

Service Manual



Colour Television TX-28PL1 EURO- 4 Chassis

SPECIFICATIONS

Power Source:	220-240V a.c., 50Hz
Power Consumption:	90W
Stand-by Power Consumption:	1,4W
Aerial Impedance:	75Ω unbalanced, Coaxial Type
Receiving System:	PAL I, PAL-525/60 M.NTSC (AV only) NTSC (AV only)
Receiving Channels:	UHF E21-E68
Intermediate Frequency:	
Video/Audio	
Video	39,5MHz
Audio	33,5MHz 32,95MHz (NICAM)
Colour	35,07MHz
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) 1V p-p 75Ω Audio (21 pin) 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:	W66EKT50X21	66cm
Audio Output:	2 x 7W RMS, 2 x 15W MPO	
Headphones:	8Ω Impedance	
Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries	
Dimensions:		
Height:	508,8mm	
Width:	763,2mm	
Depth:	512,2mm	
Net weight:	42kg	

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.

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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.

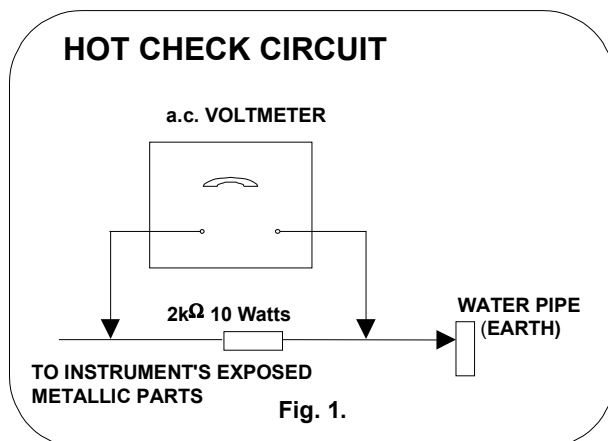
LEAKAGE CURRENT COLD CHECK

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.

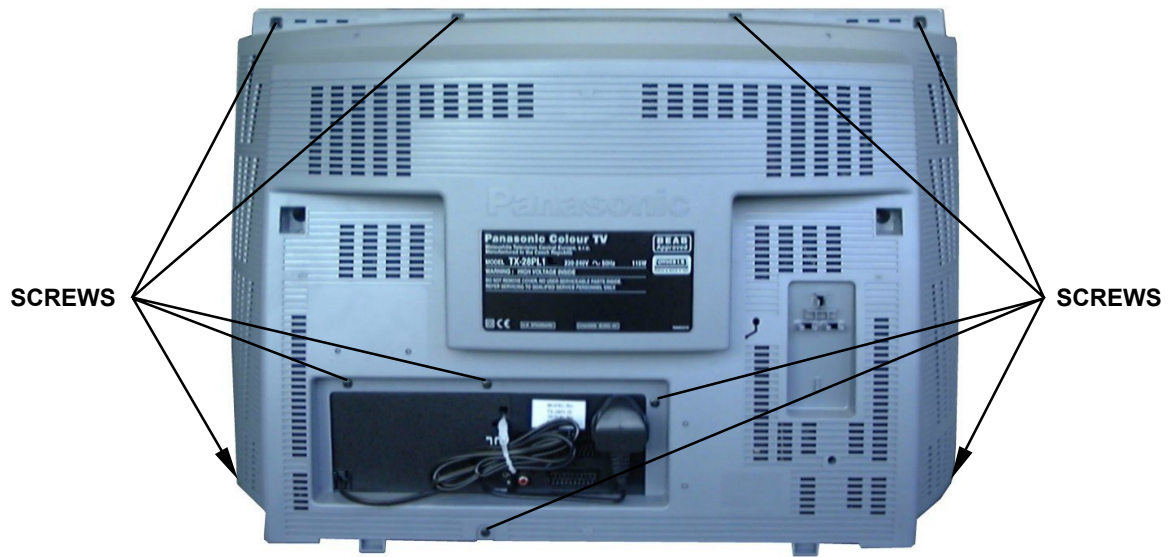


Fig. 2

LOCATION OF CONTROLS

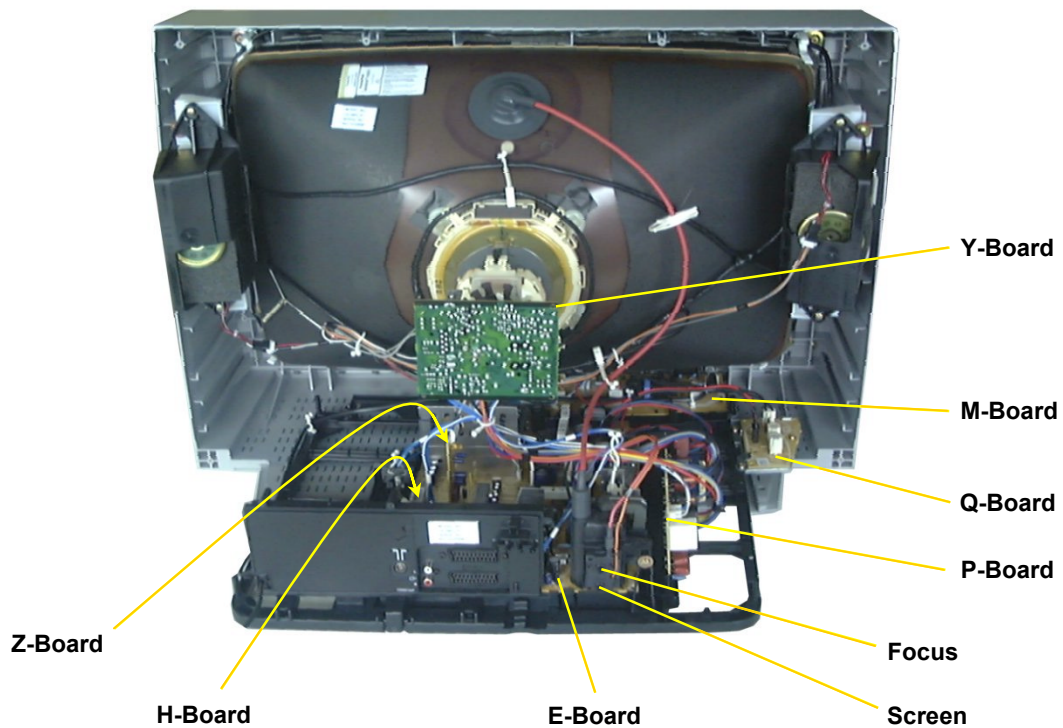
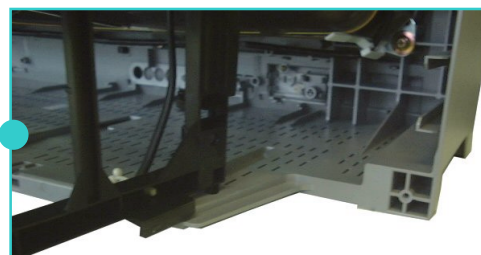
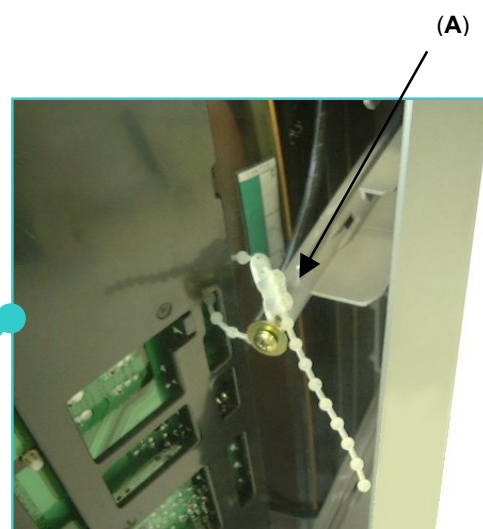
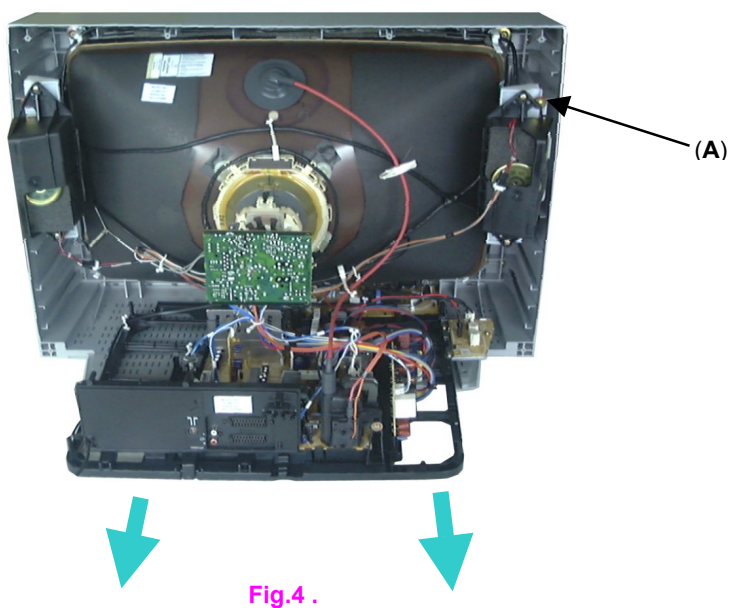


Fig. 3

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 .7. :
Using a speaker screw, screw the chassis frame into the top speaker fixing rib (A), as shown in Fig.5 .
Put the bottom of the chassis into Fig.6 position.
5. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.



