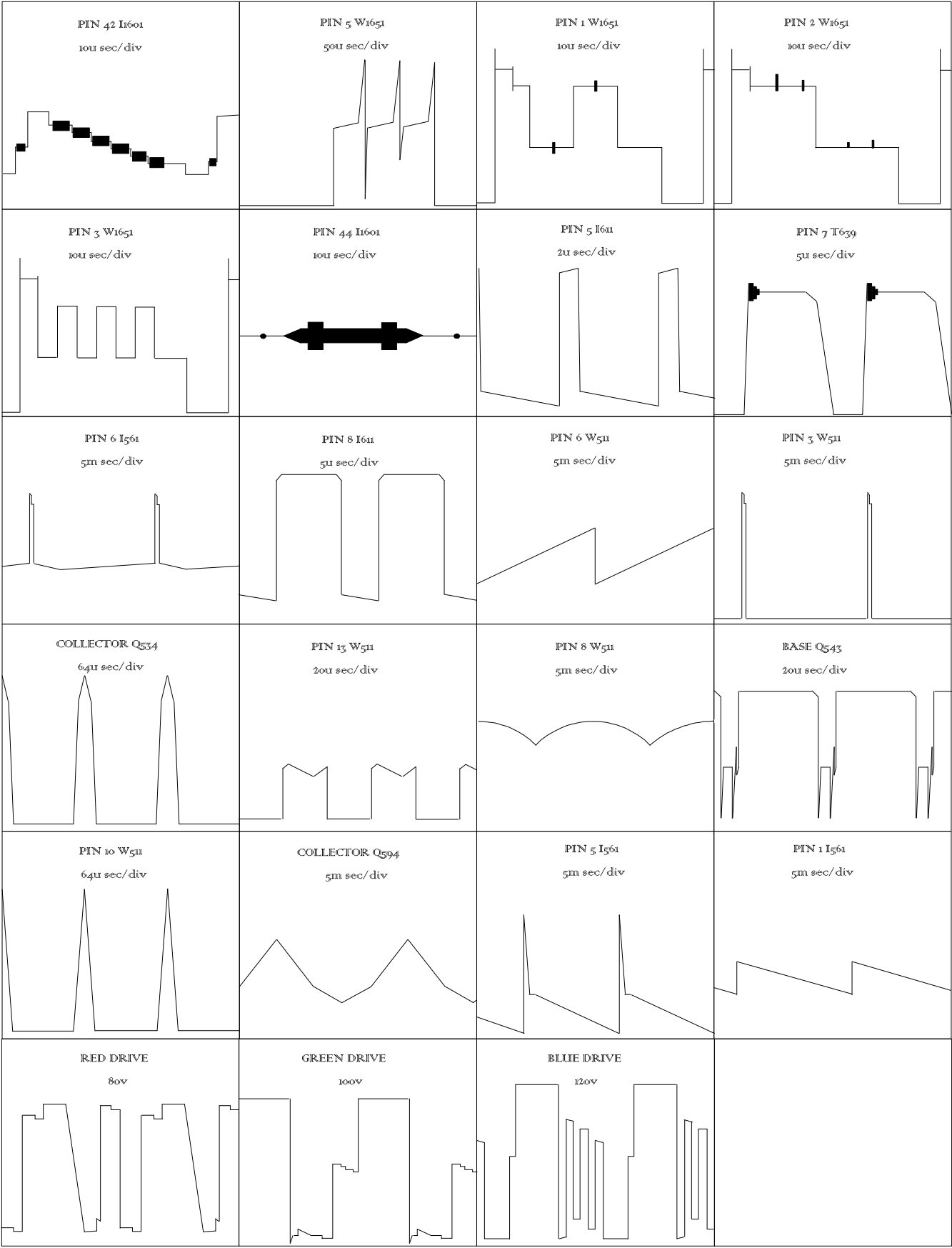
AUDIO BLOCK DIAGRAM



WIRING BLOCK DIAGRAM



WAVEFORM PATTERN TABLE
SIGNAL TABELLE



SCHEMATIC DIAGRAM FOR MODELS

TX-29/25AD1D

(Euro-2 Chassis)

IMPORTANT SAFETY NOTICE

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

Notes

- RESISTOR**
All resistors are carbon 1/4W resistor, unless marked as follows:
Unit of resistance is OHM (W) (K=1,000, M=1,000,000).
- CAPACITORS**
All capacitors are ceramic 50V, unless marked as follows:
Unit of capacitance is mF, unless otherwise stated.
- COIL**
Unit of inductance is mH, unless otherwise stated.
- Components marked 'L' on the schematic diagram shows leadless parts.
- TEST POINT**
 : Test Point position
- EARTH SYMBOL**
 : Chassis Earth (Cold)  : Line Earth (Hot)
- VOLTAGE MEASUREMENT**
Voltage is measured by a DC voltmeter.
Measurement conditions are as follows:
Power source AC 220V-240V, 50Hz
Receiving Signal Colour Bar signal (RF)
All customer controls Maximum position
-  : Indicates the Video signal path
 : Indicates the Audio signal path
 : Indicates the Vertical/Horizontal signal path
- This schematic diagram is the latest at the time of printing and is subject to change without notice.

Remarks

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

Precautions

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

ZEICHENERKLÄRUNG FÜR MODELL

TX-29/25AD1D

(Euro-2 Chassis)

WICHTIGER SICHERHEITSHINWEIS

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

Anmerkung

- WIDERSTÄNDE**
Alle 1/4Watt Widerstände sind Kohlewiderstände, Abweichungen sind folgt gekennzeichnet.
Die Ma_einheit ist OHM (W) (K=1,000 M=1,000,000)
- KONDENSATOREN**
Alle Kondensatoren sind Keramikausführungen
Spannungsfestigkeit 50V. Abweichungen sind wie folgt gekennzeichnet.
Die Ma_einheit ist mF, wenn keine anderen Bezeichnungen genannt sind
- SPULEN**
Die Ma_einheit ist mH, Abweichungen sind gekennzeichnet.
- Mit 'L' gekennzeichnete Teile sind ohne Anschlu_drähte.
- TESTPUNKE**
 Kennzeichnung der Testpunktpositio
- MASSE SYMBOL**
 :Erdung am Chassis  :Erdung an Masse-Leitung
- SPANNUNGSMESSUNG**
Spannungsmessungen sind mit einem DC-Voltmeter durchzuführen.
Die Me_bedingungen sind folgende:
Netzspannung AC 220V-240V 50Hz
Wiedergabe Signal Farbbalken-Testbild
Alle übrigen Einstellungen für Benutzer Sollangaben
-  :Videosignalweg
 :Audiosignalweg
 :Signalweg für Hor/Vert. Synchronsignale
- Anderungen im Laufe der Fertigung sind möglich.

Bemerkungen

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

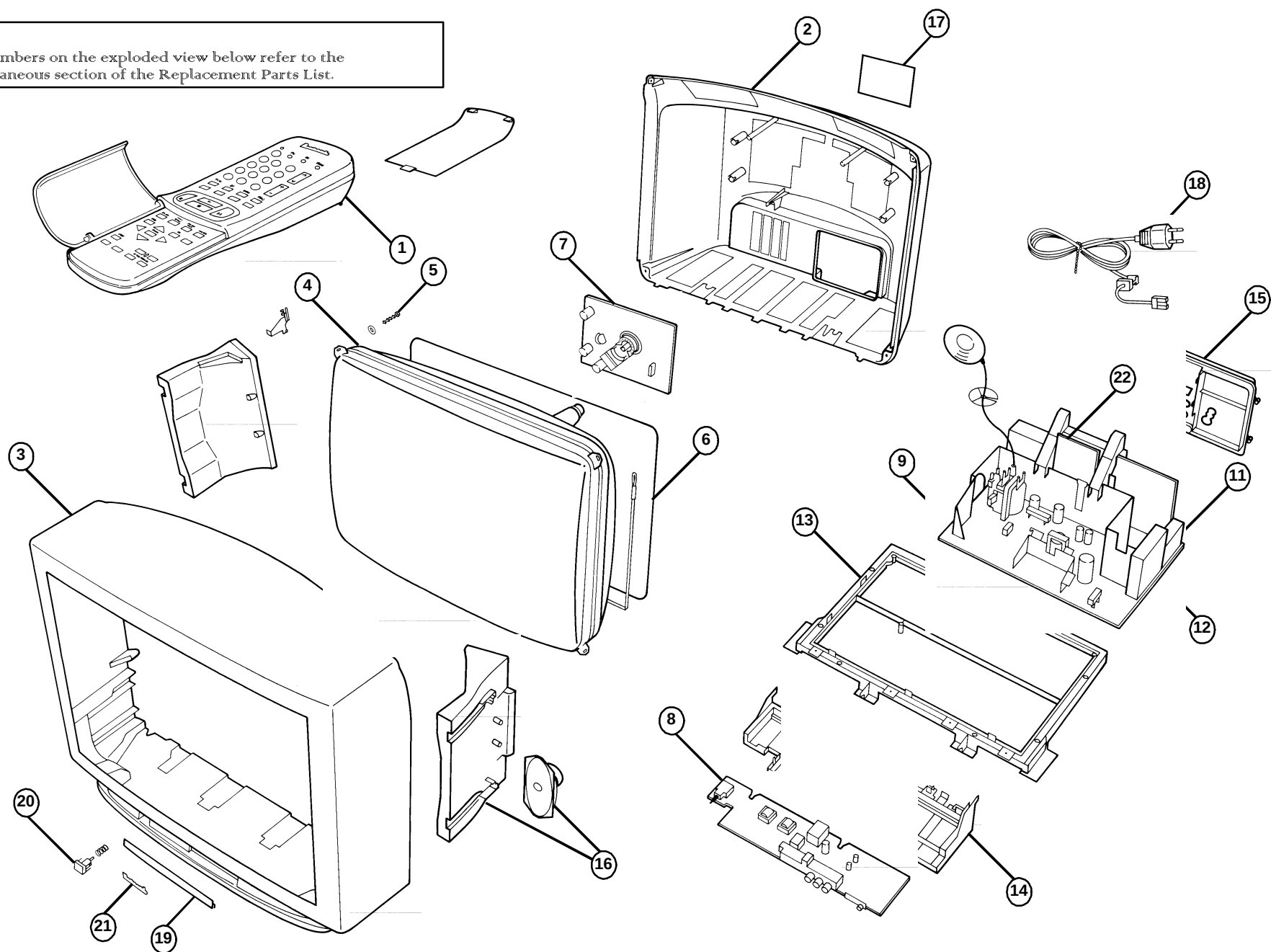
Für den netzverbundenen Bereich (HOT) sind folgende Vorsichtsmaßnahmen zu beachten:

- Weder die Leitungen im hei_en noch Leitungen im hei_en und im kalten Bereich gleichzeitig berühren. Es besteht die Gefahr eines elektrischen Schlages.
- Keinesfalls die Leitungen im hei_en Bereich mit denen im kalten Bereich verbinden oder kurzschliessen. Dies kann zur Zerstörung von Bauteilen oder Sicherungen führen. Außerdem ist die elektrische Betriebssicherheit des Gerätes nicht mehr gegeben.
- Keine Messinstrumente gleichzeitig an Leitungen im heißen und kalten Bereich anschliessen. Sicherungen könnten zerstört werden. Die Erde des Messinstrumentes immer mit der des zu prüfenden Schaltkreises verbinden.
- Vor Ausbau des Chassis, Stecker aus der Netzsteckdose ziehen.
Pos. Nr: Part No: Wert:
R451 TSF19801 800mA

PARTS LOCATION

NOTE :

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



TX-29AD1D TX-25AD1D

REPLACEMENT PARTS LIST

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

ERSATZTEILLISTE

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

PARTS COMMON TO TX - 29AD1D AND TX - 25AD1D

MISCELLANEOUS COMPONENTS

1)	EUR51920	REMOTE CONTROL	
2)	*****	SEE DIFFERENCE LIST	
3)	*****	SEE DIFFERENCE LIST	
4)	*****	SEE DIFFERENCE LIST	
5)	THT1009R	CRT FIXING SCREW	
6)	*****	SEE DIFFERENCE LIST	
7)	*****	SEE DIFFERENCE LIST	
8)	TNP117038AA	M P.C.B.	▲
9)	*****	SEE DIFFERENCE LIST	
10)	*****	SEE DIFFERENCE LIST	
11)	ENV578F5G3	TUNER	▲
12)	TNP117039AC	B. P.C.B.	▲
13)	*****	SEE DIFFERENCE LIST	
14)	TMW8E016	M P.C.B. FRAME	
15)	TUX8E018	REAR AV COVER	
16)	*****	SEE DIFFERENCE LIST	
17)	*****	SEE DIFFERENCE LIST	
18)	TSX8E0011	MAINS LEAD	▲
19)	TKP8E1109	A.V. DOOR	
20)	TBX8E021	POWER BUTTON	
21)	TBM153022	PANASONIC BADGE	
22)	TNP117035	F P.C.B.	▲
	TBM8E1182	ANTENNA BLIND SHEET	
	TBX8E022	OPERATE KEY	
	TEK6343	LID DAMPER	
	TEK6940	LID CATCHER	
	TES2249	SPRING FOR POWER BUTTON	
	TES2298	CRT EARTH SPRING	
	TMW8E017	L.E.D. HOLDER	
	TNA10804	VIF PACK	
	TQB8E0916A	INST BOOK	GERMAN ▲
	TQB8E0916B	INST BOOK	DUTCH ▲
	TQB8E0916C	INST BOOK	ITALIAN ▲
	TBM8E1475	BLIND SHEET	
	TBM8E1475	BLIND SHEET	
	TPD8E562	CUSHION	
	UM-3DEP-2P	BATTERY	

