

Service Manual

Colour Television



TX-29PS1D
TX-29PS1F
TX-29PS1P
TX-29PS1P/B

EURO- 10 Chassis

SPECIFICATIONS

Power Source:	220-240V a.c., 50Hz
Power Consumption:	85W
Stand-by Power Consumption:	1,0W
Aerial Impedance:	75Ω unbalanced, Coaxial Type
Receiving System:	PAL-I, B/G, H, D/K, PAL-525/60 SECAM B/G, D/K, L/L' 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/Audio	
Video	38,9MHz, 33,9MHz
Sound	33,4MHz (B/G), 33,16MHz (A2) 33,05MHz (NICAM B/G,D/K,L) 32,4MHz (D/K), 32,66MHz (CZ STEREO) 40,4MHz (L'), 39,75MHz (L'NICAM)
Colour	34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM) 38,3MHz, 38,15MHz (SECAM L')
Terminals:	
AUDIO MONITOR OUT	Audio (RCAX2) 500mV rms 1kΩ
AV1 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin) 0,7V p-p 75Ω

AV1 OUT	Video (21 pin) Audio (21 pin)	1V p-p 75Ω 500mV rms 1kΩ
AV2 IN	Video (21 pin) Audio (21 pin) S-Video IN (21-pin)	1V p-p 75Ω 500mV rms 10kΩ Y: 1V p-p 75Ω C:0,3V p-p 75Ω
AV2 OUT	Video (21 pin) Audio (21 pin)	1V p-p 75Ω 500mV rms 1kΩ
AV3 IN	S-Video IN (4-pin) Audio (RCAX2) Video (RCAX1)	Y: 1V p-p 75Ω C:0,3V p-p 75Ω 500mV rms 10kΩ 1V p-p 75Ω
High Voltage:	30,5kV ± 1kV	
Picture Tube:	A68ELO50X21	68cm
Audio Output:	2 x 7W RMS, 2 x 15W MPO	
Headphones:	8Ω Impedance 8Ω Impedance	
Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries	
Dimensions:	Height: Width: Depth:	582mm 776mm 516mm
Net weight:	47kg	

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

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SAFETY PRECAUTION

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 that 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.

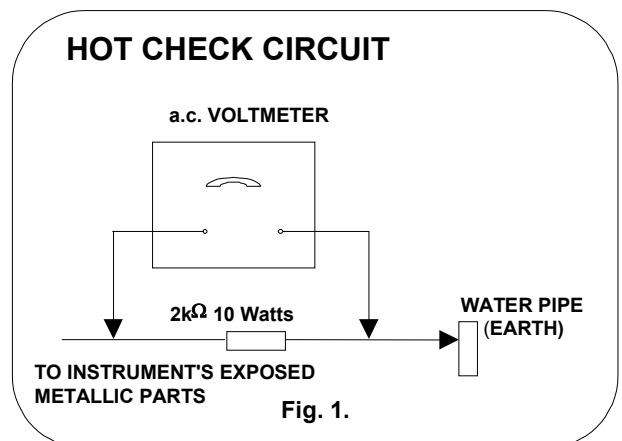
LEAKAGE CURRENT COLD CHECK

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.

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 previous 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 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.

SERVICE HINTS

How to remove the rear cover

1. Remove the 10 screws as shown in Fig.2.



Fig. 2

LOCATION OF CONTROLS

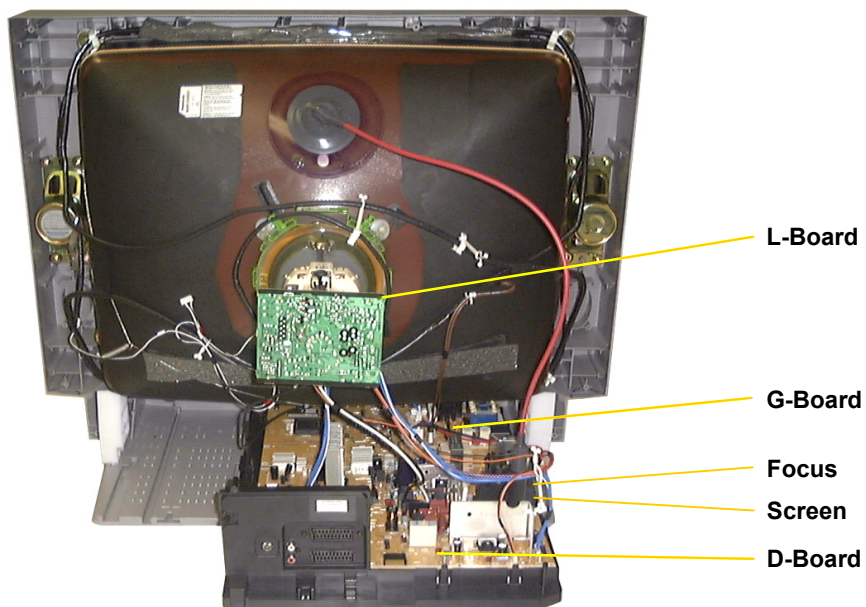


Fig. 3

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove the bead clumper from the mains lead.
2. Hold and lift the rear of the chassis and gently pull the chassis towards you, as shown in **Fig.4.**
3. Release the respective wiring clips and rotate the chassis horizontally through 90° anti-clockwise.
4. Locate the chassis to position **Fig .5.** :
5. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

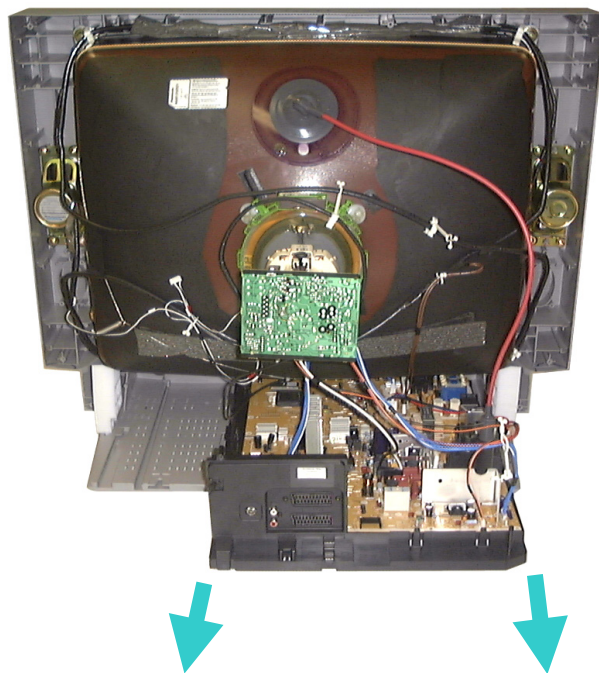


Fig.4 .

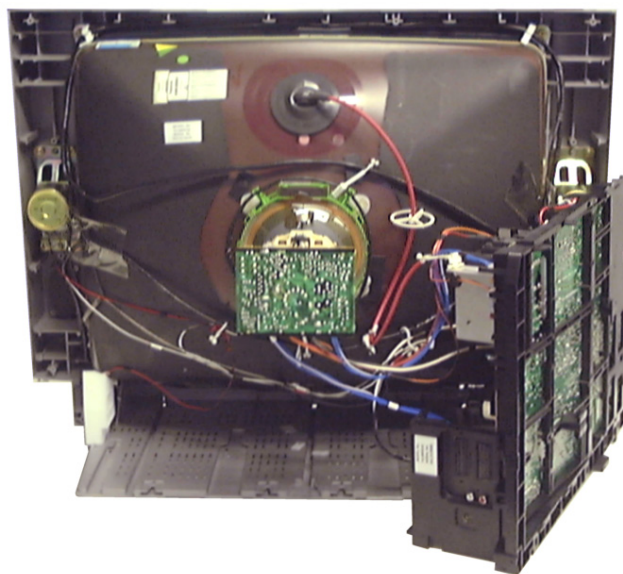


Fig. 5.

ADJUSTMENT PROCEDURE

Item / Preparation	Adjustments																																																																								
+B SET-UP 1. Receive a Greyscale signal. 2. Set the controls : Brightness Minimum Contrast Minimum Volume Minimum	Confirm the following voltages. <table><tr><td>TPD1</td><td>220</td><td>±</td><td>10V</td><td>TPD11</td><td>3,3</td><td>±</td><td>0,2V</td></tr><tr><td>TPD2</td><td>137</td><td>±</td><td>1,5V</td><td>TPD12</td><td>5</td><td>±</td><td>0,25V</td></tr><tr><td>TPD3</td><td>26,5</td><td>±</td><td>1,5V</td><td>TPD13</td><td>31</td><td>±</td><td>1,5V</td></tr><tr><td>TPD4</td><td>5</td><td>±</td><td>0,25V</td><td>TPD14</td><td>26</td><td>±</td><td>1V</td></tr><tr><td>TPD5</td><td>38</td><td>±</td><td>1,5V</td><td>TPD15</td><td>-13,5</td><td>±</td><td>1V</td></tr><tr><td>TPD6</td><td>6,4</td><td>±</td><td>0,5V</td><td>TPD16</td><td>13,5</td><td>±</td><td>1V</td></tr><tr><td>TPD7</td><td>13,6</td><td>±</td><td>0,5V</td><td>TPG1</td><td>2,5</td><td>±</td><td>0,2V</td></tr><tr><td>TPD9</td><td>8</td><td>±</td><td>0,5V</td><td>TPG2</td><td>3,3</td><td>±</td><td>0,2V</td></tr><tr><td>TPD10</td><td>12</td><td>±</td><td>0,5V</td><td></td><td></td><td></td><td></td></tr></table>	TPD1	220	±	10V	TPD11	3,3	±	0,2V	TPD2	137	±	1,5V	TPD12	5	±	0,25V	TPD3	26,5	±	1,5V	TPD13	31	±	1,5V	TPD4	5	±	0,25V	TPD14	26	±	1V	TPD5	38	±	1,5V	TPD15	-13,5	±	1V	TPD6	6,4	±	0,5V	TPD16	13,5	±	1V	TPD7	13,6	±	0,5V	TPG1	2,5	±	0,2V	TPD9	8	±	0,5V	TPG2	3,3	±	0,2V	TPD10	12	±	0,5V				
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CUT OFF / Ug2 Test 1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cut off mode.	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 +5V/-0V press “ TV/AV ” to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows “O.K.”																																																																								

SELF CHECK

Self-check is used to automatically check the bus lines and hexadecimal code of the TV set. To enter Self-Check mode, press the **STATUS**  button on the remote control and at the same time press the down (**-v**) button on the customer controls at the front the TV set. To exit Self Check, switch off the TV set at the power button.