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 style="width: 100%; border: none;"> <tr> <td style="width: 50%;">B2 148 ± 2V</td> <td style="width: 50%;">B10 5 ± 0,25V</td> </tr> <tr> <td>B9 5 ± 0,25V</td> <td>B11 33 ± 1,5V</td> </tr> <tr> <td>B5 12 ± 0,5V</td> <td>B7 8 ± 0,5V</td> </tr> <tr> <td>B4 15,5 ± 1V</td> <td>B8 5,5 ± 0,5V</td> </tr> <tr> <td>B12 26 ± 1V</td> <td>B13 13 ± 1V</td> </tr> <tr> <td>B3 36 ± 1,5V</td> <td>B14 -13 ± 1V</td> </tr> <tr> <td>B1 215 ± 10V</td> <td></td> </tr> </table>	B2 148 ± 2V	B10 5 ± 0,25V	B9 5 ± 0,25V	B11 33 ± 1,5V	B5 12 ± 0,5V	B7 8 ± 0,5V	B4 15,5 ± 1V	B8 5,5 ± 0,5V	B12 26 ± 1V	B13 13 ± 1V	B3 36 ± 1,5V	B14 -13 ± 1V	B1 215 ± 10V	
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B3 36 ± 1,5V	B14 -13 ± 1V														
B1 215 ± 10V															
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. Press " STR " and adjust "cutoff" value using the " Yellow " and " Blue " buttons until the black level is 160V +5V/-0V press " STR " 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 of 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.		
DPL	---		
OPTION 1	00		
OPTION 2	A1		
OPTION 3	82		
OPTION 4	60		
OPTION 5	B1		
OPTION 6	E9		

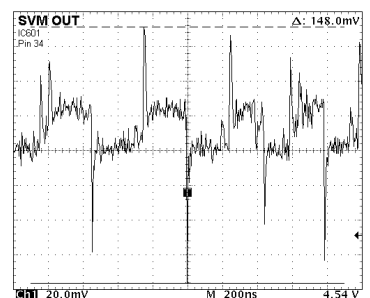
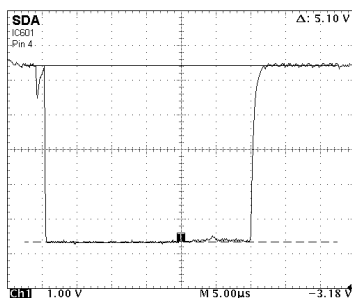
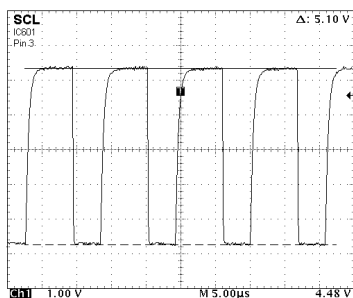
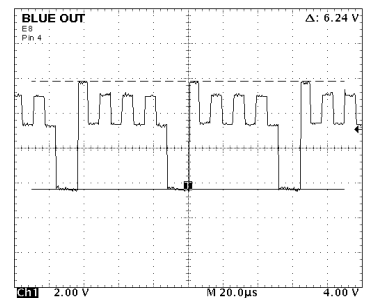
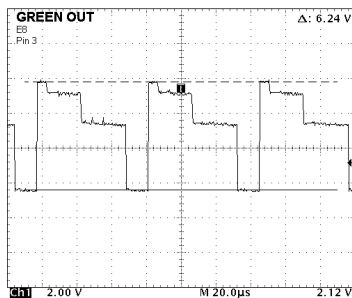
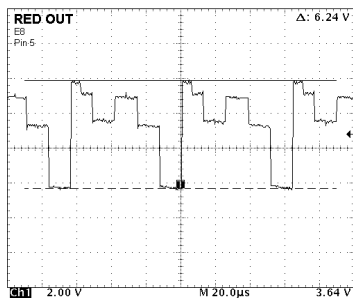
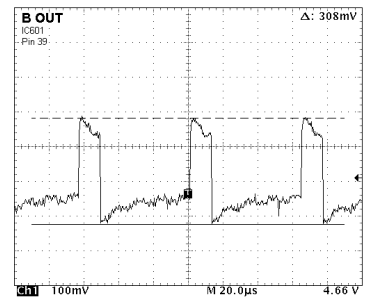
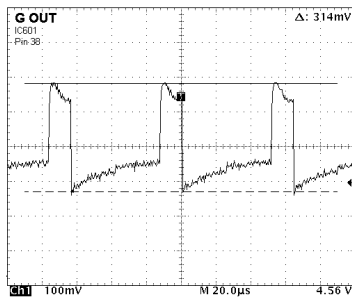
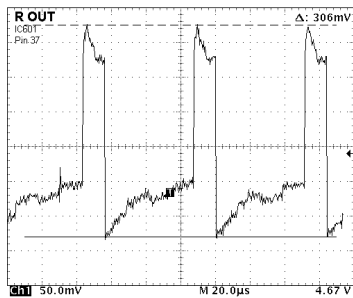
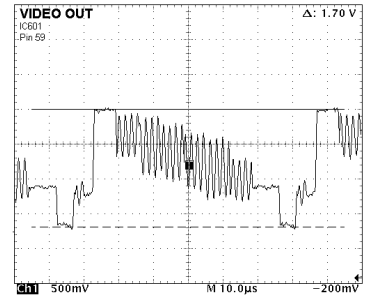
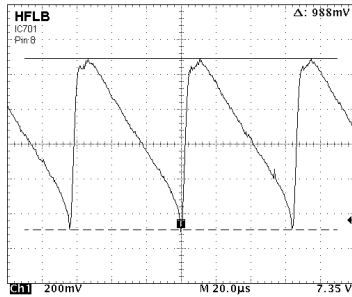
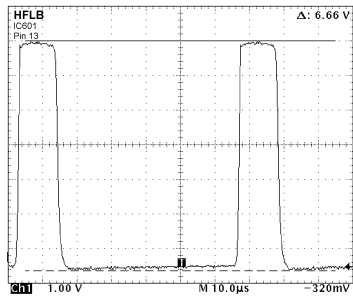
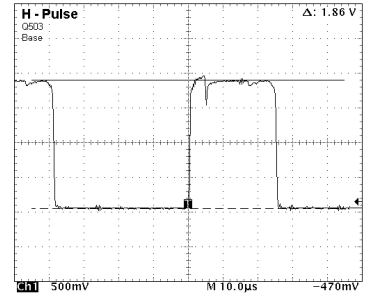
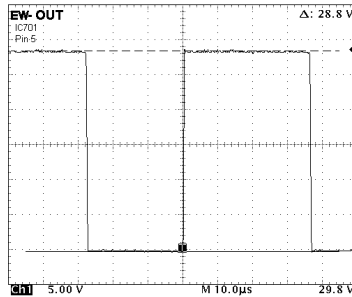
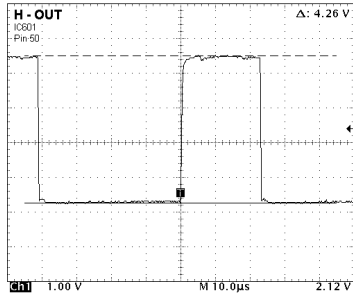
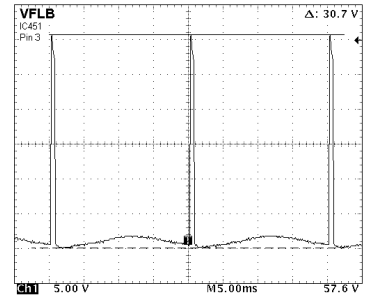
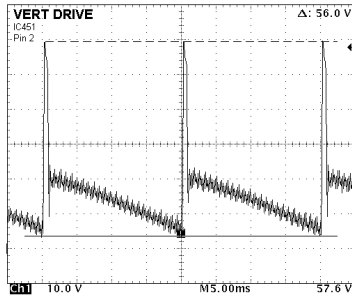
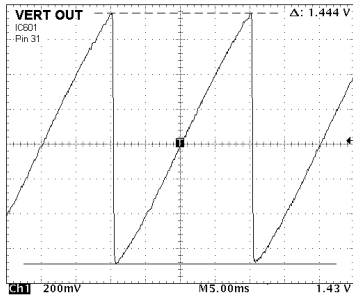
If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.".

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 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.