CAPACITORS

C201	ECA1HFQ101	ELECT	50V	1mF
C202	ECQB1H103J	FILM	50V	10nF
C203	ECEA1CU221	ELECT	16V	220mF
C204	ECQB1H104J	FILM	50V	100nF
C206	222236516334	FILM	160V	330nF
C212	ECEA1HUR22	ELECT	50V	0.22mF
C226	ECQB1H104J	FILM	50V	100nF
C228	ECKC1H102J	CERAMIC	50V	1000pF
C229	ECKC1H102J	CERAMIC	50V	1000pF
C462	ECEA1EU101	ELECT	25V	100mF
C463	ECEA1EU471	ELECT	25V	470mF
C465	ECEA1CU470	ELECT	16V	47mF
C466	ECEA1HU222	ELECT	50V	2200mF
C467	ECQB1H103J	FILM	50V	10nF
C470	222236516184	FILM	160V	180nF
C471	ECEA1HU010	ELECT	50V	1mF

C472	ECEA1CU101	ELECT	16V	100mF
C473	ECEA1EGE222	ELECT	25V	2200mF
C476	ECEA1HU4R7	ELECT	50V	4.7mF
C477	ECEA1HU4R7	ELECT	50V	4.7mF
C479	222236576104	FILM	760V	100nF
C480	222236516184	FILM	160V	180nF
C481	ECEA1HU010	ELECT	50V	1mF
C482	ECEA1CU101	ELECT	16V	100mF
C483	ECEA1EGE222	ELECT	25V	2200mF
C486	ECEA1HU4R7	ELECT	50V	4.7mF
C487	ECEA1HU4R7	ELECT	50V	4.7mF
C489	222236576104	FILM	760V	100nF
C492	ECEA1VU4R7	ELECT	35V	4.7mF
C495	ECEA1EU101	ELECT	25V	100mF
C496	ECEA1CU100	ELECT	16V	10mF
C521	ECEA1HU101	ELECT	50V	100mF
C524	222236516105	FILM	160V	1mF
C527	ECQM2683JZ	FILM	250V	68nF
C531	ECQM2564KZ	FILM	250V	560nF
C536	ECWH12H103J	FILM	1250V	10nF ▲
C538	ECWF2H514J	FILM	500V	510nF ▲
C543	ECEA2VU2R2	ELECT	350V	2.2mF
C544	ECKC3D152J	CERAMIC	2KV	1.5nF ▲
C547	ECKC2H101J	CERAMIC	500V	100pF ▲
C548	ECEA2EU220	ELECT	250V	22mF
C549	ECEA2AU2R2	ELECT	100V	2.2mF
C557	ECKC2H101J	CERAMIC	500V	100pF ▲
C558	ECEA1VU102	ELECT	35V	1000mF
C561	ECEA1VU222	ELECT	35V	2200mF
C562	222236576104	FILM	760V	100nF
C563	ECEA1VU471	ELECT	35V	470mF
C564	ECQB1H473K	FILM	50V	47nF
C574	ECEA1VU332	ELECT	35V	3300mF
C577	222236516105	FILM	160V	1mF
C579	ECKC1H472J	CERAMIC	50V	4.7nF
C592	ECEA1CU330	ELECT	16V	33mF
C594	ECKC1H103JB	CERAMIC	50V	10nF
C595	ECQB1H102J	FILM	50V	1nF
C618	ECOS2GG181NG	ELECT	400V	180mF ▲
C619	ECQE6104K	FILM	600V	100nF ▲
C622	ECEA1HFS470	ELECT	50V	47mF
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	1mF
C635	ECKC3D331J	CERAMIC	2KV	330pF ▲
C636	ECKC2H472J	CERAMIC	500V	4.7nF ▲
C637	ECQB1H222J	FILM	50V	2200pF
C638	ECQF6333JZH	FILM	600V	0.033mF
C639	ECKCWS222MEJ	CERAMIC		2200pF
C647	222236516334	FILM	160V	330nF
C650	ECKC3A102J	CERAMIC	1KV	1nF ▲
C651	ECOS2EA221AB	ELECT	400V	220mF
C656	ECKC2H681J	CERAMIC	500V	680pF ▲

TX-29AD1D TX-25AD1D

CC657	ECEA1HU471	ELECT	50V	470mF		C1310	ECEA1CU100	ELECT	16V	10mF
C661	ECKC2H821J	CERAMIC	500V	820pF	▲	C1311	ECUV1H104ZFX	S.M. CAP	50V	100nF
662	ECEA1EU222	ELECT	25V	2200mF		C1312	ECEA50Y3R3	ELECT	50V	3.3mF
C666	222236516224	FILM	160V	220nF		C1313	ECUV1H471JCX	S.M. CAP	50V	470pF
C667	ECEA1CU471	ELECT	16V	470mF		C1314	ECUV1H471JCX	S.M. CAP	50V	470pF
C671	ECKC2H681J	CERAMIC	500V	680pF	▲	C1315	ECEA1CU100	ELECT	16V	10mF
C672	ECEA1EU222	ELECT	25V	2200mF		C1316	ECUV1H104ZFX	S.M. CAP	50V	100nF
C677	ECEA1CU471	ELECT	16V	470mF		C1321	ECUV1H030CCX	S.M. CAP	50V	30pF
C681	ECEA1EGE101	ELECT	25V	100mF		C1322	ECUV1H030CCX	S.M. CAP	50V	30pF
C682	ECKC2H331J	CERAMIC	500V	330pF	▲	C1326	ECQM1H334J	FILM	50V	330nF
C687	ECEA1HGE102	ELECT	50V	1000mF		C1327	ECUV1H221JCX	S.M. CAP	50V	220pF
C1001	ECEA1CU470	ELECT	16V	47mF		C1331	ECUV1H391JCX	S.M. CAP	50V	390pF
C1002	ECUV1H104ZFX	S.M. CAP	50V	100nF		C1332	ECUV1H391JCX	S.M. CAP	50V	390pF
C1011	ECEA1CU470	ELECT	16V	47mF		C1346	ECUV1H221JCX	S.M. CAP	50V	220pF
C1012	ECUV1H473ZFX	S.M. CAP	50V	47nF		C1347	ECUV1H221JCX	S.M. CAP	50V	220pF
C1013	ECEA1CU470	ELECT	16V	47mF		C1351	ECEA1CU470	ELECT	16V	47mF
C1019	ECEA1CU470	ELECT	16V	47mF		C1352	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1020	ECEA1CU470	ELECT	16V	47mF		C1353	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1021	ECEA1HUR47	ELECT	50V	0.47mF		C1377	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1022	ECEA1HUR47	ELECT	50V	0.47mF		C1382	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1023	ECUV1H221JCX	S.M. CAP	50V	220pF		C1409	ECUV1H470JCX	S.M. CAP	50V	47pF
C1024	ECUV1H221JCX	S.M. CAP	50V	220pF		C1411	ECUV1H070DCX	S.M. CAP	50V	7pF
C1031	ECEA1HNR47	ELECT	50V	0.47mF		C1412	ECUV1H100DCX	S.M. CAP	50V	10pF
C1032	ECEA1HUR47	ELECT	50V	0.47mF		C1413	ECUV1H220JCX	S.M. CAP	50V	22pF
C1033	ECUV1H221JCX	S.M. CAP	50V	220pF		C1416	ECUV1H070DCX	S.M. CAP	50V	7pF
C1034	ECUV1H221JCX	S.M. CAP	50V	220pF		C1417	ECUV1H560JCX	S.M. CAP	50V	56pF
C1036	ECEA1CU470	ELECT	16V	47mF		C1444	ECUV1H102KBX	S.M. CAP	50V	1nF
C1038	ECEA1CU470	ELECT	16V	47mF		C1454	ECUV1H102KBX	S.M. CAP	50V	1nF
C1041	ECUV1H103KBX	S.M. CAP	50V	10nF		C1463	ECUV1H102KBX	S.M. CAP	50V	1nF
C1042	ECUV1H103KBX	S.M. CAP	50V	10nF		C1465	ECUV1H560JCX	S.M. CAP	50V	56pF
C1043	ECEA1HUR47	ELECT	50V	0.47mF		C1467	ECUV1H102KBX	S.M. CAP	50V	1nF
C1044	ECEA1HUR47	ELECT	50V	0.47mF		C1468	ECUV1H102KBX	S.M. CAP	50V	1nF
C1051	ECEA1HNR33	ELECT	50V	0.33mF		C1473	ECUV1H102KBX	S.M. CAP	50V	1nF
C1052	ECEA1HNR33	ELECT	50V	0.33mF		C1475	ECUV1H560JCX	S.M. CAP	50V	56pF
C1071	ECEA1CN470	ELECT	16V	47mF		C1483	ECUV1H102KBX	S.M. CAP	50V	1nF
C1091	ECEA1CU470	ELECT	16V	47mF		C1487	ECUV1H103KBX	S.M. CAP	50V	10nF
C1101	ECEA1HUR47	ELECT	50V	0.47mF		C1493	ECUV1H102KBX	S.M. CAP	50V	1nF
C1111	ECEA1HU470	ELECT	50V	47mF		C1497	ECUV1H103KBX	S.M. CAP	50V	10nF
C1112	ECUV1H473ZFX	S.M. CAP	50V	47nF		C1601	ECEA1CU470	ELECT	16V	47mF
C1116	ECUV1H473ZFX	S.M. CAP	50V	47nF		C1602	ECUV1H103KBX	S.M. CAP	50V	10nF
C1121	ECEA1HUR47	ELECT	50V	0.47mF		C1606	ECEA0JU102	ELECT	6.3V	1000mF
C1124	ECUV1H473ZFX	S.M. CAP	50V	47nF		C1607	ECUV1H103KBX	S.M. CAP	50V	10nF
C1126	ECEA1CU470	ELECT	16V	47mF		C1611	ECEA1CU470	ELECT	16V	47mF
C1151	ECUV1H102KBX	S.M. CAP	50V	1nF		C1612	ECUV1H103KBX	S.M. CAP	50V	10nF
C1158	ECEA1HUR47	ELECT	50V	0.47mF		C1613	ECEA1CU100	ELECT	16V	10mF
C1161	ECUV1H102KBX	S.M. CAP	50V	1nF		C1614	ECUV1H473ZFX	S.M. CAP	50V	47nF
C1178	ECUV1H473ZFX	S.M. CAP	50V	47nF		C1615	ECUV1H103KBX	S.M. CAP	50V	10nF
C1179	ECEA1CU470	ELECT	16V	47mF		C1616	ECUV1H101JCX	S.M. CAP	50V	100pF
C1183	ECUV1H104ZFX	S.M. CAP	50V	100nF		C1617	ECUV1H470JCX	S.M. CAP	50V	47pF
C1193	ECUV1H104ZFX	S.M. CAP	50V	100nF		C1618	ECUV1H470JCX	S.M. CAP	50V	47pF
C1226	ECUV1H560JCX	S.M. CAP	50V	56pF		C1619	ECUV1H103KBX	S.M. CAP	50V	10nF
C1231	ECUV1H104ZFX	S.M. CAP	50V	100nF		C1620	ECUV1H102KBX	S.M. CAP	50V	1nF
C1241	ECUV1H472KBX	S.M. CAP	50V	4.7nF		C1621	ECUV1H103KBX	S.M. CAP	50V	10nF
C1242	ECUV1H472KBX	S.M. CAP	50V	4.7nF		C1624	ECEA1HNR22	ELECT	50V	0.22mF
C1263	ECUV1H102KBX	S.M. CAP	50V	1nF		C1626	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1266	ECUV1H104ZFX	S.M. CAP	50V	100nF		C1627	ECEA1HNR22	ELECT	50V	0.22mF
C1271	ECUV1H102KBX	S.M. CAP	50V	1nF		C1641	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1273	ECEA1HUR47	ELECT	50V	0.47mF		C1651	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1282	ECEA1HUR47	ELECT	50V	0.47mF		C1652	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1284	ECEA1HUR47	ELECT	50V	0.47mF		C1653	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1301	ECEA1CU100	ELECT	16V	10mF		C1655	ECEA1CU470	ELECT	16V	47mF
C1302	ECUV1H104ZFX	S.M. CAP	50V	100nF		C1661	ECUV1H102KBX	S.M. CAP	50V	1nF
C1303	ECEA1CU100	ELECT	16V	10mF		C1662	ECUV1H683ZFX	S.M. CAP	50V	68nF
C1304	ECUV1H104ZFX	S.M. CAP	50V	100nF		C1663	ECUV1H102KBX	S.M. CAP	50V	1nF
C1306	ECEA1CU101	ELECT	16V	100mF		C1666	ECUV1H102KBX	S.M. CAP	50V	1nF
C1307	ECUV1H104ZFX	S.M. CAP	50V	100nF		C1667	ECUV1H683ZFX	S.M. CAP	50V	68nF
C1309	ECEA1CU100	ELECT	16V	10mF		C1668	ECUV1H104ZFX	S.M. CAP	50V	100nF

