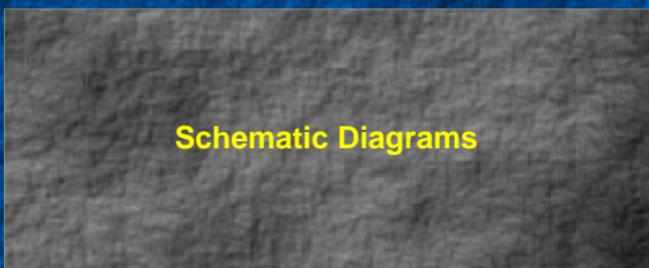


TX-28/25XD3P Service Manual

Safety
Specifications
Parts List
Service Information
Adjustments
Self Check
Service Hints
Mechanical View
Disassembly
Location of Controls
Waveforms



Block Diagrams



Schematic Diagrams



PCB Views

Service Support

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

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

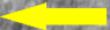
For more details contact your local Panasonic company.

BACK

EXIT

Video / Audio

Control


BACK

B - PCB

E - PCB

B - Schematic

E - Schematic


Y - PCB

N - Schematic

P - Schematic


BACK

Y - Schematic


BACK

Service Manual



Colour Television

TX-28XD3P

TX-25XD3P

EURO-2M Chassis

SPECIFICATIONS

(Information in brackets {} refer to TX-25XD3P)

Power Source :	220-240V AC, 50Hz
Power Consumption :	142W, {140W}
Standby Power Consumption :	1W
Aerial Impedance :	75Ω unbalanced, Coaxial Type
Receiving System :	PAL-B, G,D,K H, PAL 60, SECAM B, G, D,K MNTSC, NTSC (AV Only)
Receiving Channels :	VHF E2 – E12 VHF H1 – H2 (ITALY) VHF A – H (ITALY) UHF E21 – E69 CATV (S01 – S05) CATV S1 – S10 (M1 – M10) CATV S11 – S20 (U1 – U10) CATV S21 – S41 (HYPERBAND)

Intermediate Frequency :

Video	38.9 MHz
Sound	33.4 MHz 33.16 MHz
	32.4 MHz 33.05MHz
	34.05MHz,32.66MHz
Colour	34.47 MHz, 34.5 MHz
	34.65 MHz

Video / Audio Terminals :

AUDIO MONITOR OUT	Audio(RCA x 2) 500mV rms,1kΩ
AV1 IN	Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 10kΩ RGB (21 pin)
AV1 OUT	Video (21 pin) 1V p-p 75Ω
AV2 IN	Audio (21 pin) 500mV rms 10kΩ
	S-Video IN Y : 1V p-p 75Ω (21 pin) C : 0.3V p-p 75Ω
AV2 OUT	Video (21 pin) 1V p-p 75Ω
AV3 IN	Audio (RCA x 2) 500mV rms,10kΩ
	Video (RCA x 1) 1V p-p 75Ω

High Voltage :

Picture Tube : 28kV ± 1kV (zero beam current)
A66ECF50X32 66 cm
{A59ECF50X32 59 cm}

Audio Output :

Speaker 2 x 20W (Music Power)
8Ω Impedance

Headphones 8Ω Impedance

Accessories supplied : Remote Control
2 x R6 (UM3) Batteries

Dimensions :

Height :	596.5 mm	{550 mm}
Width :	778 mm	{730 mm}
Depth :	481.5 mm	{479 mm}

Net Weight : 34kg {31kg}

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

CONTENTS

SAFETY PRECAUTIONS
SERVICE HINTS
SERVICE MODE
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REPLACEMENT PARTS LIST
CONDUCTOR VIEWS
SCHEMATIC DIAGRAMS

Safety Precautions

General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the AC outlet.
5. Potentials as high as 29kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

Leakage Current Hot Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2k ohm 10W resistor in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter with high impedance to measure the potential across the resistor.

4. Check each exposed Metallic part and check the voltage at each point.
5. Reverse the AC plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

HOT CHECK CIRCUIT

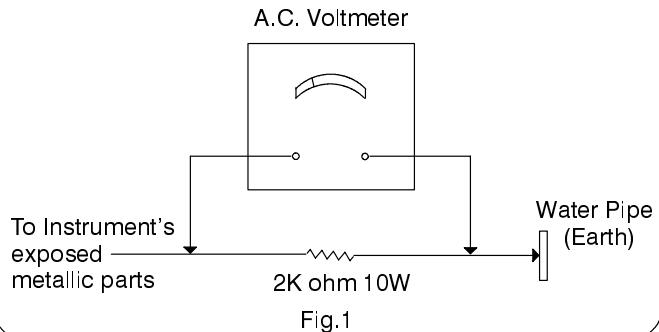


Fig.1

X-Radiation Warning

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service ensure that the jig is capable of handling 29kV 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 28kV $\pm 1\text{ kV}$ 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 an X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

HOW TO REMOVE THE REAR COVER

1. Remove the 12 screws (A) as shown in **Fig.2/Fig.3.**

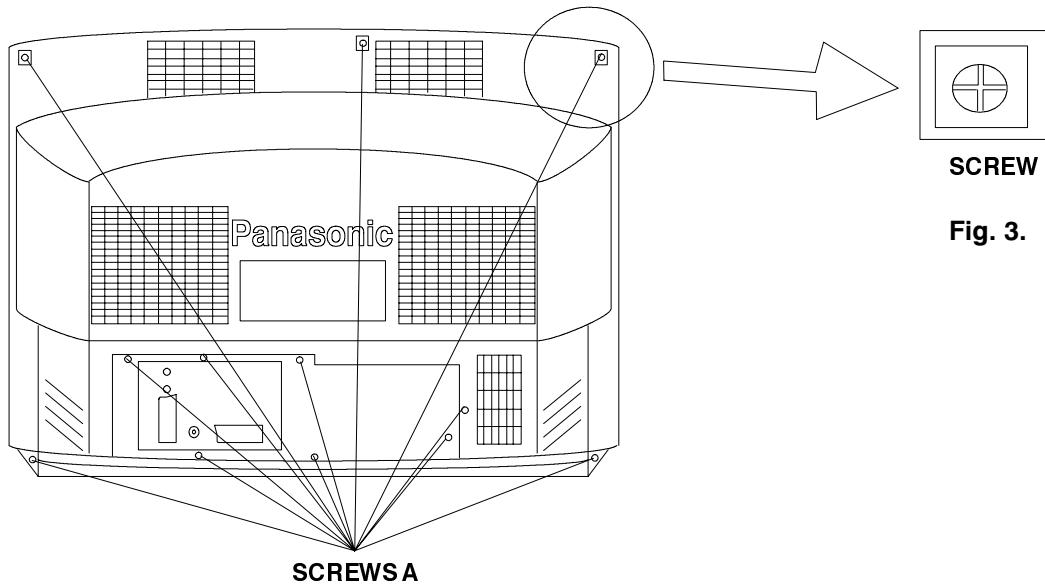
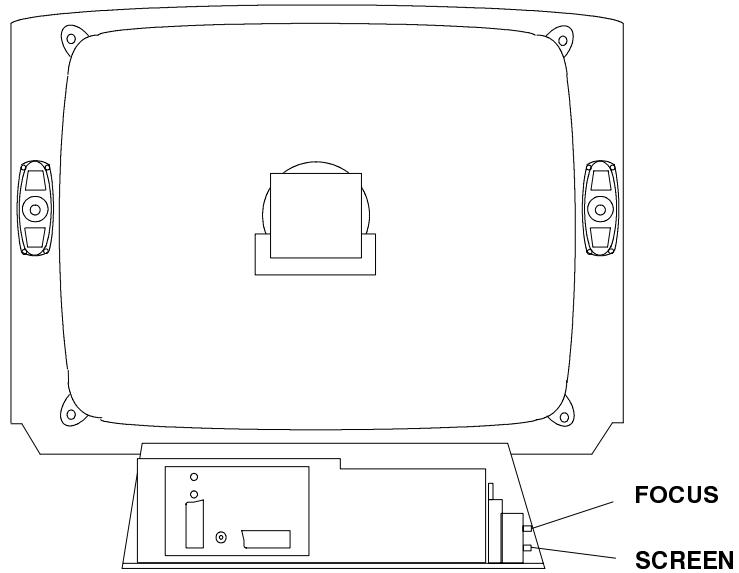


Fig. 2.

Fig. 3.

LOCATION OF CONTROLS



E P.C.B.

Fig. 4.

SERVICE MODE

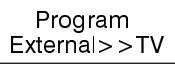
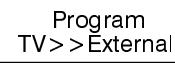
The remote control is used for entering and storing adjustments, with the exception of cut-off adjustments which must always be done prior to service adjustment. Perform adjustments in accordance with screen display. The display on the screen also specifies the CCU variants as well as the approx. setting values. The adjustment sequence for the service mode is indicated below.

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

NOTE: This TV also has the option of using a Memory Pack which enables you to copy the preset TV channels and analogue levels into the Memory Pack and then upload them onto another EURO-2M TV set.

USING THE MEMORY PACK

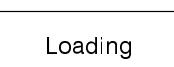
TV to Memory Pack process

1. Plug the memory pack into the lower of the two 21 pin terminals at the back of the TV and switch the TV on. If the TV has only one 21 pin connector then this will be able to accept the memory pack.
2. Go into the Service Mode as explained above. The screen will show:-

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

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


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


Memory Pack to TV Process

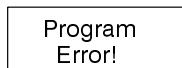
1. Plug the memory pack into the lower of the two 21 pin terminals at the back of the TV and switch the TV on. If the TV has only one 21 pin connector then this will be able to accept the memory pack.
2. Go into the Service Mode as explained above. The screen will show:-

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

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

5. The tuning information from the Memory Pack has now been copied into the TV
6. To exit from the Service Mode switch off the TV.
7. The process has now been completed and the Memory Pack can now be removed.

Errors

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



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

ADJUSTMENT PROCEDURE

Item/Preparation	Adjustments
+B SET-UP 1. Receive a test pattern 2. Set the controls: Brightness Minimum Contrast Minimum Volume Minimum	1. Set the +B voltage up as follows: Adjust R811 so that B2 shows $147V \pm 1V$ 2. Confirm the following voltages. B1 200 \pm 10V B6 12 \pm 0.5V B3 27 \pm 1V B7 5 + 0.1/-0.25V B4 41 \pm 1V B8 5 \pm 0.25V B5 15.5 \pm 1V U33 31 \pm 1V
RF AGC 1. Receive a test pattern. 2. Connect an oscilloscope between the tuner RF AGC and ground. 3. Set the oscilloscope gain range to 1V/div.	1. Check that the noise becomes large when the RF AGC VR R126 is turned counterclockwise. After the check turn it clockwise. 2. Gradually turn the RF AGC VR anti-clockwise, and set the RF AGC VR to the point where the RF AGC voltage is just falling to a point where this voltage drops by 0.2V from the maximum value.
CUT OFF 1. Receive a test pattern. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cutoff DC mode.	1. Confirm then value is 128 and select Ug2 mode noting colour with largest value. 2. Turn the screen VR until a colour reaches 20~30. 3. Connect an oscilloscope to the cathode with the biggest value colour. 4. Select Cutoff DC mode and adjust Cutoff pulse to $159V \pm 5V$. 5. Disconnect the oscilloscope and adjust the screen to whichever colour reaches 70 ± 30 first.