WAVEFORM PATTERN TABLE

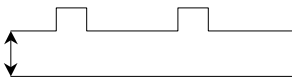


CONDITIONS: CONTRAST...MAX, BRIGHTNESS...MID, COLOUR...MID, SHARPNESS...MID

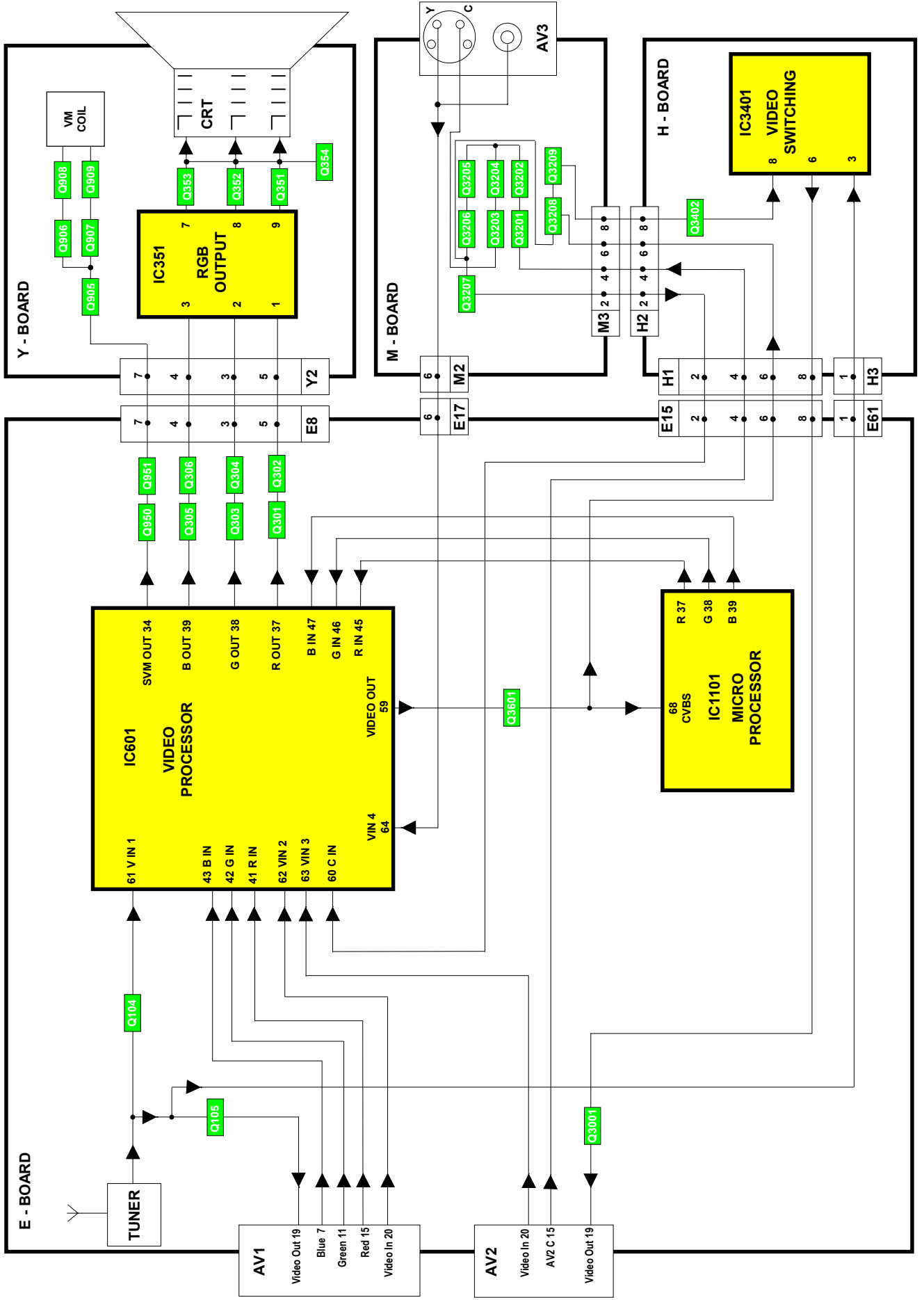
ALIGNMENT SETTINGS

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

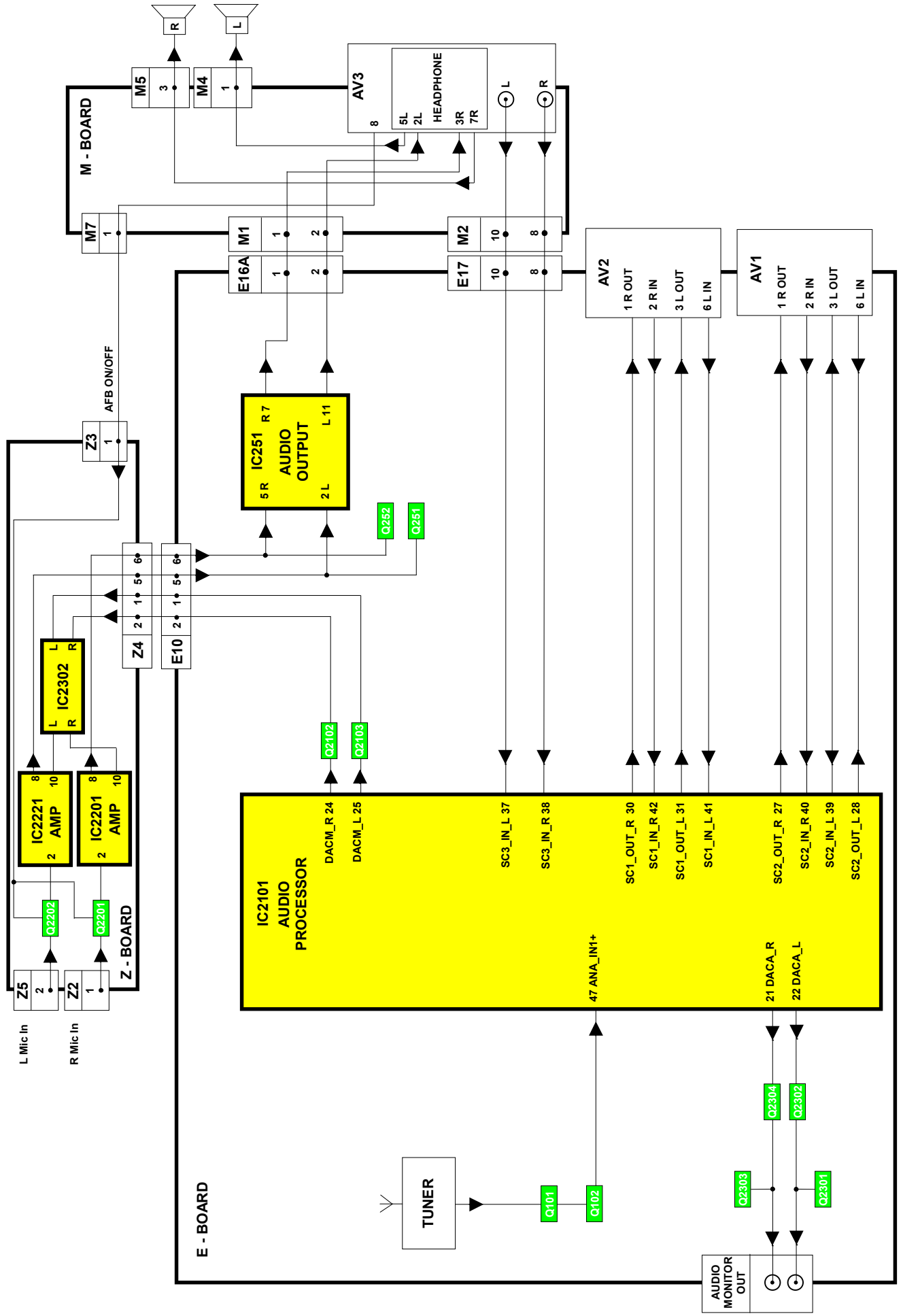
1. Set the Bass to maximum position, set the Treble to minimum position, set the Volume to minimum then press the down button (-V) on the customer controls at the front of the TV and at the same time press the **INDEX** button on the remote control, this will place the TV into the Service Mode.
2. Press 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-Amp 1 - 054	Optimum setting.
EW-amplitude	EW-Amp 2 006	Optimum setting.
Trapezium-comp	Trapez 1 047	Optimum setting.
Trapezium-comp	Trapez 2 - 004	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	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. Press "STR" and adjust "cutoff" value using the "Yellow" and "Blue" buttons until the black level is 160V +5V/-0V 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 055 O.K.	<p>Black Level</p> <p>160V+5V/-0V</p> <p>GND</p> 
Highlight Lowlight	High 0902 0777 0864 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 032	Optimum setting.