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C1673	ECUV1H104ZFX	S.M. CAP	50V	100nF	C2607	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1680	ECUV1H471JCX	S.M. CAP	50V	470pF	C2609	ECEA1CKA470	ELECT	16V	47mF
C1681	ECUV1H102KBX	S.M. CAP	50V	1nF	C2611	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1682	ECUV1H102KBX	S.M. CAP	50V	1nF	C2612	ECEA1CKA470	ELECT	16V	47mF
C1683	ECUV1H271JCX	S.M. CAP	50V	270pF	C2613	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1684	ECUV1H121JCX	S.M. CAP	50V	120pF	C2614	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1685	ECUV1H102KBX	S.M. CAP	50V	1nF	C2615	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1686	ECUV1H271JCX	S.M. CAP	50V	270pF	C2616	ECEA1CKA470	ELECT	16V	47mF
C1687	ECUV1H121JCX	S.M. CAP	50V	120pF	C2617	ECEA1HKNR47	ELECT	50V	0.47mF
C1688	ECUV1H471JCX	S.M. CAP	50V	470pF	C2618	ECEA1CKA470	ELECT	16V	47mF
C1691	ECUV1H104ZFX	S.M. CAP	50V	100nF	C2619	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1692	ECUV1H104ZFX	S.M. CAP	50V	100nF	C2620	ECEA1CKA100	ELECT	16V	10mF
C1693	ECUV1H104ZFX	S.M. CAP	50V	100nF	C2621	ECQM1H474J	FILM	50V	470nF
C1696	ECUV1H102KBX	S.M. CAP	50V	1nF	C2623	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1697	ECUV1H100DCX	S.M. CAP	50V	10pF	C2625	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1698	ECUV1H102KBX	S.M. CAP	50V	1nF	C2627	ECEA1CKA470	ELECT	16V	47mF
C1699	ECUV1H100DCX	S.M. CAP	50V	10pF	C2630	ECEA1CKA470	ELECT	16V	47mF
C1701	ECEA1CU470	ELECT	16V	47mF	C2631	ECEA1CKA470	ELECT	16V	47mF
C1702	ECUV1H103KBX	S.M. CAP	50V	10nF	C2632	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1704	ECEA1CU470	ELECT	16V	47mF	C2633	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1706	ECUV1H104ZFX	S.M. CAP	50V	100nF	C2634	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1714	ECUV1H103KBX	S.M. CAP	50V	10nF	C2635	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1717	ECUV1H102KBX	S.M. CAP	50V	1nF	C2636	ECEA1CKA100	ELECT	16V	10mF
C1721	ECUV1H473ZFX	S.M. CAP	50V	47nF	C2651	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1722	ECUV1H102KBX	S.M. CAP	50V	1nF	C2652	ECUV1H470JCX	S.M. CAP	50V	47pF
C1752	ECUV1H103KBX	S.M. CAP	50V	10nF	C2653	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1753	ECEA1CU100	ELECT	16V	10mF	C2654	ECUV1H680JCX	S.M. CAP	50V	68pF
C1801	ECUV1H103KBX	S.M. CAP	50V	10nF	C2655	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1804	ECUV1H103KBX	S.M. CAP	50V	10nF	C2656	ECUV1H102KBX	S.M. CAP	50V	1nF
C1811	ECUV1H332KBX	S.M. CAP	50V	3.3nF	C2657	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1816	ERJ6GEYJ153	S.M.CARB	0.1W5%	15KW	C2658	ECEA1HKA4R7	ELECT	50V	4.7mF
C1826	ERJ6GEYJ153	S.M.CARB	0.1W5%	15KW	C2660	ECEA1HKA4R7	ELECT	50V	4.7mF
C1836	ECUV1H104ZFX	S.M. CAP	50V	100nF	C2661	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1838	ECUV1H101JCX	S.M. CAP	50V	100pF	C2662	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1843	ECUV1H472KBX	S.M. CAP	50V	4.7nF	C2664	ECEA1HKA4R7	ELECT	50V	4.7mF
C1845	ECUV1H560JCX	S.M. CAP	50V	56pF	C2665	ECEA1HKA4R7	ELECT	50V	4.7mF
C1849	ECEA1HU4R7	ELECT	50V	4.7mF	C2666	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1851	ECUV1H470JCX	S.M. CAP	50V	47pF	C2667	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1852	ECUV1H390JCX	S.M. CAP	50V	39pF	C2668	ECEA1HKA0R1	ELECT	50V	0.1mF
C1853	ECUV1H390JCX	S.M. CAP	50V	39pF	C2669	ECUV1H181JCX	S.M. CAP	50V	180pF
C1857	ECUV1H560JCX	S.M. CAP	50V	56pF	C2671	ECUV1H152KBX	S.M. CAP	50V	1.5pF
C1859	ECUV1H560JCX	S.M. CAP	50V	56pF	C2672	ECUV1H223KBX	S.M. CAP	50V	22nF
C1871	ECUV1H103KBX	S.M. CAP	50V	10nF	C2674	ECEA1HKA4R7	ELECT	50V	4.7mF
C1879	ECUV1H560JCX	S.M. CAP	50V	56pF	C2675	ECUV1H181JCX	S.M. CAP	50V	180pF
C1888	ECUV1H103KBX	S.M. CAP	50V	10nF	C2676	ECEA1CKA100	ELECT	16V	10mF
C1891	ECUV1H102KBX	S.M. CAP	50V	1nF	C2677	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1893	ECUV1H102KBX	S.M. CAP	50V	1nF	C2678	ECUV1H180JCX	S.M. CAP	50V	18pF
C1894	ECUV1H102KBX	S.M. CAP	50V	1nF	C2679	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1922	ECUV1H103KBX	S.M. CAP	50V	10nF	C2680	ECEA1CKA470	ELECT	16V	47mF
C1925	ECUV1H103KBX	S.M. CAP	50V	10nF	C2681	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1931	ECUV1H103KBX	S.M. CAP	50V	10nF	C2682	ECEA1CKA100	ELECT	16V	10mF
C1941	ECUV1H103KBX	S.M. CAP	50V	10nF	C2683	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1942	ECEA1CU470	ELECT	16V	47mF	C2684	ECEA1CKA470	ELECT	16V	47mF
C1961	ECUV1H332KBX	S.M. CAP	50V	3.3nF	C2685	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1962	ECUV1H332KBX	S.M. CAP	50V	3.3nF	C2686	ECUV1H104ZFX	S.M. CAP	50V	100nF
C1963	ECUV1H332KBX	S.M. CAP	50V	3.3nF	C3101	ECUV1H030CCX	S.M. CAP	50V	30pF
C1964	ECUV1H332KBX	S.M. CAP	50V	3.3nF	C3102	ECUV1H103ZFX	S.M. CAP	50V	10nF
C1971	ECUV1H104ZFX	S.M. CAP	50V	100nF	C3103	ECEA1HU100	ELECT	50V	10mF
C1972	ECEA1CU470	ELECT	16V	47mF	C3122	ECUV1H102KBX	S.M. CAP	50V	1nF
C1973	ECUV1H104ZFX	S.M. CAP	50V	100nF	C3124	ECUV1H471JCX	S.M. CAP	50V	470pF
C1974	ECUV1H104ZFX	S.M. CAP	50V	100nF	C3131	ECKC2H471J	CERAMIC	500V	470pF
C1976	ECUV1H104ZFX	S.M. CAP	50V	100nF	C3134	ECEA1CU101	ELECT	16V	100mF
C1981	ECUV1H104ZFX	S.M. CAP	50V	100nF	C3136	ECKC2H471J	CERAMIC	500V	470pF
C1982	ECUV1H101JCX	S.M. CAP	50V	100pF	C3139	ECEA1CU101	ELECT	16V	100mF
C2603	ECUV1H100DCX	S.M. CAP	50V	10pF	C3141	ECEA1CU471	ELECT	16V	470mF
C2604	ECUV1H104ZFX	S.M. CAP	50V	100nF	C3143	ECEA1CU100	ELECT	16V	10mF
C2605	ECEA1CKA470	ELECT	16V	47mF	C3144	ECEA1CU470	ELECT	16V	47mF
C2606	ECUV1H104ZFX	S.M. CAP	50V	100nF	C3146	ECEA2EU220	ELECT	250V	22mF

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C3152	ECEA2EU220	ELECT	250V	22mF
C3153	ECEA1VU101	ELECT	35V	100mF
C3167	ECUV1H100DCX	S.M. CAP	50V	10pF
C3168	ECUV1H103ZFX	S.M. CAP	50V	10nF
C3169	ECEA1CU100	ELECT	16V	10mF
C3177	ECUV1H150JCX	S.M. CAP	50V	15pF
C3178	ECUV1H103ZFX	S.M. CAP	50V	10nF
C3179	ECEA1CU100	ELECT	16V	10mF
C3188	ECUV1H103ZFX	S.M. CAP	50V	10nF
C3189	ECEA1CU100	ELECT	16V	10mF
C3356	ECEA1CU220	ELECT	16V	22mF
C3357	ECUV1H104ZFX	S.M. CAP	50V	100nF
C3362	TACA1103P2KV	I.C.		
C3363	TACA1103P2KV	I.C.		
C3366	ECEA2EU220	ELECT	250V	22mF
C3367	ECQM2104KZ	FILM	250V	100nF
C3369	ECEA1CU100	ELECT	16V	10mF
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	ECEA1CU471	ELECT	16V	470mF
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	0.47mF
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	10mF
C4709	ECUV1H104ZFX	S.M. CAP	50V	100nF
C4710	ECEA1CKA100	ELECT	16V	10mF
C4711	ECUV1H390JPX	S.M. CAP	50V	39pF
C4712	ECUV1H150JCX	S.M. CAP	50V	15pF
C4713	ECUV1H104ZFX	S.M. CAP	50V	100nF
C4714	ECEA1EKA100	ELECT	25V	10mF
C4715	ECUV1H104ZFX	S.M. CAP	50V	100nF
C4716	ECEA1CKA100	ELECT	16V	10mF
C4717	ECUV1H683ZFX	S.M. CAP	50V	68nF
C4718	ECUV1H102KBX	S.M. CAP	50V	1nF
C4719	ECEA1HKAR47	ELECT	50V	0.47mF
C4720	ECUV1H104ZFX	S.M. CAP	50V	100nF
C4721	ECEA1HKA2R2	ELECT	50V	2.2mF
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	47mF
C4729	ECUV1H102KBX	S.M. CAP	50V	1nF
C4730	ECUV1H102KBX	S.M. CAP	50V	1nF
C4733	ECUV1H270JPX	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	1mF
C6101	ECEA1HU471	ELECT	50V	470mF
C6102	ECQM1H334J	FILM	50V	330nF
C6103	ECQM1H104J	FILM	50V	100nF
C6106	ECEA1HU101	ELECT	50V	100mF
C6301	ECEA1CU470	ELECT	16V	47mF
C6303	ECUV1H103ZFX	S.M. CAP	50V	10nF

C6401	ECEA1CU101	ELECT	16V	100mF
C6402	ECEA1CU101	ELECT	16V	100mF
C6403	ECUV1H103ZFX	S.M. CAP	50V	10nF
C6406	ECEA1HU4R7	ELECT	50V	4.7mF
C6407	ECUV1H102KBX	S.M. CAP	50V	1nF
C6408	ECEA1HU4R7	ELECT	50V	4.7mF
C6409	ECUV1H561JCX	S.M. CAP	50V	560pF
C6410	ECUV1H561JCX	S.M. CAP	50V	560pF
C6417	ECEA1CU471	ELECT	16V	470mF
C6436	ECEA1HU4R7	ELECT	50V	4.7mF
C6437	ECUV1H102KBX	S.M. CAP	50V	1nF
C6438	ECEA1HU4R7	ELECT	50V	4.7mF
C6447	ECEA1CU471	ELECT	16V	470mF
C6491	ECUV1H271JCX	S.M. CAP	50V	270pF
C6591	ECUV1H271JCX	S.M. CAP	50V	270pF
C6812	ECQU2A154MN	FILM	250V	150nF
C6815	ECQU2A224MN	FILM	250V	220nF

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
D526	MA165TA5	DIODE
D527	EU02	DIODE
D536	ERB0615	DIODE TYPD0753VAG
D537	TVSRU2AM	DIODE
D544	TVSES1FV1	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
D569	MA2082ALFS	DIODE
D613	RBV4-08	DIODE
D622	MA167TA5	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

TX-29AD1D TX-25AD1D

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
D1617	PMLL4148L	DIODE
D1623	PMLL4148L	DIODE
D1624	PMLL4148L	DIODE
D1681	PMLL4148L	DIODE
D1682	PMLL4148L	DIODE
D1941	PMLL5232B	DIODE
D3126	PMLL4148L	DIODE
D3127	PMLL4148L	DIODE
D3133	PMLL4148L	DIODE
D3138	PMLL4148L	DIODE
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	LN81RPHL	DIODE
D6381	PMLL4148L	DIODE
D6382	PMLL4148L	DIODE
D6391	PMLL4148L	DIODE
D6392	PMLL4148L	DIODE
D6491	PMLL4148L	DIODE
D6492	PMLL4148L	DIODE
D6591	PMLL4148L	DIODE
D6592	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	

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	TL431ACLPM	COIL
I1111	TEA6415B	VIDEO SWITCH
I1301	MSP3400	AUDIO PROCESSOR

I1351	AN78L08TA	8V REGULATOR
I1701	TPU3040-12	TEXT PROCESSOR
I1871	27C010-07A	EPROM
I1941	ST24C08CB1	EAROM
I1981	MN1280R	RESET
I2601	MC141625A	FILTER
I2651	UPC1860GS-E1	DELAY
I4700	LA7577N	V.I.F.
I4701	AN78N12	12V REGULATOR
I6101	AN78L05TA	5V REGULATOR
I6301	RPM-637CBRS1	LED RECEIVER

SOCKETS/TERMINALS/LINK WIRES

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
B19	ERJ6GEY0R00	WIRE LINK
H1871	832AG11D-ESL	I.C. SOCKET
JC1001	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1002	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1003	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1004	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1005	ERJ6GEY0R00	WIRE LINK
JC1006	ERJ6GEY0R00	WIRE LINK
JC1007	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1008	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1009	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1010	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1011	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1012	ERJ6GEY0R00	WIRE LINK
JC1013	ERJ6GEY0R00	WIRE LINK
JC1014	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1015	ERJ6GEY0R00	WIRE LINK
JC1016	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1017	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1018	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1019	ERJ6GEY0R00	WIRE LINK
JC1020	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1021	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1022	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1023	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1024	ERJ6GEY0R00	WIRE LINK
JC1025	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1026	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1027	ERJ6GEY0R00	WIRE LINK
JC1029	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1030	ERJ6GEY0R00	WIRE LINK
JC1031	ERJ6GEY0R00	WIRE LINK
JC1032	ERJ6GEY0R00	WIRE LINK
JC1033	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1034	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1035	ERJ6GEY0R00	WIRE LINK
JC1036	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1037	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1040	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1041	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1042	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1043	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1044	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1045	ERJ6GEY0R00	WIRE LINK
JC1047	ERJ8GEY0R00	METAL 0.125W 1% 0W