SELF CHECK

Self check is used to automatically check the Bus lines and Hexadecimal code of the TV set. To enter the Self Check mode press Function down button, on the Preset Panel, at the same time pressing the Status button, on the Remote Control, and the screen will show:— When exiting Self Check the customer settings will return to factory setup.

1 — ok	Tuner	11 — --	Dolby IC for C/R	21 — ok	P SBLED
2 — ok	VIF	12 — ok	P S MODE	22 — ok	P OFF
3 — ok	EEPROM	13 — ok	P. TAO	23 — ok	P DEFL
4 — --	Sound AV switch1	14 — ok	P. TA1	24 — ok	P RAM
5 — ok	Video AV switch1	15 — ok	P. TA2		
6 — ok	VDP	16 — ok	P. TA3		
7 — ok	TPU	17 — ok	P SDA		
8 — ok	MSP	18 — ok	P SCL1		
9 — --	Dolby Sub	19 — ok	P SCL 3		
10 — --	Dolby IC for L/R	20 — ok	P SCL4		
					Hex codes
				7A	
				62	
				22	
				D4	
				95	

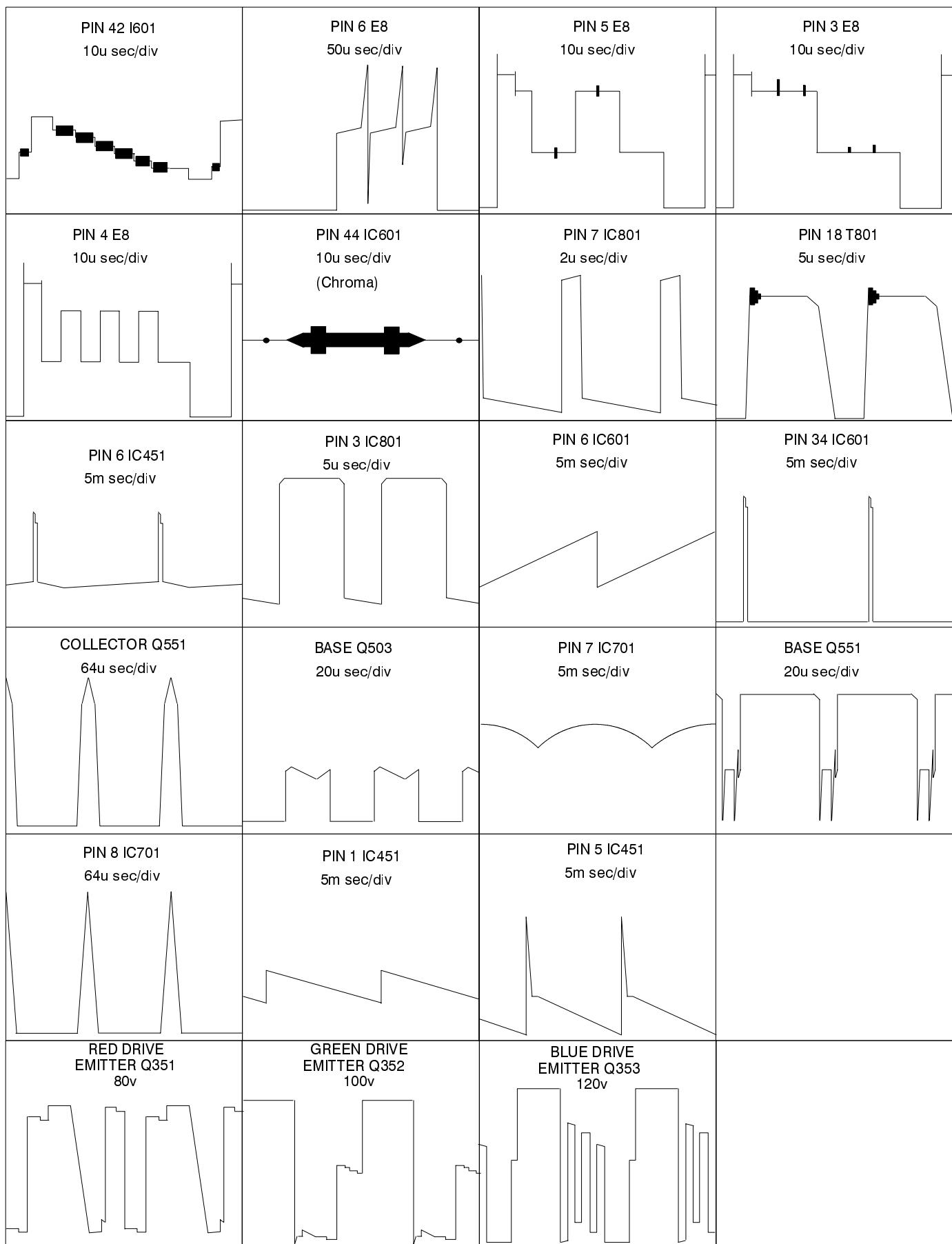
If the CCU ports have been checked and found to be incorrect then "—" will appear in place of "OK".

ALIGNMENT SETTINGS

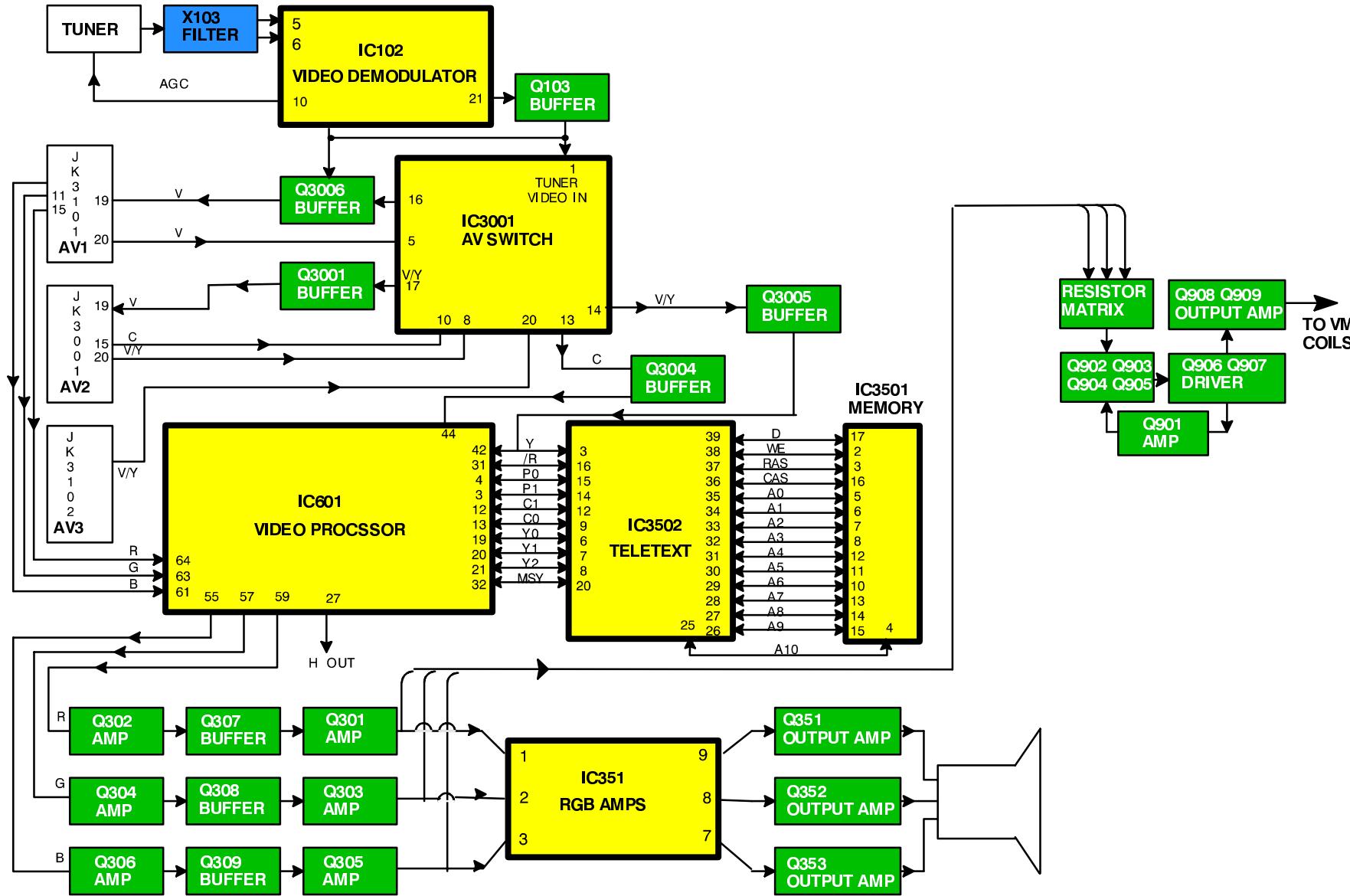
(The figures used below are nominal and used for representative purposes only)

Alignment Function		Settings / Special features
1. Vertical amplitude	V-AMP 051	Optimum setting
2. Vertical symmetry	V-SYM 013	
3. Vertical linearity	V-LIN 012	
4. Vert. D.C.	Vert. D.C. 000	No adjustment
5. V-Pos.	V. Pos. 003	Optimum setting
6. Horizontal amplitude	H-AMP -033	Optimum setting
7. Horizontal position	H-POS 049	
8. Text Position	TEXT POSITION 045	Optimum setting
9. EW-amplitude	E-W-AMP 1 -058	Optimum setting
10. EW-amplitude	E-W-AMP 2 023	Optimum setting
11. Trapezium-comp	TRAPEZ-1 -014	Optimum setting
12. Trapezium- comp	TRAPEZ-2 012	Optimum setting
13. Colour VCO	Colour VCO 015	Optimum setting
14. Cut-off DC	Cut-off DC 050	No adjustment
15. Ug2 Test	Ug 2 Test 107 021 023	Select Cutoff DC in ServiceMode and confirm the value is 128. Select Ug 2 Test noting colour with largest value, adjust on FBT until a colour reaches 20 ~ 30. Connect an oscilloscope to the cathode of the biggest value colour, select Cutoff DC mode and adjust get Cutoff pulse voltage to $159 \pm 5V$. Disconnect the oscilloscope and adjust the screen to whichever colour reaches 70 ± 30 first.
16. Cutoff	Cutoff 045 055 050	Press the GREEN button to step through the settings. Adjust for optimum.
17. White	White 224 255 237	Press the GREEN button to step through the settings. Adjust for optimum.