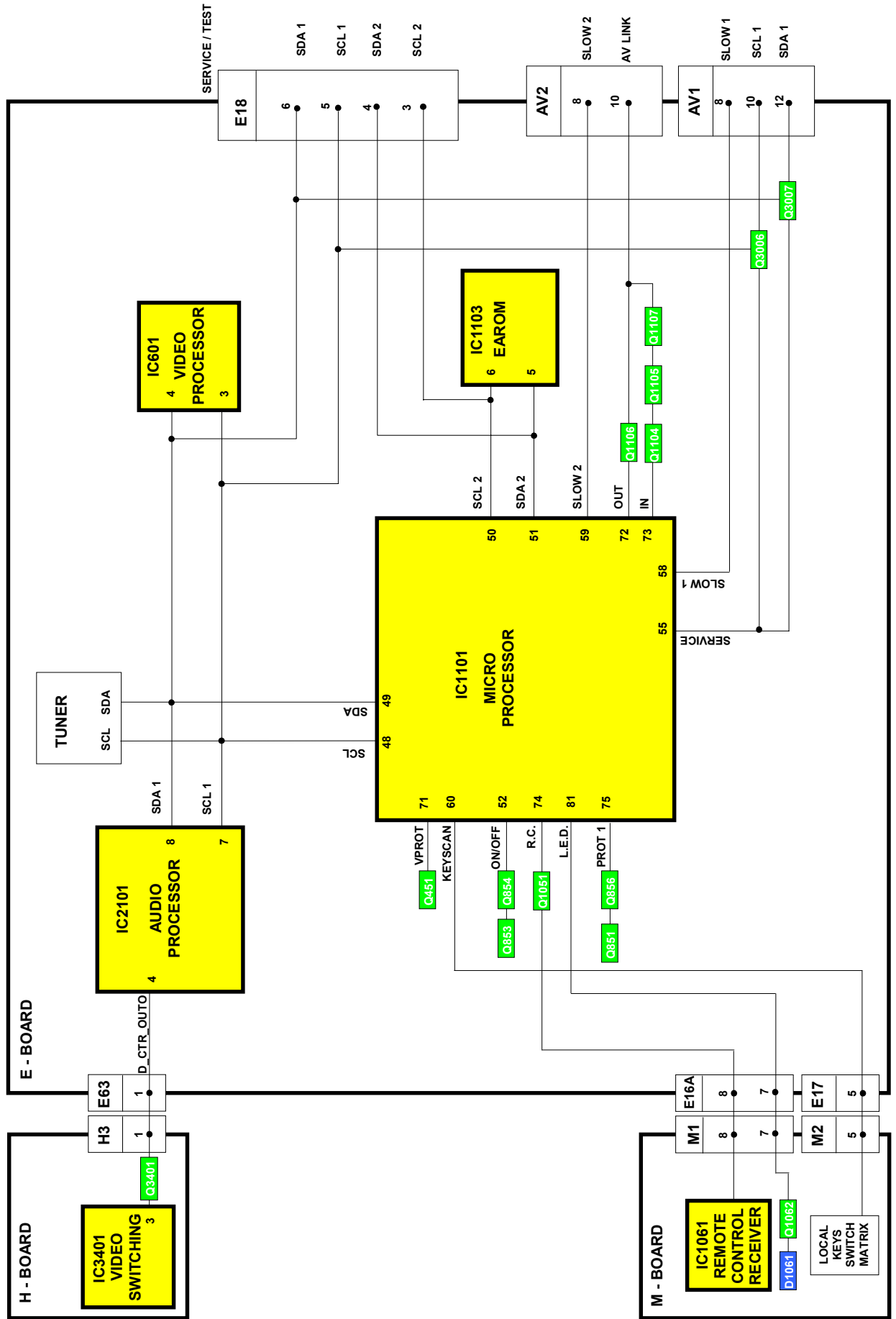
VIDEO BLOCK DIAGRAM



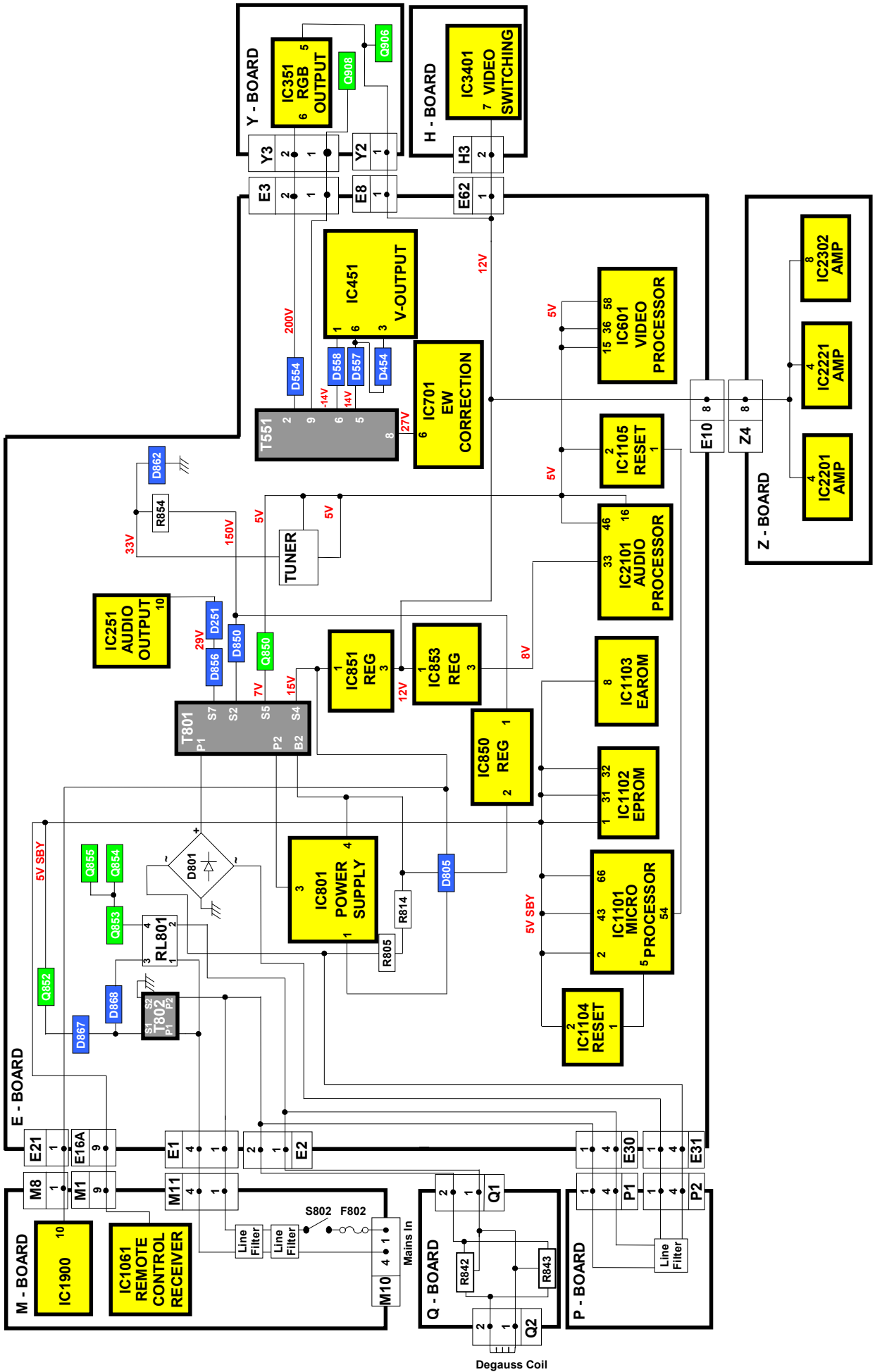
AUDIO BLOCK DIAGRAM



CONTROL BLOCK DIAGRAM



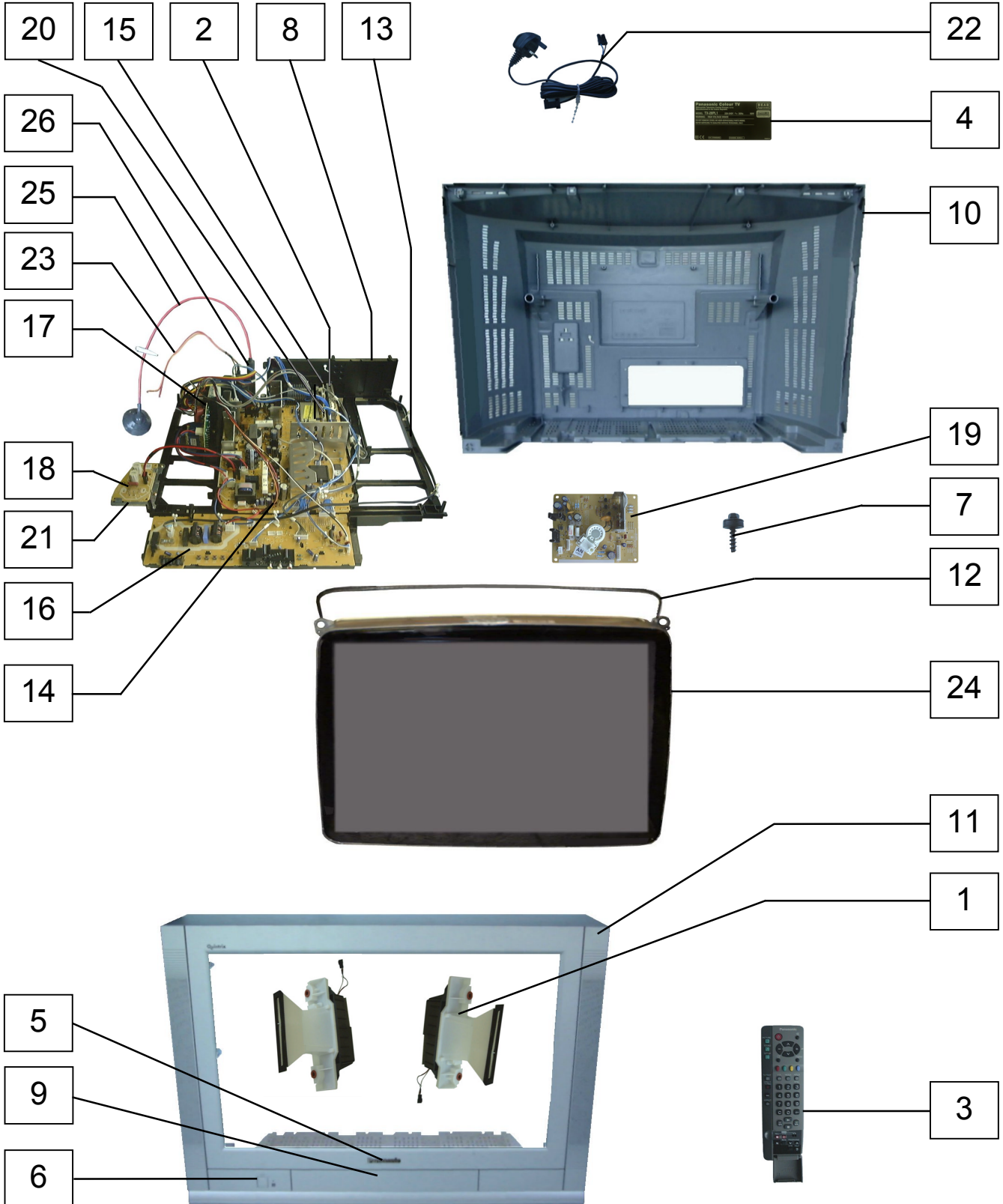
POWER SUPPLY BLOCK DIAGRAM



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
EXPLODED VIEW		
1	EABG12506C2	SPEAKER
2	ENG27514G	TUNER
3	EUR511210	REMOTE CONTROL
4	TBM8E2215	MODEL LABEL
5	TBMA060	PANASONIC BADGE
6	TBX8E089-2	POWER BUTTON
7	THT1062	CRT FIXING SCREW
8	TKP0E10101	REAR AV COVER
9	TKP8E1430	DOOR LID
10	TKU8E00682	BACK COVER 
11	TKY8E561-1	CABINET
12	TLK0E9006	DEGAUSS COIL 
13	TMX8E036-2	CHASSIS FRAME
14	TNP8EE009JB	E P.C.B. 
15	TNP8EH002AE	H P.C.B. 
16	TNP8EM025AT	M P.C.B. 
17	TNP8EP018AZ	P P.C.B. 
18	TNP8EQ002AH	Q P.C.B. 
19	TNP8EY012AW	Y P.C.B. 
20	TNP8EZ003AH	Z P.C.B. 
21	TUX8E053	METAL FRAME
22	TXASX01CTMG	AC CORD ASSY 
23	TXFJTF01BMTG	FOCUS LEAD ASSY 
24	W66EKT50X21	CRT 
25	ZTBZAD550A	ANODE CABLE 
26	ZTFM05006A	F.B.T. 
MISCELLANEOUS COMPONENTS		
.	R6RC/2P	BATTERY
.	TBLG3019	SET FOOT (FRONT)
.	TBLG3020	SET FOOT (REAR)
.	TBM8E2137	PRESET LABEL
.	TBM8E2138	PRESET LABEL
.	TEK6935	LID SWITCH
.	TES8E20	POWER BUTTON SPRING
.	TKK0E9501	SPEAKER REFLECTOR
.	TKP8E1370	SPEAKER PANEL L
.	TKP8E1375	SPEAKER PANEL P
.	TKP8E1380-1	BOTTOM PANEL L
.	TKP8E1393	BOTTOM PANEL R
.	TKP8E1431-1	LED COVER
.	TMK8E171	SPEAKER FOAM
.	TMMJ031	RUBBER DAMPER
.	TMW8E045-1	CONTROL BRACKET
.	TMW8E050	LED HOLDER
.	TPC8E4914	CARTON ASSY
.	TPD8E757	TOP CUSHION
.	TPD8E758	BOTTOM CUSHION
DEGC	TLK0E9008	ROTATION COIL
IC1101S	PCSZT-084A-1	IC SOCKET
INSTRUCTION BOOKS		
.	TQB8E3449	ENGLISH

Cct Ref	Parts Number	Description
I.C.s		
IC251	LA4282	AUDIO OUTPUT
IC351	TDA6103Q/N3	R.G.B. OUTPUT
IC451	LA7845N	VERTICAL OUTPUT
IC601	VDP3120BPPC2	VIDEO PROCESSOR
IC701	TEA2031A	E/W CORRECTION
IC801	STRF6654LF57	POWER SUPPLY
IC850	SE140NLF4	ERROR IC
IC851	AN78M12LB1	12V REGULATOR
IC853	AN78L08TA	8V REGULATOR
IC1061	RPM-6937	LED RECEIVER
IC1101	SDA5450C59	MICRO PROCESSOR
IC1102	M27C2000PC12	EPROM *
IC1103	BR24C16	EAROM
IC1104	MN1381-R(TA)	RESET
IC1105	MN1381-T(TA)	RESET
IC1900	LA6515	EARTH CORRECTION
IC2101	MSP3410DPOC5	AUDIO PROCESSOR
IC2201	AN6554NSF-E2	OPERATIONAL AMPLIFIER
IC2221	AN6554NSF-E2	OPERATIONAL AMPLIFIER
IC2302	BA15218F-E2	AMPLIFIER
IC3401	TEA2114	VIDEO SWITCHING
FUSES		
F802-2	EYF52BC	FUSE HOLDER
F802-1	EYF52BC	FUSE HOLDER
F802	S5055AC	FUSE 
DIODES		
D251	TYMD0002	DIODE
D253	MA700TA	DIODE
D254	MA700TA	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
D456	MTZJT-776.2A	DIODE
D457	1SS133T-77	DIODE
D501	1SS133T-77	DIODE
D502	1SR124-4AT82	DIODE
D511	MA4047MTA	DIODE
D552	RU3LFA1	DIODE
D553	1SR124-4AT82	DIODE
D554	1SR124-4AT82	DIODE
D556	1SS133T-77	DIODE