TX-29AD1D TX-25AD1D

JC1048	ERJ6GEY0R00	WIRE LINK
JC1049	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1050	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1051	ERJ6GEY0R00	WIRE LINK
JC1052	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1053	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1054	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1055	ERJ6GEY0R00	WIRE LINK
JC1056	ERJ6GEY0R00	WIRE LINK
JC1057	ERJ6GEY0R00	WIRE LINK
JC1058	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1059	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1060	ERJ6GEY0R00	WIRE LINK
JC1061	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1062	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1064	ERJ6GEY0R00	WIRE LINK
JC1065	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1066	ERJ6GEY0R00	WIRE LINK
JC1067	ERJ6GEY0R00	WIRE LINK
JC1068	ERJ6GEY0R00	WIRE LINK
JC1069	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1070	ERJ6GEY0R00	WIRE LINK
JC1071	ERJ6GEY0R00	WIRE LINK
JC1072	ERJ6GEY0R00	WIRE LINK
JC1073	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1074	ERJ6GEY0R00	WIRE LINK
JC1075	ERJ6GEY0R00	WIRE LINK
JC1076	ERJ6GEY0R00	WIRE LINK
JC1077	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1078	ERJ6GEY0R00	WIRE LINK
JC1079	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1080	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1081	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1082	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1083	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1084	ERJ6GEY0R00	WIRE LINK
JC1085	ERJ6GEY0R00	WIRE LINK
JC1086	ERJ6GEY0R00	WIRE LINK
JC1087	ERJ6GEY0R00	WIRE LINK
JC1088	ERJ6GEY0R00	WIRE LINK
JC1089	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1090	ERJ6GEY0R00	WIRE LINK
JC1091	ERJ6GEY0R00	WIRE LINK
JC1093	ERJ8GEY0R00	METAL 0.125W 1% W0
JC1094	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1095	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1096	ERJ6GEY0R00	WIRE LINK
JC1097	ERJ6GEY0R00	WIRE LINK
JC1098	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1099	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1100	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1101	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1102	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1103	ERJ6GEY0R00	WIRE LINK
JC1104	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1105	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1106	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1107	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1108	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1109	ERJ6GEY0R00	WIRE LINK
JC1112	ERJ6GEY0R00	WIRE LINK
JC1113	ERJ6GEY0R00	WIRE LINK
JC1114	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1115	ERJ6GEY0R00	WIRE LINK
JC1116	ERJ6GEY0R00	WIRE LINK
JC1117	ERJ6GEY0R00	WIRE LINK
JC1118	ERJ6GEY0R00	WIRE LINK

JC1119	ERJ6GEY0R00	WIRE LINK
JK6401	TJB16656	A.V. TERMINAL
J2	ERJ6GEY0R00	WIRE LINK
J12	EXCELSA39V	COIL
J23	EXCELSA39V	COIL
W1951	MKS165810808	CONNECTOR

COILS

L204	ELER220KA	COIL
L230	EXCELSA24T	COIL
L538	297-23293	COIL
L542	ELC08D055	COIL
L554	ELER220KA	COIL
L626	EXCELD35C	COIL
L650	EXCELD35C	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
L1684	ELEMV1R5MA	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
L1888	ELEV4R7KA	COIL
L1931	ELEV4R7KA	COIL
L1941	EXCELD35V	COIL
L1972	EXCELD35V	COIL
L1974	EXCELD35V	COIL
L1977	EXCELD35V	COIL
L2602	TLT221K991R	COIL
L2603	TLT221K991R	COIL
L2604	TLT221K991R	COIL
L2605	TLT220K991R	COIL
L2607	TLT220K991R	COIL
L2608	EXCELD35V	COIL
L2609	EXCELD35V	COIL
L2651	TLT150K991R	COIL
L2653	TLT101K991R	COIL
L2654	TLT101K991R	COIL
L2655	TLT101K991R	COIL
L2656	TLT100K991R	COIL
L3161	SDL-4101	COIL
L3171	SDL-4101	COIL
L3181	SDL-4101	COIL

TX-29AD1D TX-25AD1D

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	ELF18D415F	FILTER
L6812	ELF18D415F	FILTER

CONTROLS

PMS1	TMW8E016	CONTROL BRACKET
P633	EVMEASA00B52	CONTROL 500W
P2601	EVND4AA00B13	CONTROL 1KW
P3362	RH092GDJ6J	VARIABLE RESISTOR
P3368	EVN65UA00B24	CONTROL 20KW
P4701	EVNDXAA03B53	CONTROL 5KW

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
Q1267	BC847B	TRANSISTOR
Q1382	BC857B	TRANSISTOR
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
Q2601	BC847B	TRANSISTOR
Q2602	BC847B	TRANSISTOR
Q2603	BC847B	TRANSISTOR
Q2604	BC847B	TRANSISTOR
Q2605	BC857B	TRANSISTOR
Q2606	BC857B	TRANSISTOR
Q2607	BC847B	TRANSISTOR
Q2608	BC847B	TRANSISTOR
Q2609	BC857B	TRANSISTOR
Q2610	BC857B	TRANSISTOR
Q2611	BC857B	TRANSISTOR
Q2612	BC857B	TRANSISTOR
Q2613	BC847B	TRANSISTOR
Q2614	BC847B	TRANSISTOR
Q2616	BC847B	TRANSISTOR
Q2651	BC847B	TRANSISTOR
Q2653	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	R613	ERF10ZK5R6	WIRE	10W	5%	5R6W	▲
Q6417	BC857B	TRANSISTOR	R614	ERDS1TJ394	CARBON	0.5W	5%	390KW	
Q6433	BC847B	TRANSISTOR	R616	ERC12GK154D	SOLID	0.5W	10%	150KW	▲
Q6443	BC847B	TRANSISTOR	R619	232266296706	THERMISTOR				
Q6447	BC857B	TRANSISTOR	R621	ERG2FJ183	METAL	0.5W	5%	18KW	

RL6101	TSE10818	RELAY			
R201	ERD25TJ223	CARBON	0.25W	5%	22KW
R206	ERG2ANJ223	METAL	2W	5%	22KW
R259	ERD25TJ473	CARBON	0.25W	5%	47KW
R462	ERD25TJ101	CARBON	0.25W	5%	100W
R463	ERD25TJ103	CARBON	0.25W	5%	10KW
R466	ERD25TJ153	CARBON	0.25W	5%	15KW
R470	ERD25TJ560	CARBON	0.25W	5%	56W
R471	ERD25TJ102	CARBON	0.25W	5%	1KW
R472	ERD25TJ333	CARBON	0.25W	5%	33KW
R473	ERD25TJ270	CARBON	0.25W	5%	27W
R477	ERD25TJ684	CARBON	0.25W	5%	680KW
R478	ERD25TJ332	CARBON	0.25W	5%	3K3W
R479	ERDS1TJ2R2	CARBON	0.5W	5%	2.2W
R480	ERD25TJ560	CARBON	0.25W	5%	56W
R481	ERD25TJ102	CARBON	0.25W	5%	1KW
R482	ERD25TJ333	CARBON	0.25W	5%	33KW
R483	ERD25TJ270	CARBON	0.25W	5%	27W
R484	ERD25TJ273	CARBON	0.25W	5%	27KW
R485	ERD25TJ561	CARBON	0.25W	5%	560W
R486	ERD25TJ333	CARBON	0.25W	5%	33KW
R487	ERD25TJ684	CARBON	0.25W	5%	680KW
R488	ERD25TJ332	CARBON	0.25W	5%	3K3W
R489	ERDS1TJ2R2	CARBON	0.5W	5%	2.2W
R490	ERD25TJ563	CARBON	0.25W	5%	56KW
R491	ERQ14AJ100	METAL	0.25W	5%	10W
R492	ERD25TJ102	CARBON	0.25W	5%	1KW
R493	ERD25TJ473	CARBON	0.25W	5%	47KW
R494	ERD25TJ684	CARBON	0.25W	5%	680KW
R496	ERD25TJ103	CARBON	0.25W	5%	10KW
R497	ERD25TJ103	CARBON	0.25W	5%	10KW
R498	ERD25TJ103	CARBON	0.25W	5%	10KW
R499	ERD25TJ473	CARBON	0.25W	5%	47KW
R521	ERQ14AJ3R3	METAL	0.25W	5%	3R3W
R526	ERD25TJ560	CARBON	0.25W	5%	56W
R527	ERDS1TJ152	CARBON	0.5W	5%	1K5W
R528	ERDS1TJ152	CARBON	0.5W	5%	1K5W
R531	ERF10ZK6R8	WIRE	10W	5%	6R8W
R532	ERW2PKR56	WIRE	2W	10%	R56W
R533	ERDS1TJ220	CARBON	0.5W	5%	22W
R541	ERG1ANJ152	METAL	1W	5%	1K5W
R542	ERQ12AJ101	FUSABLE	0.5W	5%	100W
R543	ERD25TJ103	CARBON	0.25W	5%	10KW
R546	ERDS1TJ184	CARBON	0.5W	5%	180K
R548	ERD25TJ223	CARBON	0.25W	5%	22KW
R549	ERDS1TJ224	CARBON	0.5W	5%	220KW
R557	ERQ12HKR22	FUSIBLE	0.5W	5%	0R22W
R559	ERDS1TJ100	CARBON	0.5W	5%	10W
R561	ERQ12HJ1R5	FUSIBLE	0.5W	5%	1R5W
R563	ERD25TJ104	CARBON	0.25W	5%	100KW
R564	ERD25TJ223	CARBON	0.25W	5%	22KW
R566	ERD25TJ472	CARBON	0.25W	5%	4K7W
R567	ERD25TJ472	CARBON	0.25W	5%	4K7W
R568	ERD25TJ1R5	CARBON	0.25W	5%	1R5W
R569	ERDS1TJ821	CARBON	0.5W	5%	820W
R572	ERO25CKF1801	METAL	0.25W	1%	1K8W
R573	ERO25CKF1801	METAL	0.25W	1%	1K8W
R592	ERD25TJ103	CARBON	0.25W	5%	10KW
R593	ERD25TJ103	CARBON	0.25W	5%	10KW
R598	ERD25TJ102	CARBON	0.25W	5%	1KW

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TX-29AD1D TX-25AD1D

R1124	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	R1467	ERJ6GEY0R00	WIRE LINK		
R1125	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	R1474	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100W
R1126	ERQ14AJ100	METAL	0.25W	5%	10W	R1476	ERJ6GEYJ222	S.M.CARB	0.1W	5% 2K2W
R1127	ERJ6GEY0R00	WIRE LINK				R1477	ERJ6GEY0R00	WIRE LINK		
R1131	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1484	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100W
R1132	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1486	ERJ6GEYJ222	S.M.CARB	0.1W	5% 2K2W
R1133	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1487	ERJ6GEYJ471	S.M.CARB	0.1W	5% 470W
R1151	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R1494	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100W
R1152	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R1496	ERJ6GEYJ222	S.M.CARB	0.1W	5% 2K2W
R1153	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R1497	ERJ6GEYJ471	S.M.CARB	0.1W	5% 470W
R1156	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W	R1608	ERJ6GEY0R00	WIRE LINK		
R1158	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1612	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100W
R1159	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R1613	ERJ6GEYJ560	S.M.CARB	0.1W	5% 56W
R1161	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8W	R1614	ERJ6GEYJ331	S.M.CARB	0.1W	5% 330W
R1162	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KW	R1615	ERJ6GEYJ221	S.M.CARB	0.1W	5% 220W
R1163	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W	R1616	ERJ6GEYJ151	S.M.CARB	0.1W	5% 150W
R1166	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1617	ERJ6GEYJ333	S.M.CARB	0.1W	5% 33KW
R1167	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1618	ERJ6GEYJ151	S.M.CARB	0.1W	5% 150W
R1168	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68W	R1619	ERJ6GEYJ151	S.M.CARB	0.1W	5% 150W
R1169	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W	R1621	ERJ6GEYJ102	S.M.CARB	0.1W	5% 1KW
R1171	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R1622	ERJ6GEYJ103	S.M.CARB	0.1W	5% 10KW
R1172	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1623	ERJ6GEYJ123	S.M.CARB	0.1W	5% 12KW
R1173	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	R1624	ERJ6GEYJ333	S.M.CARB	0.1W	5% 33KW
R1174	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	R1627	ERJ6GEYJ750	S.M.CARB	0.1W	5% 75W
R1177	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W	R1630	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100W
R1178	ERQ14AJ100	METAL	0.25W	5%	10W	R1631	ERJ6GEYJ470	S.M.CARB	0.1W	5% 47W
R1181	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1632	ERJ6GEYJ391	S.M.CARB	0.1W	5% 390W
R1182	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1633	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100W
R1183	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68W	R1634	ERJ6GEYJ332	S.M.CARB	0.1W	5% 3K3W
R1184	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1636	ERJ6GEYJ750	S.M.CARB	0.1W	5% 75W
R1185	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W	R1637	ERJ8GEYJ471	S.M.CAR	0.125W	5% 470W
R1191	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1641	ERJ6GEYJ821	S.M.CARB	0.1W	5% 820W
R1192	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1642	ERJ6GEYJ391	S.M.CARB	0.1W	5% 390W
R1193	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68W	R1643	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100W
R1194	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1644	ERJ6GEYJ332	S.M.CARB	0.1W	5% 3K3W
R1195	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R1646	ERJ6GEYJ750	S.M.CARB	0.1W	5% 75W
R1221	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW	R1647	ERJ8GEYJ471	S.M.CAR	0.125W	5% 470W
R1222	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW	R1652	ERJ6GEYJ391	S.M.CARB	0.1W	5% 390W
R1225	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1653	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100W
R1237	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1654	ERJ6GEYJ332	S.M.CARB	0.1W	5% 3K3W
R1241	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1656	ERJ6GEYJ750	S.M.CARB	0.1W	5% 75W
R1242	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R1657	ERJ8GEYJ471	S.M.CAR	0.125W	5% 470W
R1251	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R1661	ERJ6GEYJ472	S.M.CARB	0.1W	5% 4K7W
R1261	ERJ6GEY0R00	WIRE LINK				R1664	ERJ6GEYJ472	S.M.CARB	0.1W	5% 4K7W
R1263	ERJ8GEYJ104	S.M.CAR	0.125W	5%	100KW	R1666	ERJ6GEYJ472	S.M.CARB	0.1W	5% 4K7W
R1264	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R1667	ERJ6GEYJ104	S.M.CARB	0.1W	5% 100KW
R1266	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68W	R1669	ERJ6GEYJ472	S.M.CARB	0.1W	5% 4K7W
R1267	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1671	ERJ6GEYJ472	S.M.CARB	0.1W	5% 4K7W
R1268	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R1672	ERJ6GEYJ472	S.M.CARB	0.1W	5% 4K7W
R1269	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R1673	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100W
R1270	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W	R1674	ERJ6GEYJ472	S.M.CARB	0.1W	5% 4K7W
R1271	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R1680	ERJ6GEYJ750	S.M.CARB	0.1W	5% 75W
R1272	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R1681	ERJ6GEYJ472	S.M.CARB	0.1W	5% 4K7W
R1273	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W	R1682	ERJ6GEYJ473	S.M.CARB	0.1W	5% 47KW
R1276	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R1683	ERJ6GEYJ102	S.M.CARB	0.1W	5% 1KW
R1277	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW	R1684	ERJ6GEY0R00	WIRE LINK		
R1281	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	R1691	ERJ6GEYJ750	S.M.CARB	0.1W	5% 75W
R1282	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1692	ERJ6GEYJ750	S.M.CARB	0.1W	5% 75W
R1283	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW	R1693	ERJ6GEYJ750	S.M.CARB	0.1W	5% 75W
R1284	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1694	ERJ6GEYJ750	S.M.CARB	0.1W	5% 75W
R1349	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW	R1696	ERJ8GEYJ103	S.M.CAR	0.125W	5% 10KW
R1381	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KW	R1698	ERJ6GEYJ472	S.M.CARB	0.1W	5% 4K7W
R1382	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW	R1717	ERJ6GEYJ102	S.M.CARB	0.1W	5% 1KW
R1386	ERJ6GEY0R00	WIRE LINK				R1718	ERJ6GEYJ103	S.M.CARB	0.1W	5% 10KW
R1412	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W	R1753	ERJ6GEY0R00	WIRE LINK		
R1464	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R1807	ERJ6GEYJ222	S.M.CARB	0.1W	5% 2K2W
R1465	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KW	R1808	ERJ6GEYJ472	S.M.CARB	0.1W	5% 4K7W
R1466	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W	R1809	ERJ6GEYJ472	S.M.CARB	0.1W	5% 4K7W