VDP	O.K.	PCB	O.K.
TUN	O.K.	CAB	O.K.
E2	O.K.	SUM	****
MSP	O.K.		
Avs	O.K.		
DPL	---		
MAS	---		
	TX-29PS1D	TX-29PS1F	TX-29PS1P TX-29PS1P/B
OPTION 1	B9	B9	B9
OPTION 2	3C	3C	3C
OPTION 3	0F	0F	0F
OPTION 4	40	48	40
OPTION 5	FF	FD	FD
OPTION 6	E1	E1	E1

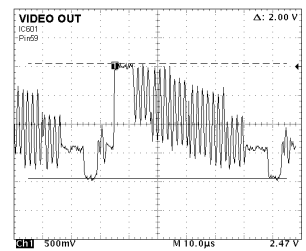
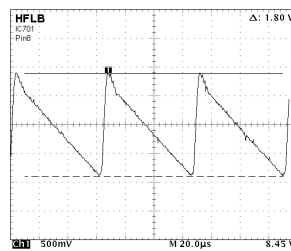
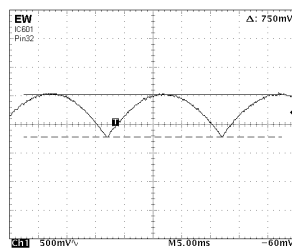
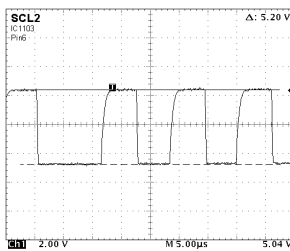
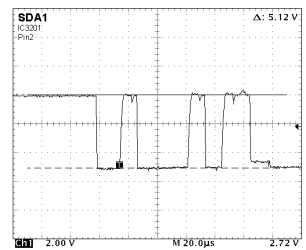
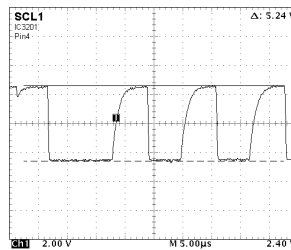
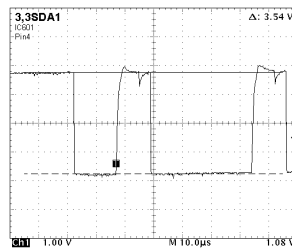
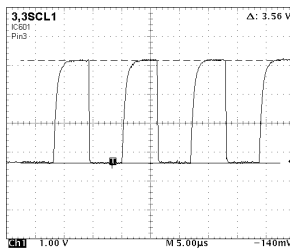
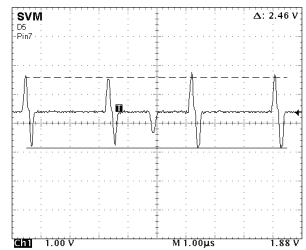
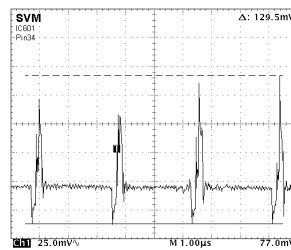
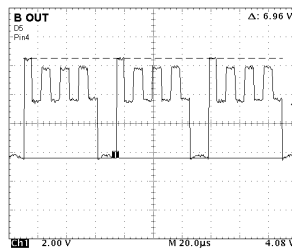
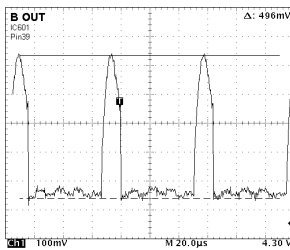
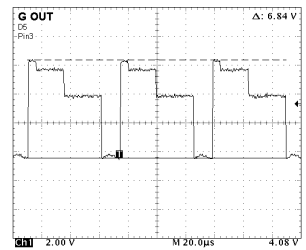
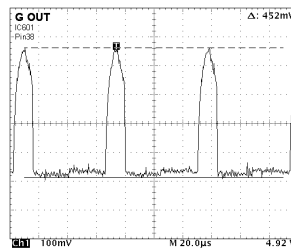
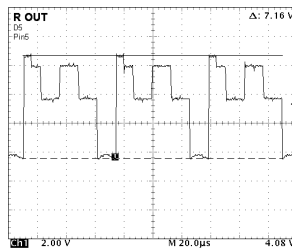
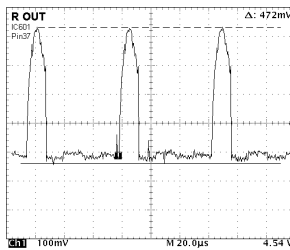
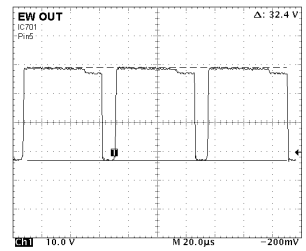
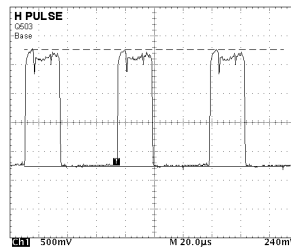
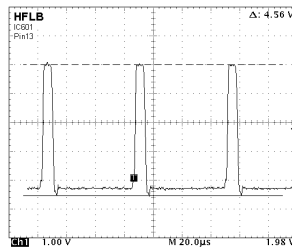
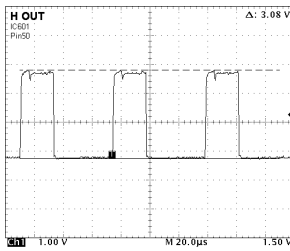
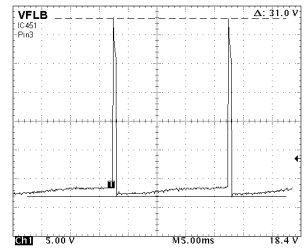
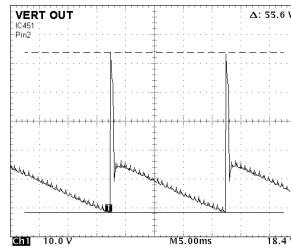
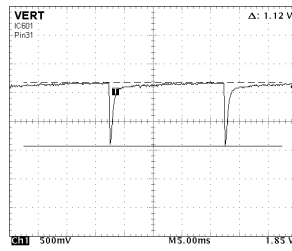
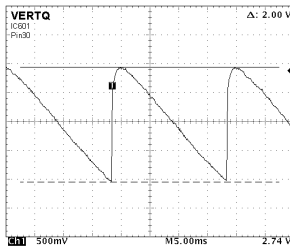
If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.".

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 **U**tility **C**omputer 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 **A**dvanced **S**ystem for **M**ultimedia Interactive **N**otes)
As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

WAVEFORM PATTERN TABLE

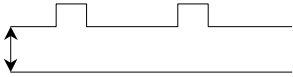


CONDITIONS: CONTRAST...MAX, BRIGHTNESS...MID, COLOUR...MID, SHARPNESS...MID

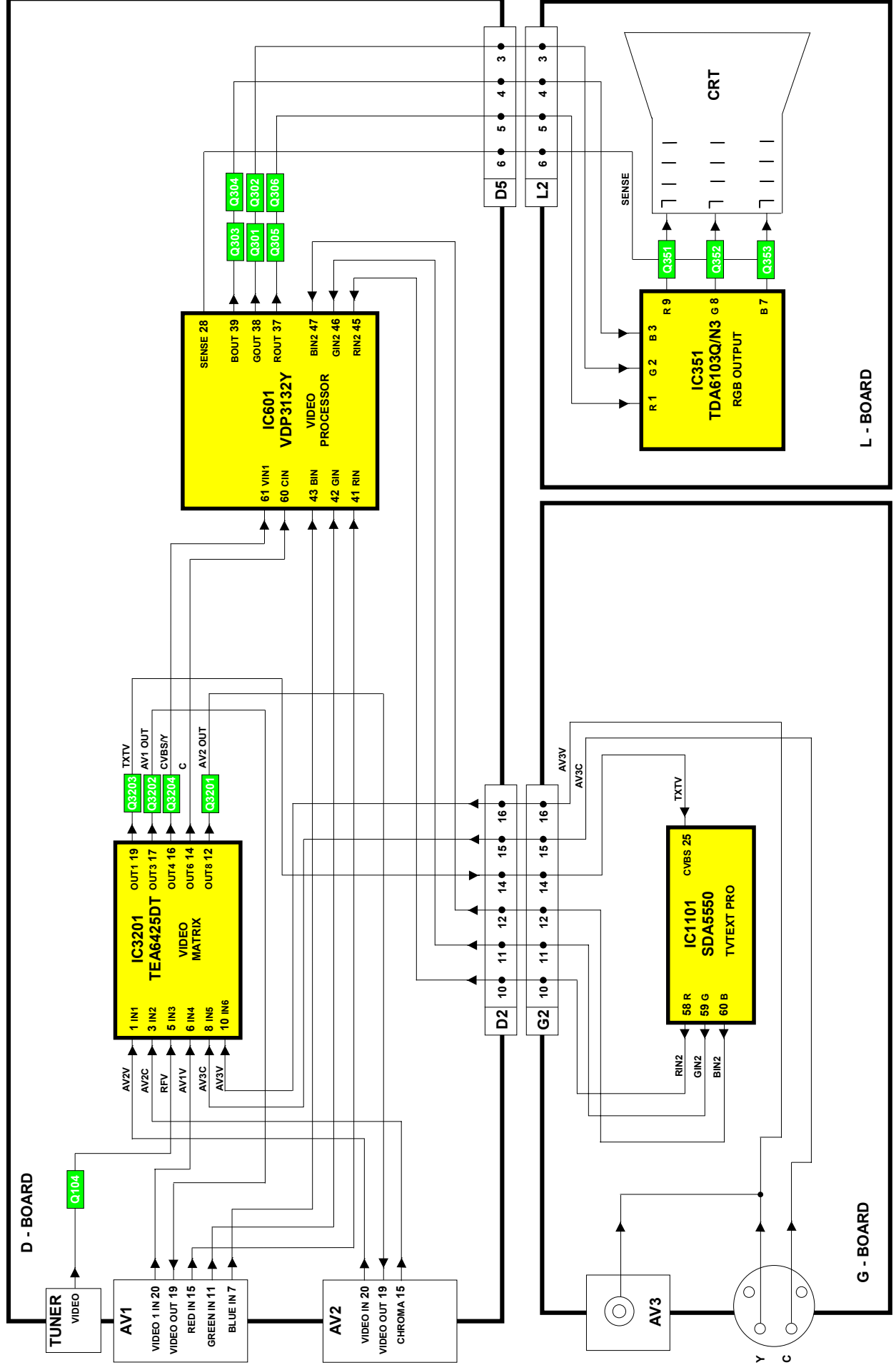
ALIGNMENT SETTINGS

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

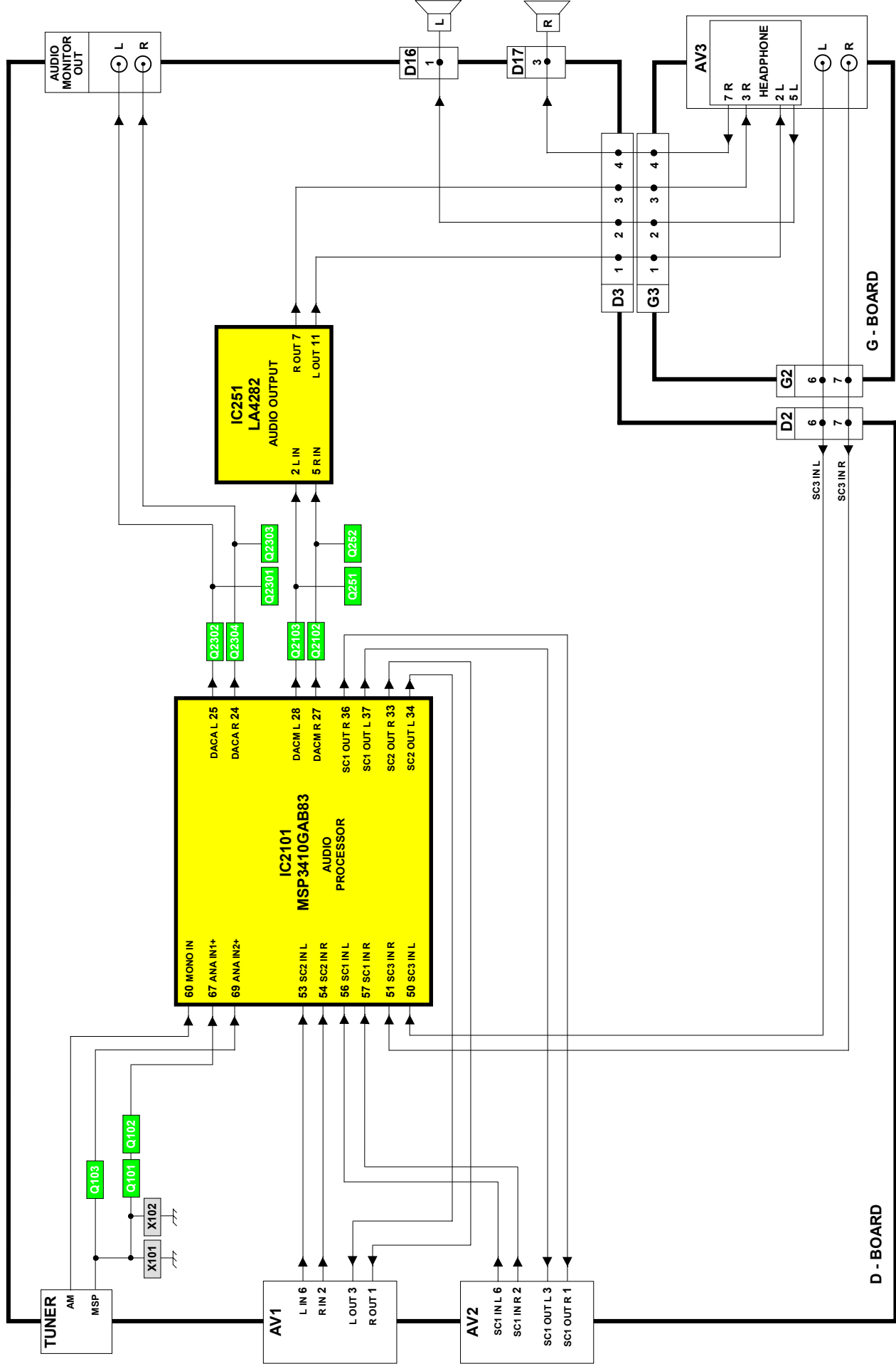
1. Set the Bass to maximum position, set the Treble to minimum position, set the Volume to minimum then press the down button (-V) on the customer controls at the front of the TV and at the same time press the **INDEX** button on the remote control, this will place the TV into the Service Mode 1.
2. 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 **TV/AV** 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 021	Optimum setting.
Vertical Position	V-Pos - 005	Optimum setting.
Horizontal Amplitude	H-Amp - 011	Optimum setting.
Vert. Amplitude	V-Amp 061	Optimum setting.
EW-amplitude	EW-Amp 1 - 057	Optimum setting.
EW-amplitude	EW-Amp 2 008	Optimum setting.
Trapezium-comp	Trapez 1 - 006	Optimum setting.
Trapezium-comp	Trapez 2 - 004	Optimum setting.
Vertical Linearity	V-Lin - 024	Optimum setting.
Vertical Symmetry	V-Sym 001	Optimum setting.
DVCO	DVCO 021	Receive a PAL Colour Bar Pattern. For DVCO alignment press " Blue " button, wait until the colours are changing slowly and press " TV/AV ".
Cut-off DC	Cut-off 0204	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 +5V/-0V, press "TV/AV" to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K." Black Level 160V+5V/-0V GND 
Ug2 Test	Ug2 130 O.K.	
Highlight Lowlight	High 0902 0777 0864 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 003	Optimum setting.

