

TX-AS10C - Service Manual

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Service Hints

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Service Support

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

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

For more details contact your local Panasonic company.

←
BACK

EXIT

P - PCB	E - PCB
F - PCB	F - PCB (R)
M - PCB	Y - PCB



P - Schematic	E - Schematic
F - Schematic	
M - Schematic	Y - Schematic



Video / Audio

Control

Power



BACK

Service Manual



Colour Television

TX-29AS10C
TX-29AS10C/B

EURO- 4H Chassis

SPECIFICATIONS

Power Source:	220-240V a.c., 50Hz
Power Consumption:	141W
Standby Power Consumption:	1,4W
Aerial Impedance:	75Ω unbalanced, Coaxial Type
Receiving System:	PAL-B/G, H, D/K, PAL-525/60 SECAM B/G, D/K M.NTSC (AV only) NTSC (AV only)
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 (B/G), 33,16MHz(A2 STEREO) 32,4MHz (D/K) 32,66MHz (CZECH STEREO) 34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM)
Colour	
Video/Audio Terminals:	
AUDIO MONITOR OUT	Audio (RCAX2) 500mV rms1kΩ
AV1 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin) 0,7V p-p 75Ω Video (21 pin) 1V p-p 75Ω
AV1 OUT	Audio (21 pin) 500mV rms 1kΩ
AV2 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ
AV2 OUT	S-Video IN Y: 1V p-p 75Ω (21 pin) C: 0,3V p-p 75Ω Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
AV3 IN	S-Video IN Y: 1V p-p 75Ω (4 pin) C: 0,3V p-p 75Ω Audio (RCAX2) 500mV rms10kΩ Video (RCAX1) 1V p-p 75Ω
High Voltage:	30,5kV ±1kV
Picture Tube:	A68ELO10X71 68cm
Audio Output:	2x7W RMS, 2x15W MPO 8Ω Impedance
Headphones	8Ω Impedance
Accessories supplied:	Remote Control 2 x R6 (UM3) Batteries
Dimensions:	
Height:	579mm
Width:	688mm
Depth:	495mm
Net Weight:	46kg

Specifications are subject to change without notice.

Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the EURO-4 technical guide.

TECHNISCHE DATEN

Netzspannung:	220-240V a.c., 50Hz
Leistungsaufnahme:	141W
Standby	
Leistungsaufnahme:	1,4W
Antennenimpedanz:	75Ω asymmetrisch, Koaxial-Typ
Empfangssystem:	PAL-B/G, H, D/K, PAL-525/60 SECAM B/G, D/K M.NTSC (nur AV Eingang) NTSC (nur AV Eingang)
Empfangsbereiche:	
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)	
Zwischenfrequenz:	
Video	38,9MHz
Sound	33,4MHz (B/G), 33,16MHz(A2 STEREO) 32,4MHz (D/K) 32,66MHz (CZECH STEREO) 34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM)
Colour	
Video/Audio Anschlüsse:	
AUDIO MONITOR OUT	Audio (RCAX2) 500mV rms1kΩ
AV1 EINGANG	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin) 0,7V p-p 75Ω Video (21 pin) 1V p-p 75Ω
AV1 AUSGANG	Audio (21 pin) 500mV rms 1kΩ
AV2 EINGANG	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ
AV2 AUSGANG	S-Video IN Y: 1V p-p 75Ω (21 pin) C: 0,3V p-p 75Ω Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ
AV3 EINGANG	S-Video IN Y: 1V p-p 75Ω (4 pin) C: 0,3V p-p 75Ω Audio (RCAX2) 500mV rms10kΩ Video (RCAX1) 1V p-p 75Ω
Hochspannung:	30,5kV ±1kV
Bildrohre:	A68ELO10X71 68cm
Ton Ausgangsleistung:	2x7W RMS, 2x15W MPO
Lautsprecher	8Ω Impedanz
Kopfhörer:	8Ω Impedanz
Mittel. Zubehör:	Fernbedienung 2 x R6 (UM3) Batterien
Abmessungen:	
Höhe:	579mm
Breite:	688mm
Tiefe:	495mm
Gewicht:	46kg

Änderungen der Technischen Daten vorbehalten.

Gewichte und Abmessungen sind Näherungsangaben.

Hinweis: Bitte verwenden Sie das Service Manual zusammen mit dem Technical Guide.

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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. 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 a.c. outlet.
5. Potentials as high as 31,5kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. 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 a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

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SICHERHEITSVORKEHRUNGEN

ALLGEMEINE RICHTLINIEN

1. Es ist empfehlenswert einen Trenntransformator in die Stromversorgung zu schalten, bevor Reparaturen an einem Gerät vorgenommen werden, dessen Chassis unter Spannung steht.
2. Bei der Durchführung von Servicearbeiten dürfen die ursprünglichen Kabelanschlüsse nicht vertauscht werden. Dies gilt insbesondere für die Anschlüsse im Hochspannungsteil. Hat sich ein Kurzschluß ereignet, dann sind alle Teile, an denen Spuren von Überhitzung sichtbar sind, auszuwechseln.
3. Nach Beenden der Servicearbeiten ist sicherzustellen, daß alle Sicherheitsvorrichtungen, wie Isolationsstege, Isolationspapiere, Abschirmungen und Isolations -R-C- Glieder wieder richtig eingesetzt sind.
4. Wenn der Fernseher während längerer Zeit nicht in Betrieb gesetzt wird, sollte der Netzstecker aus der Netzsteckdose gezogen werden.
5. Im Betrieb sind Spannungen bis zu 31,5kV in diesem Gerät vorhanden. Die Inbetriebnahme des Fernsehers ohne aufgesetzte Rückwand bringt die Gefahr eines elektrischen Schlages von der Fernseher - Stromversorgung mit sich. Servicearbeiten sollten daher auch nie durch Personen versucht werden, die nicht in vollem Umfang mit den Sicherheitsvorkehrungen beim Umgang mit Hochspannungsgeräten vertraut sind. Vor der Handhabung mit der Bildröhre ist die Anode der Bildröhre immer an dem Empfängerchassis zu entladen.
6. Nach Beenden der Servicearbeiten sind die folgenden Kriechstrom-Prüfungen durchzuführen, um den Kunden vor der Gefahr eines elektrischen Schlages zu schützen.

MESSUNG DES ISOLATIONSWIDERSTANDES IM ABGESCHALTETEN ZUSTAND

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

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2k Ω 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. 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 a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4 V rms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

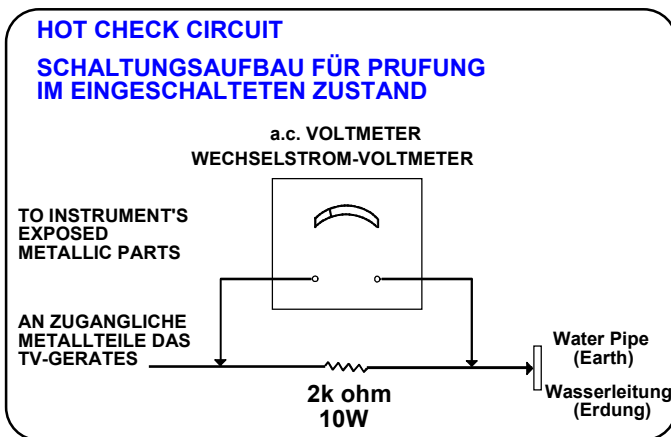


Fig. 1
Abb. 1

X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 31,5kV without causing X-Radiation.

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

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate: 30,5kV $\pm$ 1kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

MESSUNG DES KRIECHSTROMS IM EINGESCHALTETEN ZUSTAND

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

RÖNTGENSTRAHLUNG ACHTUNG :

1. Potentielle Quellen von Röntgenstrahlung in Fernsehgeräten sind das Hochspannungsteil und die Bildröhre.
2. Bei Verwendung eines Bildröhren-Prüfgerätes für den Service ist sicherzustellen, daß es für die Belastung von 31,5kV geeignet ist, ohne daß eine Röntgenstrahlung verursacht wird.

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

1. Helligkeit auf Minimum stellen.
2. Die Hochspannung messen. Die Anzeige des Instrumentes sollte: 30,5kV $\pm$ 1kV. 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.

SERVICE HINTS

HOW TO REMOVE THE REAR COVER

1. Remove the 8 screws as shown in **Fig. 2**.

SERVICE HINWEISE

ENTFERNEN DER GERÄTERÜCKWAND

1. Die 8 Schrauben entfernen, siehe **Abb. 2**.

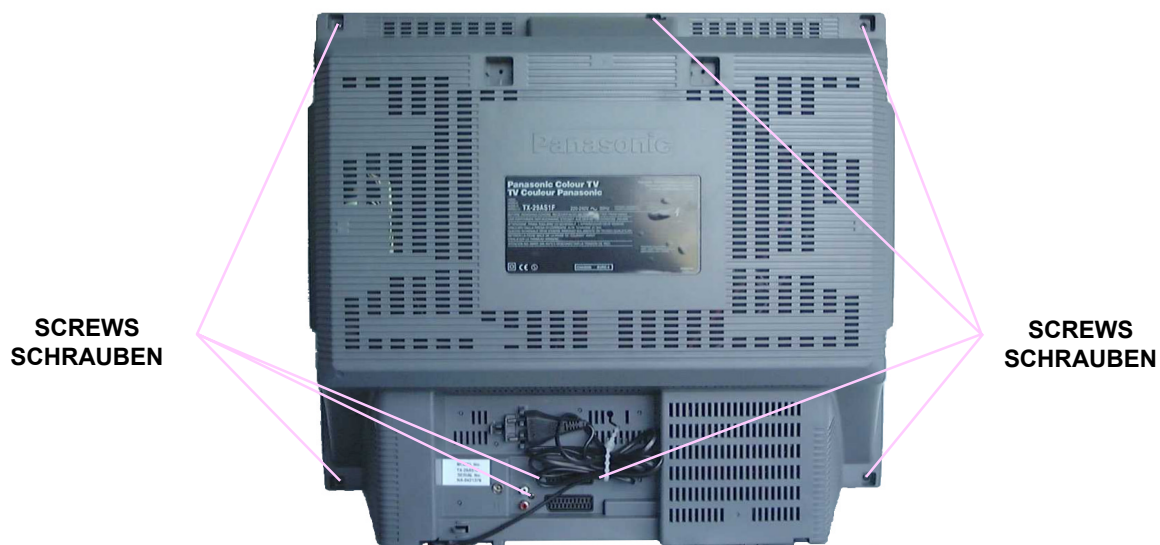


Fig. 2
Abb. 2

LOCATION OF CONTROLS

LAGE DER EINSTELLREGLER

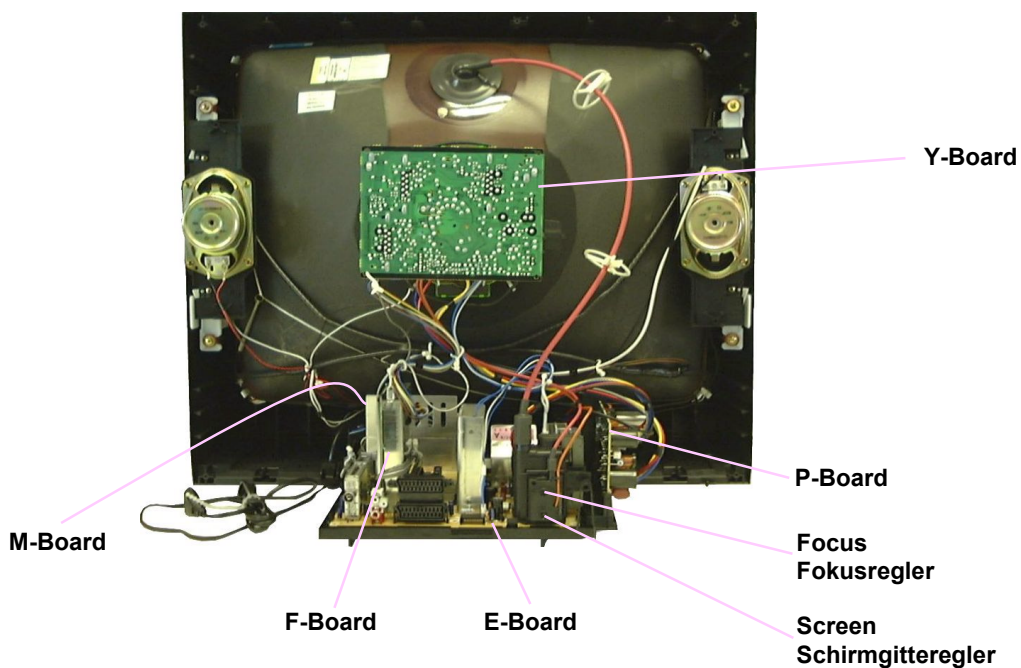


Fig. 3
Abb. 3

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove 2 screws (A), as shown in Fig.4., and remove speaker assembly.
2. Hold and lift the rear of the chassis and gently pull the chassis toward you, as shown in Fig.5.
3. Release the respective wiring clips and move the EHT lead around to the left side of the CRT neck.
4. Elevate the chassis as shown in Fig.6.
5. Using a speaker screw, screw the chassis frame into the top speaker fixing rib (B), as shown in Fig.6.
6. After servicing replace the speaker, and ensure all wiring is returned to its original position before returning the receiver to the customer.

SERVICE POSITION FÜR DAS CHASSIS

1. Die 2 Schrauben (A) entfernen, wie in Abb.4. dargestellt, und die Lautsprechereinheit herausnehmen.
2. Das Chassis leicht anheben und nach hinten herausziehen, wie in Abb. 5. dargestellt.
3. Die Befestigungen des Hochspannungskabels lösen und das Kabel zur linken Seite des Röhrenhalses legen.
4. Das Chassis, wie in Abb. 6. gezeigt, herausheben.
5. Mit einer Lautsprecherschraube den Chassisrahmen durch das Langloch auf der rechten Seite des Rahmens im oberen Befestigungsloch des Lautsprechers fixieren. Siehe Abb.6.
6. Nach Beendigung der Reparatur ist sicherzustellen, daß sich alle Kabel in ihrer ursprünglichen Position befinden.

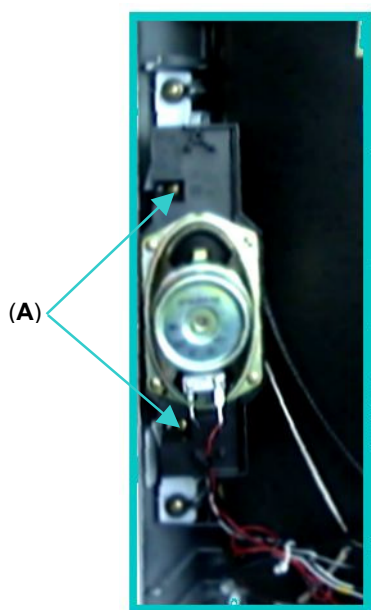


Fig. 4.
Abb.4.

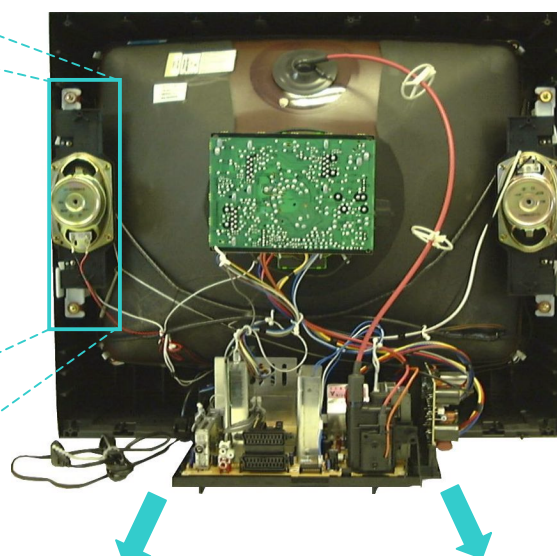


Fig. 5.
Abb.5.

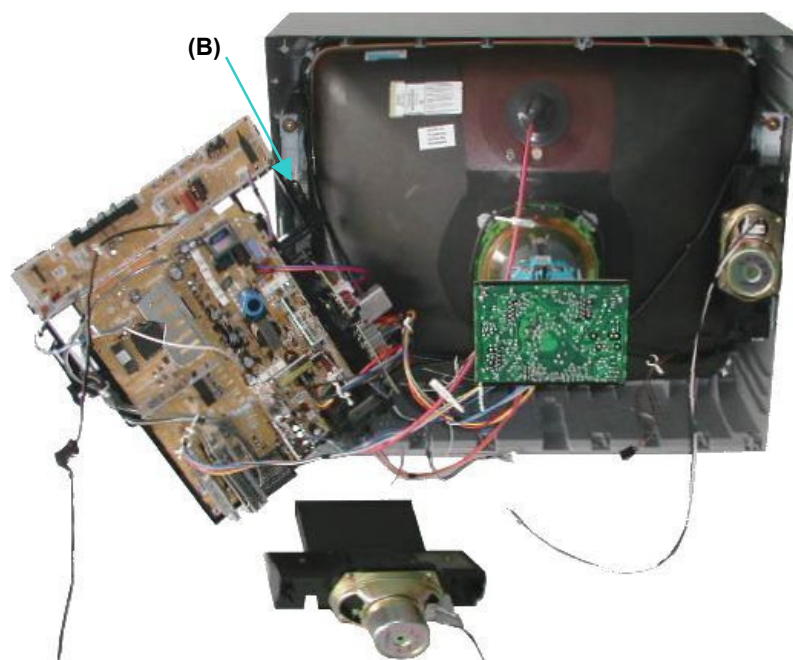


Fig. 6.
Abb.6.

SELF CHECK

1. Self-check is used to automatically check the bus lines and hexadecimal code of the TV set.
2. To get into the Self-Check mode press the down (-/v) button on the customer controls at the front of the set, at the same time pressing the **STATUS** button on the remote control, and the screen will show :-

VPC	O.K.	PCB	O.K.
CIP	O.K.	CAB	O.K.
SRC	O.K.		
DDP	O.K.		
TUN	O.K.		
E2	O.K.		
MSP	O.K.		
DPL	- - -		
OPTION1	3D		
OPTION2	3E		
OPTION3	0D		
OPTION4	40		
OPTION5	FF		
OPTION6	A1		

SELBSTDIAGNOSE

1. Die Selbstdiagnose dient zum automatischen Prüfen der Bus-Leitungen sowie des Hexadezimalcodes des FS-Geräts. Zum Umschalten auf Selbstdiagnose zunächst die Taste "**STATUS**" auf der Fernbedienung und gleichzeitig die-Taste am Bedienteil des FS-Gerätes drücken (-/v), auf dem Bildschirm erscheint hierauf :-
2. Nach der Selbstdiagnose wird das Gerät automatisch auf sämtliche werksseitigen Standardeinstellungen zurückgesetzt :-

If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.". Wenn der Hauptprozessor (CCU) an den Anschlüssen einen Fehler erkennt, oder der entsprechende Anschluss nicht belegt ist, zeigt die entsprechende Position " - - " anstelle von OK an.