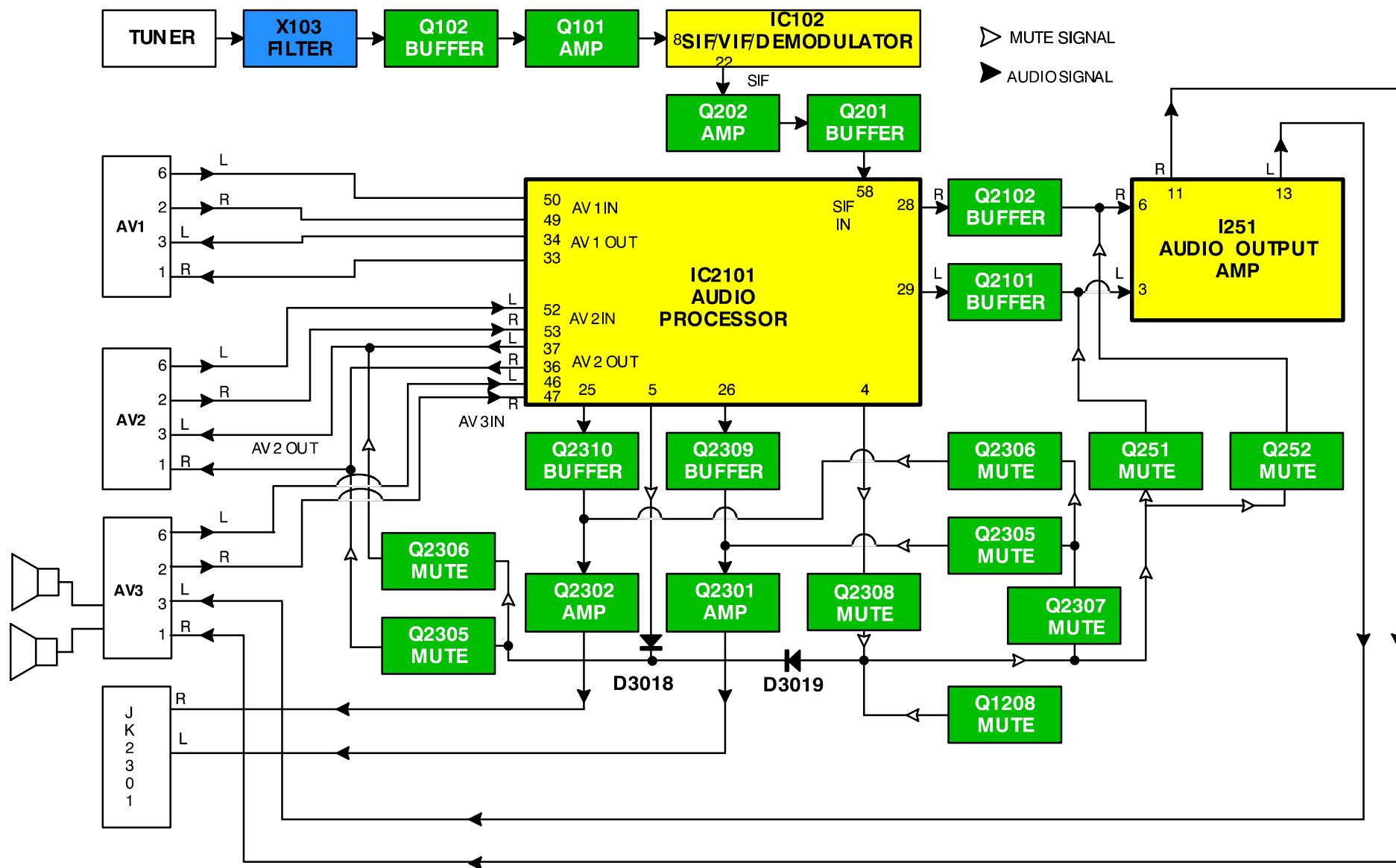
WAVEFORM PATTERN TABLE



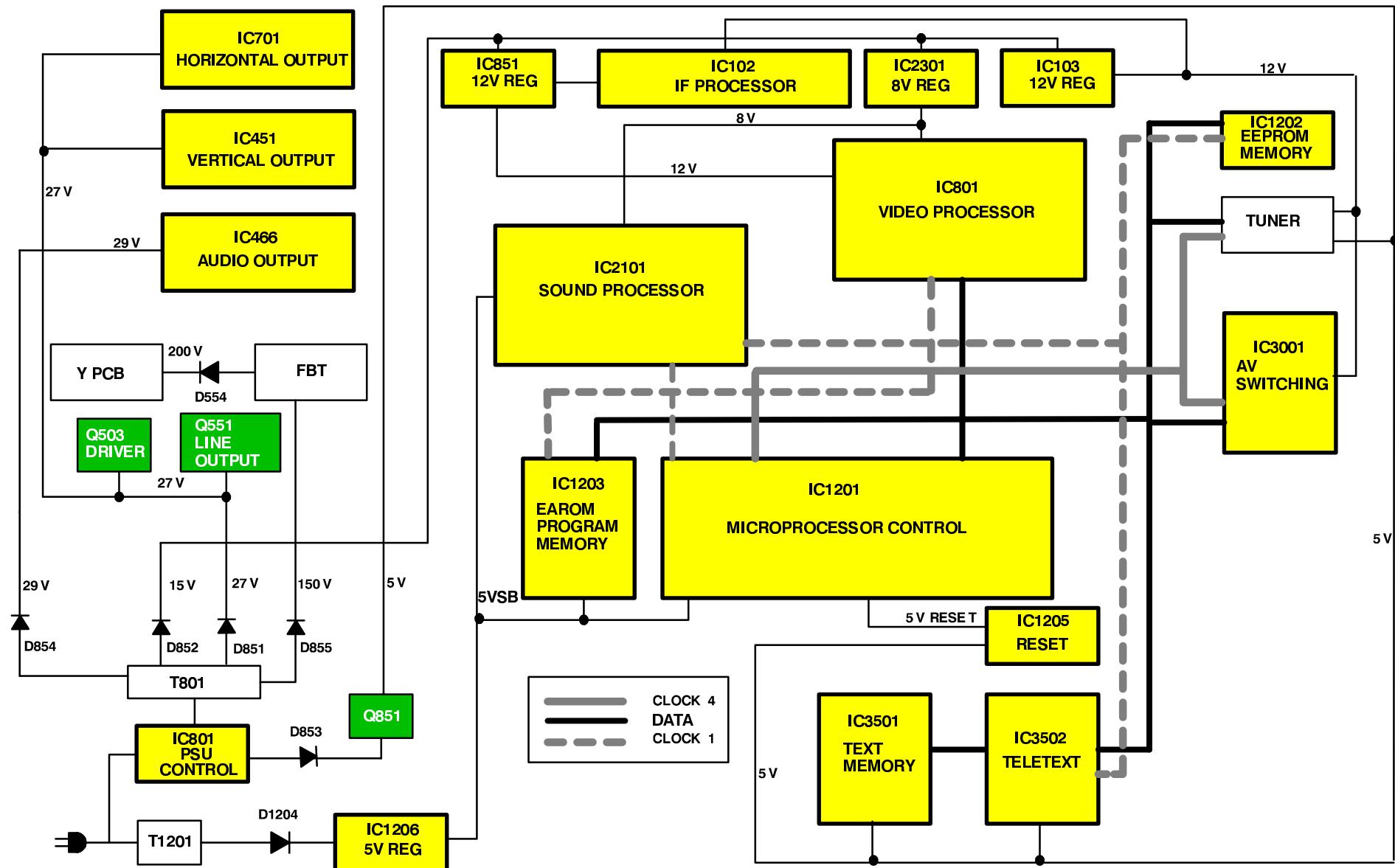
VIDEO BLOCK DIAGRAM



AUDIO BLOCK DIAGRAM



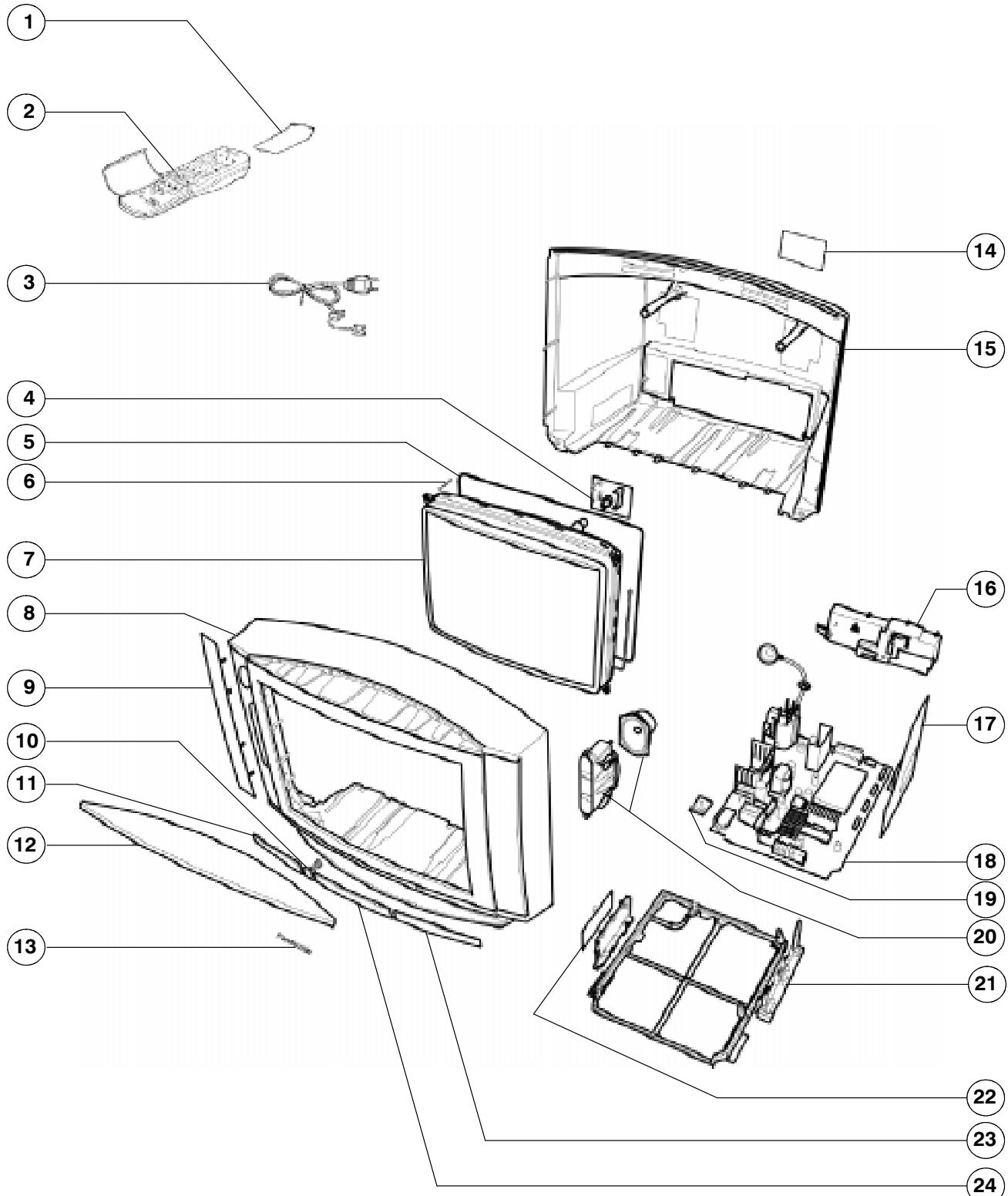
POWER SUPPLY AND CONTROL BLOCK DIAGRAM



PARTS LOCATION

NOTE :