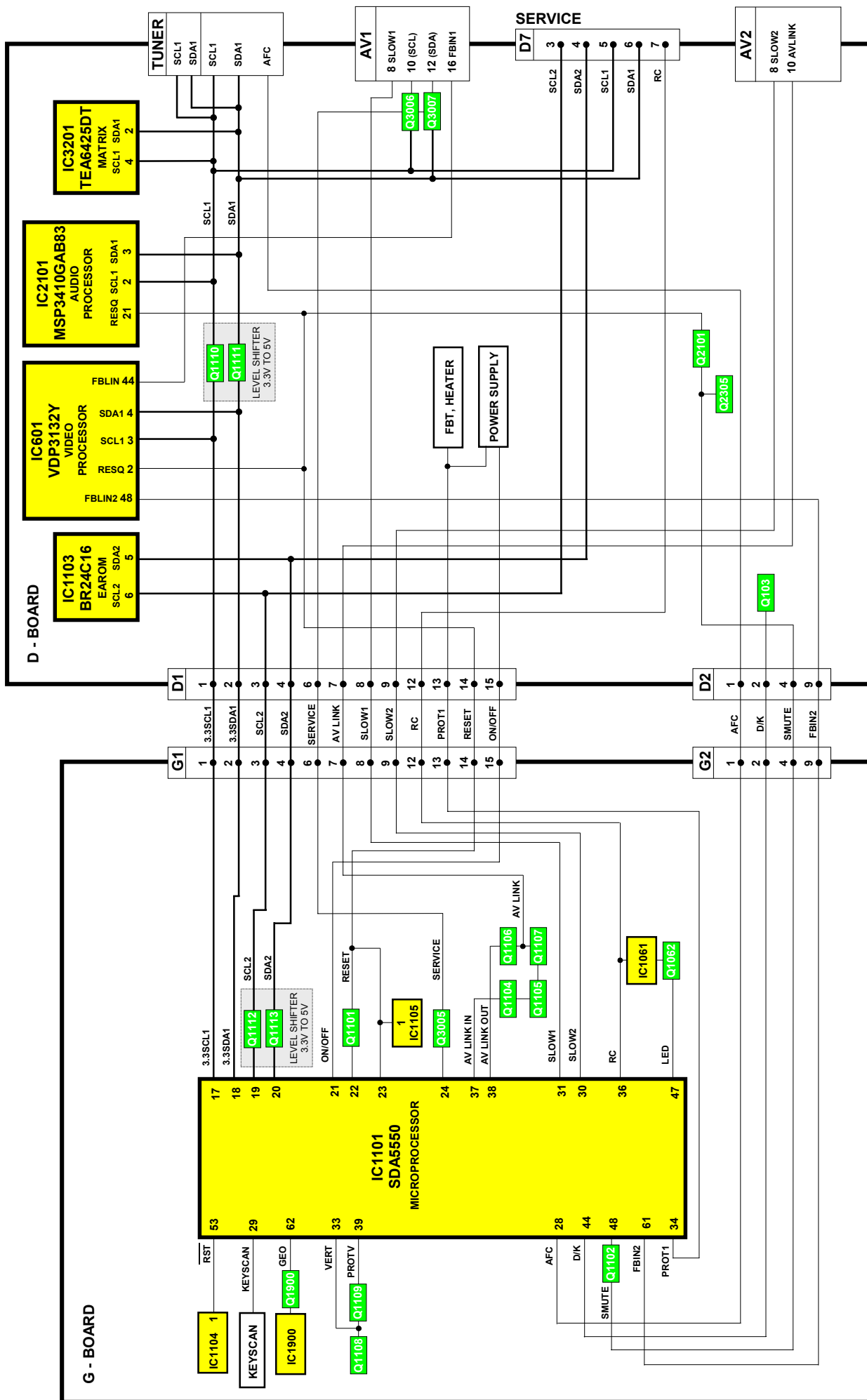
VIDEO BLOCK DIAGRAM



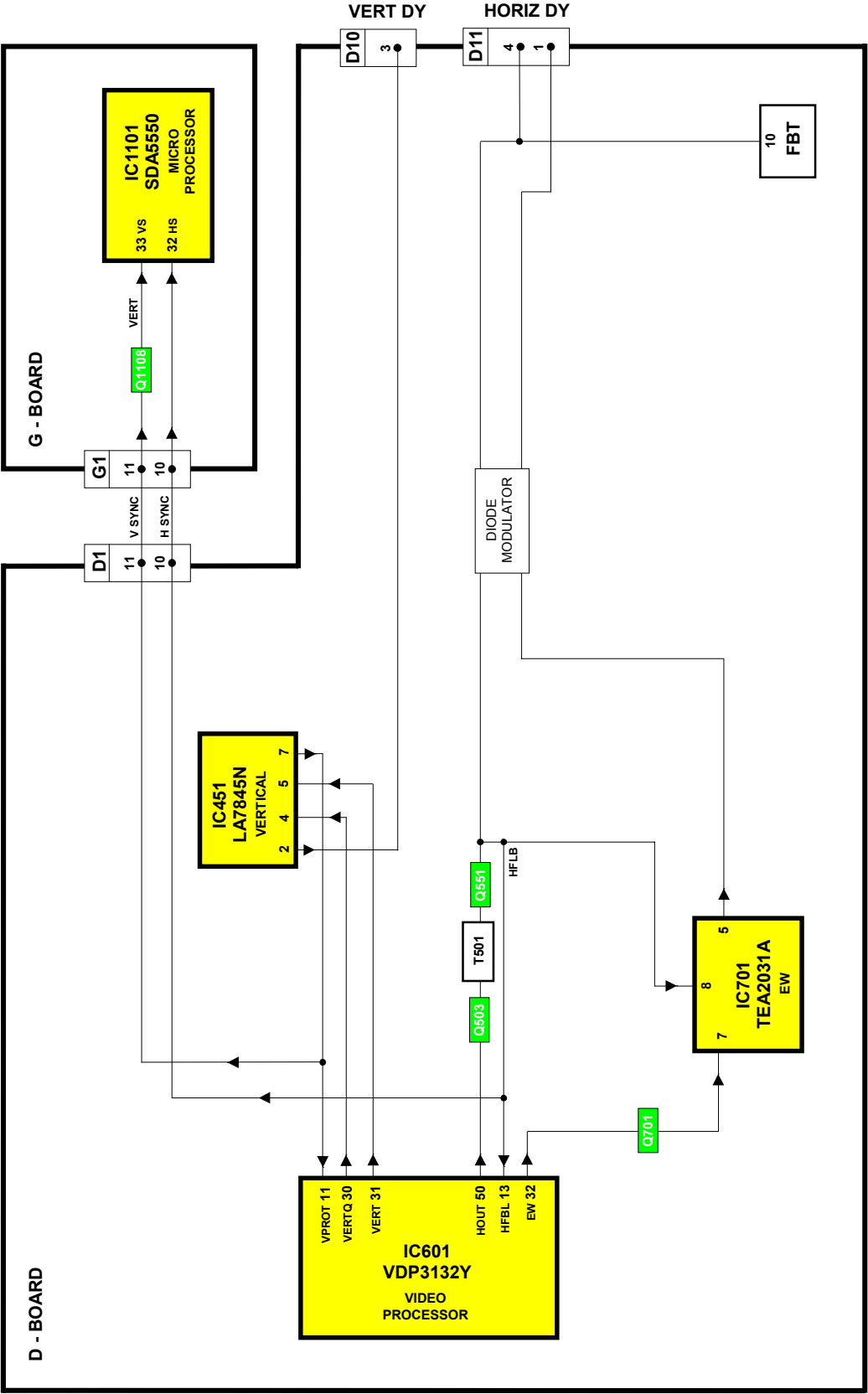
AUDIO BLOCK DIAGRAM



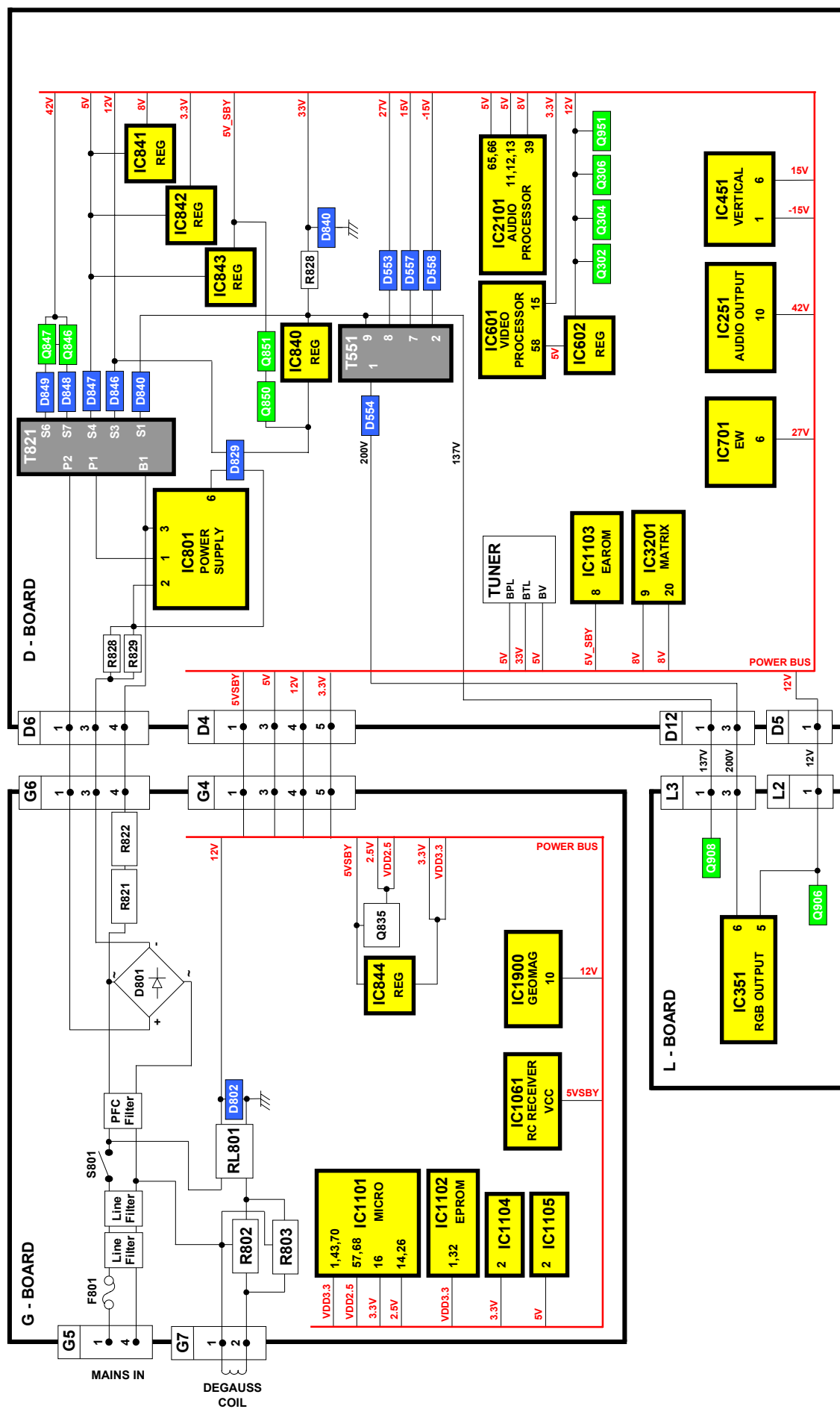
CONTROL BLOCK DIAGRAM



DEFLECTION BLOCK DIAGRAM



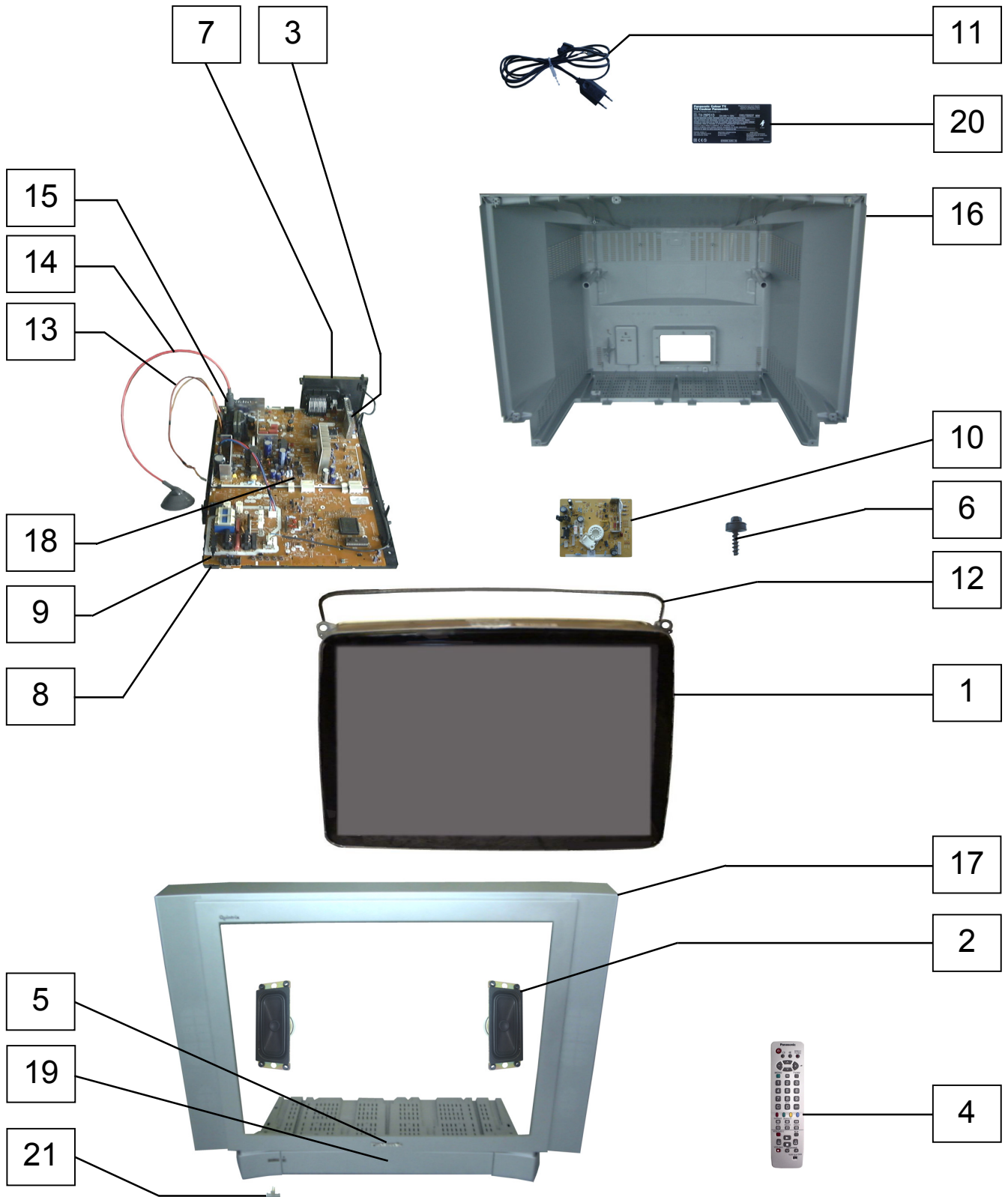
POWER SUPPLY BLOCK DIAGRAM



PARTS LOCATION

NOTE:

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



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	A68ELO50X21	CRT	
2	EASG12S500B2	SPEAKER	
3	ENG29519GF	TUNER	
4	EUR511320	REMOTE CONTROL	
5	TBMA060	PANASONIC BADGE	
6	THT1062	CRT FIXING SCREW	
7	TKP0E10801	REAR AV COVER	
8	TMX0E402	CHASSIS FRAME	
9	TNP0EG001AG	G P.C.B.	
10	TNP0EL001AD	L P.C.B.	
11	TXASX01DCNG	AC CORD	
12	TXFLK01DCRG	DEGAUSS COIL	
13	TXJ/FC0DCNG	FOCUS LEAD ASSY	
14	ZTBZAD550A	ANODE LEAD	
15	ZTFN65001A	F.B.T.	
MISCELLANEOUS COMPONENTS			
.	R6RC/2P	BATTERY	
.	TBLG3019	SET FOOT (FRONT)	
.	TBLG3020	SET FOOT (REAR)	
.	TBM0E0033	PRESET LABEL	
.	TBM0E0034	PRESET LABEL	
.	TEK6935	LID SWITCH	
.	TKK0E9507	CRT SUPPORT BRACKET R	
.	TKK0E9508	CRT SUPPORT BRACKET L	
.	TKP0E10701	IR WINDOW	
.	TMW8E050-2	LED HOLDER	
.	TPC0E41401	CARTON	
.	TPD0E0013	BOTTOM CUSHION	
.	TPD0E0014	TOP CUSHION	
IC1101S	DBCPLCC84	IC SOCKET	
I.C.s			
IC251	LA4282	AUDIO OUTPUT	
IC351	TDA6103Q/N3	R.G.B. OUTPUT	
IC451	LA7845N	VERTICAL OUTPUT	
IC601	VDP3132Y	VIDEO PROCESSOR	
IC602	AN78L05M-E1	VOLTAGE REGULATOR	
IC701	TEA2031A	E/W CORRECTION	
IC801	STRX6454LF02	POWER SUPPLY	
IC840	SE130N	ERROR AMPLIFIER	
IC841	AN78L08TA	8V REGULATOR	
IC842	BA033T	3.3V REGULATOR	
IC843	BA05T	REGULATOR	
IC844	BA033T	3.3V REGULATOR	

Cct Ref	Parts Number	Description	
IC1061	RPM-6937	LED RECEIVER	
IC1101	SDA5550	MICRO PROCESSOR	
IC1102	E10/SW105	EPROM M27W401-80B6	
IC1104	MN1381-J(TA)	RESET IC	
IC1105	MN1381-T(TA)	RESET	
IC1900	LA6515	EARTH CORRECTION	
IC2101	MSP3410GAB83	AUDIO PROCESSOR	
IC3201	TEA6425DT	VIDEO MATRIX	
FUSES			
F801-1	EYF52BC	FUSE HOLDER	
F801-2	EYF52BC	FUSE HOLDER	
F801	S5055AC	FUSE	
R846	TSF19632	FS LINK	
R847	TSF19252	FS LINK	
DIODES			
D101	MA3020TX	DIODE	
D102	MA3020TX	DIODE	
D253	MA700TA	DIODE	
D254	MA700TA	DIODE	
D255	MTZJT-772.0A	DIODE	
D354	1SR124-4AT82	DIODE	
D355	1SR124-4AT82	DIODE	