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

- **LUCI** interface kit (Linked Utility Computer Interface)
Part number: TZS6EZ002
This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.
- **VICI** (Visual Interactive Computer Information)
These C.D.'s contain multimedia documentation providing quick access to service information.
Part No.
TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001
1. Service Manuals
2. Instruction Books
3. Technical Information
- **TASMIN** (Technically Advanced System for Multimedia Interactive Notes)
As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.
- Extended cable kit Y2-E8 connector for service position (Fig.6.). Part No.: TZS9EK012.

Service-Hilfen

Zur Unterstützung der Servicearbeiten stehen weitere Hilfsmittel zur Verfügung.

- **LUCI** interface kit (PC-unterstütztes Diagnosesystem)
Bestell-Nr.: TZS6EZ002
Es beinhaltet ein Interface, die Anschlusskabel zum FS-Gerät und die Diagnose-Software. Bei Einführung von neuen Modellen ist ein Update der Software jederzeit möglich.
- **VICI** (Interaktive CD-ROM) mit schnellem Zugriff auf Serviceinformationen.
Bestell-Nr.:
TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001
1. Service Manuals
2. Bedienungsanleitungen
3. Technical Information
- **TASMIN** (Technisch erweitertes System für interaktive Multimedia-Hinweise und Notizen)
Genauso wie dieses Produkt einen ersten Schritt in Richtung erweitertes interaktives Training bereitstellt, ermöglicht es einen noch schnelleren Zugang zu technischen Informationen.
- Verlängerungskabelvorrichtung zur Verbindung Y2-E8 (Abb.6.); Bestell-Nr.: TZS9EK012.

ADJUSTMENT PROCEDURE

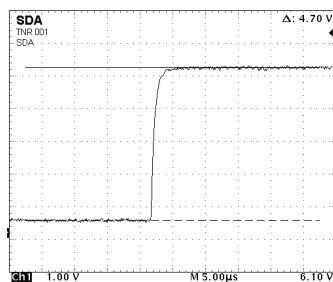
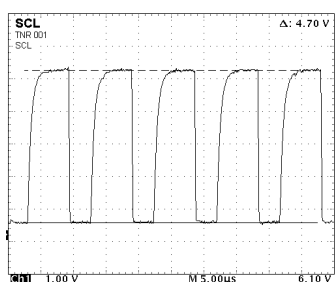
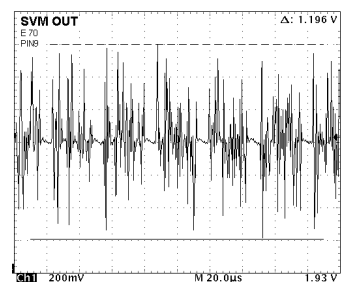
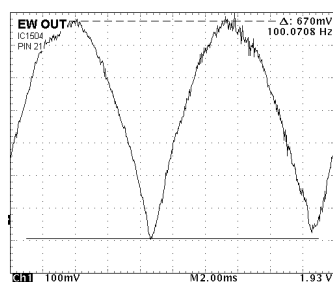
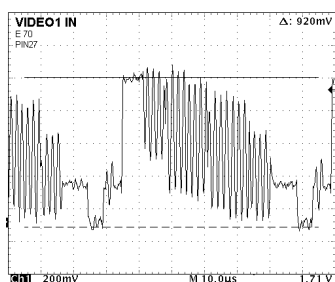
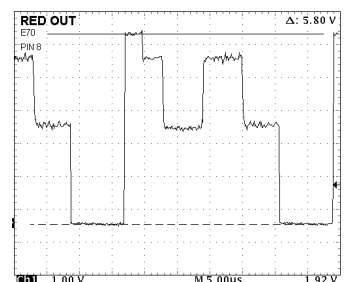
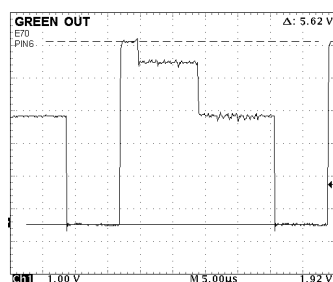
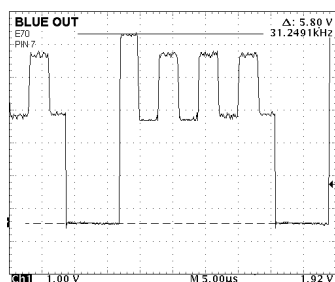
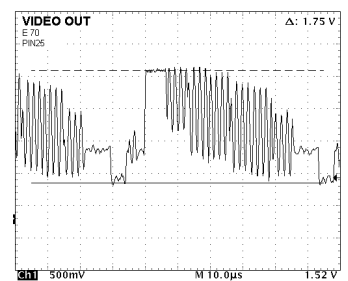
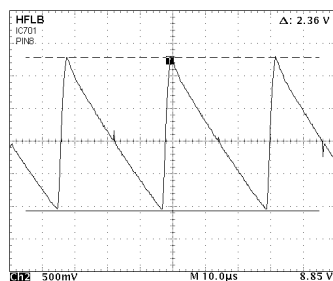
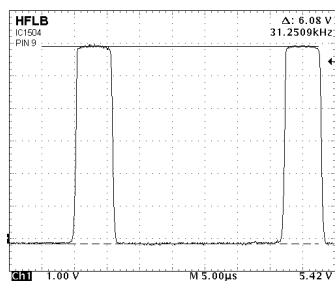
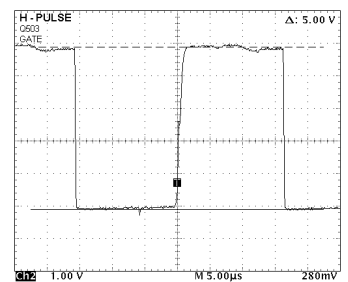
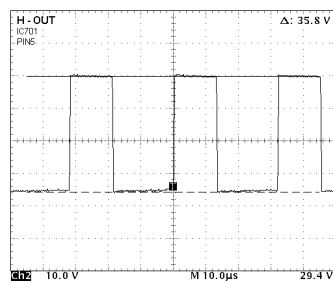
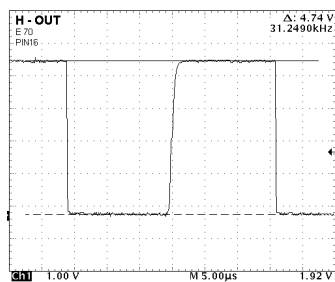
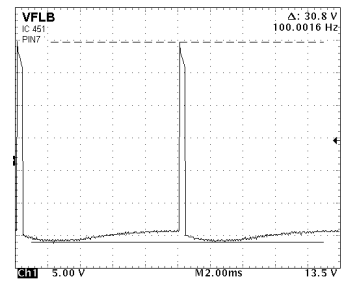
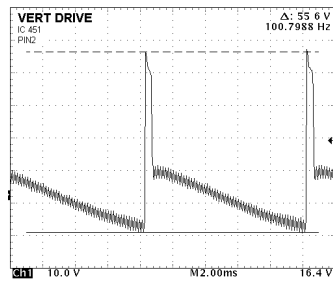
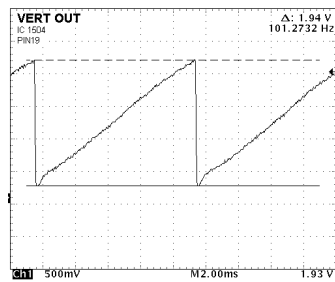
Item/Preparation	Adjustments
+B SET-UP 1. Receive a Greyscale signal. 2. Set the controls:- Brightness: Minimum Contrast: Minimum Volume: Minimum	1. Confirm the following voltages. B2 148 ± 2V B9 5 ± 0,25V B10 5 ± 0,25V B5 12 ± 0,5V B11 33 ± 1,5V B4 15 ± 1V B7 8 ± 0,5V B12 26 ± 2V B8 6 ± 1V B3 36 ± 1,5V B13 15 ± 1V B1 205 ± 10V B14 -15 ± 1V
Cut-Off / Ug2 Test 1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cutoff mode.	To adjust Cutoff connect an oscilloscope to the Blue cathode. Press " STR " and adjust "cutoff" value using the " Yellow " and " Blue " buttons until the black level is 160V ± 5V, press " STR " to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."

ABGLEICH

Vorbereitungen	Abgleich
+B - Abgleich 1. Testbild empfangen. Helligkeit auf: Minimum Kontrast auf: Minimum Lautstärke: Minimum	1. Folgende Spannungen sind zu überprüfen. B2 148 ± 2V B9 5 ± 0,25V B10 5 ± 0,25V B5 12 ± 0,5V B11 33 ± 1,5V B4 15 ± 1V B7 8 ± 0,5V B12 26 ± 2V B8 6 ± 1V B3 36 ± 1,5V B13 15 ± 1V B1 205 ± 10V B14 -15 ± 1V
Cut-Off / Ug2 Test 1. Testbild empfangen. 2. Bildröhre entmagnetisieren. 3. Service-Mode 1 anwählen. 4. Im Service-Mode den Abgleichpunkt Cutoff DC-Mode wählen.	Einen Oszillographen an die blaue Katode der Bildröhre anschliessen. STR -Taste drücken und Mit der gelben und blauen Taste den CUT-OFF Wert auf 160V ± 5V abgleichen und mit der STR -Taste abspeichern. Den Oszillograph entfernen und den Ug2 Test aufrufen. Den Abgleichwert solange ändern, bis OK auf dem Bildschirm erscheint. Den Wert abspeichern.

WAVEFORM PATTERN TABLE

SIGNAL TABELLE



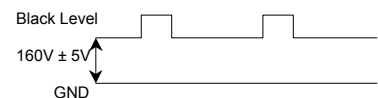
CONDITIONS: CONTRAST...MAX, BRIGHTNESS...MID, COLOUR...MID, SHARPNESS...MID

ALIGNMENT SETTINGS:

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

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

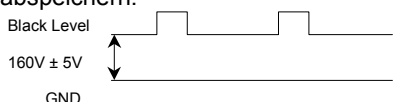
Alignment Function		Settings / Special features
Horizontal Position	H-Pos 061	Optimum setting.
Vertical Position	V-Pos 005	Optimum setting.
Horizontal Amplitude	H-Amp 055	Optimum setting.
Vert. Amplitude	V- Amp 054	Optimum setting.
EW-amplitude	EW-Amp1 - 030	Optimum setting.
Lower corner	Lower corner 007	Optimum setting.
Trapezium-comp	Trapez 1 047	Optimum setting.
Upper corner	Upper corner 006	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	Optimum setting.
Angle	Angle 000	Optimum setting.
Bow	Bow 005	Optimum setting.
DVCO	DVCO - 005	Receive a PAL Colour Bar Pattern. For DVCO alignment press " Blue " button, wait until the colours are changing slowly and press " STR ".
Cut-off DC	Cut-off 0171	To adjust Cutoff connect an oscilloscope to the blue cathode, adjust "cutoff" value using the " Yellow " and " Blue " buttons until the black level is $160V \pm 5V$ press " STR " to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."
Ug2 Test	Ug2 0155 O.K.	
Highlight Lowlight	High 0396 0357 0374 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 000	Optimum setting.



ABGLEICHTABELLE

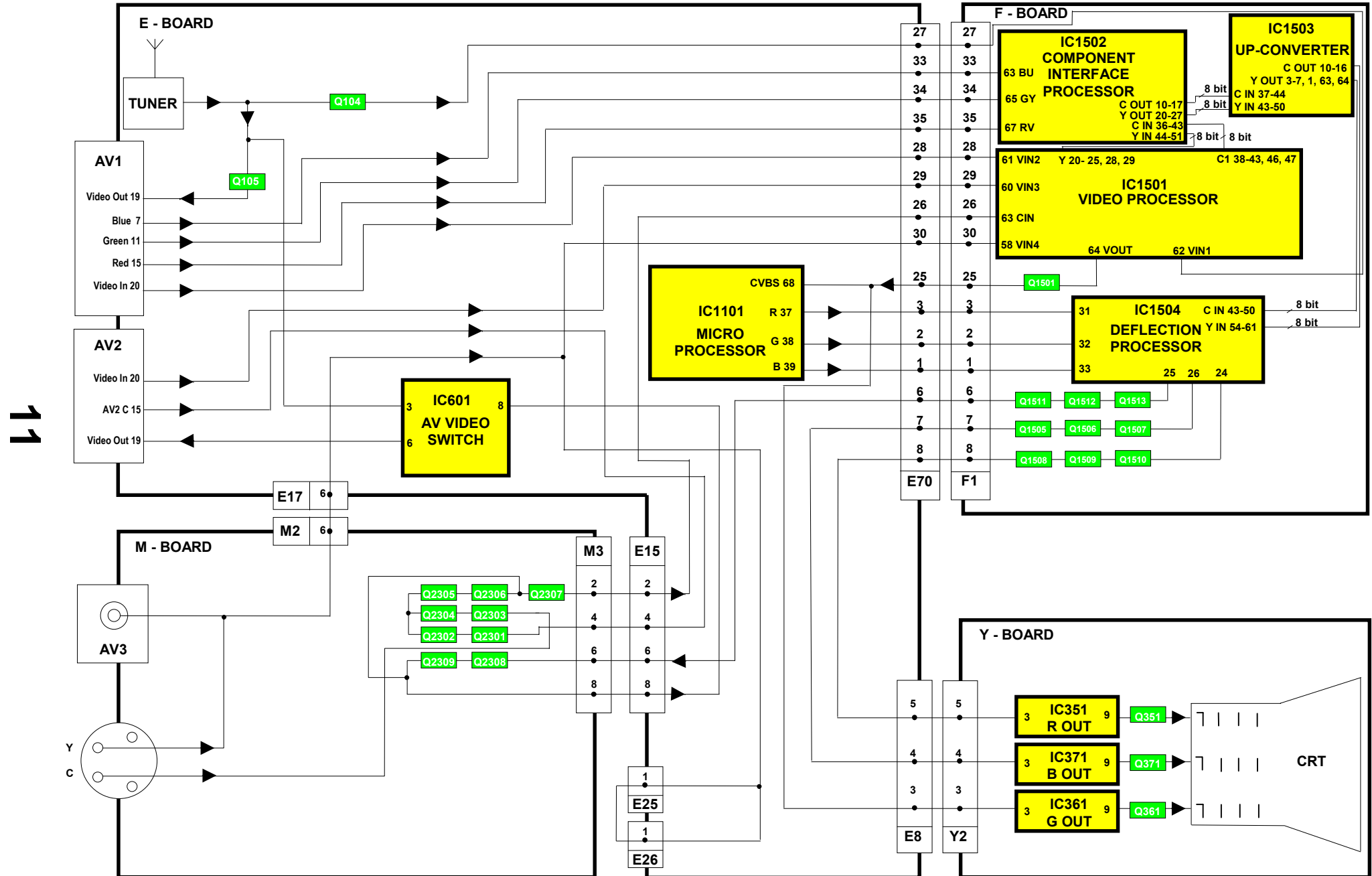
(Die angegebenen Werte sind Mittelwerte und Können individuell nach oben oder unten nach dem korrekten Abgleich abweichen.)

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

Abgleichfunktion		Einstellung / Besondere Merkmale
Horizontale position	H-Pos 061	Optimale Einstellung.
Vertikale Position	V-Pos 005	Optimale Einstellung.
Horizontale Amplitude	H-Amp 055	Optimale Einstellung.
Vertikale Amplitude	V-Amp 054	Optimale Einstellung.
OW-amplitude	EW-Amp1 - 030	Optimale Einstellung.
Lower corner	Lower corner 007	Optimale Einstellung.
Trapez-Kompensation	Trapez 1 047	Optimale Einstellung.
Upper corner	Upper corner 006	Optimale Einstellung.
Vertikale linearität	V-Lin 006	Optimale Einstellung.
Vertikale Symmetrie	V-Sym 002	Optimale Einstellung.
Angle	Angle 000	Optimale Einstellung.
Bow	Bow 005	Optimale Einstellung.
DVCO	DVCO - 005	Ein Farbbalken-Testbild empfangen. Zum Abgleich des Farboszillators (DVCO) die blau Taste drücken. Nachdem ein leichtes Flackern in den Farbbalken zum Stillstand gekommen ist, die STR -Taste drücken.
Cut-off	Cut-off 0171	Einen Oszillographen an die blaue Katode der Bildröhre anschliessen. STR -Taste drücken und Mit der gelben und blauen Taste den CUT-OFF Wert auf $160V \pm 5V$ abgleichen und mit der STR-Taste abspeichern. Den Oszillograph entfernen und den Ug2 Test aufrufen. Den Abgleichwert solange ändern, bis OK auf dem Bildschirm erscheint. Den Wert abspeichern.
Ug2 Test	Ug2 0155 O.K.	
Highlight Lowlight	High 0396 0357 0374 Low 0117 0132 0112	Optimale Einstellung.
Sub-Brightness	Sub-Brightness 000	Optimale Einstellung.