Cct Ref	Parts Number	Description
D557	EU02V0	DIODE
D558	1SR124-4AT82	DIODE
D580	ERD07-15L7	DIODE
D581	1SS133T-77	DIODE
D601	DAN217T146	DIODE
D603	DAN217T146	DIODE
D605	DAN212KT146	DIODE
D606	1SS133T-77	DIODE
D607	MA4051LTA	DIODE
D609	1SR124-4AT82	DIODE
D615	STZ6.2NT146	DIODE
D616	STZ6.2NT146	DIODE
D618	MTZJT-778.2C	DIODE
D701	1SS133T-77	DIODE
D702	MTZJT-775.1C	DIODE
D704	MA29T-BTA	DIODE
D705	MTZJT-775.6C	DIODE
D706	1SS355TE-17	DIODE
D801	RBV-608LF-B	DIODE
D803	1SR124-4AT82	DIODE
D804	1SR124-4AT82	DIODE
D805	SFH617A-20P6	PHOTO COUPLER
D806	1SR124-4AT82	DIODE
D807	1SS376TE-17	DIODE
D850	RU4BLF-L1	DIODE
D851	MTZJT-776.2B	DIODE
D852	1SS133T-77	DIODE
D853	TYMD0002	DIODE
D854	TVSRU2AMLFA1	DIODE
D855	FML22SLF610	DIODE
D856	RU4AMLF-M1	DIODE
D857	MTZJT-775.1B	DIODE
D858	1SS133T-77	DIODE
D859	1SS133T-77	DIODE
D861	1SS133T-77	DIODE
D862	MTZJT-7736A	DIODE
D863	1SS133T-77	DIODE
D865	1SS133T-77	DIODE
D866	1SS133T-77	DIODE
D867	EK06-V0	DIODE
D868	1N4150T-77	DIODE
D869	1N4150T-77	DIODE
D870	1SS133T-77	DIODE
D871	1N4150T-77	DIODE
D873	MTZJT-775.6C	DIODE
D874	1SR124-4AT82	DIODE
D875	BZX79A75A26A	DIODE
D901	1SS133T-77	DIODE
D902	1SS133T-77	DIODE
D904	1SS133T-77	DIODE
D905	1SS133T-77	DIODE
D906	RLS72TE-11	DIODE
D907	1SS133T-77	DIODE
D1055	MTZJT-775.1C	DIODE
D1061	SLR-56VR3F	LED
D1101	1SS133T-77	DIODE
D1102	1SS133T-77	DIODE
D1104	1SS133T-77	DIODE
D1105	1SS133T-77	DIODE
D2101	MA723TA5	DIODE
D2102	MA723TA5	DIODE
D2103	MA723TA5	DIODE
D2104	MA723TA5	DIODE
D2105	MTZJT-778.2C	DIODE
D2303	MA723TA5	DIODE
D2304	MA723TA5	DIODE

Cct Ref	Parts Number	Description
D3201	MTZJT-778.2C	DIODE
D3202	MTZJT-778.2C	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
Q301	BC847B	TRANSISTOR
Q302	FMY4AT148	TRANSISTOR
Q303	BC847B	TRANSISTOR
Q304	FMY4AT148	TRANSISTOR
Q305	BC847B	TRANSISTOR
Q306	FMY4AT148	TRANSISTOR
Q351	TYMQ0002	TRANSISTOR
Q352	TYMQ0002	TRANSISTOR
Q353	TYMQ0002	TRANSISTOR
Q354	BC857B	TRANSISTOR
Q451	BC857B	TRANSISTOR
Q503	2SD2398	TRANSISTOR
Q551	2SD2553LBMA	TRANSISTOR
Q552	2SC1473ATA	TRANSISTOR
Q580	BC547B/126	TRANSISTOR
Q701	BC857B	TRANSISTOR
Q850	2SD2396/K	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
Q950	BC847B	TRANSISTOR
Q951	FMY4AT148	TRANSISTOR
Q1051	BC847B	TRANSISTOR
Q1062	BC847B	TRANSISTOR
Q1101	BC847B	TRANSISTOR
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q1900	BC847B	TRANSISTOR
Q2101	BC857B	TRANSISTOR
Q2102	BC857B	TRANSISTOR
Q2103	BC857B	TRANSISTOR
Q2201	BC847B	TRANSISTOR
Q2202	BC847B	TRANSISTOR
Q2301	BC847B	TRANSISTOR
Q2302	BC857B	TRANSISTOR
Q2303	BC847B	TRANSISTOR
Q2304	BC857B	TRANSISTOR
Q3001	BC847B	TRANSISTOR
Q3006	BC847B	TRANSISTOR
Q3007	BC847B	TRANSISTOR
Q3201	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description
Q3202	BC847B	TRANSISTOR
Q3203	BC857B	TRANSISTOR
Q3204	BC857B	TRANSISTOR
Q3205	BC847B	TRANSISTOR
Q3206	BC847B	TRANSISTOR
Q3207	BC847B	TRANSISTOR
Q3208	BC847B	TRANSISTOR
Q3209	BC847B	TRANSISTOR
Q3401	BC847B	TRANSISTOR
Q3402	BC847B	TRANSISTOR
Q3601	BC847B	TRANSISTOR
TRANSFORMERS		
T501	ETH19Y173AY	TRANSFORMER
T801	ETS42AE2F6AD	TRANSFORMER
T802	ETP35KAN619U	TRANSFORMER
COILS		
JA11	ELJFC2R2KF	COIL
L104	EXCELSA35T	COIL
L106	TLTACT100K	COIL
L107	TLTACT6R8K	COIL
L301	TLTACT4R7K	COIL
L302	TLTACT4R7K	COIL
L451	EXCELSA35T	COIL
L501	EXCELSA35T	COIL
L580	ELC08D682E	COIL
L581	ELHKLBO69B	COIL
L582	ELC18B681F	COIL
L584	ELH5L6124	COIL
L585	ELC18B121L	COIL
L601	TLTACT4R7K	COIL
L602	TLTACT4R7K	COIL
L603	TLTACT4R7K	COIL
L604	TLTACT4R7K	COIL
L606	TLTACT4R7K	COIL
L607	ELJFC2R2KF	COIL
L701	ELC10D682E	COIL
L807	ETQR42T005A	COIL
L850	EXCELSA35T	COIL
L851	EXCELSA35T	COIL
L852	ELEIE470KA	COIL
L855	EXCELSA35T	COIL
L856	EXCELSA39E	COIL
L901	EXCELSA24T	COIL
L902	EXCELSA24T	COIL
L1061	TLT331K991R	COIL
L1103	TLTACT100K	COIL
L1104	EXCELSA35T	COIL
L1105	ELJFC2R2KF	COIL
L1900	EXCELD25V	COIL
L2101	TLTACT100K	COIL
L2103	EXCELSA35T	COIL
L2104	TLTACT4R7K	COIL
L2202	ELESN2R2KA	COIL
L2222	ELESN2R2KA	COIL
L3001	ELEMV1 R5MA	COIL
L3002	ELEMV1 R5MA	COIL
L3003	ELEMV1 R5MA	COIL
L3004	ELEMV1 R5MA	COIL
L3005	ELEBR2R2KA	COIL
L3006	ELEBR2R2KA	COIL
L3007	TLTACT2R2K	COIL
L3201	ELEBR6R8KA	COIL
L3202	ELEBR6R8KA	COIL
L3203	TLT390K991R	COIL
L3204	TLT331K991R	COIL
L3401	ELESN2R2KA	COIL

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Cct Ref	Parts Number	Description
L3402	ELESN2R2KA	COIL
FILTERS		
L1901	ELF18N012A	LINE FILTER
L1902	ELF18N012A	LINE FILTER
CRYSTALS		
X601	4730007267	CRYSTAL
X1101	A1060006AD	CRYSTAL
X2101	4730007158	CRYSTAL
RESISTORS		
C101	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
C2214	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
C2234	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA1	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA1	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA2	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA2	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA3	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA4	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA5	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA5	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA6	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA7	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA8	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA8	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA9	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA10	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA10	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA11	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA12	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA13	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA13	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA14	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA15	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA16	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA17	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA18	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA19	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA20	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA21	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA22	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA23	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA25	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA26	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA27	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA28	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA29	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA30	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA31	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA32	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA33	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA34	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA35	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA36	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA37	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA38	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA39	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA40	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA43	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA44	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA45	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA46	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω
JA47	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA48	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA49	ERJ6GEY0R00V	S.M.CARB 0.1W 5% 0 Ω
JA50	ERJ8GEY0R00V	S.M.CARB 0.125 5% 0 Ω

Cct Ref	Parts Number	Description				
JA51	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω	
JA52	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JA53	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω	
JA54	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JA55	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JA56	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω	
JA57	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JA58	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JA59	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω	
JA60	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JA61	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω	
JSE10	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JSE12	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JSE18	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JSE22	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JSE26	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JSE33	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JSE35	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JSE42	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JSE48	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JSE49	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω	
JSM7	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JSM8	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
JSM10	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
L1106	ERJ8GEY0R00V	S.M.CARB	0.125	5%	0 Ω	
R101	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R102	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R103	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω	
R104	ERJ6GEYJ332V	S.M.CARB	0.1W	5%	3K3 Ω	
R105	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R106	ERJ6GEYJ681V	S.M.CARB	0.1W	5%	680 Ω	
R107	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R111	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	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	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R121	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R251	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R252	ERJ6GEYJ152V	S.M.CARB	0.1W	5%	1K5 Ω	
R253	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R254	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R255	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R256	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R257	ERJ6GEYJ330V	S.M.CARB	0.1W	5%	33 Ω	
R258	ERJ6GEYJ152V	S.M.CARB	0.1W	5%	1K5 Ω	
R259	ERJ6GEYJ330V	S.M.CARB	0.1W	5%	33 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	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω	
R264	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R265	ERDS2TJ2R2T	CARBON	0.25W	5%	2R2 Ω	
R266	ERDS2TJ2R2T	CARBON	0.25W	5%	2R2 Ω	
R267	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω	
R268	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R269	ERQ14AJ101P	METAL	0.25W	5%	100 Ω	
R271	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R272	ERF7ZK4R7	WOUND	7W	10%	4R7 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	