D356	1SR124-4AT82	DIODE	
D357	1SS133T-77	DIODE	
D358	1SS133T-77	DIODE	
D359	1SS133T-77	DIODE	
D360	MTZJT-7715A	DIODE	
D361	1SS133T-77	DIODE	
D362	1SS133T-77	DIODE	
D363	1SS133T-77	DIODE	
D364	1SS133T-77	DIODE	
D453	1SS133T-77	DIODE	
D454	ERA15-02V3	DIODE	
D501	1SS133T-77	DIODE	
D502	EU02V0	DIODE	
D511	MA4047MTA	DIODE	
D553	EU02V0	DIODE	
D554	EU02V0	DIODE	
D555	1SS133T-77	DIODE	
D557	EU02V0	DIODE	
D558	EU02V0	DIODE	
D559	1SS133T-77	DIODE	
D565	EU02V0	DIODE	
D566	MTZJT-7712C	DIODE	
D567	MTZJT-772.0A	DIODE	
D572	RU3LFA1	DIODE	
D573	ERD07-15L7	DIODE	
D601	DAN217T146	DIODE	
D603	DAN217T146	DIODE	
D605	DAN212KT146	DIODE	
D606	1SS355TE-17	DIODE	

Cct Ref	Parts Number	Description
D609	1SR124-4AT82	DIODE
D615	STZ6.2NT146	DIODE
D616	STZ6.2NT146	DIODE
D618	MTZJT-7716A	DIODE
D700	1SS133T-77	DIODE
D701	1SS355TE-17	DIODE
D702	MTZJT-775.1C	DIODE
D704	MA29T-BTA	DIODE
D705	MTZJT-775.6B	DIODE
D711	MTZJT-7710D	DIODE
D801	RBV-608LF-B	DIODE
D802	1SS133T-77	DIODE
D821	1SR124-4AT82	DIODE
D822	1SR124-4AT82	DIODE
D823	MTZJT-7736B	DIODE
D824	MTZJT-7736B	DIODE
D825	MTZJT-7722B	DIODE
D826	MTZJT-774.7B	DIODE
D827	1SR124-4AT82	DIODE
D828	1SR124-4AT82	DIODE
D829	SFH617A-20P6	PHOTO COUPLER
D830	MTZJT-775.6B	DIODE
D835	MTZJT-773.9A	DIODE
D836	1SS133T-77	DIODE
D840	RU4BLF-L1	DIODE
D841	TVSRU2AMLFA1	DIODE
D842	1SR124-4AT82	DIODE
D843	MTZJT-776.2B	DIODE
D844	1SS133T-77	DIODE
D845	MTZJT-773.3A	DIODE
D846	EU02V0	DIODE
D847	EU02V0	DIODE
D848	RU4AMLF-M1	DIODE
D849	1SR124-4AT82	DIODE
D850	MTZJT-7712C	DIODE
D851	1SS133T-77	DIODE
D852	MTZJT-775.1B	DIODE
D853	1SS133T-77	DIODE
D854	1SS133T-77	DIODE
D855	MTZJT-775.1A	DIODE
D856	1SS133T-77	DIODE
D857	MTZJT-7712C	DIODE
D858	MTZJT-7712C	DIODE
D863	MTZJT-7730D	DIODE
D881	1SS133T-77	DIODE
D882	1SS133T-77	DIODE
D883	BZX79B75A26A	DIODE
D885	1SS133T-77	DIODE
D886	1SS133T-77	DIODE
D887	1SS133T-77	DIODE
D888	1SS133T-77	DIODE
D889	1SS133T-77	DIODE
D890	MTZJT-772.0B	DIODE
D901	1SS133T-77	DIODE
D902	1SS133T-77	DIODE
D904	1SS133T-77	DIODE
D905	1SS133T-77	DIODE
D906	1SS133T-77	DIODE
D907	1SS133T-77	DIODE
D1055	MTZJT-775.1C	DIODE
D1061	LS5469-GK	LED
D1101	1SS133T-77	DIODE
D1102	1SS133T-77	DIODE
D1106	MA723TA5	DIODE
D2101	MA723TA5	DIODE
D2102	MA723TA5	DIODE