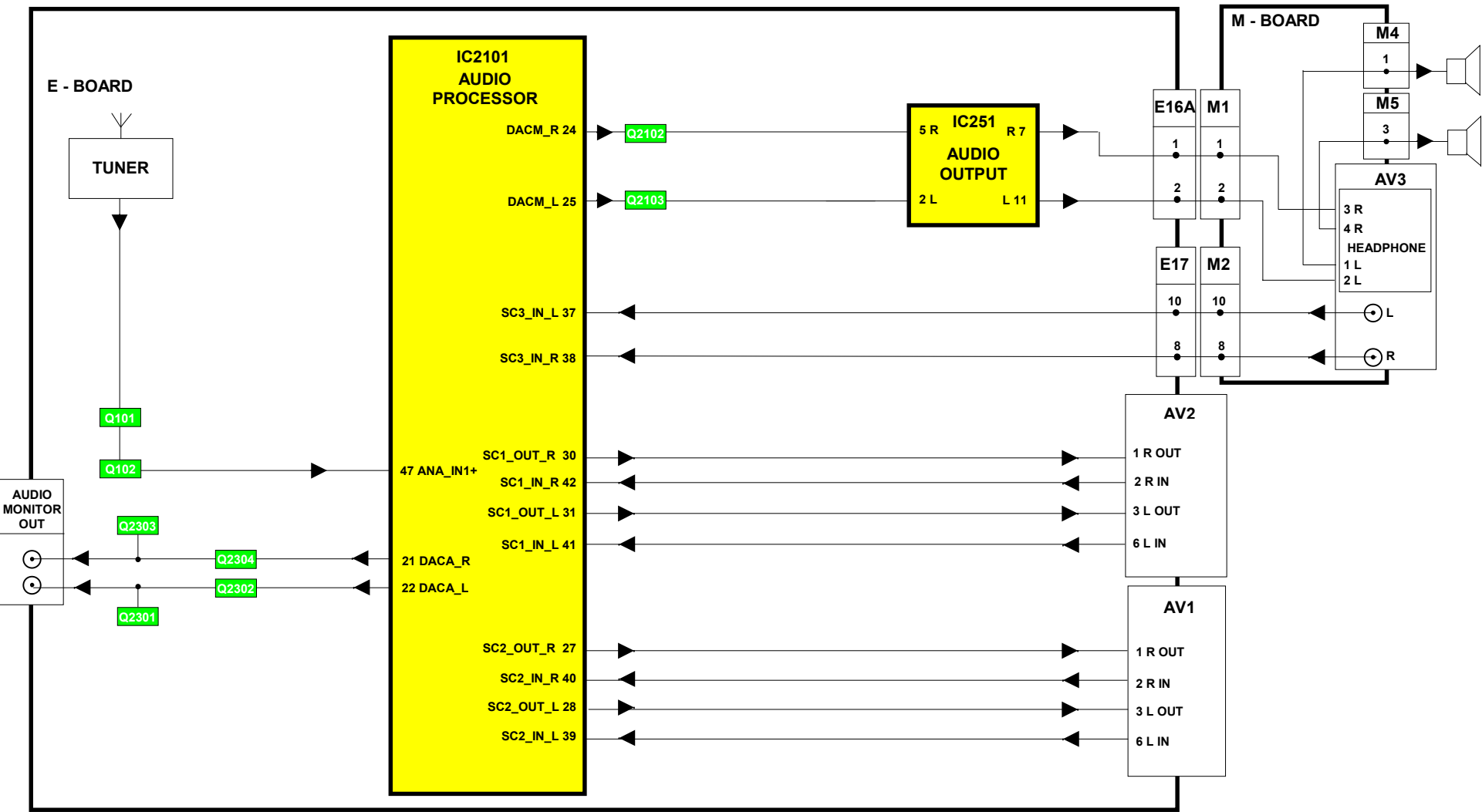
VIDEO BLOCK DIAGRAM

BILDSIGNAL BLOCKSCHEMA



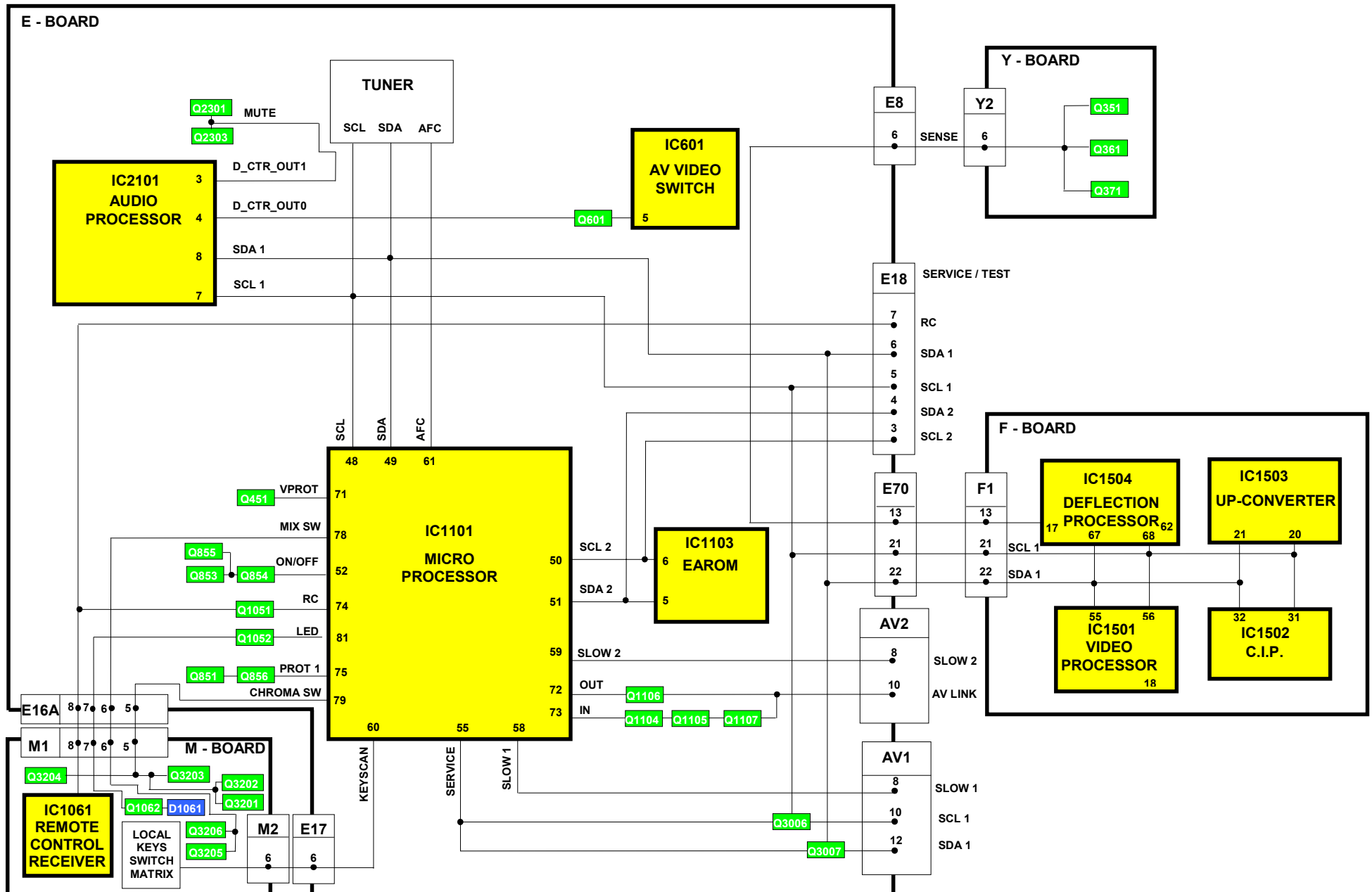
AUDIO BLOCK DIAGRAM

TONSIGNAL BLOCKSCHEMA



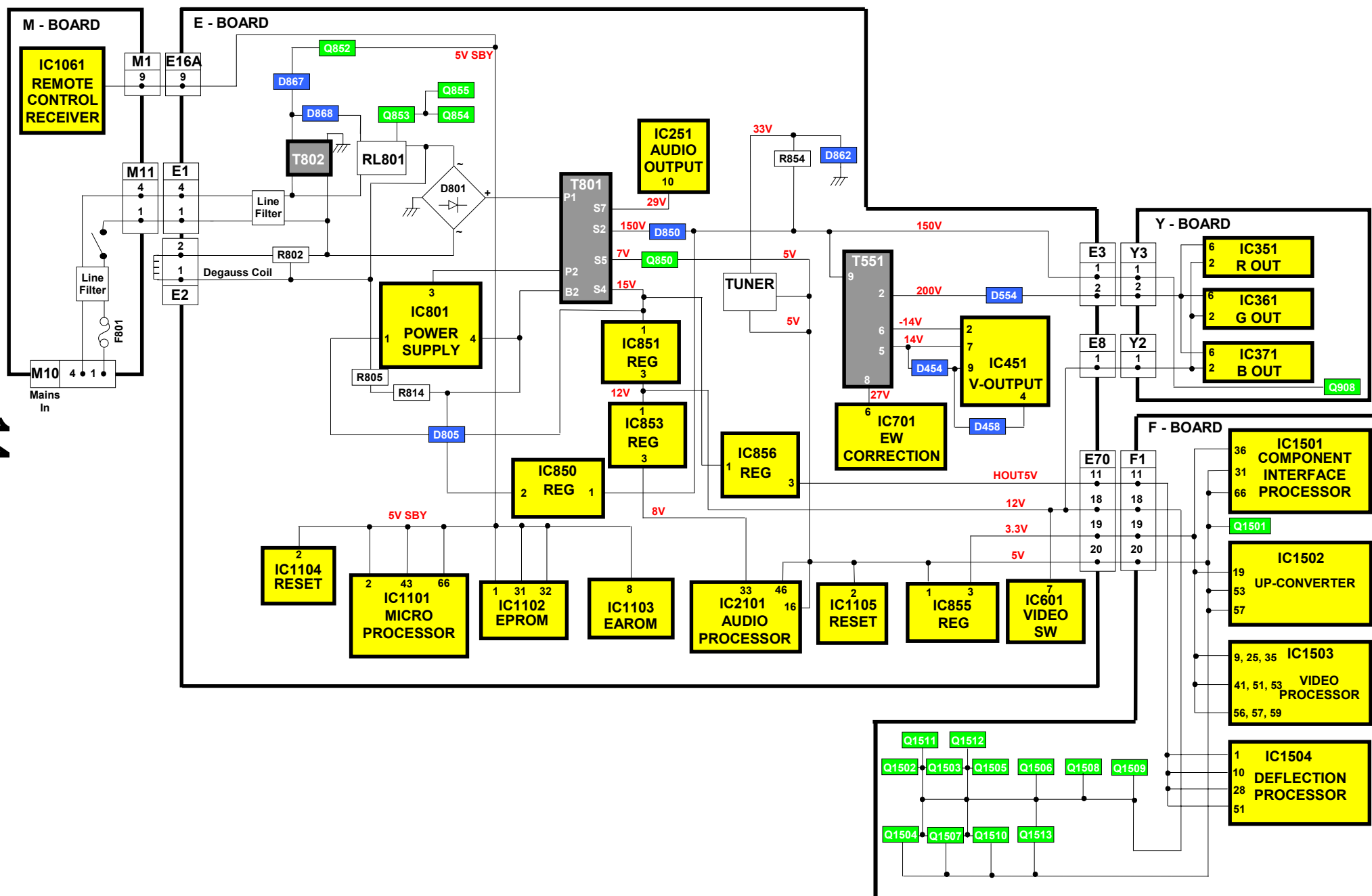
CONTROL BLOCK DIAGRAM

KONTROLL BLOCKSCHEMA



POWER SUPPLY BLOCK DIAGRAM

STROMVERSORGUNGS BLOCKSCHEMA



PARTS LOCATION

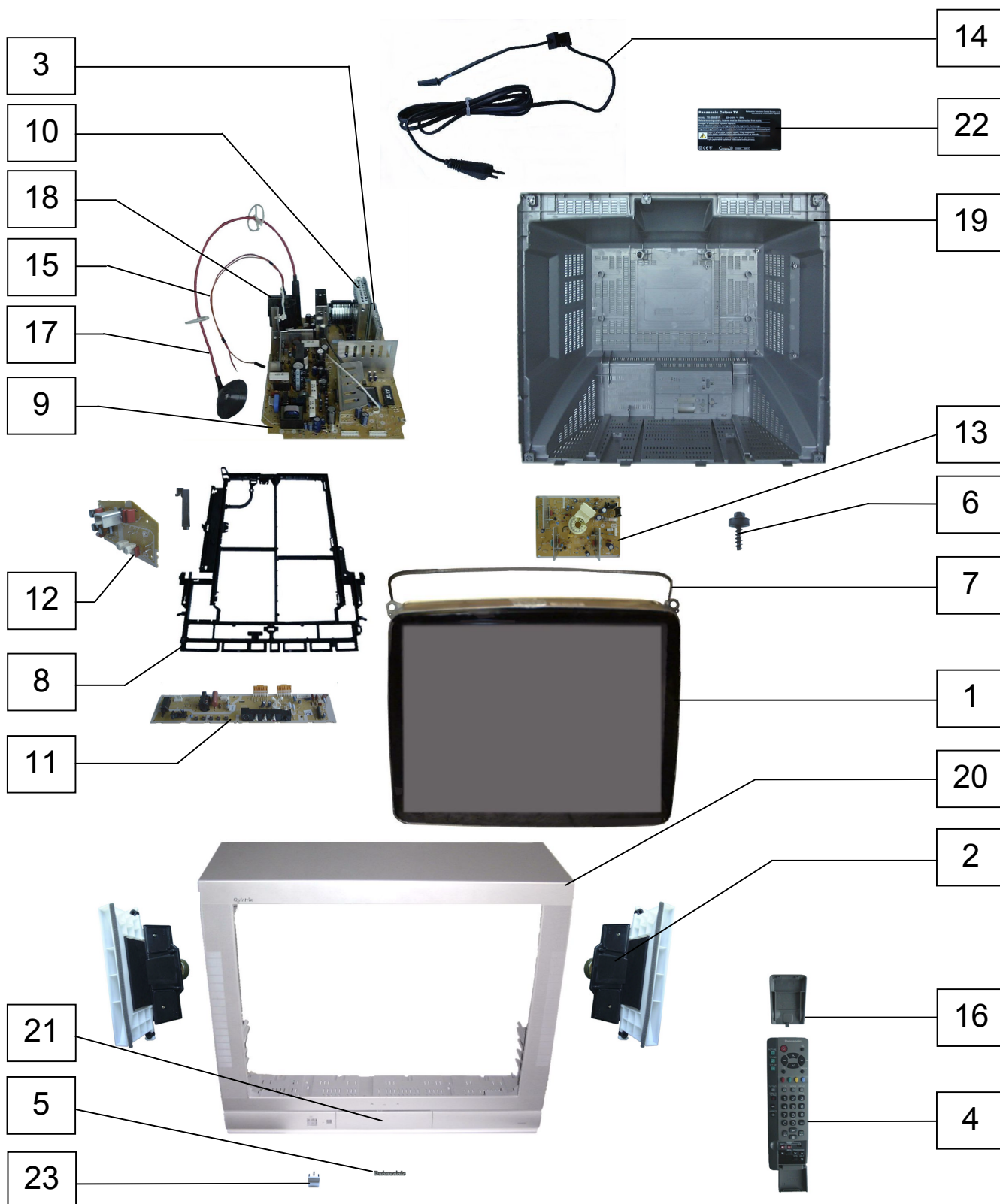
NOTE:

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

EXPLOSIONSZEICHNUNG

ANMERKUNG:

Die Nummern auf den Teilen der Explosionszeichnung zeigen die Bezugsnummern des Artikels der Explosionszeichnung der Ersatzteilliste an.



REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturers specified parts.

* In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref	Parts Number	Description	
COMMON PARTS			
EXPLODED VIEW			
1	A68ELO10X71	C.R.T.	
2	EAGG1218P2	SPEAKER	
3	ENG27507GR	TUNER	
4	EUR511210	REMOTE CONTROL	
5	TBMA060	PANASONIC BADGE	
6	THT1062	CRT FIXING SCREW	
7	TLK8E05150	DEGAUSS COIL	
8	TMX8E046	CHASSIS FRAME	
9	TNP8EE013BW	E P.C.B.	
10	TNP8EF007AC	F P.C.B.	
11	TNP8EM024AG	M P.C.B.	
12	TNP8EP017AG	P P.C.B.	
13	TNP8EY018AC	Y P.C.B.	
14	TSX8E0028	POWER CORD	
15	TXJ/FC0DEG	FOCUS LEAD ASSY	
16	UR51EC904A	BATTERY COVER (REMOTE)	
17	ZTBZAD550A	ANODE CABLE	
18	ZTFM05010A	F.B.T.	
MISCELLANEOUS COMPONENTS			
.	832AG11D-ESL	IC SOCKET	
.	TBLG3019	SET FOOT (FRONT)	
.	TBLG3020	SET FOOT (REAR)	
.	TBM8E2145	PRESET LABEL	
.	TEK6940	LID CATCH	
.	TES2298	CRT EARTH SPRING	
.	TKK4G8533	LED PANEL	
.	TKP4G11460	SMOKED PANEL	
.	TKXA04001A	SPEAKER HORN	
.	TLK8E05163	CANCELLATION COIL	
.	TLK8E05164	GEOMAGNETIC COIL	
.	TMW8E020-1	LED HOLDER	
.	TPC8E4849	OUTER CARTON	
.	TPD8E741	TOP CUSHION	
.	TPD8E742	BOTTOM CUSHION	
.	UM-3DJ-2P	BATTERY PACK	
IC1101S	PLCC-84-T	84 PIN IC SOCKET	
PCH2	TMX8E041	PCB BRACKET	
I.C.s			
IC251	LA4282	AUDIO OUTPUT	
IC351	TDA6111Q-N4	RGB OUTPUT	
IC361	TDA6111Q-N4	RGB OUTPUT	
IC371	TDA6111Q-N4	RGB OUTPUT	
IC381	TL431CLPM	REGULATOR	
IC451	LA7845N	VERTICAL OUTPUT	

ERSATZTEILLISTE

Wichtiger Sicherheitshinweis

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

Bei der Bestellung von Ersatzteilen, die mit * gekennzeichnet sind, geben Sie bitte unbedingt die vollständige Typenbezeichnung mit an.