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R1811	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2616	ERJ6GEY0R00	WIRE LINK			
R1812	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2617	ERJ6GEY0R00	WIRE LINK			
R1815	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2620	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1816	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW	R2621	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1819	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2622	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1821	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R2623	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W
R1822	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9W	R2624	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1823	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2625	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560W
R1824	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW	R2626	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R1825	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2627	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R1826	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW	R2628	ERJ6GEY0R00	WIRE LINK			
R1827	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KW	R2631	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R1828	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2632	ERJ6GEY0R00	WIRE LINK			
R1829	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R2633	ERJ6GEY0R00	WIRE LINK			
R1831	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9W	R2634	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R1832	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2636	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R1837	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R2637	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R1838	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	R2638	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W
R1840	ERJ6GEY0R00	WIRE LINK				R2639	ERJ6GEYJ754	S.M.CARB	0.1W	5%	750KW
R1842	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R2640	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120W
R1843	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2641	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1844	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R2642	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R1845	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47W	R2643	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KW
R1847	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R2651	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R1849	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2652	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W
R1851	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2653	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R1856	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2654	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W
R1857	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2655	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R1858	ERJ8GEYJ103	S.M.CAR	0.125W	5%	10KW	R2656	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W
R1859	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2658	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R1863	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2659	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220W
R1872	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2660	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KW
R1873	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R2662	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W
R1878	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R2664	ERJ6GEYJ335	S.M.CARB	0.1W	5%	3M3W
R1879	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R2665	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R1882	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R2666	ERJ6GEY0R00	WIRE LINK			
R1884	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W	R2667	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R1885	ERJ8GEY0R00	METAL	0.125W	1%	0W	R2668	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R1886	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W	R2669	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W
R1887	ERJ6GEY0R00	WIRE LINK				R2670	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510W
R1888	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2671	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W
R1889	ERJ8GEY0R00	METAL	0.125W	1%	0W	R2672	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2W
R1893	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2673	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1897	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R2675	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R1920	ERJ8GEYJ472	S.M.CAR	0.125W	5%	4K7W	R2676	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1921	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W	R2677	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W
R1925	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330W	R2680	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R1933	ERJ6GEY0R00	WIRE LINK				R3101	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R1941	ERJ6GEY0R00	WIRE LINK				R3102	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R1953	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3103	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R1957	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3106	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW
R1958	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3107	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R1959	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3108	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R1961	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3109	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R1962	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3111	ERDS1FYJ222	CARBON	0.5W	5%	2K2W ▲
R1963	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3112	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W
R1964	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3113	ERD25TJ681	CARBON	0.25W	5%	680W
R1983	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW	R3121	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R1993	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W	R3122	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R2601	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R3123	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R2602	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3124	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W
R2603	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75W	R3126	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W
R2607	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3127	ERQ14AJ100	METAL	0.25W	5%	10W ▲
R2609	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3128	ERQ14AJ820	METAL	0.25W	5%	82W ▲
R2610	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3129	ERQ14AJ820	METAL	0.25W	5%	82W ▲
R2612	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3130	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
R2613	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW	R3131	ERD25TJ563	CARBON	0.25W	5%	56KW

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R3132	ERD25TJ122	CARBON	0.25W	5%	1K2W		R3386	ERD25TJ561	CARBON	0.25W	5%	560W
R3133	ERD25TJ2R7	CARBON	0.25W	5%	2R7W		R3388	ERC12GK332V	SOLID	0.5W	10%	3K3W
R3134	ERDS1FVJ390	CARBON	0.5W	5%	39W	▲	R3389	ERD25TJ103	CARBON	0.25W	5%	10KW
R3135	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W		R3390	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
R3136	ERD25TJ563	CARBON	0.25W	5%	56KW		R3391	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W
R3137	ERD25TJ122	CARBON	0.25W	5%	1K2W		R3392	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R3138	ERD25TJ2R7	CARBON	0.25W	5%	2R7W		R3393	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W
R3139	ERDS1FVJ390	CARBON	0.5W	5%	39W	▲	R3394	ERDS1TJ913	CARBON	0.5W	5%	91KW
R3141	ERDS1FYJ101	CARBON	0.5W	5%	100W	▲	R3395	ERG2ANJ183	METAL	2W	5%	18KW
R3142	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W		R3396	ERD25TJ561	CARBON	0.25W	5%	560W
R3143	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W		R3398	ERC12GK332V	SOLID	0.5W	10%	3K3W
R3144	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680W		R3399	ERD25TJ103	CARBON	0.25W	5%	10KW
R3146	ERDS1FYJ181	CARBON	0.5W	5%	180W	▲	R4701	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R3152	ERQ12HJ102	METAL	0.5W	5%	1KW	▲	R4702	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3153	ERQ14AJ3R9	FUSIBLE	0.25W	5%	3R9W	▲	R4703	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R3160	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W		R4705	ERJ6GEY0R00	WIRE LINK			
R3161	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R4707	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68KW
R3162	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R4708	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KW
R3163	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W		R4709	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3164	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W		R4710	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180W
R3166	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W		R4711	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R3167	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W		R4713	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R3168	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R4714	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W
R3169	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W		R4715	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820W
R3170	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W		R4716	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R3171	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R4717	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R3172	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R4718	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R3173	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W		R4719	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KW
R3174	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W		R4720	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8W
R3176	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W		R4721	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R3177	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W		R4740	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820W
R3178	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R4743	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8W
R3179	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W		R4744	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180W
R3180	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W		R4745	ERJ6GEY0R00	WIRE LINK			
R3181	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R4746	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R3182	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R4747	ERJ6GEY0R00	WIRE LINK			
R3183	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W		R4748	ERJ6GEY0R00	WIRE LINK			
R3184	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W		R4750	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R3186	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W		R4751	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KW
R3187	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470W		R4752	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3188	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R4753	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120W
R3189	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2W		R4754	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270W
R3307	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W		R4755	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3308	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W		R4756	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W
R3309	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W		R4757	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8W
R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R4758	ERJ6GEY0R00	WIRE LINK			
R3358	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W		R4759	ERJ6GEY0R00	WIRE LINK			
R3359	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W		R4760	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3365	ERD25TJ220	CARBON	0.25W	5%	22W		R4771	ERJ6GEY0R00	WIRE LINK			
R3366	ERQ12AJ101	FUSABLE	0.5W	5%	100W	▲	R4772	ERJ6GEY0R00	WIRE LINK			
R3367	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW		R6102	ERD25TJ151	CARBON	0.25W	5%	150W
R3368	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW		R6111	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R3369	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8W		R6112	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KW
R3370	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W		R6113	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R3371	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W		R6114	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3372	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W		R6301	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3373	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W		R6302	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100W
R3374	ERDS1TJ913	CARBON	0.5W	5%	91KW		R6305	ERJ6GEY0R00	WIRE LINK			
R3375	ERG2ANJ183	METAL	2W	5%	18KW		R6401	ERD25TJ220	CARBON	0.25W	5%	22W
R3376	ERD25TJ561	CARBON	0.25W	5%	560W		R6402	ERD25TJ220	CARBON	0.25W	5%	22W
R3378	ERC12GK332V	SOLID	0.5W	10%	3K3W		R6403	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3379	ERD25TJ103	CARBON	0.25W	5%	10KW		R6404	ERJ6GEY0R00	WIRE LINK			
R3380	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W		R6405	ERJ6GEY0R00	WIRE LINK			
R3381	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7W		R6406	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3382	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3W		R6407	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R3383	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5W		R6408	ERJ6GEY0R00	WIRE LINK			
R3384	ERDS1TJ913	CARBON	0.5W	5%	91KW		R6411	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R3385	ERG2ANJ183	METAL	2W	5%	18KW		R6412	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27KW

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R6413	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R6416	ERD25TJ101	CARBON	0.25W	5%	100W
R6417	ERD25TJ101	CARBON	0.25W	5%	100W
R6418	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
R6433	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R6436	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R6437	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R6438	ERJ6GEY0R00	WIRE LINK			
R6441	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KW
R6442	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27KW
R6443	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R6446	ERD25TJ101	CARBON	0.25W	5%	100W
R6447	ERD25TJ101	CARBON	0.25W	5%	100W
R6448	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10W
R6811	ERC12ZGK335D	SOLID	0.5W	10%	3M3W

SWITCHES

S6304	EVQPB105K	SWITCH
S6305	EVQPB105K	SWITCH
S6306	EVQPB105K	SWITCH

S6307	EVQPB105K	SWITCH
S6308	EVQPB105K	SWITCH
S6811	ESB91232A	SWITCH ▲

TRANSFORMERS

T528	5270103200	TRANSFORMER
T531	ZTFH65005A	TRANSFORMER
T639	ETS39AH117AC	TRANSFORMER
T6101	BV030-7395.0	TRANSFORMER

FILTERS

X1321	TSS4004-B	CRYSTAL
X1608	TSS2169-B	CRYSTAL
X1854	TSS4007-B	CRYSTAL
X2651	TAFC5B503F35	CRYSTAL
X2652	TSS4006-B	CRYSTAL (10082031)
X4703	EFCV3095A6	CHIP FILTER
X4704	G3355K	SAW FILTER
X4706	EFCS5M7MW3	CERAMIC FILTER

PARTS FOR TX - 29AD1D ONLY

MISCELLANEOUS COMPONENTS

2)	TKU8E00156	REAR COVER	⚠
3)	TKY8E031	CABINET	⚠
4)	A68ESF002X11	CRT	⚠
6)	TLK8E05116	DEGAUSS COIL	
7)	TNP117037AC	Y P.C.B.	⚠
9)	TNP197087AD	E P.C.B.	⚠
10)	TNP117034AG	A P.C.B.	⚠
13)	TMX8E005	CHASSIS FRAME	
16)	EAGG1201D2	SPEAKER ASSEMBLY	
17)	TBM8E1437	BACKCOVER LABEL	
	TBM8E1359	INDICATION SHEET	
	TBM8E1360	INDICATION SHEET	
	TKP8E1110	FRONT PANEL (RIGHT)	
	TKP8E1111	FRONT PANEL (LEFT)	
	TPC8E4446	OUTER CARTON	

CAPACITORS

C209	ECQB1H104J	FILM	50V	100nF	
C501	ECKC1H103JB	CERAMIC	50V	10nF	
C511	ECQM1H393J	FILM	50V	0.039mF	
C534	ECWH12H562J	CERAMIC	500V	5600pF	⚠
C537	ECQF4273JZH	FILM	400V	0.027mF	
C541	ECWF2H105J	FILM	500V	1000nF	⚠
C565	ECKC2H151J	CERAMIC	500V	150pF	⚠
C567	ECQB1H223K	FILM	50V	22nF	
C568	222236516224	FILM	160V	220nF	
C576	ECQM1H684J	FILM	50V	680nF	
C578	222236516154	FILM	160V	150nF	
C583	ECQB1H333J	FILM	50V	33nF	
C591	ECA1HW4R7UE	ELECT	50V	4.7mF	
C597	ECQB1H332K	FILM	50V	3.3nF	
C1622	ECEA1CU100	ELECT	16V	10mF	
C1625	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1672	ECEA1CU100	ELECT	16V	10mF	
C1802	ECEA1CU470	ELECT	16V	47mF	
C1977	ECEA1CU470	ELECT	16V	47mF	
C2628	ERJ6GEY0R00	WIRE LINK			
C2645	ECUV1H331JCX	S.M. CAP	50V	330pF	
C2670	ECEA1HKA2R2	ELECT	50V	2.2mF	
C2673	ECUV1H220JCX	S.M. CAP	50V	22pF	
C3187	ECUV1H121JCX	S.M. CAP	50V	120pF	
C3364	ECKC3A331J	CERAMIC	1000V	330pF	⚠
C3371	ECUV1H120JCX	S.M. CAP	50V	12pF	
C3381	ECUV1H080CCX	S.M. CAP	50V	80pF	
C3391	ECUV1H120JCX	S.M. CAP	50V	12pF	
C6104	ECEA1HU101	ELECT	50V	100mF	
C6418	ECUV1H103ZFX	S.M. CAP	50V	10nF	
C6448	ECUV1H103ZFX	S.M. CAP	50V	10nF	