Cct Ref	Parts Number	Description
D2103	MA723TA5	DIODE
D2104	MA723TA5	DIODE
D2105	MTZJT-778.2C	DIODE
D2303	MA723TA5	DIODE
D2304	MA723TA5	DIODE
D3201	MTZJT-778.2C	DIODE
D3202	MTZJT-778.2C	DIODE
R802	232266296706	THERMISTOR
R803	232266296706	THERMISTOR
R3246	UDZSTE178.2B	DIODE
R3249	UDZSTE178.2B	DIODE
TRANSISTORS		
Q101	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q103	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q250	BC857B	TRANSISTOR
Q251	2SD1328STX	TRANSISTOR
Q252	2SD1328STX	TRANSISTOR
Q253	BC847B	TRANSISTOR
Q254	BC847B	TRANSISTOR
Q301	BC847B	TRANSISTOR
Q302	FMY4AT148	TRANSISTOR
Q303	BC847B	TRANSISTOR
Q304	FMY4AT148	TRANSISTOR
Q305	BC847B	TRANSISTOR
Q306	FMY4AT148	TRANSISTOR
Q351	2SA1767QTA	TRANSISTOR
Q352	2SA1767QTA	TRANSISTOR
Q353	2SA1767QTA	TRANSISTOR
Q354	BC857B	TRANSISTOR
Q503	2SD2195T100	TRANSISTOR
Q551	2SD2553LB324	TRANSISTOR
Q552	2SC1473ATA	TRANSISTOR
Q556	BC847B	TRANSISTOR
Q701	BC857B	TRANSISTOR
Q736	BC847B	TRANSISTOR
Q821	2SC1740STPR	TRANSISTOR
Q822	BC547B/126	TRANSISTOR
Q835	BC517	TRANSISTOR
Q840	2SA1668LF603	TRANSISTOR
Q841	MPSA42/RA	TRANSISTOR
Q842	2SD2396/K	TRANSISTOR
Q843	BC857B	TRANSISTOR
Q844	BC847B	TRANSISTOR
Q845	2SD2396/K	TRANSISTOR
Q846	2SA684R	TRANSISTOR
Q847	BC557B/126	TRANSISTOR
Q850	BC847B	TRANSISTOR
Q851	BC847B	TRANSISTOR
Q882	2SA1018QTA	TRANSISTOR
Q883	BC857B	TRANSISTOR
Q884	BC847B	TRANSISTOR
Q905	BC847B	TRANSISTOR
Q906	BC847B	TRANSISTOR
Q907	BC857B	TRANSISTOR
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q950	BC847B	TRANSISTOR
Q951	FMY4AT148	TRANSISTOR
Q1061	BC847B	TRANSISTOR
Q1062	BC847B	TRANSISTOR
Q1101	BC847B	TRANSISTOR
Q1102	BC847B	TRANSISTOR
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q1109	BC857B	TRANSISTOR
Q1110	SN7002	TRANSISTOR
Q1111	SN7002	TRANSISTOR
Q1112	SN7002	TRANSISTOR
Q1113	SN7002	TRANSISTOR
Q1900	BC847B	TRANSISTOR
Q2101	BC857B	TRANSISTOR
Q2102	BC857B	TRANSISTOR
Q2103	BC857B	TRANSISTOR
Q2105	BC857B	TRANSISTOR
Q2301	BC847B	TRANSISTOR
Q2302	BC857B	TRANSISTOR
Q2303	BC847B	TRANSISTOR
Q2304	BC857B	TRANSISTOR
Q2305	BC857B	TRANSISTOR
Q3005	BC847B	TRANSISTOR
Q3006	BC847B	TRANSISTOR
Q3007	BC847B	TRANSISTOR
Q3201	BC847B	TRANSISTOR
Q3202	BC847B	TRANSISTOR
Q3203	BC847B	TRANSISTOR
Q3204	BC847B	TRANSISTOR
TRANSFORMERS		
T501	ETH19Y173AY	TRANSFORMER
T821	ETS39KL116AG	TRANSFORMER
COILS		
L101	TLTACT100K	COIL
L102	TLT068K991R	COIL
L103	EXCELSA35T	COIL
L106	TLTACT100K	COIL
L107	TLTACT6R8K	COIL
L302	TLTACT4R7K	COIL
L552	ELC08D682E	COIL
L581	ELH5L6110	COIL
L582	ELC18B801L	COIL
L602	ELJFA4R7KF	COIL
L603	TLTACT4R7K	COIL
L606	ELJFC4R7KF	COIL
L701	ELC10D822E	COIL
L803	ETQR42T005A	COIL
L821	EXCELSA39E	COIL
L840	EXCELSA35T	COIL
L841	EXCELSA35T	COIL
L842	ELEIE470KA	COIL
L843	EXCELSA35T	COIL
L844	EXCELSA35T	COIL
L845	EXCELSA35T	COIL
L846	EXCELSA35T	COIL
L847	EXCELSA35T	COIL
L848	EXCELSA35T	COIL
L849	EXCELSA35T	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35T	COIL
L852	EXCELSA35T	COIL
L853	EXCELSA35T	COIL
L854	EXCELD35V	COIL
L901	EXCELSA24T	COIL
L902	EXCELSA24T	COIL
L1061	TLT331K991R	COIL
L1107	EXCELSA35T	COIL
L1108	EXCELSA35V	COIL
L1109	EXCELSA35T	COIL
L1110	EXCELSA35T	COIL

Cct Ref	Parts Number	Description
L1111	EXCELSA35T	COIL
L1115	EXCELSA35T	COIL
L1137	TALV35VB8R2K	COIL
L1900	EXCELD35V	COIL
L2101	TLTACT100K	COIL
L2103	EXCELSA35T	COIL
L2104	TLTACT4R7K	COIL
L3001	ELEMV1R5MA	COIL
L3002	ELEMV1R5MA	COIL
L3003	ELEMV1R5MA	COIL
L3004	ELEMV1R5MA	COIL
L3200	ELJFC2R2KF	COIL
L3201	TLTACT100K	COIL
L3202	TLTACT100K	COIL
L3203	ELEBR6R8KA	COIL
L3204	ELEBR6R8KA	COIL
FILTERS		
L801	ELF18N012A	LINE FILTER
L802	ELF18N012A	LINE FILTER
X101	EFCT6504BN	FILTER
X102	EFCT7004BN	CERAMIC FILTER
CRYSTALS		
X601	4730007267	CRYSTAL
X1101	A1060006AD	CRYSTAL
X2101	4730007158	CRYSTAL
RESISTORS		
C632	ERJ6GEYJ102V	S.M.CARB 0.1W 5% 1K Ω
J178	ERD25T0T	CARBON 0 Ω
JA1	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA1	ERJ8GEY0R00V	S.M.CARB 0.125 0 Ω
JA2	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA2	ERJ8GEY0R00V	S.M.CARB 0.125 0 Ω
JA3	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA3	ERJ8GEY0R00V	S.M.CARB 0.125 0 Ω
JA4	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA5	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA6	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA7	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA8	ERJ8GEY0R00V	S.M.CARB 0.125 0 Ω
JA9	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA9	ERJ8GEY0R00V	S.M.CARB 0.125 0 Ω
JA10	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA11	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA12	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA13	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA14	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA14	ERJ8GEY0R00V	S.M.CARB 0.125 0 Ω
JA15	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA15	ERJ8GEY0R00V	S.M.CARB 0.125 0 Ω
JA16	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA17	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JA18	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSD3	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSD4	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSD10	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSD30	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSD31	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSD32	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSD33	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSD34	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSD35	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSD40	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSD41	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSG9	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω
JSG16	ERJ6GEY0R00V	S.M.CARB 0.1W 0 Ω

Cct Ref	Parts Number	Description			
JSG22	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω
L1106	ERJ8GEY0R00V	S.M.CARB	0.125		0 Ω
R101	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R102	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R103	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R104	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R105	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R106	ERJ6GEYJ680V	S.M.CARB	0.1W	5%	68 Ω
R107	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R108	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R109	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R110	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R111	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω
R112	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R113	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R114	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R115	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R116	ERJ6GEYJ562V	S.M.CARB	0.1W	5%	5K6 Ω
R117	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω
R118	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R119	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R120	ERJ6GEYJ332V	S.M.CARB	0.1W	5%	3K3 Ω
R121	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R250	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω
R251	ERJ6GEYJ151V	S.M.CARB	0.1W	5%	150 Ω
R252	ERJ6GEYJ392V	S.M.CARB	0.1W	5%	3K9 Ω
R253	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R254	ERJ6GEYJ151V	S.M.CARB	0.1W	5%	150 Ω
R255	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R256	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R257	ERJ6GEYJ201V	S.M.CARB	0.1W	5%	200 Ω
R258	ERJ6GEYJ392V	S.M.CARB	0.1W	5%	3K9 Ω
R259	ERJ6GEYJ201V	S.M.CARB	0.1W	5%	200 Ω
R260	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R261	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R262	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R263	ERJ6GEYJ823V	S.M.CARB	0.1W	5%	82K Ω
R264	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω
R265	ERDS2TJ2R2T	CARBON	0.25W	5%	2R2 Ω
R266	ERDS2TJ2R2T	CARBON	0.25W	5%	2R2 Ω
R268	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R269	ERQ14AJ151P	FUSIBLE	0.25W	5%	150 Ω
R270	ERJ6GEYJ681V	S.M.CARB	0.1W	5%	680 Ω
R271	ERJ6GEYJ681V	S.M.CARB	0.1W	5%	680 Ω
R272	ERJ6GEYJ681V	S.M.CARB	0.1W	5%	680 Ω
R273	ERJ6GEYJ681V	S.M.CARB	0.1W	5%	680 Ω
R301	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω
R302	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R303	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R304	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R305	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω
R306	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R307	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R308	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R309	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω
R310	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R311	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R312	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω
R351	ERJ6GEYJ302V	S.M.CARB	0.1W	5%	3K Ω
R352	ERJ6GEYJ302V	S.M.CARB	0.1W	5%	3K Ω
R353	ERJ6GEYJ302V	S.M.CARB	0.1W	5%	3K Ω
R354	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R355	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R356	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R357	ERG12DJ114V	METAL	0.5W	5%	110K Ω
R358	ERG12DJ114V	METAL	0.5W	5%	110K Ω