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



REPLACEMENT PARTS LIST

Important Safety Notice

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

Ref No.	Part No.	Description		
MISCELLANEOUS COMPONENTS				
1)	UR51EC780	BATTERY COVER (REMOTE)		
2)	EUR51920	REMOTE CONTROL		
3)	*****	SEE DIFFERENCE LIST		
4)	TNP117070AT	Y P.C.B.	Δ	
5)	*****	SEE DIFFERENCE LIST		
6)	*****	SEE DIFFERENCE LIST		
7)	*****	SEE DIFFERENCE LIST		
8)	*****	SEE DIFFERENCE LIST		
9)	*****	SEE DIFFERENCE LIST		
10)	TBX8E040	POWER BUTTON BLACK		
11)	*****	SEE DIFFERENCE LIST		
12)	*****	SEE DIFFERENCE LIST		
13)	*****	SEE DIFFERENCE LIST		
14)	*****	SEE DIFFERENCE LIST		
15)	*****	SEE DIFFERENCE LIST		
16)	*****	SEE DIFFERENCE LIST		
17)	TNP8EB007AT	B P.C.B.	Δ	
18)	*****	SEE DIFFERENCE LIST		
19)	TNP8EN014AA	N P.C.B.	Δ	
20)	EAG1216A2	SPEAKER		
21)	*****	SEE DIFFERENCE LIST		
22)	TNP8EP013AC	P P.C.B.	Δ	
23)	*****	SEE DIFFERENCE LIST		
24)	TKP8E1170	DOOR LID		
	ECCR1H120J	CERAMIC	50V	12pF
	ERC12GK825	SOLID	0.5W	10% 8M2 Ω
F9-4-220	RELAY			
TBM8E1615	RESET LABEL			
TBM8E1728	MODEL LABEL			
TEK6940	LID CATCHER			
TES8E015	POWER BUTTON SPRING			
TKP8E1165	AV COVER			
TQB8E2357-L	RUSSIAN INST BOOK		Δ	
TQB8E2357-M	BULGARIAN INST BOOK		Δ	
TQB8E2357-N	RUMANIAN INST BOOK		Δ	
TQB8E2357-P	POLISH INST BOOK		Δ	
TQB8E2357-Q	HUNGARIAN INST BOOK		Δ	
TQB8E2357-R	CZECH INST BOOK		Δ	
TQB8E2357-U	ENGLISH INST BOOK		Δ	
SK415	VP17005-32	SCREW		
S.351	0330550049	CRT SOCKET		
MOE1	31221212478	FIX CLIP		
MOE10	TES4537	SPRING		
TNR1	ENG27503G	TUNER		
	TSX8E0020	POWER CORD	Δ	
UM-3DJ-2P	BATTERY-SET			
CAPACITORS				
C124	ECEA1CKA470	ELECT	16V	47 μ F
C130	ECA1HMR47GB	ELECT	50V	0.47 μ F
C135	ECUV1H103ZFX	S.M.CAP	50V	10nF
C136	ECA1CM100GB	ELECT	16V	10pF
C137	ECA1EM101GB	ELECT	25V	1 μ F
C138	ECUV1H103ZFX	S.M.CAP	50V	10nF
C139	ECUV1H390JCX	S.M.CAP	50V	39pF
C140	ECUV1H390JCX	S.M.CAP	50V	39pF
C141	ECUV1H103ZFX	S.M.CAP	50V	10nF
C142	ECUV1H102KBX	S.M.CAP	50V	1nF
C143	ECUV1H102KBX	S.M.CAP	50V	1nF
C144	ECA1HMR33GB	ELECT	50V	0.33 μ F

Ref No.	Part No.	Description		
C145	ECUV1H103ZFX	S.M.CAP	50V	10nF
C146	ECUV1H104ZFX	S.M.CAP	50V	100nF
C147	ECUV1H102KBX	S.M.CAP	50V	1nF
C148	ECEA1HKAR22	ELECT	50V	0.22 μ F
C149	ECA1EM470GB	ELECT	25V	47pF
C150	ECUV1H103ZFX	S.M.CAP	50V	10nF
C151	ECUV1H104ZFX	S.M.CAP	50V	100nF
C154	ECA1CM221GB	ELECT	16V	220pF
C170	ECUV1H331KBX	S.M.CAP	50V	330pF
C201	ECUV1H070DCX	S.M.CAP	50V	7pF
C202	ECUV1H070DCX	S.M.CAP	50V	7pF
C203	ECUV1H470JX	S.M.CAP	50V	47pF
C204	ECUV1H560JCX	S.M.CAP	50V	56pF
C205	ECUV1H100DCX	S.M.CAP	50V	10pF
C207	ECUV1H220JCX	S.M.CAP	50V	22pF
C209	ECUV1H103ZFX	S.M.CAP	50V	10nF
C210	ECUV1H103ZFX	S.M.CAP	50V	10nF
C211	ECUV1H103ZFX	S.M.CAP	50V	10nF
C251	ECA1EM330B	ELECT	25V	33pF
C252	ECUV1H223KBX	S.M.CAP	50V	22nF
C253	ECA1HM4R7GB	ELECT	50V	4.7 μ F
C254	222236516474	FILM	160V	470nF
C255	ECEA1EGE101	ELECT	25V	100 μ F
C256	ECUV1H223KBX	S.M.CAP	50V	22nF
C257	ECA1HM4R7GB	ELECT	50V	4.7 μ F
C258	ECA1EM330B	ELECT	25V	33pF
C259	222236516474	FILM	160V	470nF
C260	ECA1VM102GE	ELECT	35V	1nF
C261	ECA1VM102GE	ELECT	35V	1nF
C262	222236516394	TRANSISTOR		
C263	ECA1HM010GB	ELECT	50V	1pF
C264	ECEA1HGE222	ELECT	50V	2200 μ F
C265	222236516394	TRANSISTOR		
C266	ECA1HM010GB	ELECT	50V	1pF
C267	ECUV1H104KBX	S.M.CAP	50V	100nF
C268	ECUV1H104KBX	S.M.CAP	50V	100nF
C271	ECUV1H561KBX	S.M.CAP	50V	560pF
C301	ECA1CM470GB	ELECT	16V	47 μ F
C302	ECUV1H104ZFX	S.M.CAP	50V	100nF
C303	ECUV1H104ZFX	S.M.CAP	50V	100nF
C310	ECUV1H104ZFX	S.M.CAP	50V	100nF
C354	ECQM2104KZ	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	222236516224	FILM	160V	220nF
C360	ECKC3D152J	CERAMIC	2KV	1.5nF
C361	ECA1HMR47GB	ELECT	50V	0.47 μ F
C364	ECUV1H103ZFX	S.M.CAP	50V	10nF
C366	ECA1CM100GB	ELECT	16V	10pF
C451	ECUV1H102JX	S.M.CAP	50V	1nF
C452	ECUV1H102ZFX	S.M.CAP	50V	1nF
C453	ECUV1H472KBX	S.M.CAP	50V	4.7nF
C454	ECUV1H104ZFX	S.M.CAP	50V	100nF
C455	ECEA1VGE222	ELECT	35V	2200 μ F
C456	ECEA1HGE221	ELECT	50V	220 μ F
C457	ECUV1H223KBX	S.M.CAP	50V	22nF
C458	ECQM1H273J	FILM	50V	27nF
C459	222236516224	FILM	160V	220nF
C460	222236516105	FILM	160V	1 μ F
C462	ECEA1VGE332	ELECT	35V	3300 μ F
C501	ECA1AM330GB	ELECT	10V	33pF
C506	ECUV1H103ZFX	S.M.CAP	50V	10nF

Ref No.	Part No.	Description			
C508	222236516105	FILM	160V	1µF	
C509	ECEA1HGE101	ELECT	50V	100µF	
C510	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C511	ECQM2683JZ	FILM	250V	68nF	
C551	222237544182	CAPACITOR		1.8nF	
C552	ECWH15H102H	FILM	1500V	100pF	
C554	ECWF2H514J	FILM	500V	510nF	▲
C555	ECWH12H103J	FILM	1250V	10nF	▲
C556	ECQM4333JC	FILM	400V	33nF	
C559	ECWF2H684J	FILM	500V	680nF	▲
C560	ECEA2GGE2R2	ELECT	400V	2.2µF	
C562	ECKC2H101J	CERAMIC	500V	100pF	▲
C563	ECEA2EU220	ELECT	250V	22µF	
C564	ECEA2AU2R2	ELECT	100V	2.2µF	
C565	ECQP1H273J	FILM	100V	2700µF	
C601	ECUV1H271JCX	S.M.CAP	50V	270pF	
C602	ECUV1H121JCX	S.M.CAP	50V	120pF	
C603	ECUV1H471JCX	S.M.CAP	50V	470pF	
C604	ECA0JM102GB	ELECT	6.3V	1nF	
C605	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C606	ECUV1H040CCX	S.M.CAP	50V	4pF	
C607	ECUV1H040CCX	S.M.CAP	50V	4pF	
C608	ECUV1H683ZFX	S.M.CAP	50V	68nF	
C609	ECA1CM470GB	ELECT	16V	47µF	
C610	ECUV1H683ZFX	S.M.CAP	50V	68nF	
C611	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C612	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C613	ECUV1H102JCX	S.M.CAP	50V	1nF	
C614	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C615	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C616	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C618	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C619	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C620	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C621	ECA1CM100GB	ELECT	16V	10pF	
C622	ECA1CM100GB	ELECT	16V	10pF	
C623	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C624	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C625	ECEA1HNR47	ELECT	50V	0.47µF	
C626	ECA0JM102GB	ELECT	6.3V	1nF	
C627	ECUV1H100DCX	S.M.CAP	50V	10pF	
C628	ECUV1H470JCX	S.M.CAP	50V	47pF	
C629	ECUV1H101JCX	S.M.CAP	50V	100pF	
C630	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C631	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C632	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C633	ECUV1H102JCX	S.M.CAP	50V	1nF	
C636	ECUV1H101JCX	S.M.CAP	50V	100pF	
C637	ECUV1H102KBX	S.M.CAP	50V	1nF	
C638	ECUV1H181JCX	S.M.CAP	50V	180pF	
C639	ECUV1H561KBX	S.M.CAP	50V	560pF	
C701	ECEA1HGE101	ELECT	50V	100µF	
C702	ECUV1H103KBX	S.M.CAP	50V	10nF	
C703	ECEA1HGE100	ELECT	50V	10µF	
C704	ECQB1H223K	FILM	50V	22nF	
C705	ECQB1H102J	FILM	50V	1nF	
C801	ECUV1H101JCX	S.M.CAP	50V	100pF	
C802	ECQE6104K	FILM	600V	100nF	▲
C803	ECUV1H560JX	S.M.CAP	50V	56pF	
C804	ECA1HM101GB	ELECT	50V	100pF	
C805	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C806	ECEA1HU101	ELECT	50V	100µF	
C807	ECEA1EGE101	ELECT	25V	100µF	
C808	ECQB1H103J	FILM	50V	10nF	
C809	ECQB1H103J	FILM	50V	10nF	
C811	ECEA1HN010	ELECT	50V	1µF	
C815	ECKC2H472J	CERAMIC	500V	4.7nF	▲
C816	ECKC3D222JB	CERAMIC	2KV	2200pF	▲
C817	ECQB1H223K	FILM	50V	22nF	
C818	ECKC2H472J	CERAMIC	500V	4.7nF	▲
C820	ECOS2GG181NG	ELECT	400V	180µF	▲
C821	ECKWNA332MECC	CERAMIC	250V	3.3nF	