DIODES

D507	MA723TA5	DIODE
D508	MA723TA5	DIODE
D568	MA2100LFS	DIODE
D624	BYT56K15/10	DIODE

INTEGRATED CIRCUITS

I1011	TEA6420/L	AUDIO SWITCH
I1601	VDP3108	VIDEO PROCESSOR
I1751	81C1000A-70P	DRAM
I1801	CCU3000I-04	CENTRAL CONTROL UNIT

SOCKETS/TERMINALS/LINK WIRES

JC1092	ERJ8GEY0R00	METAL	0.125W	1%	0W
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COILS

L206	EXCELSA35T	COIL
L507	ELESN331KA	COIL
L511	297-23477	TRANSFORMER
L541	ELH5L7002	COIL
L594	297-017696	COIL
L1614	EXCELD35V	COIL

TRANSISTORS

Q506	2SK301TA	TRANSISTOR
Q1609	BC847B	TRANSISTOR

RESISTORS

R501	ERD25TJ470	CARBON	0.25W	5%	47W
R507	ERD25TJ2R2	CARBON	0.25W	5%	2R2W
R570	ERG2SJ102	METAL	2W	5%	1K0W
R574	ERW12PKR56	WIREWOUND	0.5W	10%	R56W ⚠
R576	ERD25TJ682	CARBON	0.25W	5%	6K8W
R577	ERD25TJ822	CARBON	0.25W	5%	8K2W
R578	ERD25TJ680	CARBON	0.25W	5%	68W
R579	ERD25TJ332	CARBON	0.25W	5%	3K3W
R583	ERD25TJ103	CARBON	0.25W	5%	10KW
R584	ERO25CKF1002	METAL	0.25W	1%	10KW ⚠
R591	ERD25TJ472	CARBON	0.25W	5%	4K7W
R594	ERD25TJ394	CARBON	0.25W	5%	390KW
R595	ERD25TJ473	CARBON	0.25W	5%	47KW
R596	ERD25TJ473	CARBON	0.25W	5%	47KW
R597	ERD25TJ475	CARBON	0.25W	5%	4M7W
R599	ERD25TJ103	CARBON	0.25W	5%	10KW
R1050	ERD50TJ102	CARBON	0.5W	5%	1KW
R1609	ERJ8GEYJ273	S.M.CAR	0.125	5%	27KW
R1626	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R1891	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7W
R1922	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820W
R2615	ERJ6GEY0R00	WIRE LINK			
R2640	ERJ6GEY0R00	WIRE LINK			
R2644	ERJ6GEY0R00	WIRE LINK			
R2645	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R2646	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150W
R2649	ERJ6GEY0R00	WIRE LINK			
R2681	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KW
R3104	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2W
R3361	ERQ12HJR39	FUSABLE	0.5W	5%	0R39W ⚠
R3362	ERC12GK105D	SOLID	0.5W	10%	1MW
R3364	ERC12GK821D	SOLID	0.5W	10%	820W
R3377	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R3387	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W
R3397	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6W

PARTS FOR TX - 25AD1D ONLY

MISCELLANEOUS COMPONENTS

2)	TKU8E00157	REAR COVER	⚠
3)	TKY8E032	CABINET	⚠
4)	A59EEH048201	C.R.T.	⚠
6)	TLK8E05115	DEGAUSSING COIL	
7)	TNP117037AF	Y P.C.B.	⚠
9)	TNP197087AG	E P.C.B.	⚠
10)	TNP117034AB	A P.C.B.	⚠
13)	TMX8E005	CHASSIS FRAME	
16)	EAGG1201C2	SPEAKER ASSEMBLY	
17)	TBM8E1436	BACKCOVER LABEL	
	TPC8E4448	OUTER CARTON	
	TSKA033	COIL	
	TKP8E1112	FRONT PANEL (RIGHT)	
	TKP8E1113	FRONT PANEL (LEFT)	
	TBM8E1359	INDICATION SHEET	
	TBM8E1360	INDICATION SHEET	

CAPACITORS

C205	ECKC1H102J	CERAMIC	50V	1000pF	
C461	ECKC1H821J	CERAMIC	50V	820pF	
C464	ECQM1H104J	FILM	50V	100nF	
C525	ECKC1H271J	CERAMIC	50V	270pF	
C534	ECWH12H392J	FILM	1250V	3900mF	⚠
C537	ECQF4393JZH	FILM	400V	0.039mF	
C539	ECKC3D681J	CERAMIC	2KV	680pF	⚠
C541	ECWF2H824J	FILM	500V	820nF	⚠
C567	ECQB1H333J	FILM	50V	33nF	
C568	ECQM1H394J	FILM	50V	390nF	
C578	222236576104	FILM	760V	100nF	
C591	ECEA1HGE4R7	ELECT	50V	4.7mF	
C620	ECKC2H561J	CERAMIC	500V	560pF	⚠
C1622	ECEA0JU102	ELECT	6.3V	1000mF	
C1625	ERJ6GEYJ151	S.M.CARB	0.1W5%	150W	
C1628	ECEA0JU102	ELECT	6.3V	1000mF	
C1672	ECEA0JU101	ELECT	6.3V	100mF	
C1802	ECEA0JU471	ELECT	6.3V	470mF	
C1977	ECEA0JU471	ELECT	6.3V	470mF	
C2601	ECUV1H180JCX	S.M. CAP	50V	18pF	
C2602	ECUV1H220JCX	S.M. CAP	50V	22pF	
C2624	ECEA1CKA101	ELECT	16V	100mF	
C2626	ECUV1H271JCX	S.M. CAP	50V	270pF	
C2628	ECUV1H180JCX	S.M. CAP	50V	18pF	
C2629	ECUV1H271JCX	S.M. CAP	50V	270pF	
C2637	ECCR1H330J	CERAMIC	50V	33pF	
C2645	ECUV1H390JCX	S.M. CAP	50V	39pF	
C2670	ECEA1HKAR33	ELECT	50V	R33mF	
C2673	ECUV1H820JCX	S.M. CAP	50V	82pF	
C3187	ECUV1H270JCX	S.M. CAP	50V	27pF	
C3364	ECKC1H222J	CERAMIC	50V	2.2nF	
C3371	ECUV1H150JCX	S.M. CAP	50V	15pF	
C6104	ECEA0JU222	ELECT	6.3V	2200mF	
C6418	ECKC1H103JB	CERAMIC	50V	10nF	
C6448	ECKC1H103JB	CERAMIC	50V	10nF	

DIODES

D521	MA170	DIODE
D624	BYT56KRA1510	DIODE
D1601	MA170	DIODE
D1614	MA165TA5	DIODE
D1672	PMLL4148L	DIODE

INTEGRATED CIRCUITS

I1011	TEA6420	AUDIO SWITCH
I1601	VDP3108-25	VIDEO PROCESSOR
I1751	TC511000AJ80	D RAM
I1801	CCU3000I-05	CENTRAL CONTROL UNIT

SOCKETS/TERMINALS/LINK WIRES

JC1111	ERJ6GEY0R00	WIRE LINK
JC1121	ERJ8GEY0R00	METAL 0.125W 1% 0W
JC1122	ERJ8GEY0R00	METAL 0.125W 1% 0W

COILS

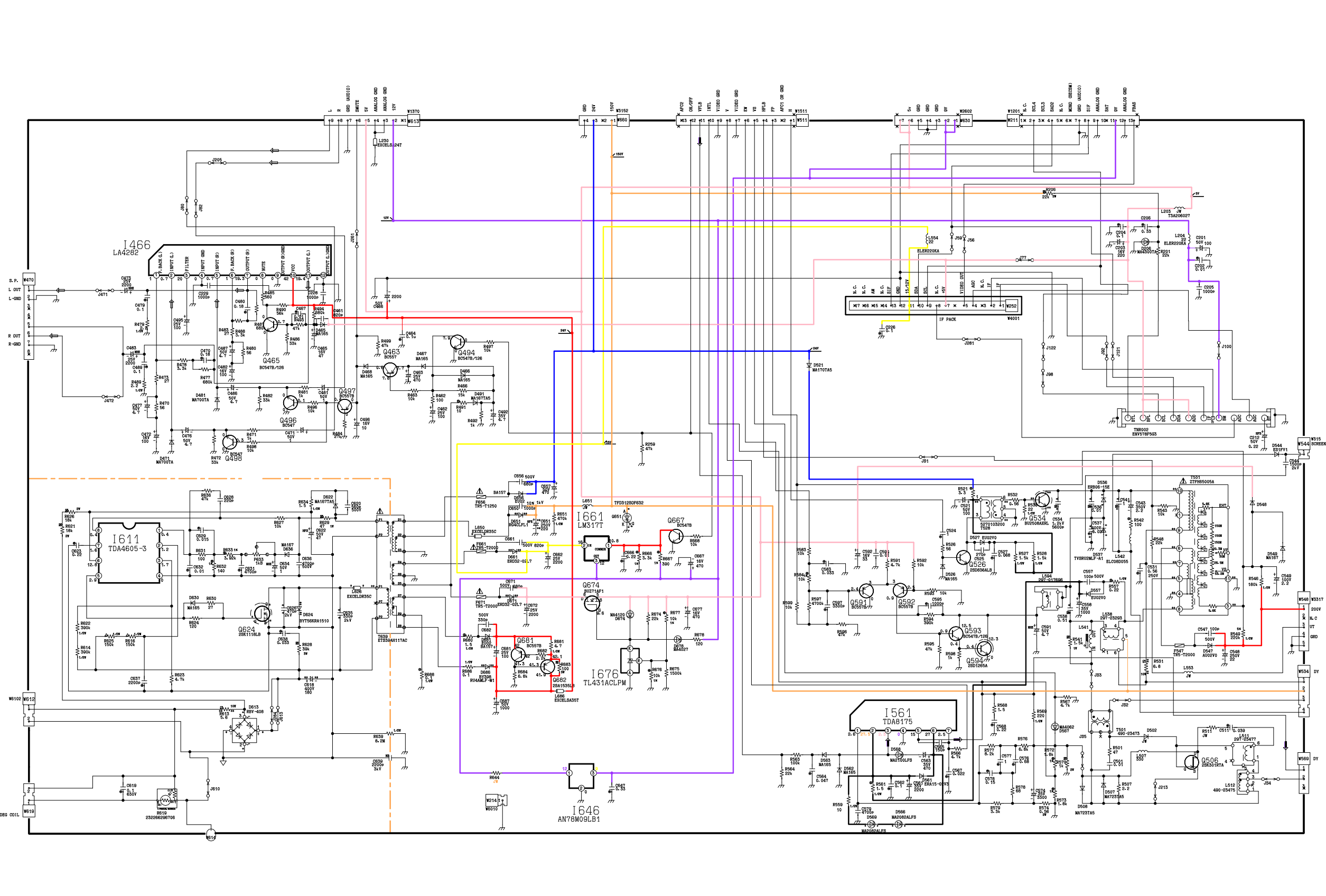
L541	ELH5L421	COIL
L594	297-23294	COIL
L2601	TLT390K991R	COIL
L2606	ELESN4R7KA	COIL
L2637	ELESN6R8KA	COIL