Cct Ref	Parts Number	Description			
R359	ERG12DJ114V	METAL	0.5W	5%	110K Ω
R363	ERDS2TJ102T	CARBON	0.25W	5%	1K Ω
R364	ERDS2TJ102T	CARBON	0.25W	5%	1K Ω
R365	ERDS2TJ102T	CARBON	0.25W	5%	1K Ω
R366	ERDS1TJ152T	CARBON	0.5W	5%	1K5 Ω
R367	ERDS1TJ152T	CARBON	0.5W	5%	1K5 Ω
R368	ERDS1TJ152T	CARBON	0.5W	5%	1K5 Ω
R369	ERDS2TJ472T	CARBON	0.25W	5%	4K7 Ω
R370	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R372	ERQ12AJ121P	FUSIBLE	0.5W	5%	120 Ω
R373	ERJ6GEYJ220V	S.M.CARB	0.1W	5%	22 Ω
R374	ERDS2TJ274T	CARBON	0.25W	5%	270K Ω
R375	ERJ6GEYJ684V	S.M.CARB	0.1W	5%	680K Ω
R376	ERJ6GEYJ183V	S.M.CARB	0.1W	5%	18K Ω
R377	ERQ12HKR56P	FUSIBLE	0.5W	10%	R56 Ω
R381	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω
R385	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω
R451	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R452	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω
R453	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω
R454	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R455	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω
R458	ERDS2TJ1R5T	CARBON	0.25W	5%	1R5 Ω
R460	ERDS1TJ221T	CARBON	0.5W	5%	220 Ω
R461	ERX2FJ1R0H	METAL	2W	5%	1 Ω
R465	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R507	ERG2FJ820H	METAL	2W	5%	82 Ω
R509	ERG1SJ152E	METAL	1W	5%	1K5 Ω
R510	ERG1SJ152E	METAL	1W	5%	1K5 Ω
R551	ERG1FJ101P	METAL	1W	5%	100 Ω
R553	ERX2SJSR47H	METAL	2W	5%	R47 Ω
R557	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R558	ERDS1TJ124T	CARBON	0.5W	5%	120K Ω
R559	ERJ6GEYJ561V	S.M.CARB	0.1W	5%	560 Ω
R560	ERJ6GEYJ274V	S.M.CARB	0.1W	5%	270K Ω
R561	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω
R563	ERJ6GEYJ824V	S.M.CARB	0.1W	5%	820K Ω
R564	ERJ6GEYJ124V	ERJ6GEYJ	0.1W	5%	120K Ω
R566	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R567	343-23R3AY	METAL	10W	5%	3R3 Ω
R569	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R571	ERJ6GEYJ563V	S.M.CARB	0.1W	5%	56K Ω
R572	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω
R573	ERJ6GEYJ203V	S.M.CARB	0.1W	5%	20K Ω
R574	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω
R575	ERJ6GEYJ912V	S.M.CARB	0.1W	5%	9K1 Ω
R576	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω
R578	ERQ12HKR82P	FUSIBLE	0.5W	10%	R82 Ω
R583	ERG1SJ102P	METAL	1W	5%	1K Ω
R601	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω
R602	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω
R604	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω
R605	ERDS2TJ331T	CARBON	0.25W	5%	330 Ω
R606	ERDS2TJ331T	CARBON	0.25W	5%	330 Ω
R607	ERJ6GEYJ821V	S.M.CARB	0.1W	5%	820 Ω
R608	ERJ6GEYJ271V	S.M.CARB	0.1W	5%	270 Ω
R609	ERJ6GEYJ122V	S.M.CARB	0.1W	5%	1K2 Ω
R610	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω
R611	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R612	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R613	ERJ6GEYJ152V	S.M.CARB	0.1W	5%	1K5 Ω
R614	ERDS1TJ221T	CARBON	0.5W	5%	220 Ω
R643	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R644	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω
R645	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω
R647	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω

Cct Ref	Parts Number	Description				
R648	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R650	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R651	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R653	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R654	ERJ6GEYJ622V	S.M.CARB	0.1W	5%	6K2 Ω	
R655	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R658	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R659	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R660	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R701	ERQ12AJ330P	METAL	0.5W	5%	330 Ω	
R702	ERG3FJ101H	METAL	3W	5%	100 Ω	
R703	ERG2FJ821H	METAL	2W	5%	820 Ω	
R704	ERJ6GEYJ563V	S.M.CARB	0.1W	5%	56K Ω	
R705	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω	
R706	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R707	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω	
R708	ERJ6GEYJ393V	S.M.CARB	0.1W	5%	39K Ω	
R709	ERJ6GEYJ393V	S.M.CARB	0.1W	5%	39K Ω	
R710	ERJ6GEYJ273V	S.M.CARB	0.1W	5%	27K Ω	
R711	ERG1SJ101E	METAL	1W	5%	100 Ω	
R712	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R717	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R721	ERJ6GEYJ563V	S.M.CARB	0.1W	5%	56K Ω	
R731	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R750	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R806	ERC12ZGK105C	SOLID	0.5W	10%	1M Ω	△
R809	ERJ6GEYJ122V	S.M.CARB	0.1W	5%	1K2 Ω	
R813	ERF7ZK2R7	WOUND	7W	20%	2R7 Ω	
R818	ERQ14AJW221E	FUSIBLE	0.25W	5%	220 Ω	
R819	ERDS1TJ224T	CARBON	0.5W	5%	220K Ω	
R821	ERDS1TJ224T	CARBON	0.5W	5%	220K Ω	
R822	ERDS1TJ224T	CARBON	0.5W	5%	220K Ω	
R823	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R824	ERQ14AJW4R7E	FUSIBLE	0.25W	5%	4R7 Ω	
R825	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R826	ERG2FJ103H	METAL	2W	5%	10K Ω	
R827	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R828	ERX2SJR68P	S.M.CARB	2W	5%	R68 Ω	
R829	ERX2SJR33P	S.M.CARB	2W	5%	R33 Ω	
R830	ERDS2TJ101T	CARBON	0.25W	5%	100 Ω	
R831	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R832	ERJ6GEYJ823V	S.M.CARB	0.1W	5%	82K Ω	
R833	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω	△
R840	ERQ1ABJ180E	FUSIBLE	1W	5%	18 Ω	
R841	ERDS2TJ682T	CARBON	0.25W	5%	6K8 Ω	
R842	ERDS2TJ122T	CARBON	0.25W	5%	1K2 Ω	
R844	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R845	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R848	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω	
R849	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R850	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R851	ERJ6GEYJ333V	S.M.CARB	0.1W	5%	33K Ω	
R852	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R853	ERJ6GEYJ122V	S.M.CARB	0.1W	5%	1K2 Ω	
R854	ERG3FJ101H	METAL	3W	5%	100 Ω	
R855	ERG3FJ101H	METAL	3W	5%	100 Ω	
R856	ERDS1TJ2R2T	CARBON	0.5W	5%	2R2 Ω	
R857	ERDS1TJ103T	CARBON	0.5W	5%	10K Ω	
R858	ERDS2TJ202T	CARBON	0.25W	5%	2K Ω	
R859	ERDS2TJ101T	CARBON	0.25W	5%	100 Ω	
R860	ERG2FJ223H	METAL	2W	5%	22K Ω	
R862	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R870	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω	
R871	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R872	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R881	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω	

Cct Ref	Parts Number	Description				
R882	ERG1SJ223P	METAL	1W	5%	22K Ω	
R883	ERG1SJ183P	METAL	1W	5%	18K Ω	
R884	ERJ6GEYJ181V	S.M.CARB	0.1W	5%	180 Ω	
R885	ERJ6GEYJ152V	S.M.CARB	0.1W	5%	1K5 Ω	
R886	ERJ6GEYJ182V	S.M.CARB	0.1W	5%	1K8 Ω	
R887	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω	
R888	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω	
R889	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω	
R890	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω	
R891	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω	
R892	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω	
R893	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω	
R894	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R913	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω	
R914	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω	
R915	ERJ6GEYJ152V	S.M.CARB	0.1W	5%	1K5 Ω	
R916	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω	
R919	ERQ14AJW390E	FUSIBLE	0.25W	5%	39 Ω	
R920	ERQ14AJW390E	FUSIBLE	0.25W	5%	39 Ω	
R921	ERDS2TJ471T	CARBON	0.5W	5%	470 Ω	
R922	ERDS2TJ393T	CARBON	0.25W	5%	39K Ω	
R923	ERDS2TJ393T	CARBON	0.25W	5%	39K Ω	
R924	ERDS1FJ390T	CARBON	0.5W	5%	39 Ω	
R925	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R926	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R927	ERDS2TJ471T	CARBON	0.5W	5%	470 Ω	
R928	ERDS2TJ5R6T	CARBON	0.25W	5%	5R6 Ω	
R929	ERDS1FVJ471T	CARBON	0.5W	5%	470 Ω	
R930	ERDS2TJ5R6T	CARBON	0.25W	5%	5R6 Ω	
R931	ERDS1FJ390T	CARBON	0.5W	5%	39 Ω	
R935	ERQ14AJW3R9E	FUSIBLE	0.25W	5%	3R9 Ω	
R936	ERQ1CJP331S	FUSIBLE	1W	5%	330 Ω	
R951	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω	
R952	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R953	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R954	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω	
R1061	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R1062	ERJ6GEYJ182V	S.M.CARB	0.1W	5%	1K8 Ω	
R1063	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1102	ERJ6GEYJ562V	S.M.CARB	0.1W	5%	5K6 Ω	
R1103	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω	
R1104	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω	
R1107	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R1108	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R1109	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R1110	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R1113	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1114	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1115	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1116	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1117	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1118	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R1119	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R1120	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1121	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1122	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R1123	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1124	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R1125	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R1126	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1127	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1128	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω	
R1129	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω	
R1130	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω	
R1131	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω	
R1132	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	

Cct Ref	Parts Number	Description				
R1137	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω	
R1138	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R1139	ERJ6GEYJ271V	S.M.CARB	0.1W	5%	270 Ω	
R1142	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω	
R1144	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R1145	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1146	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1147	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1148	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R1149	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R1153	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1155	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R1156	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1157	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1158	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R1159	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω	
R1160	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R1161	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1162	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R1167	ERJ6GEYJ100V	S.M.CARB	0.1W	5%	10 Ω	
R1168	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω	
R1169	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R1170	ERJ6GEYJ273V	S.M.CARB	0.1W	5%	27K Ω	
R1171	ERJ6GEYJ224V	S.M.CARB	0.1W	5%	220K Ω	
R1172	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R1173	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R1174	ERJ6GEYJ221V	S.M.CARB	0.1W	5%	220 Ω	
R1175	ERJ6GEYJ225V	S.M.CARB	0.1W	5%	2M2 Ω	
R1178	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R1200	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R1201	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1202	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1203	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1204	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1205	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1206	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1207	ERDS2TJ101T	CARBON	0.25W	5%	100 Ω	
R1208	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R1209	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R1210	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R1211	ERJ6GEYJ683V	S.M.CARB	0.1W	5%	68K Ω	
R1212	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1213	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1214	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R1215	ERJ6GEYJ683V	S.M.CARB	0.1W	5%	68K Ω	
R1217	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1220	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1223	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R1224	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R1225	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R1226	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R1236	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R1237	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R1240	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R1241	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R1251	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω	
R1252	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω	
R1253	ERJ6GEYJ332V	S.M.CARB	0.1W	5%	3K3 Ω	
R1254	ERJ6GEYJ512V	S.M.CARB	0.1W	5%	5K1 Ω	
R1255	ERJ6GEYJ912V	S.M.CARB	0.1W	5%	9K1 Ω	
R1901	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω	
R1902	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω	
R1903	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R1904	ERDS1TJ2R2T	CARBON	0.5W	5%	2R2 Ω	
R1905	ERJ6GEYJ114V	S.M.CARB	0.1W	5%	110K Ω	
R1906	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	

Cct Ref	Parts Number	Description				
R1907	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R1908	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1909	ERDS1TJ2R2T	CARBON	0.5W	5%	2R2 Ω	
R1913	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R1914	ERG1SJ391E	METAL	1W	5%	390 Ω	
R1916	ERG2SJ560P	METAL	2W	5%	56 Ω	
R2101	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2102	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2103	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2104	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2105	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2106	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2107	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2108	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2109	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2110	ERJ6GEY0R00V	S.M.CARB	0.1W		0 Ω	
R2111	ERJ6GEYJ221V	S.M.CARB	0.1W	5%	220 Ω	
R2112	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R2113	ERJ6GEYJ562V	S.M.CARB	0.1W	5%	5K6 Ω	
R2114	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2115	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω	
R2116	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2117	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2118	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω	
R2119	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2120	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω	
R2123	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R2124	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2125	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω	
R2126	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2130	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2131	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R2302	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R2303	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2304	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R2305	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R2306	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R2307	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω	
R2308	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R2309	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R2310	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R2311	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R2312	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R3001	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3002	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R3003	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3004	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R3005	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3006	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R3007	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3008	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R3009	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R3010	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R3011	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R3012	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R3013	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3014	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R3015	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3016	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R3017	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3018	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R3019	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3020	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R3021	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R3022	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R3025	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	