Cct Ref	Parts Number	Description	
IC601	TEA2114	VIDEO SWITCHING	
IC701	TEA2031A	E/W CORRECTION	
IC801	STRF6656LF57	POWER SUPPLY	
IC850	SE140N	ERROR AMPLIFIER	
IC851	AN7812LB1	12V REGULATOR	
IC853	AN78L08TA	8V REGULATOR	
IC855	BA033T-M3	REGULATOR	
IC856	AN7805LB	5V REGULATOR	
IC1061	RPM6937-V4	LED RECEIVER	
IC1101	SDA5450C59	MICRO PROCESSOR	
IC1102	27C2001-M06	EPROM*	
IC1103	XDG3-1XF	EAROM	
IC1104	MN1381-R(TA)	RESET	
IC1105	MN1381-T(TA)	RESET	
IC1501	VPC3215CB8TP	VIDEO PROCESSOR	
IC1502	CIP3250APSB1	C.I.P.	
IC1503	SDA9400	MICRO PROCESSOR	
IC1504	DDP3310BPSE4	VIDEO PROCESSOR	
IC1900	LA6515	EARTH CORRECTION	
IC2101	MSP3400CPOC8	AUDIO PROCESSOR	
FUSES			
F802-2	EYF52BC	FUSE HOLDER	
F802-1	EYF52BC	FUSE HOLDER	
F802	S5055AC	FUSE	
F1900	TR5-T374-315	FUSE	
DIODES			
D251	TYMD0002	DIODE	
D253	MA700TA5	DIODE	
D254	MA700TA5	DIODE	
D351	ERA15-04V3	DIODE	
D352	ERA15-04V3	DIODE	
D361	ERA15-04V3	DIODE	
D362	ERA15-04V3	DIODE	
D371	ERA15-04V3	DIODE	
D372	ERA15-04V3	DIODE	
D376	MA165TA5	DIODE	
D377	MA165TA5	DIODE	
D378	MA165TA5	DIODE	
D387	MA2160LFS	DIODE	
D453	MA165TA5	DIODE	
D454	EU02V0	DIODE	
D456	MTZJT-775.6C	DIODE	
D457	MA165TA5	DIODE	
D501	MA165TA5	DIODE	
D502	1SR124-4AT82	DIODE	
D511	MTZJ4.7C	DIODE	
D553	1SR124-4AT82	DIODE	
D554	1SR124-4AT82	DIODE	
D556	MA165TA5	DIODE	
D557	RU2AMLFA1	DIODE	
D558	EU02V0	DIODE	
D560	RH3GLF102	DIODE	

Cct Ref	Parts Number	Description
D561	UDZTE-1722B	DIODE
D562	1SS355TE-17	DIODE
D580	FMV-3GULF730	DIODE
D602	MA4051	DIODE
D603	MA165TA5	DIODE
D604	MA165TA5	DIODE
D609	1SR124-4AT82	DIODE
D617	MA3068MTX	DIODE
D620	MA165TA5	DIODE
D701	MA165TA5	DIODE
D702	MTZJT-775.1C	DIODE
D704	MA29TA5	DIODE
D705	MTZJT776.2B	DIODE
D706	MA165TA5	DIODE
D707	AU02V0	DIODE
D708	MA165TA5	DIODE
D709	MTZJT-7736A	DIODE
D710	MTZJT-7716C	DIODE
D801	RBV-608LF-B	DIODE
D803	1SR124-4AT82	DIODE
D804	1SR124-4AT82	DIODE
D805	SFH617A-20P6	PHOTO COUPLER
D806	1SR124-4AT82	DIODE
D850	RU4BLF-L1	DIODE
D851	MTZJT776.2B	DIODE
D852	MA165TA5	DIODE
D853	TYMD0002	DIODE
D854	S3L20U04P15	DIODE
D855	D10SC6MRL	DIODE
D856	RU4AMLF-M1	DIODE
D857	MTZJT-775.1A	DIODE
D858	MA165TA5	DIODE
D859	MA165TA5	DIODE
D861	MA165TA5	DIODE
D862	MTZJT-7736A	DIODE
D863	MA165TA5	DIODE
D865	MA165TA5	DIODE
D866	MA165TA5	DIODE
D867	EK06-V0	DIODE
D868	1N4150T-77	DIODE
D869	1N4150T-77	DIODE
D870	MA165TA5	DIODE
D871	1N4150T-77	DIODE
D873	MTZJT-775.6C	DIODE
D874	1SR124-4AT82	DIODE
D875	BZX79A75A26A	DIODE
D890	MA165TA5	DIODE
D891	MA165TA5	DIODE
D901	1SS254T-77	DIODE
D902	1SS254T-77	DIODE
D903	1SS254T-77	DIODE
D907	MA165TA5	DIODE
D910	R2KNLFA1	DIODE
D1061	SLR56UR3FLF	LED
D1101	MA165TA5	DIODE
D1104	MA165TA5	DIODE
D1105	MA165TA5	DIODE
D1131	MTZJT-775.6C	DIODE
D2101	MA723TA5	DIODE
D2102	MA723TA5	DIODE
D2103	MA723TA5	DIODE
D2104	MA723TA5	DIODE
D2105	MTZJT-778.2C	DIODE
D2303	MA723TA5	DIODE
D2304	MA723TA5	DIODE
D3201	MTZJT-778.2C	DIODE

Cct Ref	Parts Number	Description
D3202	MTZJT-778.2C	DIODE
D3351	1SS254T-77	DIODE
D3352	MA165TA5	DIODE
D3353	MA165TA5	DIODE
D3354	MA165TA5	DIODE
R842	232266296706	THERMISTOR
R843	232266296706	THERMISTOR
TRANSISTORS		
Q101	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q105	BC847B	TRANSISTOR
Q251	2SD1328STX	TRANSISTOR
Q252	2SD1328STX	TRANSISTOR
Q253	BC847B	TRANSISTOR
Q254	BC847B	TRANSISTOR
Q351	TYMQ0002	TRANSISTOR
Q361	TYMQ0002	TRANSISTOR
Q371	TYMQ0002	TRANSISTOR
Q451	BC857B	TRANSISTOR
Q503	2SK2962TPE6	TRANSISTOR
Q551	2SC5144LB228	TRANSISTOR
Q552	2SC1473ATA	TRANSISTOR
Q601	BC847B	TRANSISTOR
Q701	BC857B	TRANSISTOR
Q702	BC847B	TRANSISTOR
Q703	IRF644R-M3S	TRANSISTOR
Q850	2SD2396K-M3	TRANSISTOR
Q851	BC857B	TRANSISTOR
Q852	2SD1858TV2	TRANSISTOR
Q853	BC847B	TRANSISTOR
Q854	BC847B	TRANSISTOR
Q855	BC847B	TRANSISTOR
Q856	BC847B	TRANSISTOR
Q857	2SA1018QTA	TRANSISTOR
Q905	BC847B	TRANSISTOR
Q906	BC847B	TRANSISTOR
Q907	BC857B	TRANSISTOR
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q1051	BC847B	TRANSISTOR
Q1062	BC847B	TRANSISTOR
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q1501	BC847B	TRANSISTOR
Q1502	BC857B	TRANSISTOR
Q1503	BC847B	TRANSISTOR
Q1504	BC847B	TRANSISTOR
Q1505	BC857B	TRANSISTOR
Q1506	BC847B	TRANSISTOR
Q1507	BC847B	TRANSISTOR
Q1508	BC857B	TRANSISTOR
Q1509	BC847B	TRANSISTOR
Q1510	BC847B	TRANSISTOR
Q1511	BC857B	TRANSISTOR
Q1512	BC847B	TRANSISTOR
Q1513	BC847B	TRANSISTOR
Q1514	BC847B	TRANSISTOR
Q1515	BC847B	TRANSISTOR
Q1900	BC847B	TRANSISTOR
Q2101	BC857B	TRANSISTOR
Q2102	BC857B	TRANSISTOR
Q2103	BC857B	TRANSISTOR

Cct Ref	Parts Number	Description
Q2301	BC847B	TRANSISTOR
Q2302	BC857B	TRANSISTOR
Q2303	BC847B	TRANSISTOR
Q2304	BC857B	TRANSISTOR
Q3006	BC847B	TRANSISTOR
Q3007	BC847B	TRANSISTOR
Q3201	BC847B	TRANSISTOR
Q3202	BC847B	TRANSISTOR
Q3203	BC857B	TRANSISTOR
Q3204	BC857B	TRANSISTOR
Q3205	BC847B	TRANSISTOR
Q3206	BC847B	TRANSISTOR
Q3207	BC847B	TRANSISTOR
Q3208	BC847B	TRANSISTOR
Q3209	BC847B	TRANSISTOR
Q3352	BC857B	TRANSISTOR
TRANSFORMERS		
T501	ETH19Y193AY	TRANSFORMER
T801	ETS42AE2G6AD	TRANSFORMER
T802	ETP35KAN619U	TRANSFORMER
COILS		
J26	EXCELD35V	COIL
L104	EXCELSA35T	COIL
L106	TLTACT100K	COIL
L107	TLTACT6R8K	COIL
L114	ELJFC2R2KF	COIL
L115	ELJFC2R2KF	COIL
L301	TLTACT4R7K	COIL
L353	TLT150K991R	COIL
L363	TLT100K991R	COIL
L373	TLT150K991R	COIL
L381	TLT220K991R	COIL
L382	ELESN6R8KA	COIL
L451	EXCELSA35T	COIL
L501	EXCELSA35T	COIL
L581	ELHKL8040B	COIL
L582	ELC18B181F	COIL
L583	ELC18B150L	COIL
L584	ELHKL8025B	COIL
L586	EXCELD35C	COIL
L606	ELESN100KA	COIL
L701	ELC18B271E	COIL
L704	ELC10D332E	COIL
L705	EXCELD35V	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35T	COIL
L852	ELEIE470KA	COIL
L855	EXCELSA35T	COIL
L856	EXCELSA39V	COIL
L910	EXCELSA35T	COIL
L911	EXCELSA35T	COIL
L912	EXCELSA35T	COIL
L1061	TLT331K991R	COIL
L1103	TLTACT100K	COIL
L1104	EXCELSA35T	COIL
L1105	ELJFC2R2KF	COIL
L1501	ELESN2R2KA	COIL
L1502	ELESN2R2KA	COIL
L1503	ELESN2R2KA	COIL
L1504	ELESN2R2KA	COIL
L1505	ELESN100KA	COIL
L1506	ELESN100KA	COIL
L1507	ELESNR22KA	COIL
L1508	ELESNR22KA	COIL
L1509	ELESN100KA	COIL
L1510	ELESN100KA	COIL



Cct Ref	Parts Number	Description
L1514	ELESN100KA	COIL
L1515	ELESNR39KA	COIL
L1516	ELESN4R7KA	COIL
L1517	ELESN4R7KA	COIL
L1518	ELESN4R7KA	COIL
L1519	ELESNR39KA	COIL
L1520	ELESN2R2KA	COIL
L1521	ELESN1R0KA	COIL
L1522	ELESN2R2KA	COIL
L1523	ELESN2R2KA	COIL
L1524	ELESN2R2KA	COIL
L1525	ELESN100KA	COIL
L1526	ELESN100KA	COIL
L1527	ELESN100KA	COIL
L1528	ELESN100KA	COIL
L1529	ELESN100KA	COIL
L2101	TLTACT100K	COIL
L2103	EXCELSA35T	COIL
L2104	TLTACT4R7K	COIL
L3001	ELEMV1R5MA	COIL
L3002	ELEMV1R5MA	COIL
L3003	ELEMV1R5MA	COIL
L3004	ELEMV1R5MA	COIL
L3201	ELEBR6R8KA	COIL
L3202	ELEBR6R8KA	COIL
L3204	TLT331K991R	COIL
FILTERS		
L804	ELF18N012A	LINE FILTER
L1901	ELF18N012A	LINE FILTER
CRYSTALS		
X1101	A1060006AD	CRYSTAL
X1501	4730007267	CRYSTAL
X1502	4730007341	CRYSTAL
X2101	4730007158	CRYSTAL
RESISTORS		
C101	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
C510	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA1	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA2	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA3	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA4	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA5	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA6	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA7	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA8	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA9	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA10	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA12	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA13	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA14	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA15	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA16	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA17	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA18	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA19	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA20	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0 Ω
JA101	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA102	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA103	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA104	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA105	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA106	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA107	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA108	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω
JA109	ERJ8GEY0R00	S.M.CARB .125W 5% 0 Ω

Cct Ref	Parts Number	Description			
JA110	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA111	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA112	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA113	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA114	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA115	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA116	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA117	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA118	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA119	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA200	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA201	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA202	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE4	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE18	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE22	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE26	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE33	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE35	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE42	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE43	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE48	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSE49	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSF1	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSF2	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSF3	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSM7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSM8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSM10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSM14	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSY04	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R101	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R102	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R103	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R104	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R106	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R107	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R111	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R113	2-640463-3	METAL	2W	5%	22K Ω
R116	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R117	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R118	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R120	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R121	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R251	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R252	ERJ6GEYJ432	S.M.CARB	0.1W	5%	4K3 Ω
R253	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R254	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R255	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R256	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R257	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω
R258	ERJ6GEYJ432	S.M.CARB	0.1W	5%	4K3 Ω
R259	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω
R260	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R261	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R262	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R263	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R264	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R265	ERD25TJ2R2	CARBON	0.25W	5%	2R2 Ω
R266	ERD25TJ2R2	CARBON	0.25W	5%	2R2 Ω
R267	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω

Cct Ref	Parts Number	Description			
R268	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R269	ERQ14AJ101	METAL	0.25W	5%	100 Ω
R271	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R272	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω
R350	ERQ12AJ151P	FUSIBLE	0.5W	5%	150 Ω
R352	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2K Ω
R355	ERG1ANJP683H	METAL	0.5W	5%	68K Ω
R356	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R357	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R358	ERDS1TJ821	CARBON	0.5W	5%	820 Ω
R360	ERO50PKF8251	METAL	0.5W	5%	8M2 Ω
R362	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2K Ω
R365	ERG1ANJP683H	METAL	0.5W	5%	68K Ω
R366	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R367	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R368	ERDS1TJ821	CARBON	0.5W	5%	820 Ω
R372	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2K Ω
R375	ERG1ANJP683H	METAL	0.5W	5%	68K Ω
R376	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R377	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R378	ERDS1TJ821	CARBON	0.5W	5%	820 Ω
R382	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R383	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R385	ERQ12HJ1R2	METAL	0.5W	5%	1R2 Ω
R394	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R396	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R398	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R451	2-640463-3	METAL	2W	5%	22K Ω
R452	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R453	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R454	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R455	2-640463-3	METAL	2W	5%	22K Ω
R456	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R457	2-640463-3	METAL	2W	5%	22K Ω
R458	ERDS1TJ1R0	CARBON	0.5W	5%	1 Ω
R459	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R460	ERG1SJ221P	METAL	1W	5%	220 Ω
R461	ERX2SJS1R5H	FUSIBLE	2W	5%	1R5 Ω
R463	ERDS2TJ222T	CARBON	0.5W	5%	2K2 Ω
R464	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R465	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R467	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R502	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R503	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
R507	ERX3SJ4R7H	METAL	3W	5%	4R7 Ω
R509	ERG1SJ222E	METAL	0.5W	5%	2K2 Ω
R510	ERG1SJ222E	METAL	0.5W	5%	2K2 Ω
R551	ERX3SJSR22	METAL	3W	5%	R22 Ω
R555	ERQ12HKR82	FUSIBLE	0.5W	10%	R82 Ω
R558	ERDS1TJ124	CARBON	0.5W	5%	120K Ω
R559	ERQ12HKR82	FUSIBLE	0.5W	10%	R82 Ω
R560	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270K Ω
R561	2-640463-3	METAL	2W	5%	22K Ω
R563	ERJ6GEYJ564	S.M.CARB	0.1W	5%	560K Ω
R564	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω
R566	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R567	ERF7ZK1R0	WOUND	7W	10%	1 Ω
R568	ERDS1TJ120	CARBON	0.5W	5%	12 Ω
R581	ERQ2CJP821	METAL	2W	5%	820 Ω
R582	ERG3FJ471	METAL	3W	5%	470 Ω
R583	ERG3FJ331	METAL	3W	5%	330 Ω
R603	2-640463-3	METAL	2W	5%	22K Ω
R604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R606	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R607	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω

Cct Ref	Parts Number	Description			
R608	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200 Ω
R609	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200 Ω
R610	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω
R611	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R612	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R620	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R622	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R647	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R648	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R650	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R701	ERQ12AJ330P	METAL	0.5W	5%	330 Ω
R702	ERX2SJS2R7H	FUSIBLE	2W	5%	2R7 Ω
R703	ERG2FJ821	METAL	2W	5%	820 Ω
R704	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R705	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R706	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R707	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R708	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R709	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R710	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R711	ERG1SJ101	METAL	1W	5%	100 Ω
R712	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R714	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R715	ERD25TJ272F	CARBON	0.25W	5%	2K7 Ω
R716	ERQ12AJ680P	METAL	0.5W	5%	68 Ω
R718	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R719	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R720	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
R721	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R805	ERD25TJ473	CARBON	0.25W	5%	47K Ω
R806	ERD25TJ100	CARBON	0.25W	5%	10 Ω
R807	ERD25TJ332	CARBON	0.25W	5%	3K3 Ω
R809	ERD25TJ681	CARBON	0.25W	5%	680 Ω
R810	ERW2PKR22	WOUND	2W	5%	22 Ω
R811	ERW2PKR22	WOUND	2W	5%	22 Ω
R812	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω
R813	ERF7ZK2R7	WOUND	7W	20%	2R7 Ω
R814	ERD25TJ473	CARBON	0.25W	5%	47K Ω
R815	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω
R850	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω
R852	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R853	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R854	ERG2FJ223	METAL	2W	5%	22K Ω
R855	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R857	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R858	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R859	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω
R861	ERDS2TJ221T	CARBON	0.5W	5%	220 Ω
R862	ERD25TJ272F	CARBON	0.25W	5%	2K7 Ω
R863	ERDS1TJ560	CARBON	0.5W	5%	56 Ω
R864	ERDS1TJ151	CARBON	0.5W	5%	150 Ω
R865	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R867	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R868	2-640463-3	METAL	2W	5%	22K Ω
R869	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R870	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R871	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R872	ERG1SJ183	METAL	1W	5%	18K Ω
R873	ERG1SJ223	METAL	1W	5%	22K Ω
R874	ERDS2TJ104T	CARBON	2W	5%	100K Ω
R876	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R877	ERW2PKR47	WOUND	2W	10%	R47 Ω
R878	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R879	ERG3FJ680H	METAL	3W	5%	68 Ω
R880	ERG5FJ120H	METAL	5W	5%	12 Ω
R890	ERX1FJ3R9P	FUSIBLE	1W	5%	3R9 Ω

Cct Ref	Parts Number	Description			
R913	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R914	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R915	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R916	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R917	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω
R918	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R919	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω
R920	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω
R922	ERDS2TJ683T	CARBON	2W	5%	68K Ω
R923	ERDS2TJ683T	CARBON	2W	5%	68K Ω
R924	ERDS1FYJ390	CARBON	0.5W	5%	39 Ω
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R927	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω
R928	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω
R929	ERDS1FVJ471	RESISTOR	0.5W	5%	470 Ω
R931	ERDS1FYJ390	CARBON	0.5W	5%	39 Ω
R935	ERQ14AJW3R9	FUSIBLE	0.25W	5%	3R9 Ω
R936	ERQ1CJP102	FUSIBLE	1W	5%	1K Ω
R937	ERQ14AJW100	FUSIBLE	0.25W	5%	10 Ω
R938	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω
R941	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω
R1051	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1062	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1063	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1101	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1103	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1106	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1108	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1109	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1110	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1111	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1112	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1115	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1118	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1119	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1123	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1124	ERJ6GEYJ1R0	S.M.CARB	0.1W	5%	1 Ω
R1125	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1128	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1129	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1130	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1131	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1132	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1133	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R1136	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1137	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1138	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
R1139	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1140	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1141	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1146	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1147	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω

Cct Ref	Parts Number	Description			
R1148	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1149	2-640463-3	METAL	2W	5%	22K Ω
R1151	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1156	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1157	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1158	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1159	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1160	2-640463-3	METAL	2W	5%	22K Ω
R1161	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1163	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1164	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1165	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1166	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1167	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R1168	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1169	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1170	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1171	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R1172	2-640463-3	METAL	2W	5%	22K Ω
R1173	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1174	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1175	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω
R1178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1251	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1252	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1253	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R1254	ERJ6GEYJ512	S.M.CARB	0.1W	5%	5K1 Ω
R1255	ERJ6GEYJ912	S.M.CARB	0.1W	5%	9K1 Ω
R1501	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1502	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1504	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1505	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1506	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1507	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1508	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1509	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1510	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1511	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1512	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1513	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1514	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1515	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R1517	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1521	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1522	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1523	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1524	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1525	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1526	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1527	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R1528	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1529	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R1530	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1531	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1532	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1533	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R1534	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1535	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1536	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1537	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1538	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1539	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1540	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1541	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1542	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω

Cct Ref	Parts Number	Description			
R1543	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1544	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1545	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1546	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1547	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1548	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1549	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1550	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1551	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1552	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1553	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1554	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1555	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1556	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1557	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1558	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1559	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1560	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1561	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1562	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1563	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1564	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1565	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1566	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1567	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1568	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1569	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1570	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1571	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1572	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1573	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1574	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1575	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1577	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1578	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1579	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1580	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1584	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1585	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1586	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1587	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω
R1588	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510 Ω
R1589	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω
R1900	ERG2SJS220H	METAL	2W	5%	220 Ω
R1901	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1902	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R1903	2-640463-3	METAL	2W	5%	22K Ω
R1905	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R1906	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω
R1907	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω
R1908	ERJ6GEYJ154	S.M.CARB	0.1W	5%	150K Ω
R1910	ERDS1TJ6R8	CARBON	0.5W	5%	6R8 Ω
R1911	ERDS1TJ6R8	CARBON	0.5W	5%	6R8 Ω
R1912	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω 
R1914	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R1915	ERDS1TJ6R8	CARBON	0.5W	5%	6R8 Ω
R2101	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2103	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2109	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω
R2110	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R2111	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R2112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2113	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R2114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2115	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω

Cct Ref	Parts Number	Description			
R2116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2118	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R2119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2120	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R2302	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2303	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2304	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2305	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2306	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R2308	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R2309	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R2310	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R2311	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R2312	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3001	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3002	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3003	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3004	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3006	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3007	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3008	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3010	ERD25TJ750	CARBON	0.25W	5%	75 Ω
R3013	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3015	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3016	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3017	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R3019	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3020	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3021	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3046	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3047	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3048	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3049	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3050	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3057	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3201	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3202	ERDS1TJ151	CARBON	0.5W	5%	150 Ω
R3203	ERDS1TJ151	CARBON	0.5W	5%	150 Ω
R3204	ERG2FJ221	METAL	2W	5%	220 Ω
R3205	ERG2FJ221	METAL	2W	5%	220 Ω
R3207	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3208	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3210	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω
R3211	2-640463-3	METAL	2W	5%	22K Ω
R3212	2-640463-3	METAL	2W	5%	22K Ω
R3213	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3214	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R3215	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3216	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R3217	2-640463-3	METAL	2W	5%	22K Ω
R3218	2-640463-3	METAL	2W	5%	22K Ω
R3219	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3220	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R3221	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3222	2-640463-3	METAL	2W	5%	22K Ω
R3223	2-640463-3	METAL	2W	5%	22K Ω
R3224	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3225	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω
R3226	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3227	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3228	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω

Cct Ref	Parts Number	Description			
R3229	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3230	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω
R3231	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R3232	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω
R3233	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R3234	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R3355	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R3356	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R3357	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R3358	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω
R3360	ERDS1TJ471	CARBON	0.5W	5%	470 Ω
R3361	ERO50PKF1133	METAL	0.5W	5%	110K Ω
R3362	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3363	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3364	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R3601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3603	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R3614	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
CAPACITORS					
C102	ECJ2VF1H103Z	ELECT	350V		10nF
C103	ECJ2VF1H104Z	ELECT	350V		100nF
C106	ECUV1H560JCX	S.M. CAP	50V		56pF
C107	ECJ2VF1H104Z	ELECT	350V		100nF
C108	ECEA1CU100	ELECT	16V		10μF
C109	ECUV1H102JCX	S.M. CAP	50V		1nF
C110	ECJ2VF1H103Z	ELECT	350V		10nF
C111	ECA1HMR33B	ELECT	50V		330nF
C117	ECJ2VF1H103Z	ELECT	350V		10nF
C118	ECJ2VF1H104Z	ELECT	350V		100nF
C119	ECA1CM102E	ELECT	16V		1000μF
C120	ECA1CM221B	ELECT	16V		220μF
C121	ECUV1H561KBX	S.M. CAP	50V		560pF
C122	ECJ2VB1H102K	ELECT	350V		1nF
C123	ECJ2VB1H102K	ELECT	350V		1nF
C124	ECUV1H220JCX	S.M. CAP	50V		22pF
C125	ECUV1H100DCX	S.M. CAP	50V		10pF
C251	ECA1EM100B	ELECT	25V		10μF
C252	ECJ2VB1H223K	ELECT	350V		22nF
C253	ECA1HM4R7B	ELECT	50V		4.7μF
C254	ECQV1H104JL3	FILM	50V		0.1μF
C255	ECA1EM101B	ELECT	25V		100μF
C256	ECJ2VB1H223K	ELECT	350V		22nF
C257	ECA1HM4R7B	ELECT	50V		4.7μF
C258	ECA1EM100B	ELECT	25V		10μF
C259	ECQV1H104JL3	FILM	50V		0.1μF
C260	ECA1VM102GB	ELECT	35V		1nF
C261	ECA1VM102GB	ELECT	35V		1nF
C262	ECQV1H274JL3	FILM	50V		270nF
C263	ECA1HM010B	ELECT	50V		1pF
C264	ECA1HHG222E	ELECT	50V		2200μF
C265	ECQV1H274JL3	FILM	50V		270nF
C266	ECA1HM010B	ELECT	50V		1pF
C267	ECJ2YB1H104K	ELECT	350V		100nF
C268	ECJ2YB1H104K	ELECT	350V		100nF
C270	ECJ2YB1H104K	ELECT	350V		100nF
C350	ECUV1H102JCX	S.M. CAP	50V		1nF
C352	ECJ2VF1H224Z	ELECT	350V		220nF
C353	ECJ2YB1H104K	ELECT	350V		100nF
C354	ECQM2104KZ	FILM	250V		100nF
C355	ECKC2H102J	CERAMIC	500V		1nF
C358	ECUV1H222JCX	S.M. CAP	50V		2.2nF
C360	ECUV1H102JCX	S.M. CAP	50V		1nF
C362	ECJ2VF1H224Z	ELECT	350V		220nF
C363	ECJ2YB1H104K	ELECT	350V		100nF

Cct Ref	Parts Number	Description		
C364	ECQM2104KZ	FILM	250V	100nF
C365	ECKC2H102J	CERAMIC	500V	1nF
C368	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C369	ECUV1H220JCX	S.M. CAP	50V	22pF
C370	ECUV1H102JCX	S.M. CAP	50V	1nF
C372	ECJ2VF1H224Z	ELECT	350V	220nF
C373	ECJ2YB1H104K	ELECT	350V	100nF
C374	ECQM2104KZ	FILM	250V	100nF
C375	ECKC2H102J	CERAMIC	500V	1nF
C378	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C381	ECEA1HU101	ELECT	50V	100μF
C382	ECA1CM471B	ELECT	16V	470μF
C383	ECJ2VB1H103K	ELECT	350V	10nF
C384	ECQM2104KZ	FILM	250V	100nF
C385	ECA2EM220B	ELECT	250V	22μF
C386	ECKC3D152J	CERAMIC	2KV	1.5nF
C395	ECQV1H104JL3	FILM	50V	0.1μF
C451	ECUV1H102JX	S.M. CAP	50V	1nF
C453	ECUV1H152KBX	S.M. CAP	50V	1.5pF
C454	ECQV1H105JZ	FILM	50V	1μF
C455	ECA1HM100B	ELECT	50V	10μF
C456	ECA1HHG221B	ELECT	50V	220μF
C459	ECQB1224KFW	FILM	100V	220nF
C508	ECQB1H103J	FILM	50V	10nF
C509	ECA1VM470B	ELECT	35V	47μF
C511	ECQE2683KFW	FILM	100V	68nF
C551	ECKC3D561J	CERAMIC	2KV	560pF
C552	ECWH15H102JN	FILM	1500V	1nF
C557	ECKC2H471J	CERAMIC	500V	470pF
C558	ECA1HHG471E	ELECT	50V	470μF
C561	ECA1EHG102B	ELECT	25V	1000μF
C562	ECKC2H101J	CERAMIC	500V	100pF
C563	ECA2EHG220B	ELECT	250V	20μF
C564	ECEA2AU2R2	ELECT	100V	2.2μF
C565	ECQP1H273J	FILM	100V	2700μF
C566	ECKC2H471J	CERAMIC	500V	470pF
C567	ECA1EHG102B	ELECT	25V	1000μF
C568	ECKC2H471J	CERAMIC	500V	470pF
C569	ECKC2H102J	CERAMIC	500V	1nF
C581	ECWF4684JBB	FILM	400V	680nF
C582	ECWF4474JBB	FILM	400V	470nF
C583	ECWH20562JVB	FILM	200V	5.6nF
C584	ECWH20562JVB	FILM	200V	5.6nF
C586	ECQF4153JZH	FILM	400V	1.5nF
C587	ECQF4273JZH	FILM	400V	27nF
C608	ECJ2VB1H103K	ELECT	350V	10nF
C609	ECUV1H270JCX	S.M. CAP	50V	27pF
C623	ECUV1H121JCX	S.M. CAP	50V	120pF
C624	ECUV1H121JCX	S.M. CAP	50V	120pF
C625	ECQV1H224JL3	FILM	50V	220nF
C626	ECEA1CU100	ELECT	16V	10μF
C627	ECJ2VB1C104K	ELECT	350V	100nF
C628	ECQV1H224JL3	FILM	50V	220nF
C701	ECA1HHG101B	ELECT	50V	100μF
C702	ECJ2VB1H103K	ELECT	350V	10nF
C703	ECA1HHG100B	ELECT	50V	10μF
C704	ECJ2VB1H223K	ELECT	350V	22nF
C705	ECQB1H102KF3	ELECT	50V	1nF
C709	ECQV1H105JZ	FILM	50V	1μF
C804	222233510224	FILM	250V	220nF
C806	ECKWNA101MB	CERAMIC	400V	100μF
C807	ECKC2H472J	CERAMIC	500V	4.7nF
C808	ECKC2H472J	CERAMIC	500V	4.7nF
C809	ECKC2H472J	CERAMIC	500V	4.7nF
C810	ECKC2H472J	CERAMIC	500V	4.7nF
C811	ECOS2GA221CA	ELECT	400V	220μF

Cct Ref	Parts Number	Description		
C814	ECKC3D102J	CERAMIC	2KV	1nF
C815	ECKC1H471J	CERAMIC	50V	470pF
C817	ECQE6104K	FILM	600V	100nF
C818	ECKCWS332MEB	CERAMIC	1,2kV	3.3nF
C820	ECJ2VF1H104Z	ELECT	350V	100nF
C839	ECEA1CU100	ELECT	16V	10μF
C840	ECJ2YB1H104K	ELECT	350V	100nF
C841	ECA1AM222B	ELECT	10V	2200μF
C842	ECEA1CU100	ELECT	16V	10μF
C845	ECQE6104K	FILM	600V	100nF
C850	ECKC3D471JB	CERAMIC	2KV	470pF
C851	ECA2CHG221E	ELECT	160V	220μF
C852	EEUEB2D101B	CERAMIC	250V	100pF
C853	ECKC2H471J	CERAMIC	500V	470pF
C854	ECA1EM102GB	ELECT	25V	100μF
C855	ECKC2H471J	CERAMIC	500V	470pF
C856	ECA1AHG332B	ELECT	10V	3.3nF
C857	ECKC2H471J	CERAMIC	500V	470pF
C858	ECEA1HGE102	ELECT	50V	1000μF
C859	ECJ2VF1H104Z	ELECT	350V	100nF
C860	ECEA1HU101	ELECT	50V	100μF
C862	ECJ2VF1H104Z	ELECT	350V	100nF
C863	ECEA1HU101	ELECT	50V	100μF
C866	ECJ2VF1H104Z	ELECT	350V	100nF
C867	ECEA1CU100	ELECT	16V	10μF
C868	ECEA1CU100	ELECT	16V	10μF
C869	ECA1EM101B	ELECT	25V	100μF
C870	ECA1EM471GB	ELECT	25V	470μF
C871	ECEA1CU332	ELECT	16V	3300μF
C872	ECA1CM471B	ELECT	16V	470μF
C873	ECEA1CU100	ELECT	16V	10μF
C875	ECA2CM4R7B	ELECT	160V	10μF
C876	ECA1HHG101B	ELECT	50V	100μF
C902	ECA1VM101GB	ELECT	35V	100μF
C904	ECJ2VF1H103Z	ELECT	350V	10nF
C906	ECUV1H563KBX	S.M. CAP	50V	56nF
C907	ECUV1H331JCX	S.M. CAP	50V	330pF
C909	ECKC2H472J	CERAMIC	500V	4.7nF
C910	ECKC2H472J	CERAMIC	500V	4.7nF
C912	ECA2EM220B	ELECT	250V	22μF
C913	ECEA1HU101	ELECT	50V	100μF
C914	ECEA1HU101	ELECT	50V	100μF
C916	ECA2EM220B	ELECT	250V	22μF
C917	ECA1HM100B	ELECT	50V	10μF
C918	ECJ2VF1H103Z	ELECT	350V	10nF
C919	ECGR2H270J	CERAMIC	500V	27pF
C1061	ECJ2VB1H103K	ELECT	350V	10nF
C1062	ECEA1HU101	ELECT	50V	100μF
C1063	ECUV1H331JCX	S.M. CAP	50V	330pF
C1101	ECJ2VF1H104Z	ELECT	350V	100nF
C1102	ECA0JM101B	ELECT	400V	100μF
C1103	ECUV1H220JCX	S.M. CAP	50V	22pF
C1104	ECUV1H220JCX	S.M. CAP	50V	22pF
C1105	ECUV1H101JCX	S.M. CAP	50V	100pF
C1106	ECKC2H681J	CERAMIC	500V	680pF
C1108	ECJ2VB1H333K	ELECT	350V	33nF
C1111	ECEA1CU100	ELECT	16V	10μF
C1112	ECJ2VB1H103K	ELECT	350V	10nF
C1115	ECJ3VB1C474K	ELECT	3.5KV	470nF
C1116	ECJ2VB1H472K	ELECT	350V	4.7nF
C1117	ECJ2VF1H104Z	ELECT	350V	100nF
C1118	ECJ2VB1H103K	ELECT	350V	10nF
C1119	ECUV1H221JCX	S.M. CAP	50V	220pF
C1120	ECJ2VF1H104Z	ELECT	350V	100nF
C1121	ECUV1H221JCX	S.M. CAP	50V	220pF
C1123	ECUV1H471JCX	S.M. CAP	50V	470pF

Cct Ref	Parts Number	Description		
C1124	ECUV1H221JCX	S.M. CAP	50V	220pF
C1125	ECUV1H221JCX	S.M. CAP	50V	220pF
C1126	ECUV1H221JCX	S.M. CAP	50V	220pF
C1127	ECUV1H561JCX	S.M. CAP	50V	560pF
C1129	ECUV1H270JCX	S.M. CAP	50V	27pF
C1130	ECA1CM221B	ELECT	16V	220μF
C1501	ECUV1H271JCX	S.M. CAP	50V	270pF
C1502	ECUV1H271JCX	S.M. CAP	50V	270pF
C1503	ECUV1H271JCX	S.M. CAP	50V	270pF
C1504	ECUV1H271JCX	S.M. CAP	50V	270pF
C1505	ECUV1H271JCX	S.M. CAP	50V	270pF
C1506	ECUV1H271JCX	S.M. CAP	50V	270pF
C1507	ECUV1H271JCX	S.M. CAP	50V	270pF
C1508	ECUV1H271JCX	S.M. CAP	50V	270pF
C1509	ECQV1H684JL3	FILM	50V	680nF
C1510	ECQV1H684JL3	FILM	50V	680nF
C1511	ECQV1H684JL3	FILM	50V	680nF
C1512	ECQV1H684JL3	FILM	50V	680nF
C1513	ECUV1H102JCX	S.M. CAP	50V	1nF
C1514	ECEA1CKA100	ELECT	16V	10μF
C1515	ECJ2VB1H103K	ELECT	350V	10nF
C1516	ECEA1CKA101	ELECT	16V	100μF
C1517	ECJ2VB1H473K	ELECT	350V	47nF
C1518	ECEA1CKA100	ELECT	16V	10μF
C1519	ECUV1H050CCX	S.M. CAP	50V	50pF
C1520	ECUV1H050CCX	S.M. CAP	50V	50pF
C1521	ECJ2VB1H103K	ELECT	350V	10nF
C1522	ECEA1CKA100	ELECT	16V	10μF
C1523	ECJ2VB1H103K	ELECT	350V	10nF
C1524	ECEA1CKA100	ELECT	16V	10μF
C1525	ECJ2VB1H103K	ELECT	350V	10nF
C1526	ECEA1CKA100	ELECT	16V	10μF
C1527	ECJ2VB1C104K	ELECT	350V	100nF
C1528	ECEA1CKA100	ELECT	16V	10μF
C1529	ECJ2VB1C104K	ELECT	350V	100nF
C1530	ECEA1CKA100	ELECT	16V	10μF
C1531	ECJ2VB1C104K	ELECT	350V	100nF
C1532	ECEA1CKA100	ELECT	16V	10μF
C1540	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C1541	ECJ2VB1H333K	ELECT	350V	33nF
C1542	ECJ2VB1H333K	ELECT	350V	33nF
C1543	ECJ2VB1C224K	ELECT	350V	220nF
C1544	ECJ2VB1H333K	ELECT	350V	33nF
C1545	ECEA1CKA100	ELECT	16V	10μF
C1546	ECEA1CKA100	ELECT	16V	10μF
C1547	ECJ2VB1H103K	ELECT	350V	10nF
C1548	ECJ2VB1H103K	ELECT	350V	10nF
C1549	ECJ2VB1H103K	ELECT	350V	10nF
C1550	ECJ2VB1H103K	ELECT	350V	10nF
C1551	ECJ2VB1H103K	ELECT	350V	10nF
C1552	ECJ2VB1H103K	ELECT	350V	10nF
C1553	ECEA1CKA100	ELECT	16V	10μF
C1554	ECJ2VB1H103K	ELECT	350V	10nF
C1555	ECJ2VB1C104K	ELECT	350V	100nF
C1556	ECUV1H270JCX	S.M. CAP	50V	27pF
C1557	ECUV1H270JCX	S.M. CAP	50V	27pF
C1558	ECJ2VB1H103K	ELECT	350V	10nF
C1559	ECEA1CKA100	ELECT	16V	10μF
C1560	ECEA1CKA100	ELECT	16V	10μF
C1561	ECJ2VB1C104K	ELECT	350V	100nF
C1562	ECJ2VB1C104K	ELECT	350V	100nF
C1563	ECJ2VB1C104K	ELECT	350V	100nF
C1564	ECJ2VB1C104K	ELECT	350V	100nF
C1566	ECUV1H270JCX	S.M. CAP	50V	27pF
C1567	ECEA1CKA100	ELECT	16V	10μF
C1568	ECJ2VB1H103K	ELECT	350V	10nF