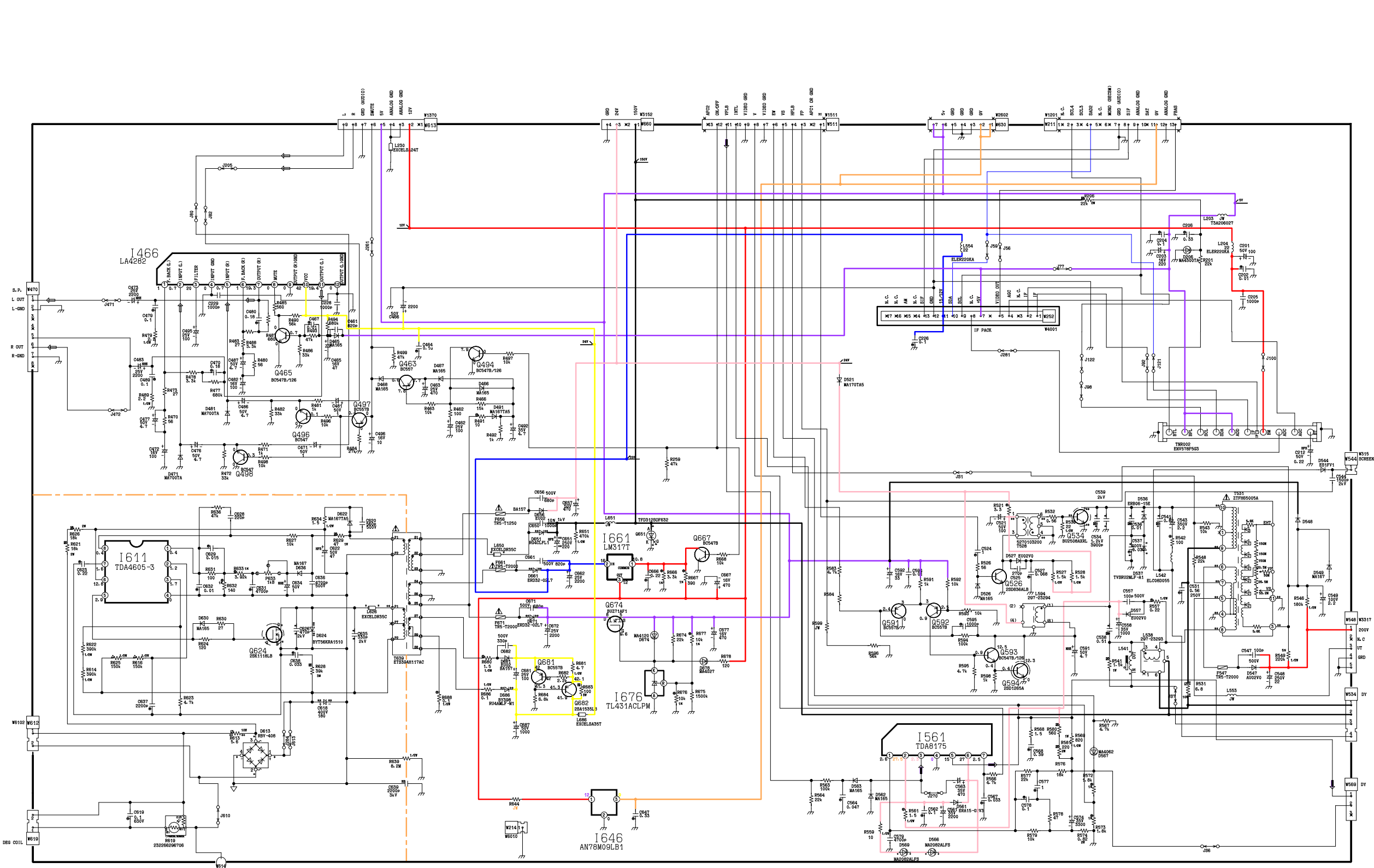
TRANSISTORS

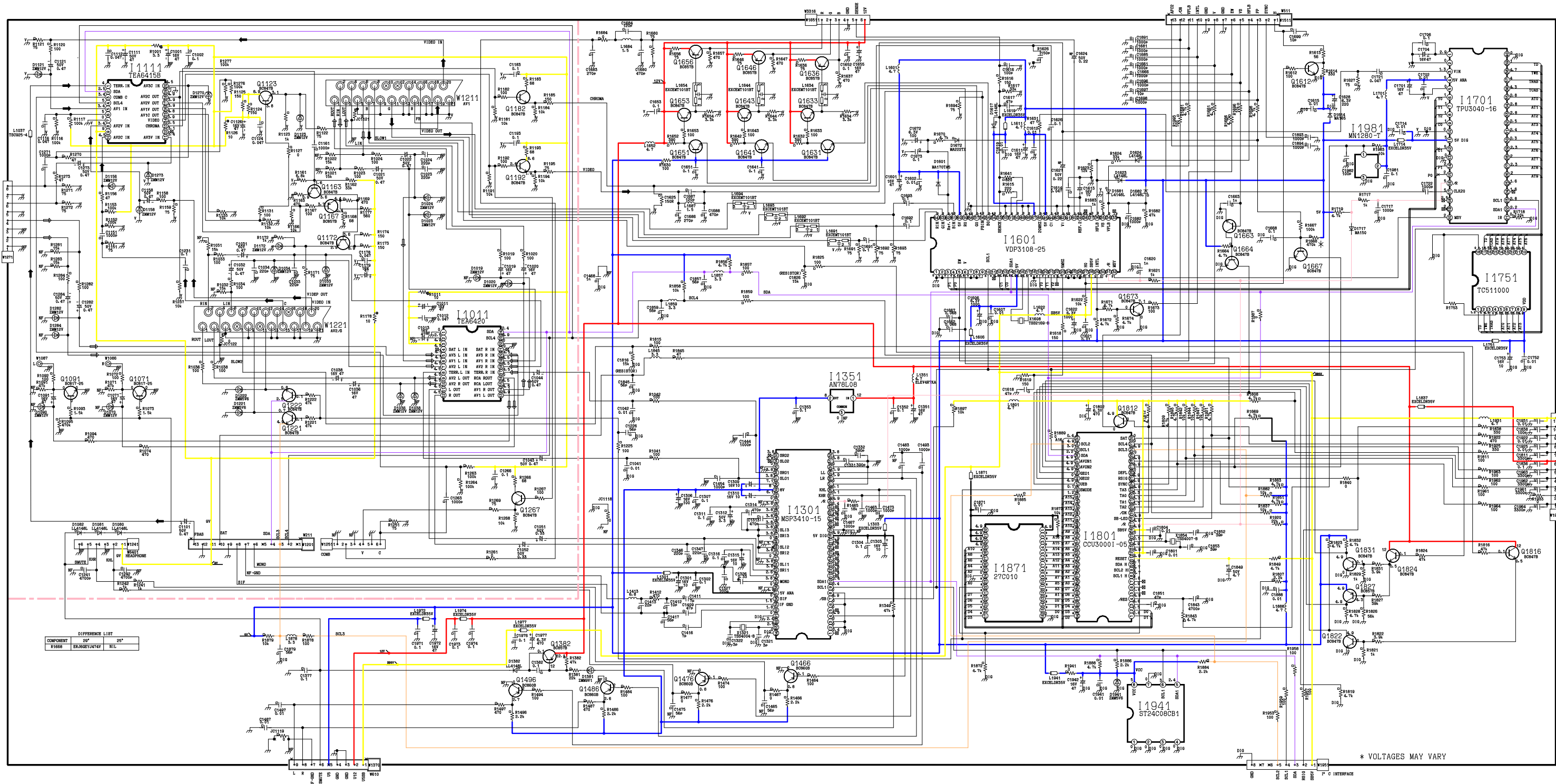
Q2615	BC857B	TRANSISTOR
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RESISTORS

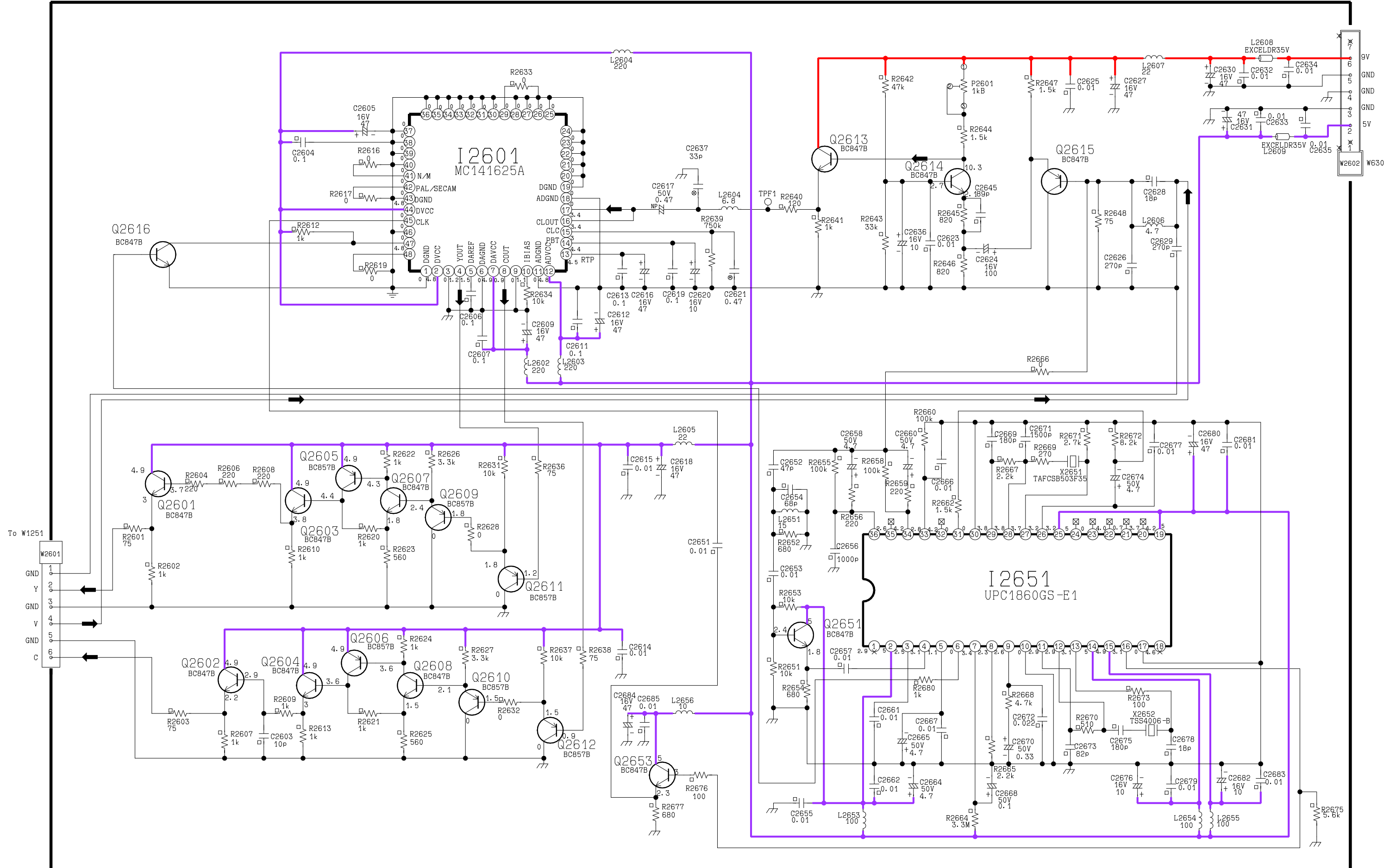
R574	ERW12PKR82	WIREWOUND0.5W	10%	R82W	⚠
R576	ERD25TJ183	CARBON 0.25W	5%	18KW	
R577	ERD25TJ223	CARBON 0.25W	5%	22KW	
R578	ERD25TJ470	CARBON 0.25W	5%	47W	
R579	ERD25TJ103	CARBON 0.25W	5%	10KW	
R580	ERG1SJ561	METAL 1W	5%	560W	
R581	ERG2FJ221	METAL 2W	5%	220W	⚠
R583	ERD25TJ472	CARBON 0.25W	5%	4K7W	
R591	ERD25TJ102	CARBON 0.25W	5%	1KW	
R594	ERD25TJ104	CARBON 0.25W	5%	100KW	
R595	ERD25TJ472	CARBON 0.25W	5%	4K7W	
R596	ERD25TJ563	CARBON 0.25W	5%	56KW	
R1626	ECUV1H151JCX	S.M. CAP 50V		150PF	
R1670	ERJ6GEYJ472	S.M.CARB 0.1W	5%	4K7W	
R1922	ERJ6GEYJ471	S.M.CARB 0.1W	5%	470W	
R2604	ERJ6GEYJ221	S.M.CARB 0.1W	5%	220W	
R2605	ERJ6GEYJ391	S.M.CARB 0.1W	5%	390W	
R2606	ERJ6GEYJ221	S.M.CARB 0.1W	5%	220W	
R2608	ERJ6GEYJ221	S.M.CARB 0.1W	5%	220W	
R2619	ERJ6GEY0R00	WIRE LINK			
R2644	ERJ6GEYJ152	S.M.CARB 0.1W	5%	1K5W	
R2645	ERJ6GEYJ821	S.M.CARB 0.1W	5%	820W	
R2646	ERJ6GEYJ821	S.M.CARB 0.1W	5%	820W	
R2647	ERJ6GEYJ152	S.M.CARB 0.1W	5%	1K5W	
R2648	ERJ6GEYJ750	S.M.CARB 0.1W	5%	75W	
R3104	ERJ6GEYJ102	S.M.CARB 0.1W	5%	1KW	
R3360	ERC12GK225V	SOLID 0.5W	10%	22MW	
R3361	ERQ12HKR39	METAL 0.5W	5%	0R39W	⚠
R3362	ERC12GK824V	SOLID 0.5W	10%	820KW	
R3364	ERC12GK105D	SOLID 0.5W	10%	1MW	
R3377	ERJ6GEY0R00	WIRE LINK			