Cct Ref	Parts Number	Description			
R3026	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R3043	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3044	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R3045	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3046	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3047	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3048	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R3049	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3050	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω
R3057	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R3201	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3202	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3203	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R3204	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R3205	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R3206	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3207	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω
R3209	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R3210	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω
R3211	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R3212	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω
R3213	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R3214	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R3215	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω
R3242	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω
R3243	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω
R3244	ERG2FJ221H	METAL	2W	5%	220 Ω
R3245	ERG2FJ221H	METAL	2W	5%	220 Ω
R3247	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3248	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω
R3250	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω
R3601	ERJ6GEYJ561V	S.M.CARB	0.1W	5%	560 Ω
R3602	ERJ6GEYJ561V	S.M.CARB	0.1W	5%	560 Ω
R3603	ERJ6GEYJ561V	S.M.CARB	0.1W	5%	560 Ω
R3604	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R3605	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
R3606	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω
CAPACITORS					
C101	ECJ2YB1H104K	S.M.CAP	50V		100nF
C102	ECJ2VF1H103Z	S.M.CAP	50V		10nF
C103	ECJ2VF1H104Z	S.M.CAP	50V		100nF
C105	ECJ2VC1H220J	S.M.CAP	50V		22pF
C106	ECJ2VC1H100D	S.M.CAP	50V		10pF
C107	ECJ2VF1H104Z	S.M.CAP	50V		100nF
C108	F2A1H220A182	ELECT	50V		22μF
C109	ECJ2VC1H102J	S.M.CAP	50V		1nF
C110	ECJ2VF1H103Z	S.M.CAP	50V		10nF
C111	F2A1HR33A182	ELECT	50V		0.33μF
C112	ECJ2VF1H103Z	S.M.CAP	50V		10nF
C113	ECJ2VF1H104Z	S.M.CAP	50V		100nF
C114	F2A1H221A184	ELECT	50V		220μF
C117	ECJ2VF1H103Z	S.M.CAP	50V		10nF
C118	ECJ2VF1H104Z	S.M.CAP	50V		100nF
C119	F2A1H221A184	ELECT	50V		220μF
C120	F2A1C2210044	ELECT	16V		220μF
C121	ECJ2VF1H103Z	S.M.CAP	50V		10nF
C122	ECJ2VB1H102K	S.M.CAP	50V		1nF
C123	ECJ2VB1H102K	S.M.CAP	50V		1nF
C124	ECJ2VC1H220J	S.M.CAP	50V		22pF
C125	ECJ2VC1H100D	S.M.CAP	50V		10pF
C136	ECJ2YB1H104K	S.M.CAP	50V		100nF
C138	ECJ2YB1H104K	S.M.CAP	50V		100nF
C251	ECA1EM100B	ELECT	25V		10μF
C252	ECJ2VB1H472K	S.M.CAP	50V		4.7nF
C253	F2A1H4R7A182	ELECT	50V		4.7μF
C254	ECQV1H683JL3	FILM	50V		68nF

Cct Ref	Parts Number	Description			
C255	F2A1E1010056	ELECT	25V		100μF
C256	ECJ2VB1H472K	S.M.CAP	50V		4.7nF
C257	F2A1H4R7A182	ELECT	50V		4.7μF
C258	ECA1EM100B	ELECT	25V		10μF
C259	ECQV1H683JL3	FILM	50V		68nF
C260	F2A1V1020042	ELECT	35V		68nF
C261	F2A1V1020042	ELECT	35V		68nF
C262	ECQV1H154JL3	FILM	50V		150nF
C263	F2A1H4R7A182	ELECT	50V		4.7μF
C264	ECA1HHG222E	ELECT	50V		2200μF
C265	ECQV1H154JL3	FILM	50V		150nF
C266	F2A1H4R7A182	ELECT	50V		4.7μF
C267	ECJ2YB1H104K	S.M.CAP	50V		100nF
C268	ECJ2YB1H104K	S.M.CAP	50V		100nF
C301	ECJ2VB1C104K	S.M.CAP	16V		100nF
C302	ECJ2VB1C104K	S.M.CAP	16V		100nF
C303	ECJ2VB1C104K	S.M.CAP	16V		100nF
C304	F2A1C100A180	ELECT	16V		10μF
C354	ECQE2104KF3	FILM	250V		100nF
C355	ECJ2VC1H222J	S.M.CAP	50V		2.2nF
C356	ECJ2VC1H222J	S.M.CAP	50V		2.2nF
C357	ECJ2VC1H222J	S.M.CAP	50V		2.2nF
C358	ECQV1H224JL3	FILM	50V		220nF
C360	ECKW3D152KBN	CERAMIC	2KV		1.5nF
C361	F2A1HR47A182	ELECT	50V		0.47μF
C363	F2A1V471A141	ELECT	35V		470μF
C364	ECJ2VF1H103Z	S.M.CAP	50V		10nF
C366	F2A1C100A180	ELECT	16V		10μF
C453	ECJ2VB1H222K	S.M.CAP	50V		2.2nF
C454	ECQV1H154JL3	FILM	50V		150nF
C455	F2A1H100A182	ELECT	50V		10μF
C456	ECA1HHG221B	ELECT	50V		220μF
C458	ECQB1222JF3	FILM	100V		2.2nF
C461	ECCR2H270J5	CERAMIC	500V		27pF
C462	ECJ2VC1H152J	S.M.CAP	50V		1.5nF
C464	ECJ2YB1H683K	S.M.CAP	50V		68nF
C508	ECQV1H105JL3	FILM	50V		1μF
C509	SMG1VV470MT5	ELECT	35V		47μF
C551	ECKW3D681JBP	CERAMIC	2kV		680pF
C552	ECWH20102JYV	FILM	2kV		1nF
C555	ECWF2394JBB	FILM	250V		390nF
C556	ECJ2YB1H104K	S.M.CAP	50V		100nF
C557	ECKR2H471KB5	CERAMIC	500V		470pF
C558	ECA1HHG471B	ELECT	50V		470μF
C559	ECJ2YB1H104K	S.M.CAP	50V		100nF
C560	ECQE2683KFW	FILM	250V		68nF
C561	F2A1E102A151	ELECT	25V		68nF
C562	ECKR2H101KB5	CERAMIC	500V		100pF
C563	ECA2EM220B	ELECT	250V		22μF
C564	ECA2AM2R2B	ELECT	100V		2.2μF
C565	ECQB1H273JF3	FILM	50V		27nF
C566	ECKR2H471KB5	CERAMIC	500V		470pF
C567	F2B1H102A007	ELECT	50V		1000μF
C568	ECKR2H471KB5	CERAMIC	500V		470pF
C569	ECKR2H102KB5	CERAMIC	500V		1nF
C581	ECWF2684JBB	FILM	250V		680nF
C582	ECWF2684JBB	FILM	250V		680nF
C583	ECWH20822JVB	FILM	2kV		8.2nF
C584	ECWH20682JVB	FILM	2KV		6.8nF
C586	ECQF4223JZH	FILM	400V		22nF
C602	F2A1C101A180	ELECT	16V		100μF
C603	ECJ2VC1H102J	S.M.CAP	50V		1nF
C604	ECJ2VF1H223Z	S.M.CAP	50V		22nF
C605	F2A1C101A180	ELECT	16V		100μF
C606	F2A1H3R3A182	ELECT	50V		3.3μF
C607	ECJ2VF1H104Z	S.M.CAP	50V		100nF

Cct Ref	Parts Number	Description		
C608	ECJ2VB1H153K	S.M.CAP	50V	15nF
C609	ECJ2VB1H153K	S.M.CAP	50V	15nF
C610	ECJ2VB1H153K	S.M.CAP	50V	15nF
C611	ECJ2VB1H153K	S.M.CAP	50V	15nF
C612	ECJ2VB1H153K	S.M.CAP	50V	15nF
C613	ECJ2VB1H153K	S.M.CAP	50V	15nF
C614	ECJ2VC1H050C	S.M.CAP	50V	5pF
C615	ECJ2VC1H050C	S.M.CAP	50V	5pF
C616	ECJ2VB1C104K	S.M.CAP	16V	100nF
C617	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C618	F2A1C2210044	ELECT	16V	220µF
C619	ECJ2YB1H473K	S.M.CAP	50V	47nF
C620	F2A1C101A180	ELECT	16V	100µF
C621	ECJ2VB1C104K	S.M.CAP	16V	100nF
C622	ECJ2YB1H683K	S.M.CAP	50V	68nF
C623	ECJ2VC1H102J	S.M.CAP	50V	1nF
C624	ECJ2VB1C474K	S.M.CAP	16V	470nF
C628	F2A1C100A180	ELECT	16V	10µF
C629	ECJ2YB1H104K	S.M.CAP	50V	100nF
C630	ECJ2VC1H100D	S.M.CAP	50V	10pF
C631	ECJ2VF1H683Z	S.M.CAP	50V	68nF
C636	ECJ2YB1H683K	S.M.CAP	50V	68nF
C637	ECJ2VC1H101J	S.M.CAP	50V	100pF
C638	ECJ2VC1H471J	S.M.CAP	50V	470pF
C639	ECJ2VB1H332K	S.M.CAP	50V	3.3nF
C701	ECA1HHG101B	ELECT	50V	100µF
C702	ECJ2VB1H103K	S.M.CAP	50V	10nF
C703	ECA1HHG100B	ELECT	50V	10µF
C704	ECJ2VB1H223K	S.M.CAP	50V	22nF
C705	ECQB1H152KF3	FILM	50V	1.5nF
C708	ECJ2YB1H473K	S.M.CAP	50V	47nF
C802	ECQU2A474MLA	FILM	250V	470nF
C803	ECQU2A224MLA	FILM	275V	220nF
C804	ECQU2A154MLA	FILM	275V	150nF
C805	ECKW2H472PU7	CERAMIC	500V	4.7nF
C806	ECKW2H472PU7	CERAMIC	500V	4.7nF
C807	ECKW2H472PU7	CERAMIC	500V	4.7nF
C808	ECKW2H472PU7	CERAMIC	500V	4.7nF
C810	ECQE6104KFW	FILM	630V	100nF
C821	ECOS2GA221CB	ELECT	400V	220µF
C822	F2A1H330A182	ELECT	50V	33µF
C823	ECJ2VF1H224Z	S.M.CAP	50V	220nF
C824	ECJ2VC1H221J	S.M.CARB	50V	220pF
C825	ECJ2VB1H471K	S.M.CAP	50V	470pF
C826	ECJ2VC1H681J	S.M.CAP	50V	680pF
C827	ECJ2VB1H223K	S.M.CAP	50V	22nF
C828	ECKW3D681KBP	CERAMIC	2KV	680pF
C829	ECKR1H471KB5	CERAMIC	50V	470pF
C830	ECJ2VB1H103K	S.M.CAP	50V	10nF
C831	F2A1C470A180	ELECT	16V	47µF
C832	ECKWNA222ME	CERAMIC	250V	2.2nF
C840	ECKW3D221JBP	CERAMIC	2kV	220pF
C841	ECA2EM221E	ELECT	250V	220µF
C842	ECA2EM221E	ELECT	250V	220µF
C844	ECA2DM100B	ELECT	200V	10µF
C845	ECKR2H471KB5	CERAMIC	500V	470pF
C846	F2A1E102A151	ELECT	25V	470pF
C847	ECKR2H471KB5	CERAMIC	500V	470pF
C848	F2A1C4710045	ELECT	16V	470µF
C850	ECA1JM471B	ELECT	63V	470µF
C851	ECKR2H471KB5	CERAMIC	500V	470pF
C852	F2A1V471A141	ELECT	35V	470µF
C853	F2A1C101A180	ELECT	16V	100µF
C854	F2A1C101A180	ELECT	16V	100µF
C855	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C856	F2A1C100A180	ELECT	16V	10µF