Cct Ref	Parts Number	Description		
C1569	ECEA1CKA100	ELECT	16V	10μF
C1570	ECJ2VB1H103K	ELECT	350V	10nF
C1571	ECJ2VB1H103K	ELECT	350V	10nF
C1572	ECEA1CKA100	ELECT	16V	10μF
C1573	ECJ2VB1H103K	ELECT	350V	10nF
C1574	ECEA1CKA100	ELECT	16V	10μF
C1575	ECEA1CKA100	ELECT	16V	10μF
C1576	ECJ2VB1H103K	ELECT	350V	10nF
C1577	ECUV1H270JCX	S.M. CAP	50V	27pF
C1578	ECJ2VB1H103K	ELECT	350V	10nF
C1579	ECJ2VB1H103K	ELECT	350V	10nF
C1580	ECJ2VB1H103K	ELECT	350V	10nF
C1581	ECJ2VB1C224K	ELECT	350V	220nF
C1582	ECJ2VB1C224K	ELECT	350V	220nF
C1583	ECJ2VB1C224K	ELECT	350V	220nF
C1584	ECJ2VB1C104K	ELECT	350V	100nF
C1585	ECEA1CKA100	ELECT	16V	10μF
C1586	ECJ2VB1H103K	ELECT	350V	10nF
C1587	ECEA1CKA100	ELECT	16V	10μF
C1588	ECEA1CKA100	ELECT	16V	10μF
C1589	ECJ2VB1H103K	ELECT	350V	10nF
C1590	ECJ2VB1H103K	ELECT	350V	10nF
C1591	ECEA1CKA100	ELECT	16V	10μF
C1592	ECUV1H271JCX	S.M. CAP	50V	270pF
C1594	ECUV1H271JCX	S.M. CAP	50V	270pF
C1596	ECUV1H271JCX	S.M. CAP	50V	270pF
C1603	ECUV1H271JCX	S.M. CAP	50V	270pF
C1900	ECQB1H153K	FILM	50V	15nF
C1901	ECJ2VB1H103K	ELECT	350V	10nF
C1903	ECA1EM470GB	ELECT	25V	47μF
C1904	ECQB1H104J	FILM	50V	100nF
C1905	ECQB1H104J	FILM	50V	100nF
C1906	ECQE2A474MWB	FILM	250V	470nF
C1909	ECJ2VB1H103K	ELECT	350V	10nF
C2101	ECUV1H102JCX	S.M. CAP	50V	1nF
C2102	ECUV1H102JCX	S.M. CAP	50V	1nF
C2103	ECUV1H102JCX	S.M. CAP	50V	1nF
C2104	ECUV1H102JCX	S.M. CAP	50V	1nF
C2105	ECUV1H102JCX	S.M. CAP	50V	1nF
C2106	ECUV1H102JCX	S.M. CAP	50V	1nF
C2107	ECUV1H102JCX	S.M. CAP	50V	1nF
C2108	ECUV1H102JCX	S.M. CAP	50V	1nF
C2109	ECUV1H102JCX	S.M. CAP	50V	1nF
C2110	ECUV1H102JCX	S.M. CAP	50V	1nF
C2111	ECEA1CU100	ELECT	16V	10μF
C2112	ECEA1CU100	ELECT	16V	10μF
C2113	ECA1HM3R3B	ELECT	50V	3R3μF
C2114	ECJ2VF1H104Z	ELECT	350V	100nF
C2115	ECUV1H221JCX	S.M. CAP	50V	220pF
C2116	ECUV1H221JCX	S.M. CAP	50V	220pF
C2117	ECUV1H221JCX	S.M. CAP	50V	220pF
C2118	ECUV1H221JCX	S.M. CAP	50V	220pF
C2119	ECUV1H221JCX	S.M. CAP	50V	220pF
C2120	ECUV1H221JCX	S.M. CAP	50V	220pF
C2121	ECEA1CU100	ELECT	16V	10μF
C2122	ECJ2VF1H104Z	ELECT	350V	100nF
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF
C2124	ECUV1H560JCX	S.M. CAP	50V	56pF
C2125	ECUV1H470JCX	S.M. CAP	50V	47pF
C2126	ECUV1H560JCX	S.M. CAP	50V	56pF
C2127	ECUV1H010CCX	S.M. CAP	50V	1pF
C2128	ECUV1H010CCX	S.M. CAP	50V	1pF
C2129	ECA1CM102B	ELECT	16V	1000μF
C2130	ECA1CM331B	ELECT	16V	330μF
C2134	ECJ2VF1H103Z	ELECT	350V	10nF
C2135	ECEA1HU101	ELECT	50V	100μF

Cct Ref	Parts Number	Description		
C2136	ECJ2VF1H104Z	ELECT	350V	100nF
C2137	ECEA1CU100	ELECT	16V	10µF
C2138	ECUV1H471KBX	S.M. CAP	50V	470pF
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF
C2140	ECEA1HU101	ELECT	50V	100µF
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF
C2301	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2302	ECA1CM470B	ELECT	16V	47µF
C2303	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2304	ECA1CM470B	ELECT	16V	47µF
C3001	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3002	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3003	ECA1CM470B	ELECT	16V	47µF
C3005	ECUV1H561JCX	S.M. CAP	50V	560pF
C3006	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3007	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3008	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3009	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3010	ECA1CM470B	ELECT	16V	47µF
C3012	ECUV1H561JCX	S.M. CAP	50V	560pF
C3013	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3014	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3015	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3016	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3017	ECA1CM470B	ELECT	16V	47µF
C3019	ECUV1H561JCX	S.M. CAP	50V	560pF
C3020	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3021	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3022	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3023	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3024	ECA1CM470B	ELECT	16V	47µF
C3026	ECUV1H561JCX	S.M. CAP	50V	560pF
C3027	ECJ3VB1C474K	ELECT	3.5KV	470nF
C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3030	ECUV1H271JCX	S.M. CAP	50V	270pF
C3031	ECUV1H271JCX	S.M. CAP	50V	270pF
C3032	ECUV1H271JCX	S.M. CAP	50V	270pF
C3111	ECUV1H391JCX	S.M. CAP	50V	390pF
C3201	ECJ2VB1H103K	ELECT	350V	10nF
C3202	ECJ2VB1H103K	ELECT	350V	10nF
C3203	ECUV1H561JCX	S.M. CAP	50V	560pF
C3204	ECUV1H561JCX	S.M. CAP	50V	560pF
C3205	ECA1HM470B	ELECT	50V	47µF
C3206	ECUV1H561JCX	S.M. CAP	50V	560pF
C3207	ECUV1H561JCX	S.M. CAP	50V	560pF
C3209	ECJ2VB1H103K	ELECT	350V	10nF
C3210	ECJ2VB1C104K	ELECT	350V	100nF
C3211	ECJ2VB1H103K	ELECT	350V	10nF
C3212	ECJ2VB1H103K	ELECT	350V	10nF
C3213	ECJ2VB1H103K	ELECT	350V	10nF
C3214	ECJ2VB1C104K	ELECT	350V	100nF
C3215	ECJ2VB1H103K	ELECT	350V	10nF
C3216	ECA1CM330GB	ELECT	16V	33pF
C3217	ECJ2VB1C104K	ELECT	350V	100nF
C3221	ECA1CM221B	ELECT	16V	220µF
C3351	ECA1CM221B	ELECT	16V	220µF
TERMINALS AND LINKS				
JK381	TJS1A5230B	CRT SOCKET		
JK2301	JPJ841101320	RCA SOCKET		
JK3001	350808500	SCART SOCKET		
JK3201	TJB8E029	AV TERMINAL		
SWITCHES				
S802	ESB92S11B	SWITCH		
S1251	EVQ21405R	SWITCH		
S1252	EVQ21405R	SWITCH		
S1253	EVQ21405R	SWITCH		

Cct Ref	Parts Number	Description	
S1254	EVQ21405R	SWITCH	
S1255	EVQ21405R	SWITCH	
RELAYS			
RL801	TSE1885-1	RELAY	
DIFFERENCES FOR MODEL TX--29AS10C			
EXPLODED VIEW			
19	TKU8E00650	BACK COVER	
20	TKY8E541	CABINET	
21	TKP8E1329	DOOR LID	
22	TBM8E2103-1	MODEL LABEL	
23	TBX8E088	POWER BUTTON	
INSTRUCTION BOOKS			
	TQB8E3156A	GERMAN	
	TQB8E3156B	DUTCH	
	TQB8E3156C	ITALIAN	
DIFFERENCES FOR MODEL TX--29AS10C/B			
EXPLODED VIEW			
19	TKU8E00651	BACK COVER	
20	TKY8E543-1	CABINET	
21	TKP8E1469	DOOR LID	
22	TBM8E2132	MODEL LABEL	
23	TBX8E090	POWER BUTTON	
INSTRUCTION BOOKS			
	TQB8E3224A	GERMAN	
	TQB8E3224C	ITALIAN	
DIODES			
D709	MTZJT-778.2C	DIODE	

SCHEMATIC DIAGRAMS FOR MODELS TX-29AS10C/TX-29AS10C/B (EURO-4H CHASSIS)

IMPORTANT SAFETY NOTICE

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

NOTES

1. RESISTOR
All resistors are carbon 1/4W resistor, unless marked otherwise.
Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)
2. CAPACITORS
All capacitors are ceramic 50V unless marked otherwise.
Unit of capacitance is μ F unless otherwise stated.
3. COIL
Unit of inductance is μ H, unless otherwise stated.
4. Components marked "L" on the schematic diagram shows leadless parts.
5. TEST POINT



Test Point Position

6. EARTH SYMBOL
 Chassis Earth (Cold)  Line Earth (Hot)
7. VOLTAGE MEASUREMENT
Voltage is measured by a d.c. voltmeter.
Measurement conditions are as follows:
Power source a.c. 220V-240V, 50Hz
Receiving Signal Colour Bar signal (RF)
All customer controls Maximum position

8.  Indicates the Video signal path
 Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

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

ZEICHENERKLÄRUNG FÜR MODELL TX-29AS10C/TX-29AS10C/B (EURO-4H CHASSIS)

WICHTIGER SICHERHEITSHINWEIS

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

ANMERKUNG

1. WIDERSTÄNDE
Alle 1/4W Widerstände sind Kohlewiderstände, Abweichungen sind folgt gekennzeichnet.
Die Maßeinheit ist OHM (Ω) (k=1,000, M=1,000,000)
2. KONDENSATOREN
Alle Kondensatoren sind Keramikausführungen. Spannungsfestigkeit 50V. Abweichungen sind wie folgt gekennzeichnet. Die Maßeinheit ist μ F, wenn keine anderen Bezeichnungen genannt sind.
3. SPULEN
Die Maßeinheit ist μ H, Abweichungen sind gekennzeichnet.
4. Mit "L" gekennzeichnete Teile sind ohne Anschlußdrähte.
5. TESTPUNKTE



Kennzeichnung der Testpunktposition

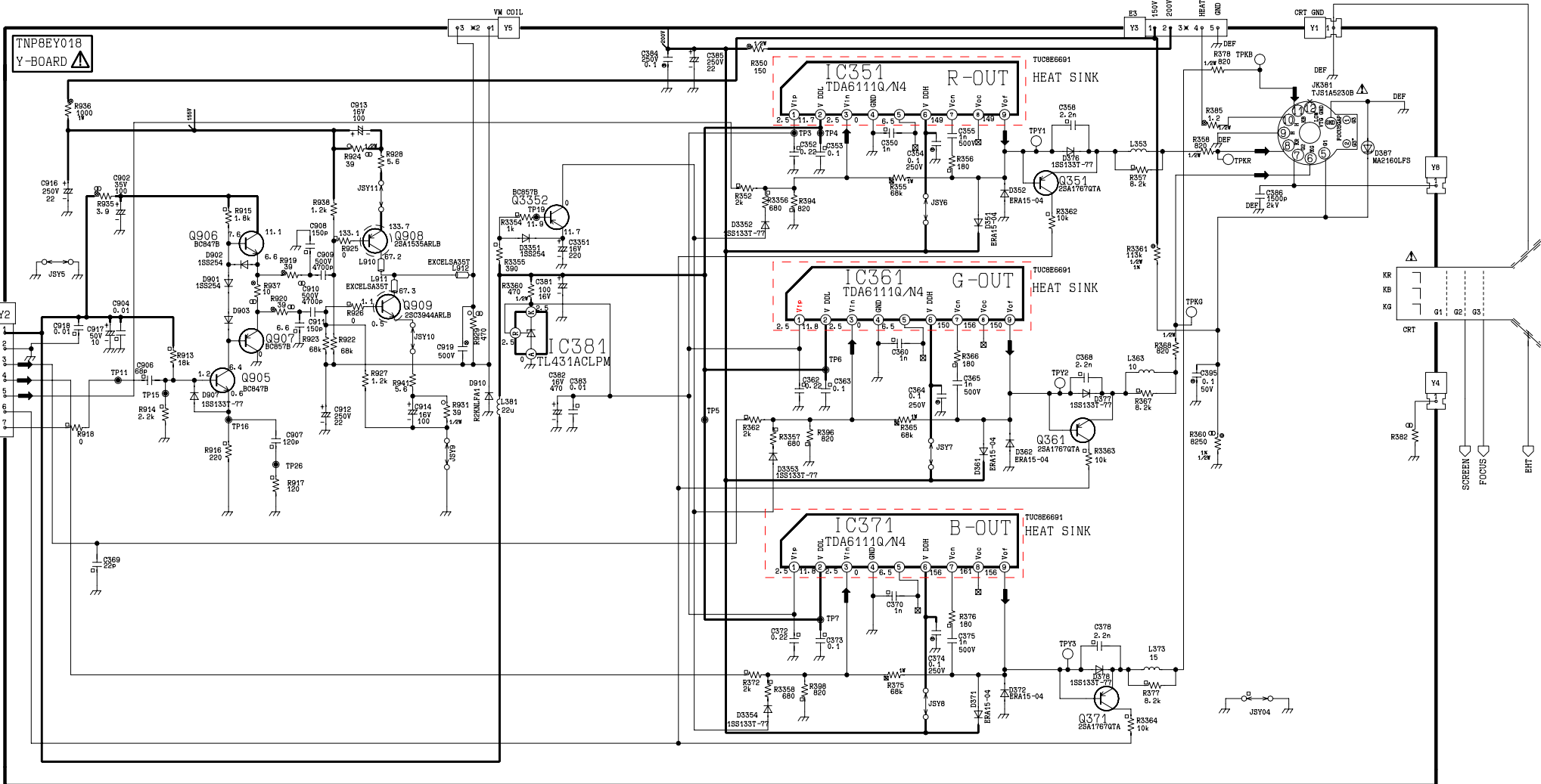
6. MASSE SYMBOL
 Erdung am Chassis  Erdung an Masse-Leitung
7. SPANNUNGSMESSUNG
Spannungsmessungen sind mit einem d.c.-Voltmeter durchzuführen. Die Meßbedingungen sind folgende:
Netzspannung a.c. 220V-240V, 50Hz
Wiedergabe Signal Farbbalken-Testbild
Wiedergabesignal Farbbalken-Testbild (HF)

8.  Videosignalweg
 Audiosignalweg

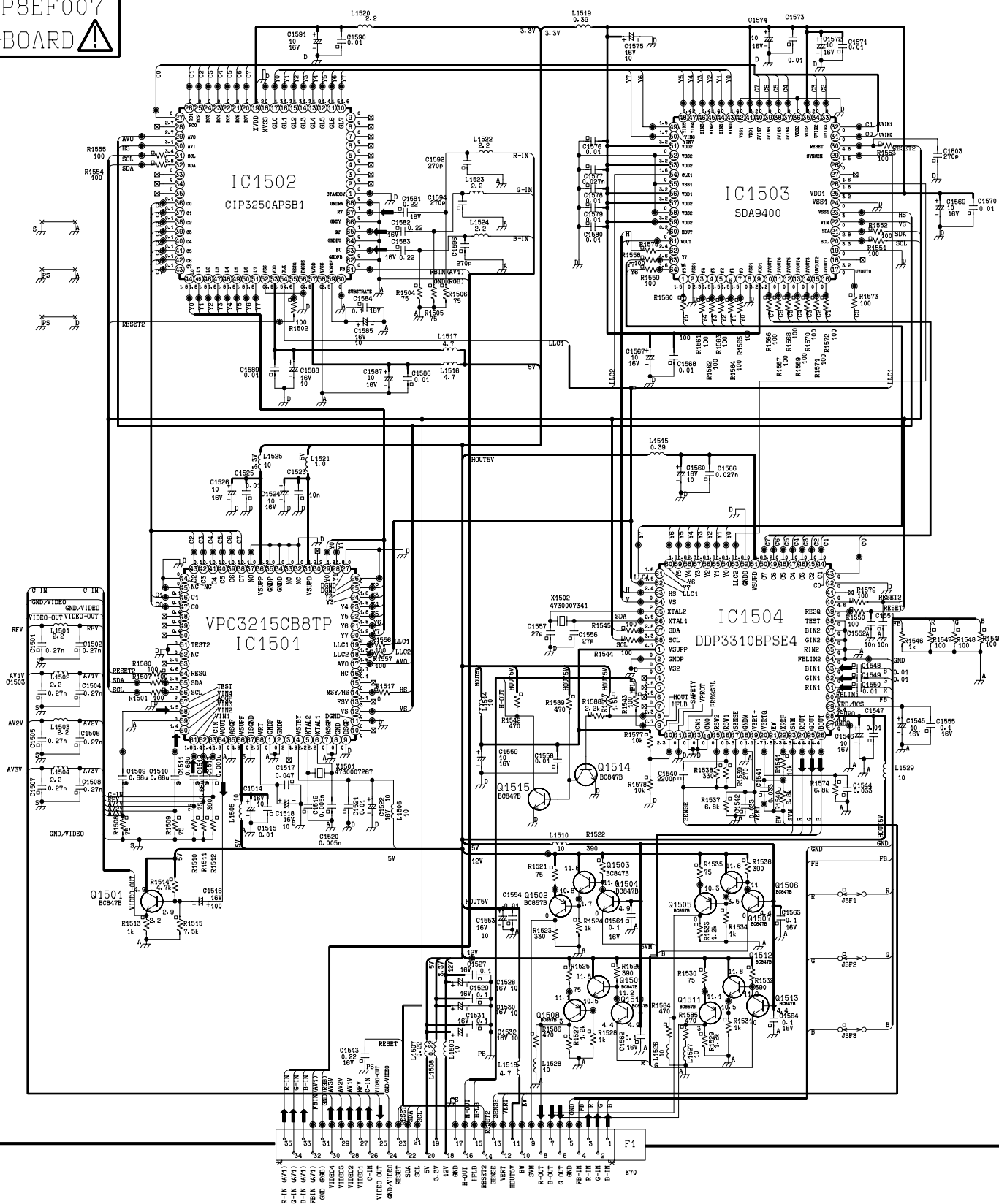
Änderungen im Laufe der Fertigung sind möglich.