Cct Ref	Parts Number	Description				
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	
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	ERQ12HKR22P	FUSIBLE	0.5W	10%	R22 Ω	
R378	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R379	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R380	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R381	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω	
R451	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R452	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R453	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R454	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R455	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R456	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R457	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R458	ERDS2TJ1R5T	CARBON	0.25W	5%	1R5 Ω	
R459	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R460	ERDS1TJ221T	CARBON	0.5W	5%	220 Ω	
R461	ERX2FJ1R0H	METAL	2W	5%	1 Ω	
R463	ERDS2TJ102T	CARBON	0.25W	5%	1K Ω	
R464	ERJ6GEYJ182V	S.M.CARB	0.1W	5%	1K8 Ω	
R465	ERJ6GEYJ221V	S.M.CARB	0.1W	5%	220 Ω	
R502	ERJ6GEYJ511V	S.M.CARB	0.1W	5%	510 Ω	
R506	ERDS2TJ560T	CARBON	0.25W	5%	56 Ω	
R507	ERG2FJ820H	METAL	2W	5%	82 Ω	
R509	ERDS1TJ152T	CARBON	0.5W	5%	1K5 Ω	
R510	ERDS1FJ152P	CARBON	0.5W	5%	1K5 Ω	
R551	ERX2SJSR47H	METAL	2W	5%	R47 Ω	
R555	ERQ12HKR33P	FUSIBLE	0.5W	10%	R33 Ω	
R558	ERDS1TJ124T	CARBON	0.5W	5%	120K Ω	
R559	ERQ12HKR33P	FUSIBLE	0.5W	10%	R33 Ω	
R560	ERJ6GEYJ274V	S.M.CARB	0.1W	5%	270K Ω	
R561	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R563	ERJ6GEYJ564V	S.M.CARB	0.1W	5%	560K Ω	
R564	ERJ6GEYJ623V	S.M.CARB	0.1W	5%	62K Ω	
R566	ERJ6GEYJ563V	S.M.CARB	0.1W	5%	56K Ω	
R567	ERF7ZK2R7	WOUND	7W	20%	2R7 Ω	
R580	ERG1SJ101E	METAL	1W	5%	100 Ω	
R581	ERG1SJ152E	METAL	1W	5%	1K5 Ω	

Cct Ref	Parts Number	Description				
R583	ERG1SJ152E	METAL	1W	5%	1K5 Ω	
R585	ERG3FJ102H	METAL	3W	5%	1K Ω	
R586	ERDS2TJ682T	CARBON	0.25W	5%	6K8 Ω	
R587	ERDS2TJ472T	CARBON	0.25W	5%	4K7 Ω	
R588	ERDS2TJ222T	CARBON	0.5W	5%	2K2 Ω	
R589	ERDS1TJ680T	CARBON	0.5W	5%	68 Ω	
R601	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R602	ERJ6GEYJ821V	S.M.CARB	0.1W	5%	820 Ω	
R603	ERJ8GEYJ103V	S.M.CARB	0.125	5%	10K Ω	
R604	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 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	5%	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	
R615	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R622	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R636	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R645	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R647	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R648	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R650	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R651	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R652	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R653	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K 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	5%	0 Ω	
R660	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R701	ERQ12AJ101P	FUSIBLE	0.5W	5%	100 Ω	
R702	ERQ12HJ8R2P	FUSIBLE	0.5W	5%	8R2 Ω	
R703	ERG2FJ821H	METAL	2W	5%	820 Ω	
R704	ERJ6GEYJ563V	S.M.CARB	0.1W	5%	56K Ω	
R705	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K 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	
R803	ERC12ZGK335V	SOLID	0.5W	10%	3M3 Ω	△
R805	ERD25TJ473T	CARBON	0.25W	5%	47K Ω	
R806	ERD25TJ100T	CARBON	0.25W	5%	10 Ω	
R807	ERD25TJ332T	CARBON	0.25W	5%	3K3 Ω	
R809	ERD25TJ681T	CARBON	0.25W	5%	680 Ω	
R810	ERW2PKR27P	WOUND	2W	10%	R27 Ω	
R811	ERW2PKR27P	WOUND	2W	10%	R27 Ω	
R812	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω	△
R813	ERF7ZK2R7	WOUND	7W	20%	2R7 Ω	
R814	ERD25TJ473T	CARBON	0.25W	5%	47K Ω	
R815	ERD25TJ222T	CARBON	0.25W	5%	2K2 Ω	
R817	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R850	ERD25TJ122T	CARBON	0.25W	5%	1K2 Ω	
R852	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R853	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R854	ERG2FJ223H	METAL	2W	5%	22K Ω	
R855	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω	
R857	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω	
R858	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω	
R859	ERJ6GEYJ753V	S.M.CARB	0.1W	5%	75K Ω	

Cct Ref	Parts Number	Description				
R860	ERQ1CJP2R2S	FUSIBLE	1W	5%	2R2 Ω	
R861	ERDS2TJ221T	CARBON	0.5W	5%	220 Ω	
R862	ERDS2TJ272T	CARBON	0.25W	5%	2K7 Ω	
R863	ERDS1TJ560T	CARBON	0.5W	5%	56 Ω	
R864	ERDS1TJ181T	CARBON	0.5W	5%	180 Ω	
R865	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R867	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R868	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R869	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R870	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω	
R871	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R872	ERG1SJ183P	METAL	1W	5%	18K Ω	
R873	ERG1SJ223P	METAL	1W	5%	22K Ω	
R874	ERJ6GEYJ204V	S.M.CARB	0.1W	5%	200K Ω	
R876	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R877	ERW2PKR47P	WOUND	2W	10%	R47 Ω	
R878	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K 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	5%	0 Ω	
R926	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	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	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω	
R1051	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R1062	ERJ6GEYJ271V	S.M.CARB	0.1W	5%	270 Ω	
R1063	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1101	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1102	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R1103	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω	
R1104	ERJ6GEYJ331V	S.M.CARB	0.1W	5%	330 Ω	
R1105	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1106	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K 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	
R1111	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω	
R1112	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω	
R1113	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1114	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1115	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 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	
R1123	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1125	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	

Cct Ref	Parts Number	Description				
R1126	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1127	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1128	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω	
R1129	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω	
R1130	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1131	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1132	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1133	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω	
R1136	ERJ6GEYJ273V	S.M.CARB	0.1W	5%	27K Ω	
R1137	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R1138	ERJ6GEYJ105V	S.M.CARB	0.1W	5%	1M Ω	
R1139	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R1140	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R1141	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 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	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1149	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R1151	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1152	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1156	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1157	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1158	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R1159	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R1160	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R1161	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1163	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R1164	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R1165	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R1166	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	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	5%	0 Ω	
R1180	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R1190	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 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	
R1900	ERQ12HJ150P	FUSIBLE	0.5W	5%	15 Ω	
R1901	ERJ6GEYJ273V	S.M.CARB	0.1W	5%	27K Ω	
R1902	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω	
R1903	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1904	ERDS1TJ2R2T	CARBON	0.5W	5%	2R2 Ω	
R1905	ERJ6GEYJ753V	S.M.CARB	0.1W	5%	75K Ω	
R1906	ERJ6GEYJ753V	S.M.CARB	0.1W	5%	75K Ω	
R1907	ERJ6GEYJ753V	S.M.CARB	0.1W	5%	75K Ω	
R1908	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R1909	ERDS1TJ2R2T	CARBON	0.5W	5%	2R2 Ω	
R1910	ERDS1TJ8R2T	CARBON	0.5W	5%	8R2 Ω	
R1911	ERDS1TJ8R2T	CARBON	0.5W	5%	8R2 Ω	
R1912	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω	△
R1913	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R1914	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K 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	

Cct Ref	Parts Number	Description				
R2109	ERJ6GEYJ183V	S.M.CARB	0.1W	5%	18K Ω	
R2110	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	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	
R2200	ERJ6GEYJ183V	S.M.CARB	0.1W	5%	18K Ω	
R2201	ERJ6GEYJ393V	S.M.CARB	0.1W	5%	39K Ω	
R2202	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2203	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2204	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω	
R2206	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω	
R2207	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω	
R2208	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2209	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2210	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω	
R2211	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω	
R2212	ERJ6GEYJ224V	S.M.CARB	0.1W	5%	220K Ω	
R2213	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2214	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2215	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R2216	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω	
R2217	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R2218	ERJ6GEYJ221V	S.M.CARB	0.1W	5%	220 Ω	
R2219	ERJ6GEYJ222V	S.M.CARB	0.1W	5%	2K2 Ω	
R2220	ERJ6GEYJ183V	S.M.CARB	0.1W	5%	18K Ω	
R2221	ERJ6GEYJ393V	S.M.CARB	0.1W	5%	39K Ω	
R2222	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2223	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2224	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω	
R2226	ERJ6GEYJ272V	S.M.CARB	0.1W	5%	2K7 Ω	
R2227	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω	
R2228	ERJ6GEYJ154V	S.M.CARB	0.1W	5%	150K Ω	
R2229	ERJ6GEYJ221V	S.M.CARB	0.1W	5%	220 Ω	
R2230	ERJ6GEYJ822V	S.M.CARB	0.1W	5%	8K2 Ω	
R2231	ERJ6GEYJ682V	S.M.CARB	0.1W	5%	6K8 Ω	
R2232	ERJ6GEYJ224V	S.M.CARB	0.1W	5%	220K Ω	
R2233	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2234	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2235	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R2236	ERJ6GEYJ471V	S.M.CARB	0.1W	5%	470 Ω	
R2237	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2238	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R2239	ERJ6GEYJ154V	S.M.CARB	0.1W	5%	150K Ω	
R2240	ERJ6GEYJ473V	S.M.CARB	0.1W	5%	47K Ω	
R2241	ERJ6GEYJ220V	S.M.CARB	0.1W	5%	22 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	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K 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	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K 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	

Cct Ref	Parts Number	Description				
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	
R3023	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω	
R3024	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R3025	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R3026	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R3044	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 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	
R3202	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω	
R3203	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω	
R3204	ERG2FJ221H	METAL	2W	5%	220 Ω	
R3205	ERG2FJ221H	METAL	2W	5%	220 Ω	
R3207	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3208	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R3209	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3210	ERJ6GEYJ153V	S.M.CARB	0.1W	5%	15K Ω	
R3211	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R3212	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R3213	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R3214	ERJ6GEYJ683V	S.M.CARB	0.1W	5%	68K Ω	
R3215	ERJ6GEYJ302V	S.M.CARB	0.1W	5%	3K Ω	
R3216	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R3217	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R3218	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R3219	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R3220	ERJ6GEYJ683V	S.M.CARB	0.1W	5%	68K Ω	
R3221	ERJ6GEYJ302V	S.M.CARB	0.1W	5%	3K Ω	
R3222	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R3223	ERJ6GEYJ223V	S.M.CARB	0.1W	5%	22K Ω	
R3224	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R3225	ERJ6GEYJ683V	S.M.CARB	0.1W	5%	68K Ω	
R3226	ERJ6GEYJ302V	S.M.CARB	0.1W	5%	3K Ω	
R3227	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R3228	ERJ6GEYJ273V	S.M.CARB	0.1W	5%	27K Ω	
R3229	ERJ6GEYJ103V	S.M.CARB	0.1W	5%	10K Ω	
R3230	ERJ6GEYJ302V	S.M.CARB	0.1W	5%	3K Ω	
R3231	ERJ6GEYJ122V	S.M.CARB	0.1W	5%	1K2 Ω	
R3232	ERJ6GEYJ242V	S.M.CARB	0.1W	5%	2K4 Ω	
R3233	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω	
R3234	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R3402	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R3403	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3404	ERJ6GEYJ242V	S.M.CARB	0.1W	5%	2K4 Ω	
R3405	ERJ6GEYJ104V	S.M.CARB	0.1W	5%	100K Ω	
R3406	ERJ6GEYJ301V	S.M.CARB	0.1W	5%	300 Ω	