Ref No.	Part No.	Description			
C841	222233510224	CAPACITOR		0.22µF	
C851	ECKC2H681J	CERAMIC	500V	680pF	▲
C852	ECEA1HU102	ELECT	50V	1000µF	
C853	ECEA1EGE222	ELECT	25V	2200µF	
C854	ECEA1HGE102	ELECT	50V	1000µF	
C855	ECKC3D471JB	CERAMIC	2KV	470pF	▲
C856	ECEA1EGE222	ELECT	25V	2200µF	
C857	ECEA2EU101	ELECT	250V	100µF	
C858	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C859	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C860	ECA1CM471GB	ELECT	16V	470pF	
C861	ECOS2EA221AB	ELECT	250V	220µF	
C862	ECA1CM471GB	ELECT	16V	470pF	
C901	ECUV1H030CCX	S.M.CAP	50V	30pF	
C902	ECA1VM101GB	ELECT	35V	100pF	
C903	ECA1CM470GB	ELECT	16V	47µF	
C904	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C905	ECA1HM4R7GB	ELECT	50V	4.7µF	
C906	ECUV1H471KBX	S.M.CAP	50V	470pF	
C907	ECUV1H271JCX	S.M.CAP	50V	270pF	
C908	ECUV1H151JCX	S.M.CAP	50V	150pF	
C909	ECKC2H472J	CERAMIC	500V	4.7nF	▲
C910	ECKC2H472J	CERAMIC	500V	4.7nF	▲
C911	ECUV1H151JCX	S.M.CAP	50V	150pF	
C912	ECEA2CU100	ELECT	160V	10µF	
C913	ECA1HM101GB	ELECT	50V	100pF	
C914	ECA1HM101GB	ELECT	50V	100pF	
C915	ECA1CM471GB	ELECT	16V	470pF	
C916	ECEA2CU100	ELECT	160V	10µF	
C1061	ECA0JM101G	ELECT	6.3V	100pF	
C1062	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1201	ECUV1H332KBX	S.M.CAP	50V	3.3nF	
C1202	ECUV1H332KBX	S.M.CAP	50V	3.3nF	
C1203	ECUV1H332KBX	S.M.CAP	50V	3.3nF	
C1204	ECUV1H332KBX	S.M.CAP	50V	3.3nF	
C1205	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C1206	ECA1HM4R7GB	ELECT	50V	4.7µF	
C1207	ECUV1H472KBX	S.M.CAP	50V	4.7nF	
C1208	ECUV1H390JCX	S.M.CAP	50V	39pF	
C1209	ECUV1H390JCX	S.M.CAP	50V	39pF	
C1210	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C1211	ECUV1H470JCX	S.M.CAP	50V	47pF	
C1212	ECA1CM470GB	ELECT	16V	47µF	
C1213	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C1214	ECA1CM470GB	ELECT	16V	47µF	
C1215	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C1217	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1219	ECA1CM471GB	ELECT	16V	470pF	
C1220	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C1221	ECA0JM102GB	ELECT	6.3V	1nF	
C1222	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C1223	ECA1HM101GB	ELECT	50V	100pF	
C1224	ECA0JM222GB	ELECT	6.3V	2.2nF	
C1225	ECA0JM472GE	ELECT	6.3V	4.7nF	
C1226	ECA1HM101GB	ELECT	50V	100pF	
C1227	ECA1VM221B	ELECT	35V	220pF	
C1228	ECA1EM101GB	ELECT	25V	1µF	
C2101	ECUV1H223KBX	S.M.CAP	50V	22nF	
C2102	ECUV1H391KBX	S.M.CAP	50V	390pF	
C2103	ECUV1H102KBX	S.M.CAP	50V	1nF	
C2104	ECUV1H102KBX	S.M.CAP	50V	1nF	
C2107	ECUV1H391KBX	S.M.CAP	50V	390pF	
C2108	ECA1HM101GB	ELECT	50V	100pF	
C2109	ECUV1H223KBX	S.M.CAP	50V	22nF	
C2110	ECA1CM100GB	ELECT	16V	10pF	
C2111	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C2112	ECA1CM100GB	ELECT	16V	10pF	
C2113	ECUV1H102KBX	S.M.CAP	50V	1nF	
C2114	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C2115	ECUV1H471KBX	S.M.CAP	50V	470pF	
C2116	ECA1HM3R3GB	ELECT	50V	3.3µF	
C2117	ECUV1H471KBX	S.M.CAP	50V	470pF	

Ref No.	Part No.	Description			
C2118	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C2119	ECA1CM100GB	ELECT	16V	10pF	
C2120	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C2121	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C2122	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C2123	ECA1CM100GB	ELECT	16V	10pF	
C2124	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C2125	ECUV1H010CCX	S.M.CAP	50V	1pF	
C2126	ECUV1H010CCX	S.M.CAP	50V	1pF	
C2127	ECA1CM100GB	ELECT	16V	10pF	
C2307	ECA1CM470GB	ELECT	16V	47μF	
C2308	ECA1CM470GB	ELECT	16V	47μF	
C2310	ECA1CM470GB	ELECT	16V	47μF	
C2312	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C2313	ECUV1H103KBX	S.M.CAP	50V	10nF	
C2314	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C2315	ECUV1H103KBX	S.M.CAP	50V	10nF	
C2316	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C2317	ECA1CM470GB	ELECT	16V	47μF	
C2318	ECUV1H222KBX	S.M.CAP	50V	2.2nF	
C2319	ECUV1H222KBX	S.M.CAP	50V	2.2nF	
C2651	ECUV1H103KBX	S.M.CAP	50V	10nF	
C2652	ECUV1H103KBX	S.M.CAP	50V	10nF	
C3001	ECA1HMR47GB	ELECT	50V	0.47μF	
C3002	ECA1HMR47GB	ELECT	50V	0.47μF	
C3003	ECA1EM4R7GB	ELECT	25V	4.7μF	
C3004	ECA1HM4R7GB	ELECT	50V	4.7μF	
C3005	ECA1HM4R7GB	ELECT	50V	4.7μF	
C3006	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C3007	ECA1HM470GB	ELECT	50V	47μF	
C3011	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C3012	ECA1CM470GB	ELECT	16V	47μF	
C3013	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3014	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3017	ECEA1CN470	ELECT	16V	47μF	
C3018	ECUV1H102KBX	S.M.CAP	50V	1nF	
C3019	ECUV1H102KBX	S.M.CAP	50V	1nF	
C3021	ECUV1H102KBX	S.M.CAP	50V	1nF	
C3023	ECA1CM470GB	ELECT	16V	47μF	
C3024	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C3025	ECUV1H102KBX	S.M.CAP	50V	1nF	
C3026	ECA1CM470GB	ELECT	16V	47μF	
C3027	ECA1CM470GB	ELECT	16V	47μF	
C3028	ECUV1H221JX	S.M.CAP	50V	220pF	
C3029	ECUV1H221JX	S.M.CAP	50V	220pF	
C3030	ECUV1H221JX	S.M.CAP	50V	220pF	
C3031	ECUV1H221JX	S.M.CAP	50V	220pF	
C3032	ECA1HMR47GB	ELECT	50V	0.47μF	
C3033	ECA1HMR47GB	ELECT	50V	0.47μF	
C3034	ECUV1H221JX	S.M.CAP	50V	220pF	
C3035	ECUV1H221JX	S.M.CAP	50V	220pF	
C3036	ECUV1H222KBX	S.M.CAP	50V	2.2nF	
C3037	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3038	ECA1CM470GB	ELECT	16V	47μF	
C3039	ECA1CM470GB	ELECT	16V	47μF	
C3040	ECA1HMR47GB	ELECT	50V	0.47μF	
C3041	ECA1HMR47GB	ELECT	50V	0.47μF	
C3043	ECA1HM4R7GB	ELECT	50V	4.7μF	
C3045	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3049	ECUV1H222KBX	S.M.CAP	50V	2.2nF	
C3050	ECUV1H222KBX	S.M.CAP	50V	2.2nF	
C3051	ECUV1H222KBX	S.M.CAP	50V	2.2nF	
C3052	ECUV1H222KBX	S.M.CAP	50V	2.2nF	
C3053	ECUV1H222KBX	S.M.CAP	50V	2.2nF	
C3054	ECUV1H222KBX	S.M.CAP	50V	2.2nF	
C3055	ECUV1H222KBX	S.M.CAP	50V	2.2nF	
C3056	ECUV1H101JCX	S.M.CAP	50V	100pF	
C3062	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3071	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3073	ECUV1H222KBX	S.M.CAP	50V	2.2nF	
C3151	ECUV1H561JCX	S.M.CAP	50V	560pF	
C3152	ECUV1H561JCX	S.M.CAP	50V	560pF	