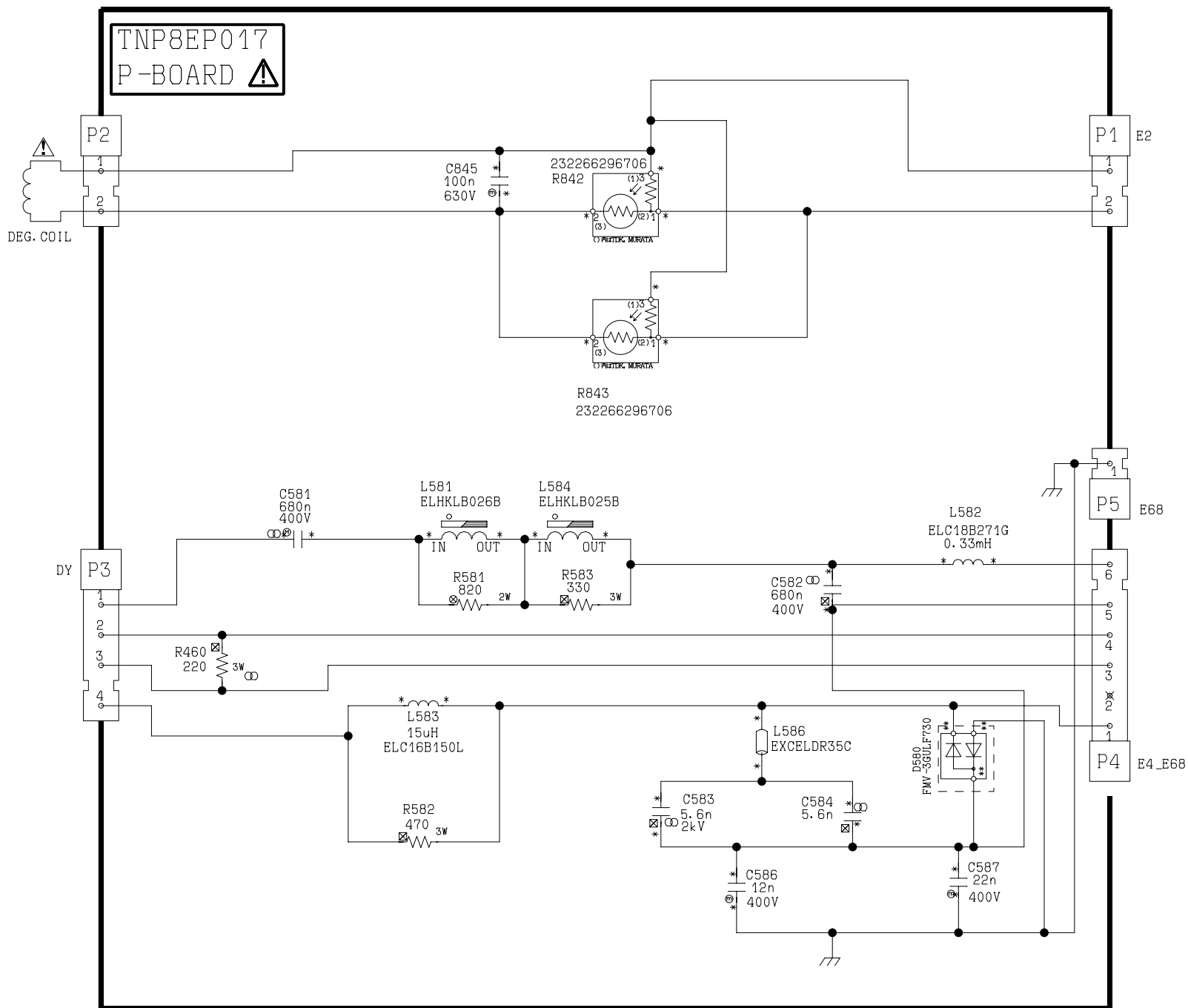
BEMERKUNGEN

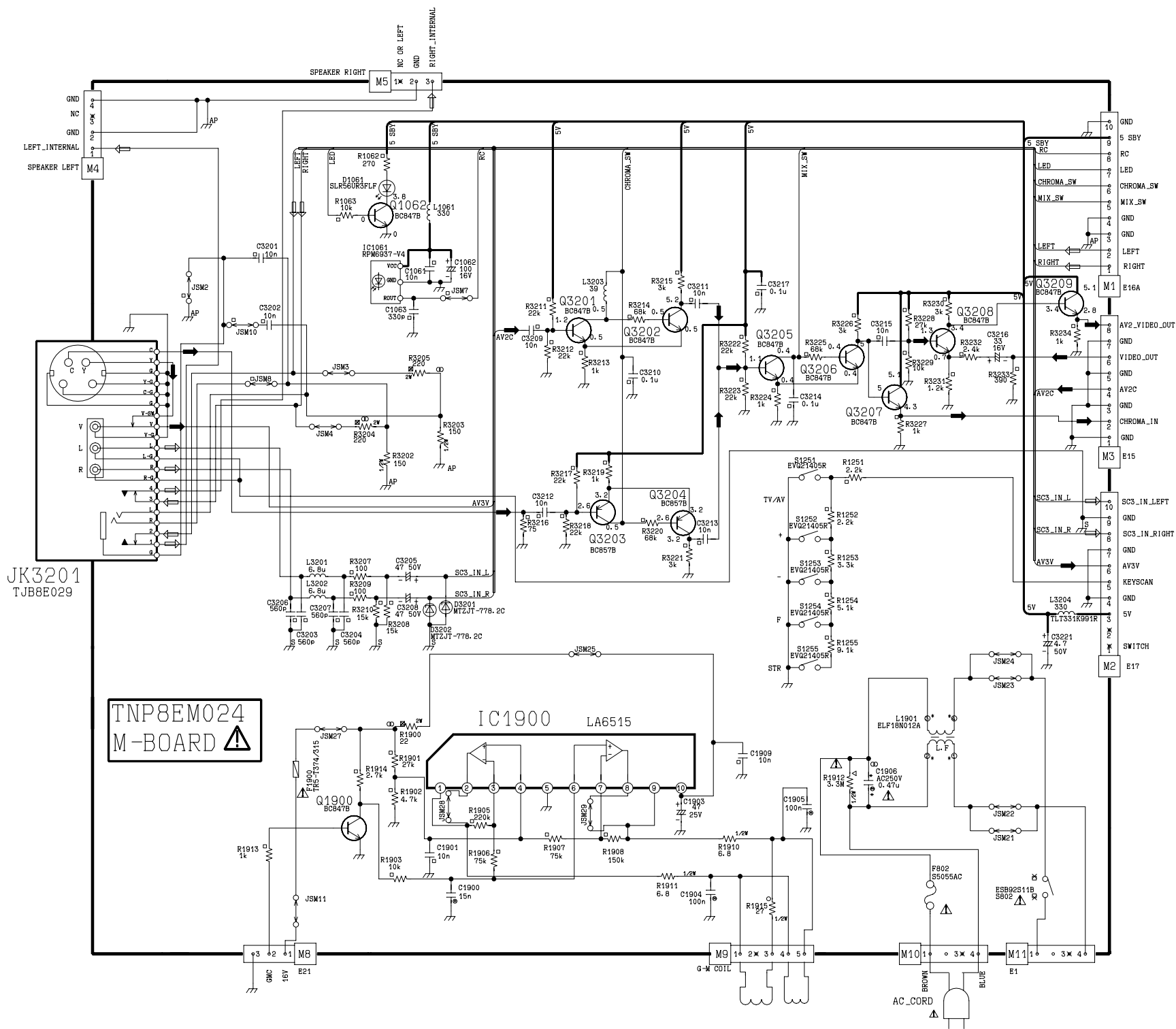
1. Das Schaltnetzteil enthält Bereiche, die direkt mit dem Netz verbunden sind. Diese Bereiche sind im Schaltplan mit HOT gekennzeichnet. Alle anderen Schaltungen sind mit COLD gekennzeichnet und haben keine direkte Verbindung mit dem Netz :-
a. Weder die Leitungen im heißen noch Leitungen im heißen und im kalten Bereich gleichzeitig berühren. Es besteht die Gefahr eines elektrischen Schläges.
b. Keinesfalls die Leitungen im heißen Bereich mit denen im kalten Bereich verbinden oder kurzschliessen. Dies kann zur Zerstörung von Bauteilen oder Sicherungen führen. Außerdem ist die elektrische Betriebssicherheit des Gerätes nicht mehr gegeben.
c. Keine Messinstrumente gleichzeitig an Leitungen im heißen und kalten Bereich anschliessen. Sicherungen könnten zerstört werden. Die Erde des Messinstrumentes immer mit der des zu prüfenden Schaltkreises verbinden.
d. Vor Ausbau des Chassis, Stecker aus der Netzsteckdose ziehen.