Cct Ref	Parts Number	Description		
C857	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C858	F2A1C100A180	ELECT	16V	10µF
C859	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C860	F2A1C100A180	ELECT	16V	10µF
C861	F2A1C100A180	ELECT	16V	10µF
C862	ECJ2YB1H104K	S.M.CAP	50V	100nF
C863	ECJ2VB1H102K	S.M.CAP	50V	1nF
C864	F2A1C100A180	ELECT	16V	10µF
C865	ECJ2VB1H102K	S.M.CAP	50V	1nF
C866	F2A1C100A180	ELECT	16V	10µF
C867	F2A1C100A180	ELECT	16V	10µF
C868	ECJ2YB1H104K	S.M.CAP	50V	100nF
C869	ECJ2VB1H102K	S.M.CAP	50V	1nF
C870	F2A1C100A180	ELECT	16V	10µF
C871	ECJ2VB1H102K	S.M.CAP	50V	1nF
C872	F2A1C100A180	ELECT	16V	10µF
C882	F2A0J1020040	ELECT	6.3V	1000µF
C883	F2A1H1R00053	ELECT	50V	1µF
C884	F2A1C100A180	ELECT	16V	10µF
C902	F2A1V1010038	ELECT	35V	100µF
C903	ECJ2VB1H472K	S.M.CAP	50V	4.7nF
C904	ECJ2VB1H472K	S.M.CAP	50V	4.7nF
C906	ECJ2VB1H471K	S.M.CAP	50V	470pF
C908	ECJ2VC1H151J	S.M.CAP	50V	150pF
C909	ECKR2H472MD5	CERAMIC	500V	4.7nF
C910	ECKR2H472MD5	CERAMIC	500V	4.7nF
C911	ECJ2VC1H151J	S.M.CAP	50V	150pF
C912	ECEA2CU100B	ELECT	160V	10µF
C913	F2A1C101A180	ELECT	16V	100µF
C914	F2A1C101A180	ELECT	16V	100µF
C916	ECEA2CGE100B	ELECT	160V	10µF
C950	ECJ2VB1C104K	S.M.CAP	16V	100nF
C1061	ECJ2VB1H103K	S.M.CAP	50V	10nF
C1062	F2A1C101A180	ELECT	16V	100µF
C1063	ECJ2VC1H331J	S.M.CAP	50V	330pF
C1101	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C1102	F2A0J101A181	ELECT	6.3V	100µF
C1103	ECJ2VC1H330J	S.M.CAP	50V	33pF
C1104	ECJ2VC1H330J	S.M.CAP	50V	33pF
C1105	ECJ2VB1H183K	S.M.CAP	50V	18nF
C1113	ECJ2YB1H104K	S.M.CAP	50V	100nF
C1114	ECJ2VC1H121J	S.M.CAP	50V	120pF
C1116	ECJ2VB1H472K	S.M.CAP	50V	4.7nF
C1117	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C1118	ECJ2VB1H103K	S.M.CAP	50V	10nF
C1119	ECJ2VC1H221J	S.M.CARB	50V	220pF
C1121	ECJ2VC1H221J	S.M.CARB	50V	220pF
C1124	ECJ2VC1H151J	S.M.CAP	50V	150pF
C1125	ECJ2VC1H220J	S.M.CAP	50V	22pF
C1126	ECJ2VC1H220J	S.M.CAP	50V	22pF
C1127	ECJ2VC1H221J	S.M.CARB	50V	220pF
C1218	ECJ2YB1H104K	S.M.CAP	50V	100nF
C1900	ECQB1H104JF3	FILM	50V	100nF
C1901	ECJ2VB1H103K	S.M.CAP	50V	10nF
C1903	F2A1E470A149	ELECT	25V	47µF
C1904	ECQB1H104JF3	FILM	50V	100nF
C1905	ECQB1H104JF3	FILM	50V	100nF
C1909	ECJ2VB1H103K	S.M.CAP	50V	10nF
C2101	ECJ2VC1H102J	S.M.CAP	50V	1nF
C2102	ECJ2VC1H102J	S.M.CAP	50V	1nF
C2103	ECJ2VC1H102J	S.M.CAP	50V	1nF
C2104	ECJ2VC1H102J	S.M.CAP	50V	1nF
C2105	ECJ2VC1H102J	S.M.CAP	50V	1nF
C2107	ECJ2VC1H102J	S.M.CAP	50V	1nF
C2108	ECJ2VC1H102J	S.M.CAP	50V	1nF
C2109	ECJ2VC1H102J	S.M.CAP	50V	1nF

Cct Ref	Parts Number	Description		
C2110	ECJ2VC1H102J	S.M.CAP	50V	1nF
C2111	F2A1C100A180	ELECT	16V	10µF
C2112	F2A1C100A180	ELECT	16V	10µF
C2113	F2A1H3R3A182	ELECT	50V	3.3µF
C2114	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C2115	ECJ2VC1H221J	S.M.CARB	50V	220pF
C2116	ECJ2VC1H221J	S.M.CARB	50V	220pF
C2117	ECJ2VC1H221J	S.M.CARB	50V	220pF
C2118	ECJ2VC1H221J	S.M.CARB	50V	220pF
C2119	ECJ2VC1H221J	S.M.CARB	50V	220pF
C2120	ECJ2VC1H221J	S.M.CARB	50V	220pF
C2121	F2A1C100A180	ELECT	16V	10µF
C2122	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C2123	ECJ2VC1H221J	S.M.CARB	50V	220pF
C2124	ECJ2VC1H560J	S.M.CAP	50V	56pF
C2125	ECJ2VC1H470J	S.M.CAP	50V	47pF
C2126	ECJ2VC1H560J	S.M.CAP	50V	56pF
C2127	ECJ2VC1H010C	S.M.CAP	50V	1pF
C2128	ECJ2VC1H010C	S.M.CAP	50V	1pF
C2129	F2A1C1020049	ELECT	16V	1000µF
C2130	F2A1C3310039	ELECT	16V	330µF
C2131	ECJ2VF1H103Z	S.M.CAP	50V	10nF
C2132	ECJ2VF1H103Z	S.M.CAP	50V	10nF
C2133	ECJ2VB1C474K	S.M.CAP	16V	470nF
C2134	ECJ2VF1H103Z	S.M.CAP	50V	10nF
C2135	F2A1C101A180	ELECT	16V	100µF
C2136	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C2137	F2A1C100A180	ELECT	16V	10µF
C2138	ECJ2VB1H471K	S.M.CAP	50V	470pF
C2139	ECJ2VC1H221J	S.M.CARB	50V	220pF
C2140	F2A1C101A180	ELECT	16V	100µF
C2141	ECJ2VC1H152J	S.M.CAP	50V	1.5nF
C2142	ECJ2VB1H103K	S.M.CAP	50V	10nF
C2144	ECJ2VF1H103Z	S.M.CAP	50V	10nF
C2146	ECJ2VC1H102J	S.M.CAP	50V	1nF
C2147	ECJ2VC1H102J	S.M.CAP	50V	1nF
C2148	ECJ2VC1H102J	S.M.CAP	50V	1nF
C2149	ECJ2YB1H104K	S.M.CAP	50V	100nF
C2150	F2A1E1010056	ELECT	25V	100µF
C2301	ECJ2VC1H222J	S.M.CAP	50V	2.2nF
C2302	F2A1C470A180	ELECT	16V	47µF
C2303	ECJ2VC1H222J	S.M.CAP	50V	2.2nF
C2304	F2A1C470A180	ELECT	16V	47µF
C2305	ECJ2VC1H101J	S.M.CAP	50V	100pF
C2306	ECJ2VC1H101J	S.M.CAP	50V	100pF
C3001	ECJ2VC1H222J	S.M.CAP	50V	2.2nF
C3003	F2A1C470A180	ELECT	16V	47µF
C3005	ECJ2VC1H222J	S.M.CAP	50V	2.2nF
C3006	ECJ2VB1C474K	S.M.CAP	16V	470nF
C3008	ECJ2VC1H222J	S.M.CAP	50V	2.2nF
C3010	F2A1C470A180	ELECT	16V	47µF
C3012	ECJ2VC1H222J	S.M.CAP	50V	2.2nF
C3013	ECJ2VB1C474K	S.M.CAP	16V	470nF
C3015	ECJ2VC1H222J	S.M.CAP	50V	2.2nF
C3017	F2A1C470A180	ELECT	16V	47µF
C3019	ECJ2VC1H222J	S.M.CAP	50V	2.2nF
C3020	ECJ2VB1C474K	S.M.CAP	16V	470nF
C3022	ECJ2VC1H222J	S.M.CAP	50V	2.2nF
C3024	F2A1C470A180	ELECT	16V	47µF
C3026	ECJ2VC1H222J	S.M.CAP	50V	2.2nF
C3027	ECJ2VB1C474K	S.M.CAP	16V	470nF
C3036	ECJ2VC1H101J	S.M.CAP	50V	100pF
C3037	ECJ2VC1H101J	S.M.CAP	50V	100pF
C3038	ECJ2VC1H101J	S.M.CAP	50V	100pF
C3039	ECJ2VC1H101J	S.M.CAP	50V	100pF
C3107	ECJ2VB1C474K	S.M.CAP	16V	470nF

Cct Ref	Parts Number	Description		
C3108	ECJ2VB1C474K	S.M.CAP	16V	470nF
C3201	ECQV1H224JL3	FILM	50V	220nF
C3202	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3203	ECQV1H224JL3	FILM	50V	220nF
C3204	ECQV1H224JL3	FILM	50V	220nF
C3205	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3206	ECQV1H224JL3	FILM	50V	220nF
C3207	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C3208	ECJ2VF1H104Z	S.M.CAP	50V	100nF
C3209	F2A1C220A180	ELECT	16V	22µF
C3210	ECJ2YB1H104K	S.M.CAP	50V	100nF
C3211	ECJ2YB1H104K	S.M.CAP	50V	100nF
C3212	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3213	ECJ2VC1H271J	S.M.CAP	50V	270pF
C3215	ECJ2VC1H180J	S.M.CAP	50V	18pF
C3216	ECJ2VC1H271J	S.M.CAP	50V	270pF
C3231	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3232	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3233	ECJ2VC1H561J	S.M.CAP	50V	560pF
C3234	ECJ2VC1H561J	S.M.CAP	50V	560pF
C3235	F2A1H4700031	ELECT	50V	47µF
C3236	ECJ2VC1H561J	S.M.CAP	50V	560pF
C3237	ECJ2VC1H561J	S.M.CAP	50V	560pF
C3238	F2A1H4700031	ELECT	50V	47µF
C3239	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3240	ECJ2VB1H103K	S.M.CAP	50V	10nF
TERMINALS AND LINKS				
JK2301	JPJ841101320	RCA SOCKET		
JK3001	350808500	SCART SOCKET		
JK3201	TJB8E026	AV TERMINAL		
S351	330550049	CRT SOCKET		
SWITCHES				
S801	ESB92S11B	SWITCH		
S1251	EVQ21405R	SWITCH		
S1252	EVQ21405R	SWITCH		
S1253	EVQ21405R	SWITCH		
S1254	EVQ21405R	SWITCH		
S1255	EVQ21405R	SWITCH		
RELAYS				
RL801	DLS12D1-OM	RELAY		
DIFFERENCES FOR MODEL TX--29PS1D				
EXPLODED VIEW				
16	TKU0E0103	BACK COVER		
17	TKY0E0104	CABINET		
18	TNP0ED001AQ	D P.C.B.		
19	TKP0E10601	DOOR LID		
20	TBM0E0025-1	MODEL LABEL		
21	TBX0E80401	POWER BUTTON		
INSTRUCTION BOOKS				
.	TQB8E3690A1S	GERMAN		
.	TQB8E3690C2S	ITALIAN		
.	TQB8E3690D1S	FRENCH		
I.C.s				
IC1103	E10/1A07D	EAROM BR24C16		
DIFFERENCES FOR MODEL TX--29PS1F				
EXPLODED VIEW				
16	TKU0E0103	BACK COVER		
17	TKY0E0104	CABINET		
18	TNP0ED001AG	D P.C.B.		

SCHEMATIC DIAGRAMS FOR MODELS TX-29PS1D, TX-29PS1F, TX-29PS1P, TX-29PS1P/B (EURO-10 CHASSIS)

IMPORTANT SAFETY NOTICE

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

NOTE

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. TEST POINT
 Test Point Position

5. EARTH SYMBOL
 Chassis Earth (Cold)
 Line Earth (Hot)

6. 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

7.
 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

- 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.

NOTE

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.



JK3201
TJB85026

TNPOEG001
G-BOARD