Ref No.	Part No.	Description			
C3501	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3502	ECA1HM101GB	ELECT	50V	100pF	
C3503	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C3504	ECUV1H102JCX	S.M.CAP	50V	1nF	
C3505	ECUV1H104ZFX	S.M.CAP	50V	100nF	
C3506	ECA1CM470GB	ELECT	16V	47μF	
C3507	ECA1CM470GB	ELECT	16V	47μF	
C3508	ECUV1H473ZFX	S.M.CAP	50V	47nF	
C3509	ECUV1H103ZFX	S.M.CAP	50V	10nF	
C3510	ECA0JM102GB	ELECT	6.3V	1nF	
C3511	ECUV1H103ZFX	S.M.CAP	50V	10nF	
DIODES					
D251	MA2180TP	DIODE			
D253	RB721Q40T77	DIODE			
D254	RB721Q40T77	DIODE			
D310	MA165TA5	DIODE 1SS133T-77			
D311	MA29TA5	DIODE			
D312	MA29TA5	DIODE			
D354	ERA22-04V1	DIODE			
D355	ERA22-04V1	DIODE			
D356	ERA22-04V1	DIODE			
D357	MA165TA5	DIODE 1SS133T-77			
D358	MA165TA5	DIODE 1SS133T-77			
D359	MA165TA5	DIODE 1SS133T-77			
D360	MA4150	DIODE			
D451	MA165TA5	DIODE 1SS133T-77			
D452	MA165TA5	DIODE 1SS133T-77			
D454	ERA15-02V3	DIODE			
D456	MA2160BLFS	DIODE			
D470	MA4020	DIODE			
D501	MA165TA5	DIODE 1SS133T-77			
D502	EU02	DIODE			
D551	ERD07-15L7	DIODE			
D552	TVSRU2AM	DIODE			
D554	AU02V0	DIODE			
D556	MA165TA5	DIODE 1SS133T-77			
D601	MA165TA5	DIODE 1SS133T-77			
D602	MA165TA5	DIODE 1SS133T-77			
D604	MA165TA5	DIODE 1SS133T-77			
D605	MA165TA5	DIODE 1SS133T-77			
D606	MA165TA5	DIODE 1SS133T-77			
D609	MA165TA5	DIODE 1SS133T-77			
D701	MA165TA5	DIODE 1SS133T-77			
D702	MTZJT-775.6C	DIODE			
D707	MTZJT-775.6C	DIODE			
D804	ERA15-02V3	DIODE			
D805	EU02	DIODE			
D806	RBV4-08	DIODE			
D807	EU02	DIODE			
D809	MA165TA5	DIODE 1SS133T-77			
D814	MA165TA5	DIODE 1SS133T-77			
D851	EU02	DIODE			
D852	ERD32-02L7	DIODE			
D853	FML22SLF610	DIODE			
D854	RU4AMLF-M1	DIODE			
D855	RU4BLF-L1	DIODE			
D856	MTZJT-774.7A	DIODE			
D857	MTZJ33B	DIODE			
D858	MA29TA5	DIODE			
D901	MA165TA5	DIODE 1SS133T-77			
D902	MA165TA5	DIODE 1SS133T-77			
D904	MA165TA5	DIODE 1SS133T-77			
D906	RLS72TE-11	DIODE OR PMILL4148			
D1203	MA170	DIODE			
D1204	SLR56UR3FLF	LED			
D1205	MA165TA5	DIODE 1SS133T-77			
D1206	MTZJT-778.2C	DIODE			
D1207	MA165TA5	DIODE 1SS133T-77			
D1208	MA165TA5	DIODE 1SS133T-77			
D1209	MA165TA5	DIODE 1SS133T-77			
D1210	MA165TA5	DIODE 1SS133T-77			

Ref No.	Part No.	Description	
D1211	MTZJT-775.1C	DIODE	
D1212	MA170	DIODE	
D1213	MA165TA5	DIODE 1SS133T-77	
D1214	MA170	DIODE	
D1216	MTZJT-778.2C	DIODE	
D2303	MA165TA5	DIODE 1SS133T-77	
D2304	MTZJT-779.1C	DIODE	
D3001	MTZJT-7712C	DIODE	
D3003	MTZJT-778.2C	DIODE	
D3004	MA4100	DIODE	
D3005	MTZJT-7712C	DIODE	
D3006	MTZJT-7712C	DIODE	
D3007	MTZJT-7712C	DIODE	
D3008	MTZJT-778.2C	DIODE	
D3009	MTZJT-778.2C	DIODE	
D3010	MTZJT-778.2C	DIODE	
D3011	MTZJT-778.2C	DIODE	
D3012	MTZJT-7712C	DIODE	
D3013	MTZJT-7712C	DIODE	
D3014	MTZJT-7712C	DIODE	
D3015	MTZJT-7712C	DIODE	
D3016	MTZJT-7712C	DIODE	
D3018	MA165TA5	DIODE 1SS133T-77	
D3019	MA165TA5	DIODE 1SS133T-77	
D3501	MA165TA5	DIODE 1SS133T-77	
FUSES			
F840	2153.15H	FUSE	▲
F851	TR5-T1250	FUSE	▲
F852	TR5-T2000	FUSE	▲
F853	TR5-T2000	FUSE	▲
F8401	EYF52BC	FUSE HOLDER	
F8402	EYF52BC	FUSE HOLDER	
SOCKETS			
H1202	832AG11D-ESL	I.C.SOCKET	
INTEGRATED CIRCUITS			
IC103	L78M12MRB	12V REGULATOR	
IC104	AN78L09TA	9V REGULATOR	
IC1061	RPM-637CBRL	LED RECEIVER	
IC1201	CCU3000I-07	CENTRAL CONTROL UNIT	
IC1205	MN1280R	RESET	
IC2101	MSP3410BPPF7	AUDIO PROCESSOR	
IC2301	AN78L08TA	8V REGULATOR	
IC251	LA4280-TV	AUDIO OUTPUT	
IC3001	TEA6415C	VIDEO SWITCH	
IC3501	UD61256DC-08	DYNAMIC RAM	
IC3502	TPU3041-22	TEXT PROCESSOR	
IC351	TDA6103Q-N3	R.G.B.AMPLIFIER	
IC451	LA7845N	VERTICAL OUTPUT	
IC601	VDP3108APPA1	VIDEO PROCESSOR	
IC701	TEA2031A	HORIZONTAL OUTPUT	
IC801	TDA4601	POWER SUPPLY	
IC851	L78M12MRB	12V REGULATOR	
TERMINALS AND LINKS			
JA.1	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.1	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.10	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.11	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.12	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.13	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.14	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.15	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.16	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.17	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.18	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.19	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.2	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.2	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	

Ref No.	Part No.	Description	
JA.20	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.21	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.22	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.24	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.25	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.26	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.27	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.28	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.29	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.3	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.30	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.4	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.5	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.6	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.7	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.8	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.9	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.33	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.34	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JA.35	ERJ8GEY0R00	S.M.CAR .125W 5% Ω	
JA.36	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB1	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB10	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB11	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB12	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB13	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB14	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB15	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB16	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB17	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB18	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB19	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB2	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB20	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB22	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB23	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB24	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB25	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB26	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB27	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB28	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB29	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB3	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB30	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB31	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB32	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB33	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB34	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB35	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB36	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB37	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB38	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB39	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB40	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB41	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB42	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB43	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB44	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB45	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB46	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB47	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB48	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB49	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB50	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB51	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB52	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB53	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB54	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB55	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB56	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB57	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	
JB58	ERJ6GEY0R00	S.M.CARB 0.1W 5% Ω	

Ref No.	Part No.	Description				
JB59	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB6	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB61	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB62	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB63	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB64	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB65	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB66	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB67	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB68	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB69	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB70	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB71	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB72	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB73	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB74	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB75	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB77	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB79	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB80	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB81	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JB9	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JK2301	TJB18644	AV TERMINAL				
JK3001	TJS8E007	21PIN TERMINAL				
JK3101	TJS8E007	21PIN TERMINAL				
JK3102	TJB16673	AV TERMINAL				
JSB1	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSB12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSB13	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSB14	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSB2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSB4	EXCELSA35T	COIL				
JSE011	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSE012	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSE013	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSE014	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSE015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSE016	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSE031	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSE032	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSE036	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
JSE038	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω	
J104	EXCELSA35T	COIL				
J106	EXCELSA35T	COIL				
J107	EXCELSA35T	COIL				
J169	EXCELSA35T	COIL				

COILS

L001	TLT100K991R	COIL
L111	TLT101K991R	COIL
L112	EXCELSA35T	COIL
L113	EXCELSA35T	COIL
L114	TLT100K991R	COIL
L130	ELESN8R2KA	COIL
L132	ELESN8R2KA	COIL
L202	TLT068K991R	COIL
L251	EXCELSA35T	COIL
L301	TLT047K991R	COIL
L302	EXCEMT101BT	COIL
L303	EXCEMT101BT	COIL
L304	EXCEMT101BT	COIL
L352	SDL-4101	COIL
L353	SDL-4101	COIL
L354	SDL-4101	COIL
L552	ELH5L437	COIL
L553	ELC08D055	COIL
L554	297-23293	COIL
L601	TLT047K991R	COIL
L602	EXCELDR35V	COIL
L603	TLT047K991R	COIL

Ref No.	Part No.	Description				
L604	EXCELDR35V	COIL				
L606	TLT015K991R	COIL				
L607	EXCELSA35T	COIL				
L701	ELC10D006	COIL				
L801	EXCELSA24T	COIL				
L802	TLT022K991R	COIL				
L804	ELESN4R7KA	COIL				
L805	298-82858002	COIL				
L841	ELF18D490F	COIL				
L851	EXCELDR35V	COIL				
L852	EXCELSA35T	COIL				
L853	ELEIE470KA	COIL				
L854	ELEIN470KA	COIL				
L855	ELEIN470KA	COIL				
L856	ELEIN470KA	COIL				
L901	EXCELSA24T	COIL				
L902	EXCELSA24T	COIL				
L1201	TLT047K991R	COIL				
L1202	TLT047K991R	COIL				
L1203	TLT047K991R	COIL				
L1204	EXCELDR35V	COIL				
L2101	TLT100K991R	COIL				
L2102	TLT039K991R	COIL				
L2103	EXCELSA35T	COIL				
L2104	EXCELSA35T	COIL				
L3151	EXCEMT101BT	COIL				
L3152	EXCEMT101BT	COIL				
L3153	EXCEMT101BT	COIL				
L3154	EXCEMT101BT	COIL				
L3155	ELEBT6R8KA	COIL				
L3156	ELEBT6R8KA	COIL				
L3158	EXCELSA39V	COIL				
L3501	EXCELDR35V	COIL				
L3502	EXCELDR35V	COIL				
L3503	ELESN4R7KA	COIL				
L3504	EXCELSA35T	COIL				

TRANSISTORS

Q201	BC847B	TRANSISTOR OR 2SD601ATX
Q202	BC847B	TRANSISTOR OR 2SD601ATX
Q251	2SD1328STX	TRANSISTOR
Q252	2SD1328STX	TRANSISTOR
Q301	BC857B	TRANSISTOR OR 2SB709ATX
Q302	BC847B	TRANSISTOR OR 2SD601ATX
Q303	BC857B	TRANSISTOR OR 2SB709ATX
Q304	BC847B	TRANSISTOR OR 2SD601ATX
Q305	BC857B	TRANSISTOR OR 2SB709ATX
Q306	BC847B	TRANSISTOR OR 2SD601ATX
Q307	BC847B	TRANSISTOR OR 2SD601ATX
Q308	BC847B	TRANSISTOR OR 2SD601ATX
Q309	BC847B	TRANSISTOR OR 2SD601ATX
Q310	BC847B	TRANSISTOR OR 2SD601ATX
Q311	BC847B	TRANSISTOR OR 2SD601ATX
Q351	2SA1767	TRANSISTOR
Q352	2SA1767	TRANSISTOR
Q353	2SA1767	TRANSISTOR
Q451	BC847B	TRANSISTOR OR 2SD601ATX
Q501	BC847B	TRANSISTOR OR 2SD601ATX
Q502	BC847B	TRANSISTOR OR 2SD601ATX
Q503	2SD836-AL	TRANSISTOR
Q504	BC847B	TRANSISTOR OR 2SD601ATX
Q551	2SD1577LB	TRANSISTOR
Q552	2SC1473-RN	TRANSISTOR
Q701	BC857B	TRANSISTOR OR 2SB709ATX
Q802	S2000NLBMA	TRANSISTOR
Q851	2SD1273PLB	TRANSISTOR ALT2SD2396/JM3
Q852	TFD312SOF632	DIODE
Q901	BC847B	TRANSISTOR OR 2SD601ATX
Q902	BC847B	TRANSISTOR OR 2SD601ATX
Q903	BC847B	TRANSISTOR OR 2SD601ATX
Q904	BC857B	TRANSISTOR OR 2SB709ATX
Q905	BC847B	TRANSISTOR OR 2SD601ATX