Cct Ref	Parts Number	Description				
R3407	ERJ6GEYJ123V	S.M.CARB	0.1W	5%	12K Ω	
R3408	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R3409	ERJ6GEYJ750V	S.M.CARB	0.1W	5%	75 Ω	
R3601	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3602	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3603	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3604	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3605	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3606	ERJ6GEYJ101V	S.M.CARB	0.1W	5%	100 Ω	
R3607	ERJ6GEYJ472V	S.M.CARB	0.1W	5%	4K7 Ω	
R3608	ERJ6GEYJ752V	S.M.CARB	0.1W	5%	7K5 Ω	
R3609	ERJ6GEY0R00V	S.M.CARB	0.1W	5%	0 Ω	
R3610	ERJ6GEYJ102V	S.M.CARB	0.1W	5%	1K Ω	
R3613	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω	
R3614	ERJ6GEYJ391V	S.M.CARB	0.1W	5%	390 Ω	
CAPACITORS						
C102	ECJ2VF1H103Z	S.M.CAP	50V		10nF	
C103	ECJ2VF1H104Z	S.M.CAP	50V		100nF	
C106	ECUV1H560JCX	S.M. CAP	50V		56pF	
C107	ECJ2VF1H104Z	S.M.CAP	50V		100nF	
C108	ECA1CM100B	ELECT	16V		10μF	
C109	ECUV1H102JCX	S.M. CAP	50V		1nF	
C110	ECJ2VF1H103Z	S.M.CAP	50V		10nF	
C111	ECA1HMR33B	ELECT	50V		330nF	
C117	ECJ2VF1H103Z	S.M.CAP	50V		10nF	
C118	ECJ2VF1H104Z	S.M.CAP	50V		100nF	
C119	ECA1CM221B	ELECT	16V		220μF	
C120	ECA1CM221B	ELECT	16V		220μF	
C121	ECUV1H561KBX	S.M. CAP	50V		560pF	
C124	ECUV1H220JCX	S.M. CAP	50V		22pF	
C125	ECUV1H100DCX	S.M. CAP	50V		10pF	
C251	ECA1CM100B	ELECT	16V		10μF	
C252	ECJ2VB1H103K	S.M.CAP	50V		10nF	
C253	ECA1HM4R7B	ELECT	50V		4.7μF	
C254	ECQV1H274JL3	FILM	50V		270nF	
C255	ECA1EM101B	ELECT	25V		100μF	
C256	ECJ2VB1H103K	S.M.CAP	50V		10nF	
C257	ECA1HM4R7B	ELECT	50V		4.7μF	
C258	ECA1CM100B	ELECT	16V		10μF	
C259	ECQV1H274JL3	FILM	50V		270nF	
C260	ECA1VM102B	ELECT	35V		1000μF	
C261	ECA1VM102B	ELECT	35V		1000μF	
C262	ECEA1HN2R2SB	ELECT	50V		2.2μF	
C263	ECA1HM010B	ELECT	50V		1μF	
C264	ECA1HHG222E	ELECT	50V		2200μF	
C265	ECEA1HN2R2SB	ELECT	50V		2.2μF	
C266	ECA1HM010B	ELECT	50V		1μF	
C267	ECJ2YB1H104K	S.M.CAP	50V		100nF	
C268	ECJ2YB1H104K	S.M.CAP	50V		100nF	
C270	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	ECA1CM100B	ELECT	16V		10μF	
C351	ECUV1H090DCX	S.M. CAP	50V		9pF	
C352	ECUV1H090DCX	S.M. CAP	50V		9pF	
C353	ECUV1H090DCX	S.M. CAP	50V		9pF	
C354	ECQE2104KF3	FILM	250V		100nF	
C355	ECUV1H222JCX	S.M. CAP	50V		2.2nF	
C356	ECUV1H222JCX	S.M. CAP	50V		2.2nF	
C357	ECUV1H222JCX	S.M. CAP	50V		2.2nF	
C358	ECQV1H224JL3	FILM	50V		220nF	
C360	ECKW3D152KBN	CERAMIC	2KV		1.5nF	
C361	ECA1HMR47B	ELECT	50V		470nF	
C363	ECA1VM471B	ELECT	35V		470μF	
C364	ECJ2VF1H103Z	S.M.CAP	50V		10nF	

Cct Ref	Parts Number	Description			
C366	ECA1CM100B	ELECT	16V	10µF	
C451	ECUV1H102JCX	S.M. CAP	50V	1nF	
C453	ECUV1H152K BX	S.M. CAP	50V	1.5pF	
C454	ECUV1H223KBM	S.M. CAP	50V	22nF	
C455	ECA1HM100B	ELECT	50V	10µF	
C456	ECA1HHG221B	ELECT	50V	220µF	
C458	ECQB1222JF3	FILM	100V	2.2nF	
C459	222236516154	FILM	160V	150nF	
C461	ECCR2H270J5	CERAMIC	500V	27pF	
C508	ECQV1H105JM3	FILM	50V	27pF	
C509	SMG1VV470MT5	ELECT	35V	47µF	
C510	ECJ2YB1H104K	S.M.CAP	50V	100nF	
C511	ECQE2683KFW	FILM	250V	68nF	
C551	ECKW3D152JBN	CERAMIC	2kV	1.5nF	
C552	ECWH20102JVY	FILM	2KV	1µF	
C556	ECQF4393JZH	FILM	400V	39nF	
C557	ECKR2H471KB5	CERAMIC	500V	470pF	
C558	ECA1HHG471B	ELECT	50V	470µF	
C561	ECA1EHG102B	ELECT	25V	1000µF	
C562	ECKR2H101KB5	CERAMIC	500V	100pF	
C563	ECA2EHG220B	ELECT	250V	20µF	
C564	ECEA2AN2R2SB	ELECT	100V	2.2µF	
C565	ECQP1H273JZW	FILM	50V	27nF	
C566	ECKR2H471KB5	CERAMIC	500V	470pF	
C567	ECA1EHG102B	ELECT	25V	1000µF	
C568	ECKR2H471KB5	CERAMIC	500V	470pF	
C569	ECKR2H102KB5	CERAMIC	500V	1nF	
C580	ECA2VM010B	ELECT	350V	1µF	
C581	ECWF2824JBB	FILM	250V	820nF	
C582	ECWF2394N251	FILM	200V	390nF	
C583	ECWH20682JVD	FILM	2KV	6.8nF	
C584	ECWH20682JVD	FILM	2KV	6.8nF	
C585	ECQB1H103JF3	FILM	50V	10nF	
C586	ECWF2224JBB	FILM	250V	220nF	
C601	ECJ2YB1H104K	S.M.CAP	50V	100nF	
C602	SMG1CV101MT5	ELECT	16V	100µF	
C603	ECUV1H102JCX	S.M. CAP	50V	1nF	
C604	ECJ2VF1H223Z	S.M.CAP	50V	22nF	
C605	SMG1CV101MT5	ELECT	16V	100µF	
C606	ECA1HM3R3B	ELECT	50V	3.3µF	
C607	ECJ2VF1H104Z	S.M.CAP	50V	100nF	
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	ECUV1H050CCX	S.M. CAP	50V	50pF	
C615	ECUV1H050CCX	S.M. CAP	50V	50pF	
C616	SMG1CV101MT5	ELECT	16V	100µF	
C617	ECJ2VB1H223K	S.M.CAP	50V	22nF	
C618	ECA1CM221B	ELECT	16V	220µF	
C619	ECJ2YB1H473K	S.M.CAP	50V	47nF	
C620	SMG1CV101MT5	ELECT	16V	100µF	
C621	ECJ2VB1C104K	S.M.CAP	16V	100nF	
C622	ECJ2YB1H683K	S.M.CAP	50V	68nF	
C623	ECUV1H102JCX	S.M. CAP	50V	1nF	
C624	ECJ3VB1C474K	S.M.CAP	16V	470nF	
C625	ECJ3VB1C474K	S.M.CAP	16V	470nF	
C626	ECJ3VB1C474K	S.M.CAP	16V	470nF	
C627	ECJ3VB1C474K	S.M.CAP	16V	470nF	
C628	ECA1CM100B	ELECT	16V	10µF	
C629	ECJ2YB1H104K	S.M.CAP	50V	100nF	
C630	ECUV1H100DCX	S.M. CAP	50V	10pF	
C631	ECJ2VF1H683Z	S.M.CAP	50V	68nF	
C633	ECUV1H271JCX	S.M. CAP	50V	270pF	