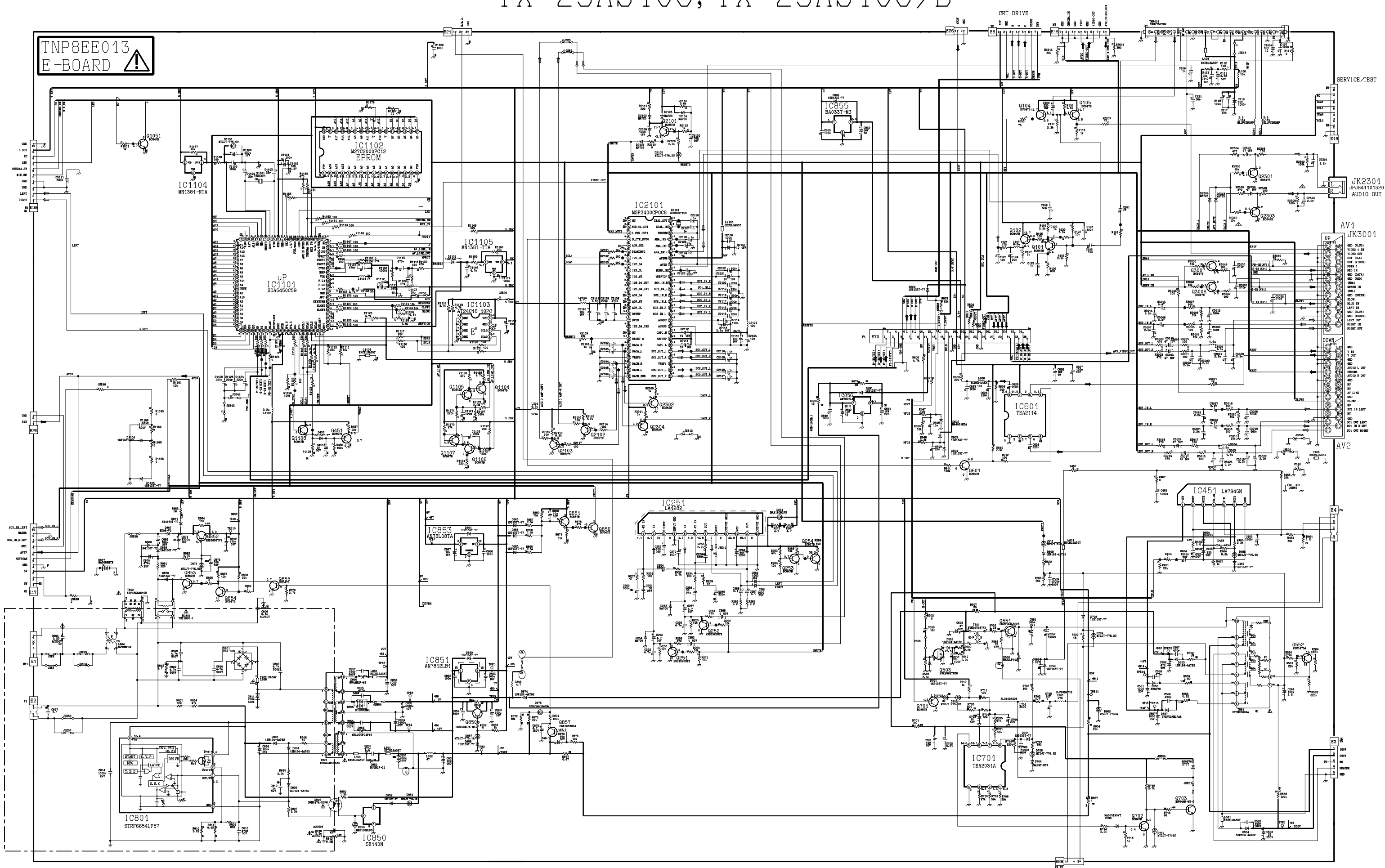
F-BOARD 







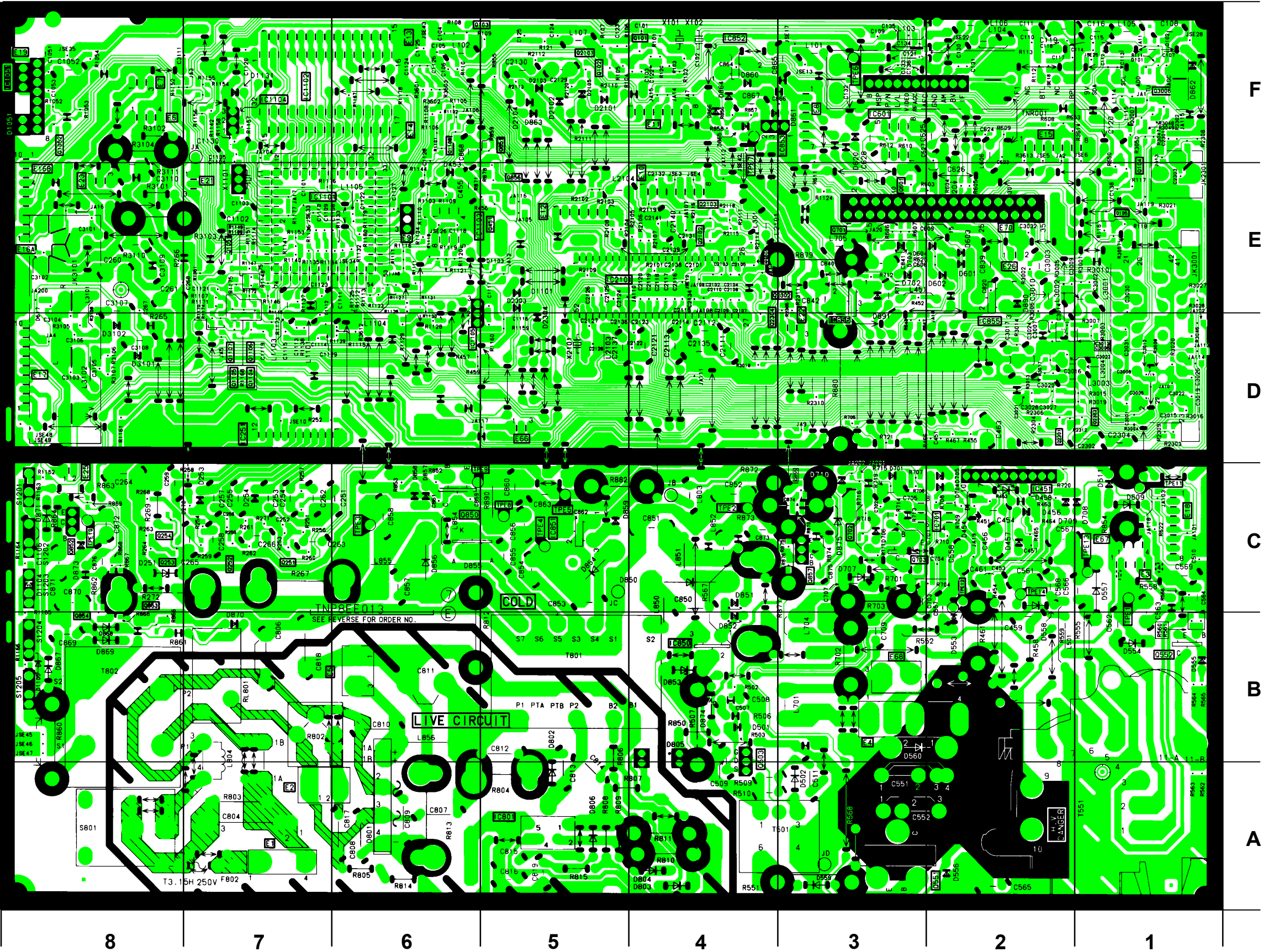
TX-29AS10C, TX-29AS10C/B



CONDUCTOR VIEWS FOR MODEL TX-29AS10C, TX-29AS10C/B
ANSICHT DER LEITERBAHNEN FÜR TX-29AS10C, TX-29AS10C/B

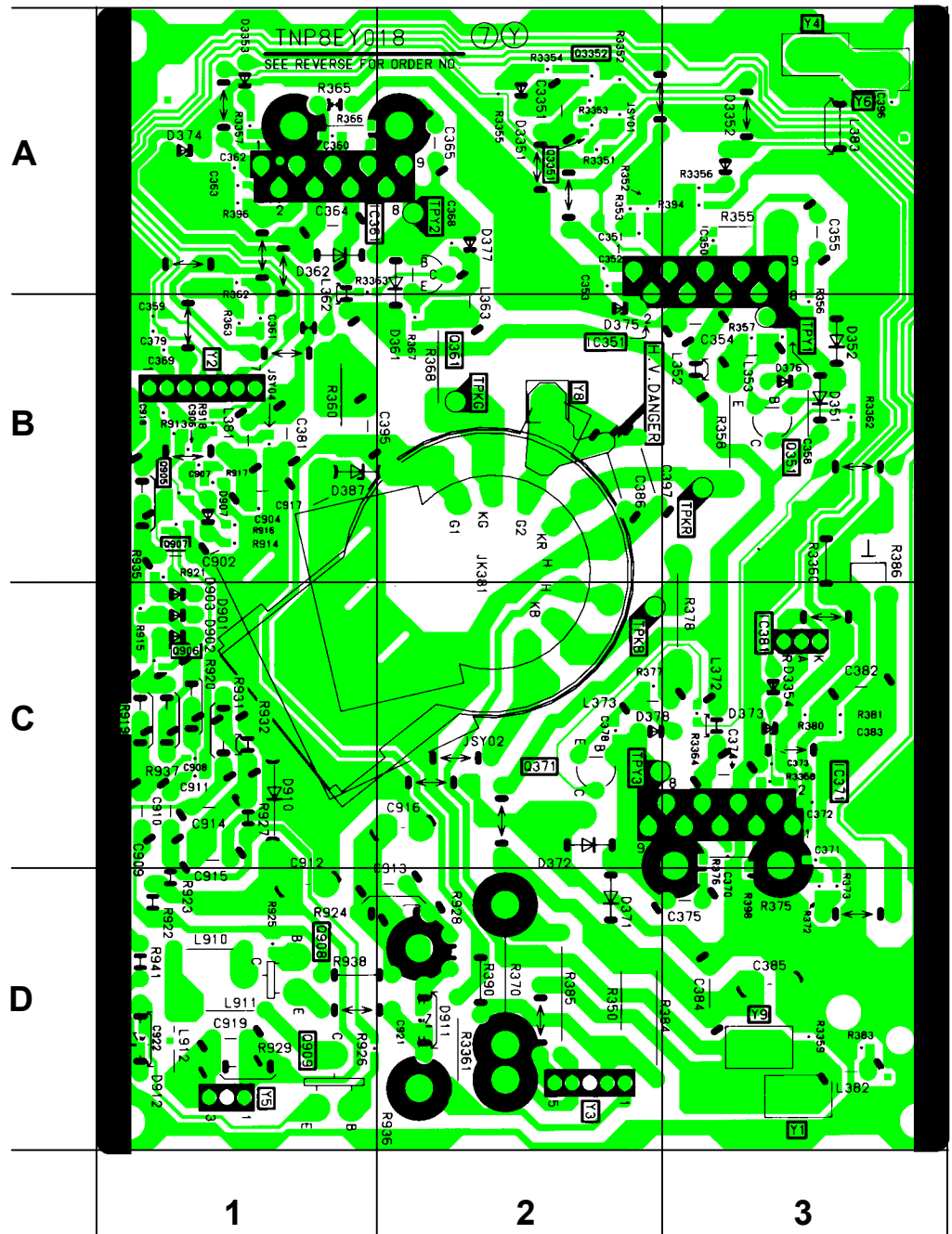
E-BOARD TNP8EE013

TRAN'S		D2303	D5	D859	C4
Q101	F4	D2304	D5	D861	F3
Q102	F5	D251	C7	D862	F1
Q104	E1	D253	C7	D863	F5
Q105	E1	D254	C7	D865	F4
Q1051	E7	D453	E6	D866	F4
Q1104	D7	D454	C2	D867	B8
Q1105	D7	D456	C2	D868	B8
Q1106	D7	D457	C2	D869	B8
Q1107	D7	D458	C2	D870	B7
Q1108	F6	D501	B4	D871	C8
Q2101	F5	D502	A3	D873	C8
Q2102	E4	D511	C1	D874	B4
Q2103	D2	D553	B2	D875	C3
Q2302	E3	D554	B1	D890	E2
Q2303	D1	D556	A2	D891	E3
Q2304	D4	D557	C1		
Q251	C7	D558	C2		
Q252	C7	D560	B2	IC'S	
Q253	C8	D561	B1	IC1101	E6
Q254	C8	D562	C1	IC1102	F6
Q3006	F1	D602	E2	IC1103	E6
Q3007	F1	D603	E2	IC1104	F7
Q451	E5	D604	E2	IC1105	D5
Q503	A4	D609	C1	IC2101	E4
Q551	A3	D617	D8	IC251	D7
Q552	B1	D620	F3	IC451	C2
Q601	E3	D701	C3	IC601	F3
Q701	E3	D702	E3	IC701	C2
Q702	C3	D703	E3	IC801	A4
Q703	C3	D704	C2	IC850	B4
Q850	C5	D705	C2	IC851	C5
Q851	F5	D706	C3	IC853	F3
Q852	C8	D707	C3	IC855	E2
Q853	B8	D708	C1	IC856	E3
Q854	B8	D709	C2		
Q855	C3	D710	C3	TP'S	
Q856	E5	D801	A6	TPE1	C1
Q857	C3	D803	A4	TPE2	C4
		D804	A4	TPE3	C6
		D805	B4	TPE4	C5
DIODES		D806	A4	TPE5	C5
D1101	F1	D850	C4	TPE6	F3
D1104	C8	D851	C4	TPE7	F4
D1105	B8	D852	B4	TPE8	C5
D1131	F7	D853	B4	TPE9	C6
D2101	F5	D854	C5	TPE10	C8
D2102	F5	D855	C5	TPE11	C1
D2103	F5	D856	C6	TPE12	C2
D2104	F5	D857	C6	TPE13	C1
D2105	F5	D858	C6	TPE14	C2



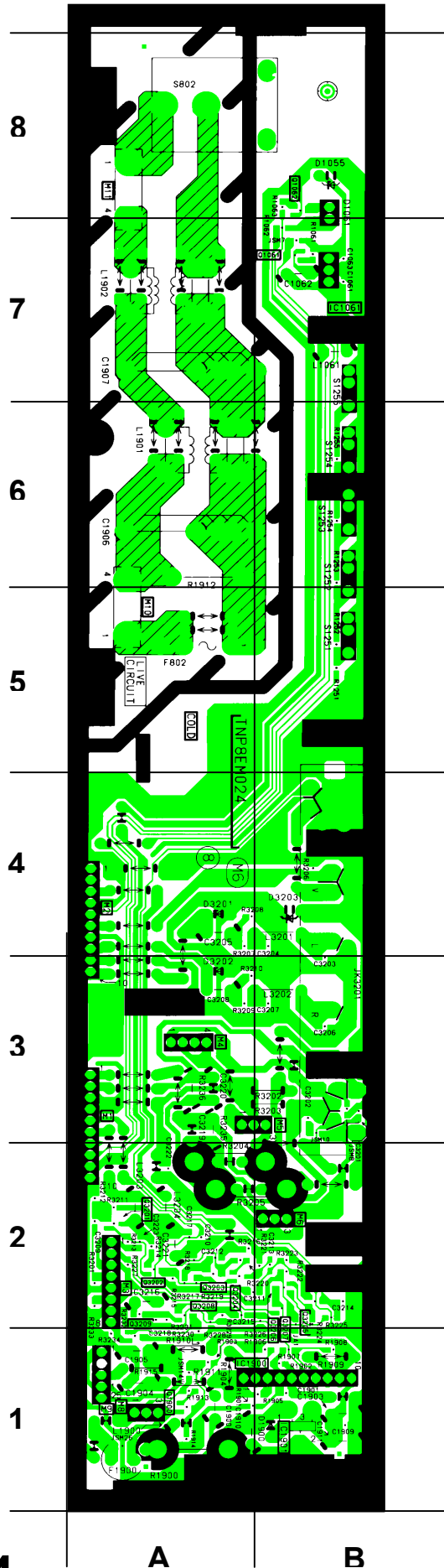
Y - BOARD TNP8EY018

TRAN'S	
Q3352	A2
Q351	B3
Q361	B2
Q371	C2
Q905	B1
Q906	C1
Q907	B1
Q908	D1
Q909	D1
DIODES	
D3351	A2
D3352	A3
D3353	A1
D3354	C3
D351	B3
D352	B3
D361	B2
D362	A1
D371	D2
D372	C2
D376	B3
D377	A2
D378	C2
D387	B1
D901	C1
D902	C1
D903	C1
D907	B1
D910	C1
I.C.'S	
IC351	A3
IC361	A1
IC371	C3
IC381	C3
T.P.'S	
TPY1	B3
TPY2	A2
TPY3	C3
TPKR	B3
TPKG	B2
TPKB	C2



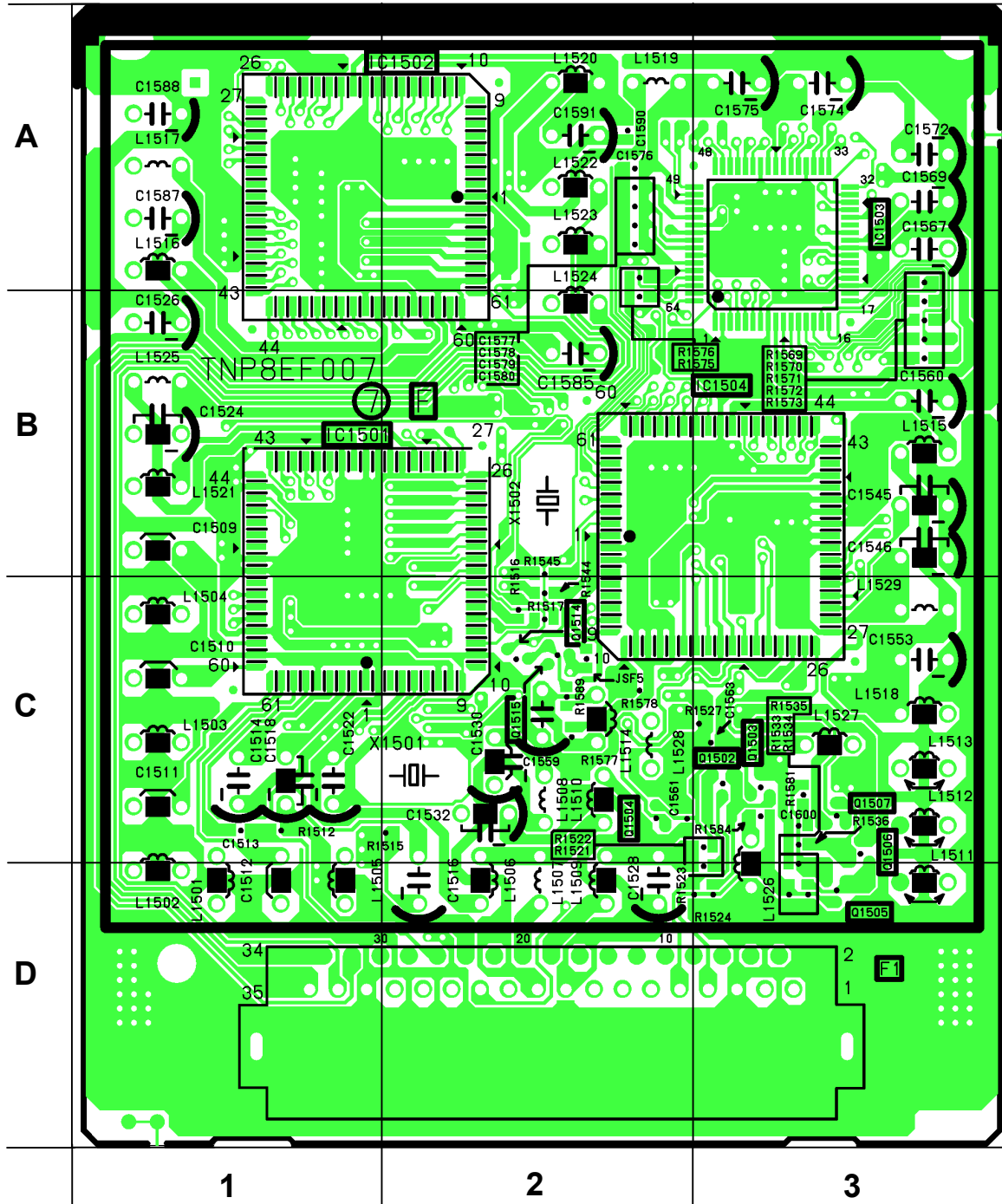
M - BOARD TNP8EM024

TRAN'S	
Q1062	B8
Q1900	A1
Q3201	A2
Q3202	A2
Q3203	A2
Q3204	A2
Q3205	B2
Q3206	B2
Q3207	B2
Q3208	A2
Q3209	A2
DIODES	
D1061	B8
D3201	A4
D3202	A3
I.C.'S	
IC1061	B7
IC1900	B1



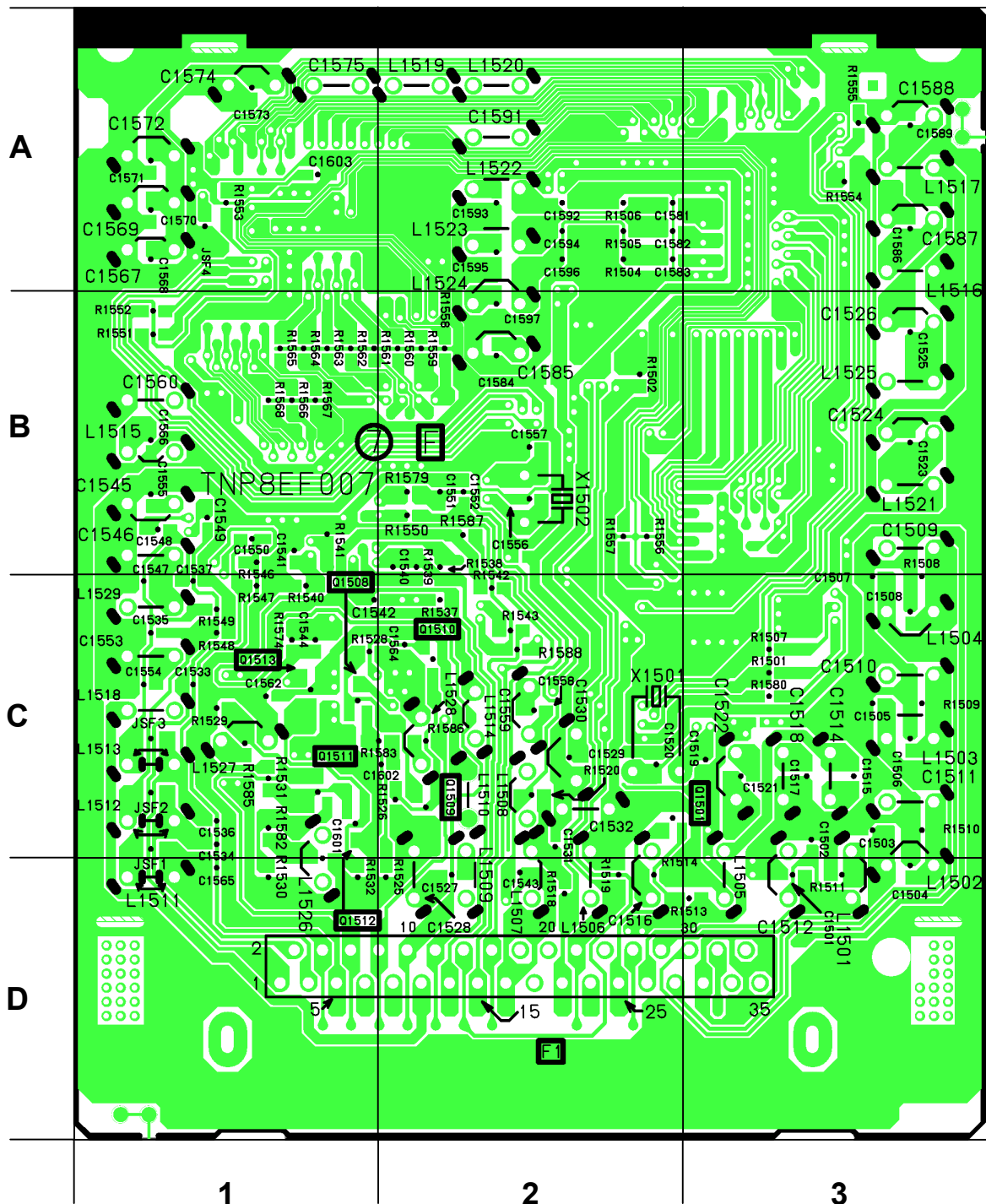
F - BOARD TNP8EF007

TRAN'S		I.C.'S	
Q1502	C3	IC1501	B1
Q1503	C3	IC1502	A2
Q1504	C2	IC1503	A3
Q1505	D3	IC1504	B3
Q1506	C3		
Q1507	C3		
Q1514	C2		
Q1515	C2		



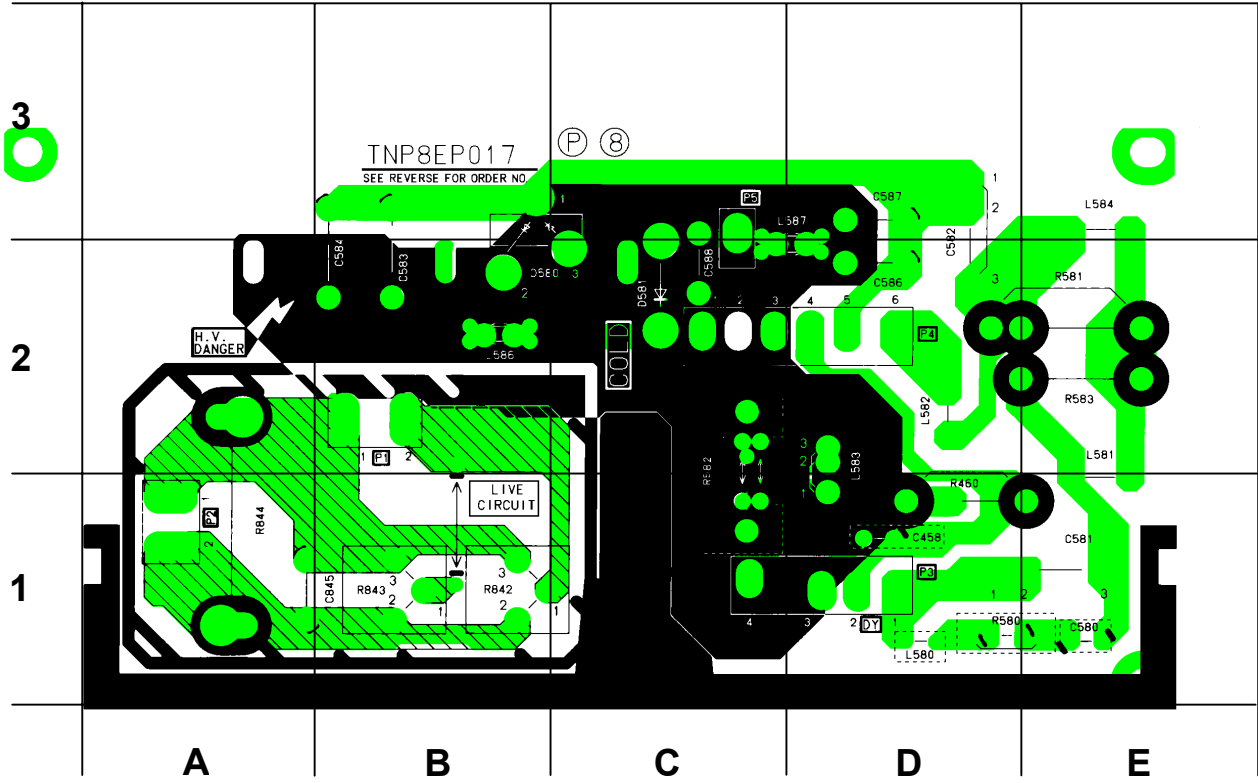
F - BOARD TNP8EF007

TRAN'S	
Q1501	C3
Q1508	C1
Q1509	C2
Q1510	C2
Q1511	C1
Q1512	D1
Q1513	C1



P - BOARD TNP8EP017

DIODES	
D580	B2



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