Ref No.	Part No.	Description			
Q906	BC847B	TRANSISTOR OR 2SD601ATX			
Q907	BC857B	TRANSISTOR OR 2SB709ATX			
Q908	2SB940APLB	TRANSISTOR			
Q909	2SD1264APLB	TRANSISTOR			
Q1202	BC847B	TRANSISTOR OR 2SD601ATX			
Q1205	BC847B	TRANSISTOR OR 2SD601ATX			
Q1206	BC847B	TRANSISTOR OR 2SD601ATX			
Q1207	BC847B	TRANSISTOR OR 2SD601ATX			
Q1208	BC857B	TRANSISTOR OR 2SB709ATX			
Q1211	BC547B	TRANSISTOR			
Q1212	BC847B	TRANSISTOR OR 2SD601ATX			
Q1213	BC847B	TRANSISTOR OR 2SD601ATX			
Q2101	BC860B	TRANSISTOR			
Q2102	BC860B	TRANSISTOR			
Q2301	BC857B	TRANSISTOR OR 2SB709ATX			
Q2302	BC857B	TRANSISTOR OR 2SB709ATX			
Q2305	2SD1328STX	TRANSISTOR			
Q2306	2SD1328STX	TRANSISTOR			
Q2307	BC860B	TRANSISTOR			
Q2308	BC857B	TRANSISTOR OR 2SB709ATX			
Q2309	BC860B	TRANSISTOR			
Q2310	BC860B	TRANSISTOR			
Q3001	2SC1318-S	TRANSISTOR			
Q3004	BC847B	TRANSISTOR OR 2SD601ATX			
Q3005	BC847B	TRANSISTOR OR 2SD601ATX			
Q3006	2SC1318-S	TRANSISTOR			
Q3011	BC857B	TRANSISTOR OR 2SB709ATX			
Q3012	2SD1328STX	TRANSISTOR			
Q3013	2SD1328STX	TRANSISTOR			
RESISTOR					
RL1201	TSE1885-1	TRANSISTOR			
R.604	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω			
R.622	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω			
R.925	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω			
R.926	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω			
R130	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω			
R131	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω			
R132	ERJ6GEYJ223	S.M.CARB 0.1W 5% 22KΩ			
R133	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω			
R134	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω			
R136	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω			
R147	ERJ6GEYJ821	S.M.CARB 0.1W 5% 820Ω			
R201	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R203	ERJ6GEY0R00	S.M.CARB 0.1W 5% 0Ω			
R204	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R205	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω			
R206	ERJ6GEYJ681	S.M.CARB 0.1W 5% 680Ω			
R207	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ			
R208	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω			
R209	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω			
R210	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R251	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω			
R252	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7Ω			
R253	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ			
R254	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω			
R255	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ			
R256	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R257	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω			
R258	ERJ6GEYJ272	S.M.CARB 0.1W 5% 2K7Ω			
R259	ERJ6GEYJ100	S.M.CARB 0.1W 5% 10Ω			
R260	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ			
R261	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R262	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ			
R265	ERD25TJ2R2	CARBON 0.25W 5% 2R2Ω			
R266	ERD25TJ2R2	CARBON 0.25W 5% 2R2Ω			
R267	ERF7ZK4R7	WOUND 7W 10% 4R7Ω ▲			
R271	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ			
R272	ERF7ZK5R6	WOUND 7W 10% 5R6Ω ▲			
R273	ERD25TJ273	CARBON 0.25W 5% 27KΩ			
R301	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω			
R302	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			

Ref No.	Part No.	Description			
R303	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R304	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R305	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω			
R306	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R307	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R308	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R309	ERJ6GEYJ750	S.M.CARB 0.1W 5% 75Ω			
R310	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R311	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R312	ERJ6GEYJ471	S.M.CARB 0.1W 5% 470Ω			
R313	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω			
R314	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω			
R315	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω			
R316	ERJ6GEYJ332	S.M.CARB 0.1W 5% 3K3Ω			
R321	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ			
R322	ERJ6GEYJ473	S.M.CARB 0.1W 5% 47KΩ			
R323	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ			
R324	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ			
R351	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ			
R352	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ			
R353	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ			
R354	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ			
R355	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ			
R356	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ			
R357	ERG1FJ683P	METAL 1W 5% 68KΩ ▲			
R358	ERG1FJ683P	METAL 1W 5% 68KΩ ▲			
R359	ERG1FJ683P	METAL 1W 5% 68KΩ ▲			
R363	ERD25TJ103	CARBON 0.25W 5% 10KΩ			
R364	ERD25TJ103	CARBON 0.25W 5% 10KΩ			
R365	ERD25TJ103	CARBON 0.25W 5% 10KΩ			
R366	ERDS1TJ152	CARBON 0.5W 5% 1K5Ω			
R367	ERDS1TJ152	CARBON 0.5W 5% 1K5Ω			
R368	ERDS1TJ152	CARBON 0.5W 5% 1K5Ω			
R369	ERD25TJ203	CARBON 0.25W 5% 20KΩ			
R370	ERJ6GEYJ822	S.M.CARB 0.1W 5% 8K2Ω			
R372	ERQ12AJ121	FUSIBLE 0.5W 5% 120Ω ▲			
R373	ERJ6GEYJ220	S.M.CARB 0.1W 5% 22Ω			
R374	ERD25TJ274	CARBON 0.25W 5% 270KΩ			
R375	ERJ6GEYJ684	S.M.CARB 0.1W 5% 680KΩ			
R376	ERJ6GEYJ183	S.M.CARB 0.1W 5% 18KΩ			
R377	ERQ1CJP4R7	FUSABLE 1W 1% 4R7Ω ▲			
R381	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ			
R382	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ			
R383	ERJ6GEYJ102	S.M.CARB 0.1W 5% 1KΩ			
R451	ERJ6GEYJ393	S.M.CARB 0.1W 5% 39KΩ			
R452	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω			
R453	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ			
R455	ERJ6GEYJ222	S.M.CARB 0.1W 5% 2K2Ω			
R456	ERJ6GEYJ123	S.M.CARB 0.1W 5% 12KΩ			
R457	ERJ6GEYJ103	S.M.CARB 0.1W 5% 10KΩ			
R458	ERD25TJ1R5	CARBON 0.25W 5% 1R5Ω			
R459	ERJ6GEYJ680	S.M.CARB 0.1W 5% 68Ω			
R460	ERJ6GEYJ513	S.M.CARB 0.1W 5% 51KΩ			
R461	ERDS1TJ471	CARBON 0.5W 5% 470Ω			
R462	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω			
R463	ERJ6GEYJ472	S.M.CARB 0.1W 5% 4K7Ω			
R464	ERW12PKR68	WIREWOUND 0.5W 10% R68Ω ▲			
R465	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω			
R466	ERO25CKF1801	METAL 0.25W 1% 1K8Ω ▲			
R467	ERO25CKF1801	METAL 0.25W 1% 1K8Ω ▲			
R470	ERD25TJ512	CARBON 0.25W 5% 5K1Ω			
R471	ERDS1TJ152	CARBON 0.5W 5% 1K5Ω			
R472	ERDS1TJ4R7	CARBON 0.5W 5% 4R7Ω			
R501	ERJ6GEYJ331	S.M.CARB 0.1W 5% 330Ω			
R502	ERJ6GEYJ560	S.M.CARB 0.1W 5% 56Ω			
R503	ERJ6GEYJ273	S.M.CARB 0.1W 5% 27KΩ			
R504	ERJ6GEYJ101	S.M.CARB 0.1W 5% 100Ω			
R506	ERD25TJ560	CARBON 0.25W 5% 56Ω			
R507	ERQ14AJW3R3	FUSABLE 0.25W 5% 3R3Ω ▲			
R509	ERDS1TJ152	CARBON 0.5W 5% 1K5Ω			
R510	ERDS1TJ152	CARBON 0.5W 5% 1K5Ω			
R511	ERJ6GEYJ104	S.M.CARB 0.1W 5% 100KΩ			

Ref No.	Part No.	Description			
R512	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R513	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ
R514	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ
R551	ERW2PKR47	WIREWOUND2W	10%0R47Ω	△	
R553	ERG1SJ152	METAL	1W	5%	1K5Ω
R554	ERQ1AJW101	METAL	0.25W	5%	100Ω
R558	ERDS1TJ124	CARBON	0.5W	5%	120KΩ
R561	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ
R562	ERJ6GEYJ225	SM.CARB0.125W	5%	2.2MΩ	
R563	ERJ6GEYJ225	SM.CARB0.125W	5%	2.2MΩ	
R564	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R566	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8Ω
R567	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270KΩ
R601	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω
R602	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω
R603	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R605	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KΩ
R606	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R607	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R608	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R609	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R610	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ
R611	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R612	ERJ6GEYJ123	S.M.CARB	0.1W	5%	12KΩ
R613	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270Ω
R614	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R615	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33KΩ
R616	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R618	ERJ6GEYJ151	S.M.CARB	0.1W	5%	150Ω
R619	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R623	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820Ω
R701	ERQ12AJ101	FUSIBLE	0.5W	5%	100Ω
R702	ERQ12HJ8R2	METAL	0.5W	5%	8R2Ω
R703	ERG2FJ821	METAL	2W	5%	820Ω
R704	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56KΩ
R705	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R706	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R707	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8Ω
R708	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ
R709	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ
R710	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27KΩ
R711	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R712	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R713	ERG1SJ101	METAL	1W	5%	100Ω
R801	ERG3FJ682H	METAL	3W	5%	6K8Ω
R802	ERG2FJ472	METAL	2W	5%	4K7Ω
R803	ERX12SJWR47	METAL	12W	5%	R47Ω
R804	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8Ω
R805	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω
R807	ERO25CKF1201	METAL	0.25W	1%	1K2Ω
R808	232266296706	THERMISTOR			
R809	ERO25CKF1332	METAL	0.25W	1%	13KΩ
R810	ERD25TJ103	CARBON	0.25W	5%	10KΩ
R811	EVMEA00B33	CONTROL	3KΩ		
R812	ERDS1TJ220	CARBON	0.5W	5%	22Ω
R813	ERD50FJ274	CARBON	0.5W	5%	270KΩ
R814	ERF7ZK2R7	WOUND	7W	20%	2R7Ω
R815	ERDS1TJ563	CARBON	0.5W	5%	56KΩ
R817	ERG3FJ470	METAL	3W	5%	47Ω
R818	ERD50FJ104	CARBON	0.5W	5%	100KΩ
R819	ERD50FJ184	CARBON	0.5W	5%	180KΩ
R820	ERD75TAJ825	CARBON	0.75W	5%	8M2Ω
R841	ERC12ZGK335D	SOLID	0.5W	10%	3M3Ω
R852	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270Ω
R853	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R854	ERDS1TJ474	CARBON	0.5W	5%	470KΩ
R855	ERG2FJ223	METAL	2W	5%	22KΩ
R856	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R901	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω
R902	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω
R903	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6Ω