Cct Ref	Parts Number	Description			
C634	ECUV1H271JCX	S.M. CAP	50V	270pF	
C635	ECUV1H180JCX	S.M. CAP	50V	18pF	
C636	ECUV1H271JCX	S.M. CAP	50V	270pF	
C637	ECUV1H101JCX	S.M. CAP	50V	100pF	
C638	ECUV1H471JCX	S.M. CAP	50V	470pF	
C639	ECUV1H332KBM	S.M. CAP	50V	3.3nF	
C640	ECKR2H391KB5	CERAMIC	500V	390pF	
C701	ECA1HHG101B	ELECT	50V	100µF	
C702	ECJ2VB1H103K	S.M.CAP	50V	10nF	
C703	ECA1HHG100E	ELECT	50V	10µF	
C704	ECQB1H223JF3	FILM	50V	22nF	
C705	ECQB1H102JF3	FILM	50V	1nF	
C805	ECA0JHG102B	ELECT	6.3V	1nF	
C806	ECKWNA101MB	CERAMIC	400V	100µF	▲
C807	ECKW2H472PU7	CERAMIC	500V	4.7nF	
C808	ECKW2H472PU7	CERAMIC	500V	4.7nF	
C809	ECKW2H472PU7	CERAMIC	500V	4.7nF	
C810	ECKW2H472PU7	CERAMIC	500V	4.7nF	
C811	ECOS2GA221CB	ELECT	400V	220µF	
C814	ECKW3D222KBP	CERAMIC	2KV	2.2nF	
C815	ECKR1H471KB5	CERAMIC	50V	470pF	
C816	EEUFC1E820B	ELECT	25V	82pF	
C818	ECKWNA332ME	CERAMIC	250V	3.3nF	▲
C819	ECQB1H182KF3	FILM	50V	1.8nF	
C820	222233821154	FILM	250V	150nF	▲
C845	ECQE6104KFW	FILM	630V	100nF	
C850	ECKW3D471KBP	CERAMIC	2KV	470pF	
C851	ECA2CM221E	ELECT	160V	220µF	
C852	ECA2CHG101E	ELECT	160V	100µF	
C853	ECKR2H471KB5	CERAMIC	500V	470pF	
C854	ECA1EM102B	ELECT	25V	1000µF	
C855	ECKR2H471KB5	CERAMIC	500V	470pF	
C856	ECA1AHG222B	ELECT	10V	2200µF	
C857	ECKR2H471KB5	CERAMIC	500V	470pF	
C858	ECEA1HGE102E	ELECT	50V	1000µF	
C859	ECJ2VF1H104Z	S.M.CAP	50V	100nF	
C860	SMG1CV101MT5	ELECT	16V	100µF	
C862	ECJ2VF1H104Z	S.M.CAP	50V	100nF	
C863	SMG1CV101MT5	ELECT	16V	100µF	
C866	ECJ2VF1H104Z	S.M.CAP	50V	100nF	
C867	ECA1CM100B	ELECT	16V	10µF	
C868	ECA1CM100B	ELECT	16V	10µF	
C869	ECA1EM101B	ELECT	25V	100µF	
C870	ECA1EM471B	ELECT	25V	470µF	
C871	ECA1CM102B	ELECT	16V	1000µF	
C872	ECA1CM471B	ELECT	16V	470µF	
C873	ECA1CM100B	ELECT	16V	10µF	
C875	ECA2CM220B	ELECT	160V	22µF	
C876	ECA1HHG101B	ELECT	50V	100µF	
C902	ECA1VM101B	ELECT	35V	100µF	
C903	ECJ2VB1H472K	S.M.CAP	50V	4.7nF	
C904	ECJ2VB1H472K	S.M.CAP	50V	4.7nF	
C906	ECUV1H471KBX	S.M. CAP	50V	470pF	
C908	ECUV1H151JCX	S.M. CAP	50V	150pF	
C909	ECKR2H472MD5	CERAMIC	500V	4.7nF	
C910	ECKR2H472MD5	CERAMIC	500V	4.7nF	
C911	ECUV1H151JCX	S.M. CAP	50V	150pF	
C912	ECEA2CU100B	ELECT	160V	10µF	
C913	SMG1CV101MT5	ELECT	16V	100µF	
C914	SMG1CV101MT5	ELECT	16V	100µF	
C916	ECEA2CGE100B	ELECT	160V	10µF	
C950	ECJ2VB1C104K	S.M.CAP	16V	100nF	
C1061	ECJ2VB1H103K	S.M.CAP	50V	10nF	
C1062	SMG1CV101MT5	ELECT	16V	100µF	
C1063	ECUV1H331JCX	S.M. CAP	50V	330pF	
C1101	ECJ2VF1H104Z	S.M.CAP	50V	100nF	

Cct Ref	Parts Number	Description			
C1102	ECA0JM101B	ELECT	6.3V	100µF	
C1103	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1104	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1105	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1106	ECKR2H681KB5	CERAMIC	500V	680pF	
C1108	ECJ2VB1H333K	S.M.CAP	50V	33nF	
C1111	ECA1CM100B	ELECT	16V	10µF	
C1112	ECJ2VB1H103K	S.M.CAP	50V	10nF	
C1115	ECJ3VB1C474K	S.M.CAP	16V	470nF	
C1116	ECJ2VB1H472K	S.M.CAP	50V	4.7nF	
C1117	ECJ2VF1H104Z	S.M.CAP	50V	100nF	
C1118	ECJ2VB1H103K	S.M.CAP	50V	10nF	
C1119	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1120	ECJ2VF1H104Z	S.M.CAP	50V	100nF	
C1121	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1123	ECUV1H471JCX	S.M. CAP	50V	470pF	
C1124	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1125	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1126	ECUV1H391JCX	S.M. CAP	50V	390pF	
C1127	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1129	ECUV1H270JCX	S.M. CAP	50V	27pF	
C1130	ECA1CM221B	ELECT	16V	220µF	
C1900	ECQB1H153JF3	FILM	50V	15nF	
C1901	ECJ2VB1H103K	S.M.CAP	50V	10nF	
C1903	ECA1EM470B	ELECT	25V	47µF	
C1904	ECQB1H104JF3	FILM	50V	100nF	
C1905	ECQB1H104JF3	FILM	50V	100nF	
C1906	ECQU2A474MLA	FILM	250V	470nF	⚠
C1907	222233821224	FILM	250V	220nF	⚠
C1909	ECJ2VB1H103K	S.M.CAP	50V	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	ECA1CM100B	ELECT	16V	10µF	
C2112	ECA1CM100B	ELECT	16V	10µF	
C2113	ECA1HM3R3B	ELECT	50V	3.3µF	
C2114	ECJ2VF1H104Z	S.M.CAP	50V	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	ECA1CM100B	ELECT	16V	10µF	
C2122	ECJ2VF1H104Z	S.M.CAP	50V	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	
C2131	ECJ2VF1H103Z	S.M.CAP	50V	10nF	
C2132	ECJ2VF1H103Z	S.M.CAP	50V	10nF	
C2134	ECJ2VF1H103Z	S.M.CAP	50V	10nF	
C2135	SMG1CV101MT5	ELECT	16V	100µF	
C2136	ECJ2VF1H104Z	S.M.CAP	50V	100nF	
C2137	ECA1CM100B	ELECT	16V	10µF	

Cct Ref	Parts Number	Description			
C2138	ECUV1H471KBX	S.M. CAP	50V	470pF	
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF	
C2140	SMG1CV101MT5	ELECT	16V	100µF	
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF	
C2200	ECUV1H562KBX	S.M. CAP	50V	5.6nF	
C2201	ECA1HM100B	ELECT	50V	10µF	
C2202	ECA0JM101B	ELECT	6.3V	100µF	
C2204	ECA1CM470B	ELECT	16V	47µF	
C2205	ECUV1H562KBX	S.M. CAP	50V	5.6nF	
C2206	ECA1HM2R2B	ELECT	50V	2.2µF	
C2207	ECJ2VB1H103K	S.M.CAP	50V	10nF	
C2208	ECJ2YB1H683K	S.M.CAP	50V	68nF	
C2209	ECUV1H681JCX	S.M. CAP	50V	680pF	
C2211	ECJ2VB1C104K	S.M.CAP	16V	100nF	
C2212	ECJ2VB1C104K	S.M.CAP	16V	100nF	
C2213	ECJ2VB1H223K	S.M.CAP	50V	22nF	
C2215	ECJ2VB1H103K	S.M.CAP	50V	10nF	
C2216	ECUV1H121JCX	S.M. CAP	50V	120pF	
C2217	ECJ2VB1H223K	S.M.CAP	50V	22nF	
C2220	ECUV1H562KBX	S.M. CAP	50V	5.6nF	
C2221	ECA1HM100B	ELECT	50V	10µF	
C2222	ECA0JM101B	ELECT	6.3V	100µF	
C2225	ECUV1H562KBX	S.M. CAP	50V	5.6nF	
C2226	ECA1HM2R2B	ELECT	50V	2.2µF	
C2227	ECJ2VB1H103K	S.M.CAP	50V	10nF	
C2228	ECJ2YB1H683K	S.M.CAP	50V	68nF	
C2229	ECUV1H681JCX	S.M. CAP	50V	680pF	
C2231	ECJ2VB1C104K	S.M.CAP	16V	100nF	
C2232	ECJ2VB1C104K	S.M.CAP	16V	100nF	
C2235	ECJ2VB1H103K	S.M.CAP	50V	10nF	
C2236	ECUV1H121JCX	S.M. CAP	50V	120pF	
C2240	ECA1CM471B	ELECT	16V	470µF	
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	S.M.CAP	16V	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	S.M.CAP	16V	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	S.M.CAP	16V	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	S.M.CAP	16V	470nF	
C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C3029	SMG1CV101MT5	ELECT	16V	100µF	
C3032	ECUV1H271JCX	S.M. CAP	50V	270pF	
C3033	ECUV1H271JCX	S.M. CAP	50V	270pF	
C3034	ECUV1H271JCX	S.M. CAP	50V	270pF	
C3035	ECUV1H271JCX	S.M. CAP	50V	270pF	
C3101	ECJ2YB1H104K	S.M.CAP	50V	100nF	

Cct Ref	Parts Number	Description		
C3102	ECJ2YB1H473K	S.M.CAP	50V	47nF
C3111	ECUV1H391JCX	S.M. CAP	50V	390pF
C3112	ECUV1H271JCX	S.M. CAP	50V	270pF
C3201	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3202	ECJ2VB1H103K	S.M.CAP	50V	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
C3208	ECA1HM470B	ELECT	50V	47µF
C3209	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3210	ECJ2VB1C104K	S.M.CAP	16V	100nF
C3211	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3212	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3213	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3214	ECJ2VB1C104K	S.M.CAP	16V	100nF
C3215	ECJ2VB1H103K	S.M.CAP	50V	10nF
C3216	ECA1CM330B	ELECT	16V	33µF
C3217	ECJ2VB1C104K	S.M.CAP	16V	100nF
C3221	ECA1HM4R7B	ELECT	50V	4.7µF
C3401	ECQV1H224JL3	FILM	50V	220nF
C3402	ECUV1H101JCX	S.M. CAP	50V	100pF
C3403	SMG1CV101MT5	ELECT	16V	100µF
C3404	ECQV1H224JL3	FILM	50V	220nF
C3405	ECUV1H180JCX	S.M. CAP	50V	18pF
C3406	ECUV1H271JCX	S.M. CAP	50V	270pF
C3407	ECUV1H271JCX	S.M. CAP	50V	270pF
C3408	SMG1CV101MT5	ELECT	16V	100µF
C3601	SMG1CV101MT5	ELECT	16V	100µF
JSE28	ECJ2YB1H104K	S.M.CAP	50V	100nF
TERMINALS AND LINKS				
JK2301	JPJ841101320	RCA SOCKET		
JK3001	350808500	SCART SOCKET		
JK3201	TJB8E026	AV TERMINAL		
S351	0330550049	CRT SOCKET		⚠
SWITCHES				
S802	ESB92S11B	SWITCH		⚠
S1251	EVQ21405R	SWITCH		
S1252	EVQ21405R	SWITCH		
S1253	EVQ21405R	SWITCH		
S1254	EVQ21405R	SWITCH		
S1255	EVQ21405R	SWITCH		
RELAYS				
RL580	DH12D1-O-Q	RELAY		
RL801	TSE1885-1	RELAY		⚠


Cct Ref	Parts Number	Description
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NOTES

A large rectangular area with a solid black border and horizontal dashed lines, intended for writing notes.


SCHEMATIC DIAGRAMS FOR MODEL TX-28PL1 (EURO-4 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.