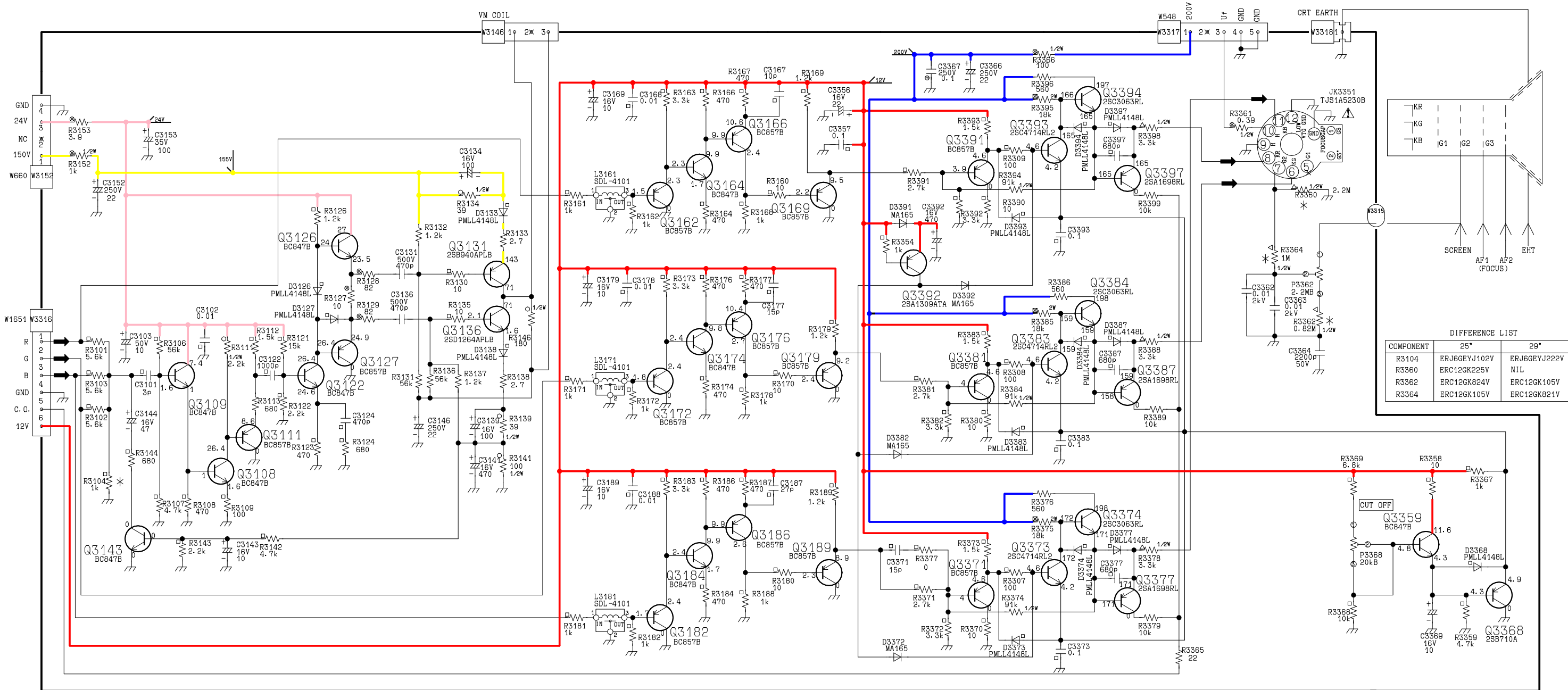


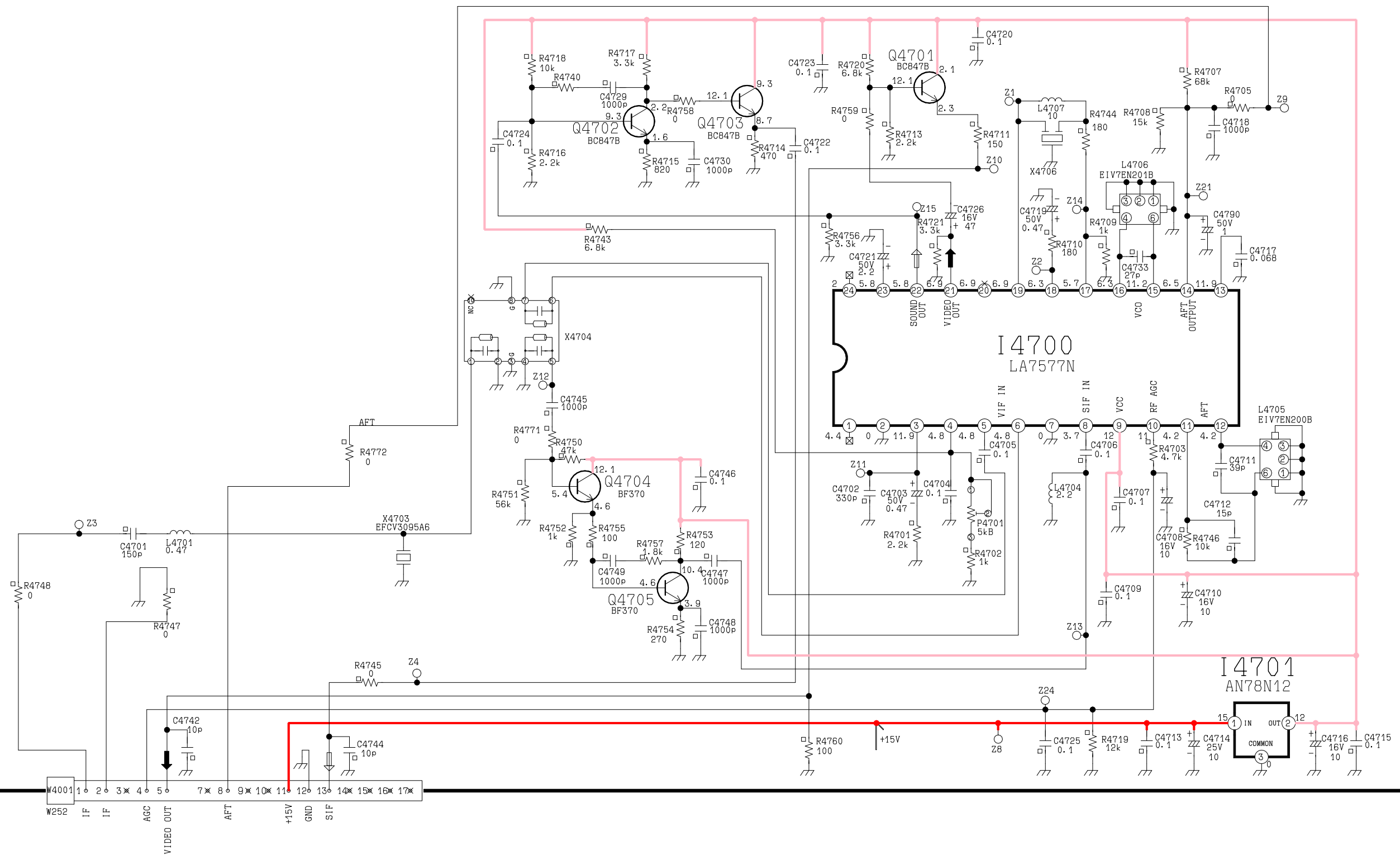


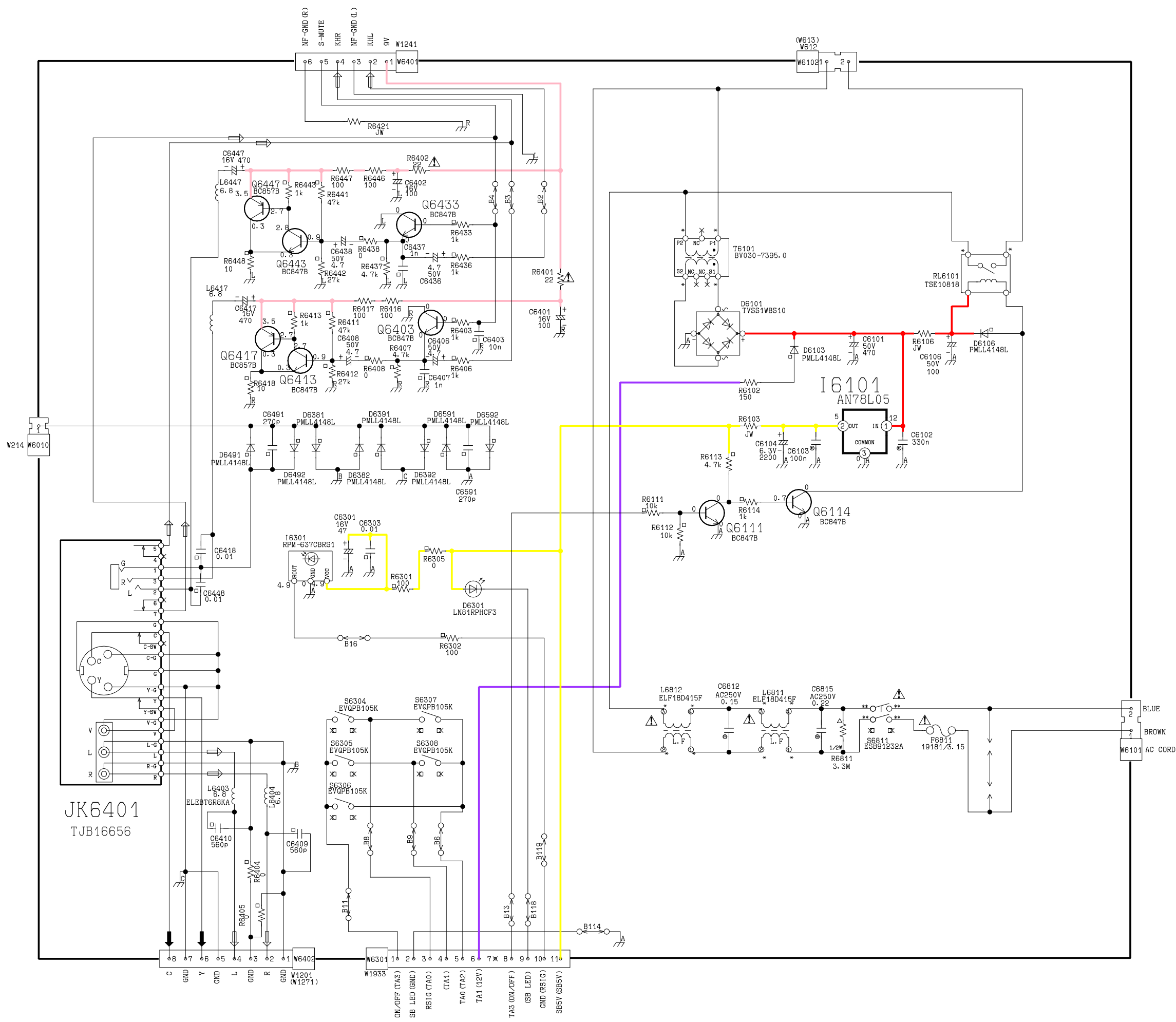


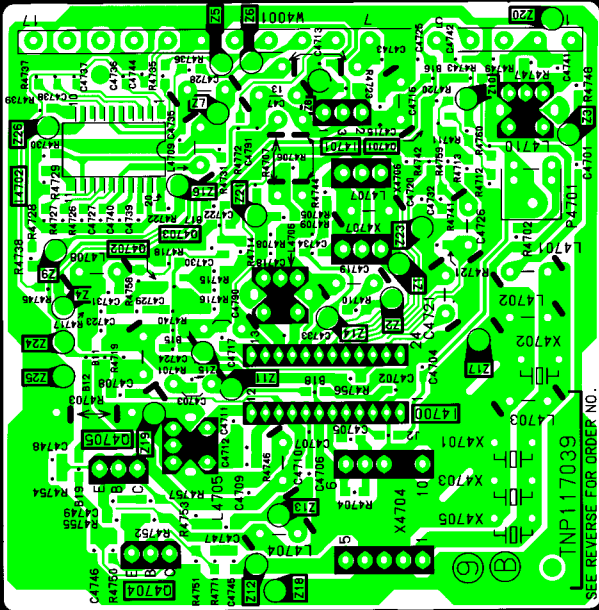
* VOLTAGES MAY VARY

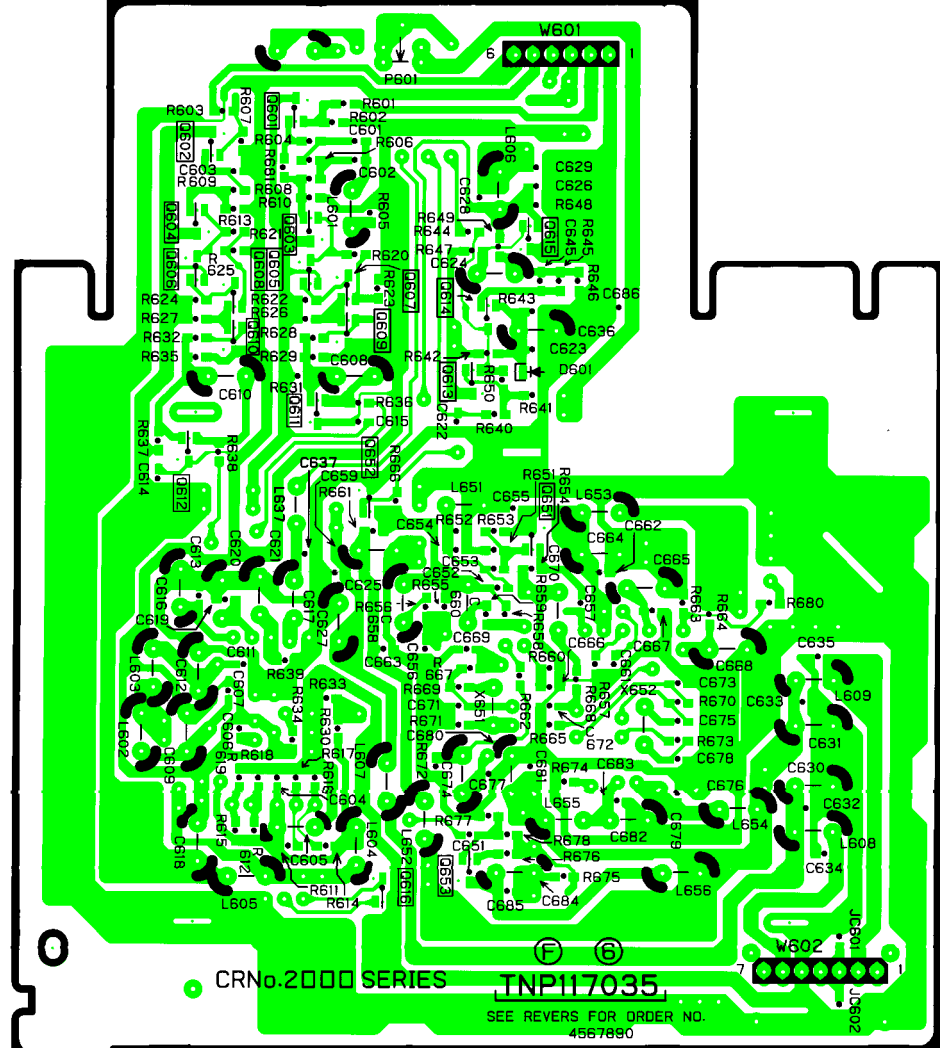












CRNo.2000 SERIES

TNP117035

SEE REVERS FOR ORDER NO.
4567880

J0601
J0602

HIGH VOLTAGE
DANGER

CRNO.3...SERIES

SEE REVERSE FOR ORDER NO.
57890

INP17037

544/86493.6