Ref No.	Part No.	Description			
R904	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R905	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680Ω
R906	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ
R907	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R908	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R909	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R910	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R911	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω
R913	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KΩ
R914	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R915	ERJ6GEYJ182	S.M.CARB	0.1W	5%	1K8Ω
R916	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220Ω
R917	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120Ω
R919	ERQ1AJ390	FUSABLE	0.25W	5%	39Ω
R920	ERQ1AJ390	FUSABLE	0.25W	5%	39Ω
R921	ERD25TJ471	CARBON	0.25W	5%	470Ω
R922	ERD25TJ393	CARBON	0.25W	5%	39KΩ
R923	ERD25TJ393	CARBON	0.25W	5%	39KΩ
R924	ERDS1FJ390	CARBON	0.5W	5%	39Ω
R927	ERD25TJ471	CARBON	0.25W	5%	470Ω
R928	ERD25TJ5R6	CARBON	0.25W	5%	5R6Ω
R929	ERDS1FJ471	CARBON	0.5W	5%	470Ω
R930	ERD25TJ5R6	CARBON	0.25W	5%	5R6Ω
R931	ERDS1FJ390	CARBON	0.5W	5%	39Ω
R932	ERDS1FJ101	CARBON	0.5W	5%	100Ω
R933	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R934	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R935	ERQ1AJ3R9	FUSIBLE	0.25W	5%	3R9Ω
R936	ERQ1CJP331	METAL	1W	5%	330Ω
R937	ERQ1AJ100	METAL	0.25W	5%	10Ω
R1203	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1204	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1205	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1206	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1208	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ
R1209	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1210	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1212	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1213	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1214	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1215	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1216	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1217	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1218	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1219	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1220	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1221	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1222	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1224	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1225	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1226	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1227	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1229	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω
R1230	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω
R1231	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1232	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1233	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1235	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1236	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1237	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1238	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ
R1239	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω
R1240	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω
R1241	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1242	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1244	ERJ6GEYOR00	S.M.CARB	0.1W	5%	0Ω
R1245	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R1246	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1247	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1249	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1250	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1251	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39KΩ

Ref No.	Part No.	Description			
R1252	ERX1SJ3R3	METAL	1W	5%	3R3Ω
R1253	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R1254	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R1255	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R1256	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R1257	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1258	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
R1260	ERDS1FJ121	CARBON	0.5W	5%	120Ω △
R1261	ERJ6GEYJ392	S.M.CARB	0.1W	5%	3K9Ω
R1262	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8Ω
R1263	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ
R1264	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R1265	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5Ω
R1266	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ
R1277	ERDS1TJ151	CARBON	0.5W	5%	150Ω
R1281	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270Ω
R1282	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R1283	ERD25TJ750	CARBON	0.25W	5%	75Ω
R2101	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2102	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R2103	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2104	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2105	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R2106	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KΩ
R2107	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2108	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R2109	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R2110	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R2111	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R2301	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R2302	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R2303	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2304	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2313	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R2314	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R2315	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ
R2316	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R2318	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R2321	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R2322	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2323	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R2324	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2325	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27KΩ
R2326	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2327	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2328	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47KΩ
R2329	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R2330	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2Ω
R2331	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22KΩ
R2332	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2333	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R2334	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R2335	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R2651	ERG2FJ221	METAL	2W	5%	220Ω △
R2652	ERG2FJ221	METAL	2W	5%	220Ω △
R2653	ERDS1TJ151	CARBON	0.5W	5%	150Ω
R2654	ERDS1TJ151	CARBON	0.5W	5%	150Ω
R3001	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3002	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3003	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3004	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3005	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R3006	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R3007	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3008	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R3009	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R3010	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560Ω
R3011	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3012	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3013	ERJ6GEYJ561	S.M.CARB	0.1W	5%	560Ω
R3014	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3015	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω

Ref No.	Part No.	Description			
R3016	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3017	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R3019	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R3020	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3022	ERD2FCG560	CARBON	2W	2%	56Ω
R3024	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R3025	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3026	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R3027	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω
R3029	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω
R3030	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3032	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω
R3034	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3036	ERJ6GEYJ220	S.M.CARB	0.1W	5%	22Ω
R3037	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3038	ERD2FCG100	CARB	2W	2%	10Ω
R3039	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3040	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3041	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3042	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8Ω
R3043	ERD2FCG100	CARB	2W	2%	10Ω
R3044	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3045	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470Ω
R3046	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3047	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω
R3048	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1KΩ
R3049	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68Ω
R3050	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3051	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3052	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3053	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3054	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3055	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3056	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3057	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3058	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3059	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15KΩ
R3060	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R3062	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3063	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3064	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3065	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R3066	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100KΩ
R3067	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27KΩ
R3068	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3069	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3070	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3071	ERJ6GEYJ470	S.M.CARB	0.1W	5%	47Ω
R3150	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3151	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3152	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3153	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3154	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KΩ
R3155	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3156	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3157	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KΩ
R3158	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75Ω
R3502	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3504	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100Ω
R3505	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
R3508	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18KΩ
R3511	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10KΩ
R3512	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7Ω
SWITCHES					
S801	ESB91232A	SWITCH			
S1201	EVQ23405R	SWITCH			
S1202	EVQ23405R	SWITCH			
S1203	EVQ23405R	SWITCH			
S1204	EVQ23405R	SWITCH			
S1205	EVQ23405R	SWITCH			

△

Ref No.	Part No.	Description
TRANSFORMERS		
T501	5270103200	TRANSFORMER
T801	TLP8E1004	TRANSFORMER
T1201	ETP35KAN61ZU	TRANSFORMER

Ref No.	Part No.	Description
FILTERS		
X601	TSS2169-B	CRYSTAL
X1201	TSS120M2	CRYSTAL
X2101	4730007158	CRYSTAL

NOTE:

For models with the dark walnut finish please refer to the TX-28XD3P/A and TX-25XD3P/A Difference Lists.

Ref No.	Part No.	Description
DIFFERENCES FOR MODEL TX-28XD3P		
MISCELLANEOUS COMPONENTS		
5)	TLK8E05125	DEGAUSS COIL
7)	A66ECF50X32	CRT
8)	TKY8E160	CABINET
9)	TKP8E1169	SPEAKER NET
11)	TKP8E1175	LEFT PANEL (BLACK)
12)	TKP8E1172	TOP PANEL (BLACK)
15)	TKU8E00320	BACK COVER
18)	TNP8EE008BN	E PC.B.
23)	TKP8E1176	RIGHT PANEL (BLACK)
	TBM8E1723	MODEL LABEL
	TMW8E020-1	LED HOLDER
	TPC8E4586	OUTER CARTON
	TPD8E633	TOP CUSHION
	TPD8E634	BOTTOM CUSHION
INTEGRATED CIRCUITS		
IC1202	27C010-101AE	EPROM
IC1203	X24LM0401TE	EAROM
TRANSFORMERS		
T551	ZTFH44011A	F.B.T.

Ref No.	Part No.	Description
DIFFERENCES FOR MODEL TX-25XD3P		
MISCELLANEOUS COMPONENTS		
5)	TLK8E05120	DEGAUSS COIL
7)	A59ECF50X32	CRT
8)	TKY8E150	CABINET
9)	TKP8E1168	SPEAKER NET
11)	TKP8E1173	LEFT PANEL (BLACK)
12)	TKP8E1171	BLACK TOP PANEL
15)	TKU8E00310	BACK COVER
18)	TNP8EE008BM	E PC.B.
23)	TKP8E1174	RIGHT PANEL(BLACK)
	TBM8E1722	MODEL LABEL
	TPC8E4584	OUTER CARTON
	TPD8E631	TOP CUSHION
	TPD8E632	BOTTOM CUSHION
INTEGRATED CIRCUITS		
IC1202	27C010-101AD	EPROM
IC1203	X24LM0401TD	EAROM
TRANSFORMERS		
T551	KFT4AA098F	F.B.T.

Ref No.	Part No.	Description
DIFFERENCES FOR MODEL TX-28XD3P/A		
MISCELLANEOUS COMPONENTS		
5)	TLK8E05125	DEGAUSS COIL
7)	A66ECF50X32	CRT
8)	TKY8E160	CABINET
9)	TKP8E1169	SPEAKER NET
10)	TBX8E045	POWER BUTTON (DARK WALNUT)
11)	TKP8E1184	LEFT PANEL (DARK WALNUT)
12)	TKP8E1182	TOP PANEL (DARK WALNUT)
14)	TBM8E1723	MODEL LABEL
15)	TKU8E00320	BACK COVER
18)	TNP8EE008BN	E.P.C.B.
23)	TKP8E1186	RIGHT PANEL (DARK WALNUT)
24)	TKP8E1180	DOOR LID (DARK WALNUT)
	TPC8E4586	OUTER CARTON
	TPD8E633	TOP CUSHION
	TPD8E634	BOTTOM CUSHION
INTEGRATED CIRCUITS		
IC1202	27C010-101AE	EPROM
IC1203	X24LM0401TE	EAROM
TRANSFORMERS		
T551	ZTFH44011A	F.B.T.

Ref No.	Part No.	Description
DIFFERENCES FOR MODEL TX-25XD3P/A		
MISCELLANEOUS COMPONENTS		
5)	TLK8E05120	DEGAUSS COIL
7)	A59ECF50X32	CRT
8)	TKY8E150	CABINET
9)	TKP8E1168	SPEAKER NET
10)	TBX8E045	POWER BUTTON (DARK WALNUT)
11)	TKP8E1192	LEFT PANEL (DARK WALNUT)
12)	TKP8E1190	TOP PANEL (DARK WALNUT)
14)	TBM8E1657	MODEL LABEL
15)	TKU8E00310	BACK COVER
18)	TNP8EE008BM	E.P.C.B.
23)	TKP8E1194	RIGHT PANEL (DARK WALNUT)
24)	TKP8E1180	DOOR LID (DARK WALNUT)
	TPC8E4584	OUTER CARTON
	TPD8E631	TOP CUSHION
	TPD8E632	BOTTOM CUSHION
INTEGRATED CIRCUITS		
IC1202	27C010-101AD	EPROM
IC1203	X24LM0401TD	EAROM
TRANSFORMERS		
T551	KFT4AA098F	F.B.T.

SCHEMATIC DIAGRAM FOR MODELS TX-28/25XD3P (EURO-2M CHASSIS)

IMPORTANT SAFETY NOTICE

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

Notes

1. RESISTOR
All resistors are carbon 1/4W resistor, unless marked.
Unit of resistance is OHM (Ω) (K=1,000, M=1,000,000).
2. CAPACITOR
All capacitors are ceramic 50V capacitors, unless marked, the unit of capacitance is μF unless otherwise stated.
3. COIL
Unit of inductance is μH , 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 DC voltmeter.
Measurement conditions are as follows:

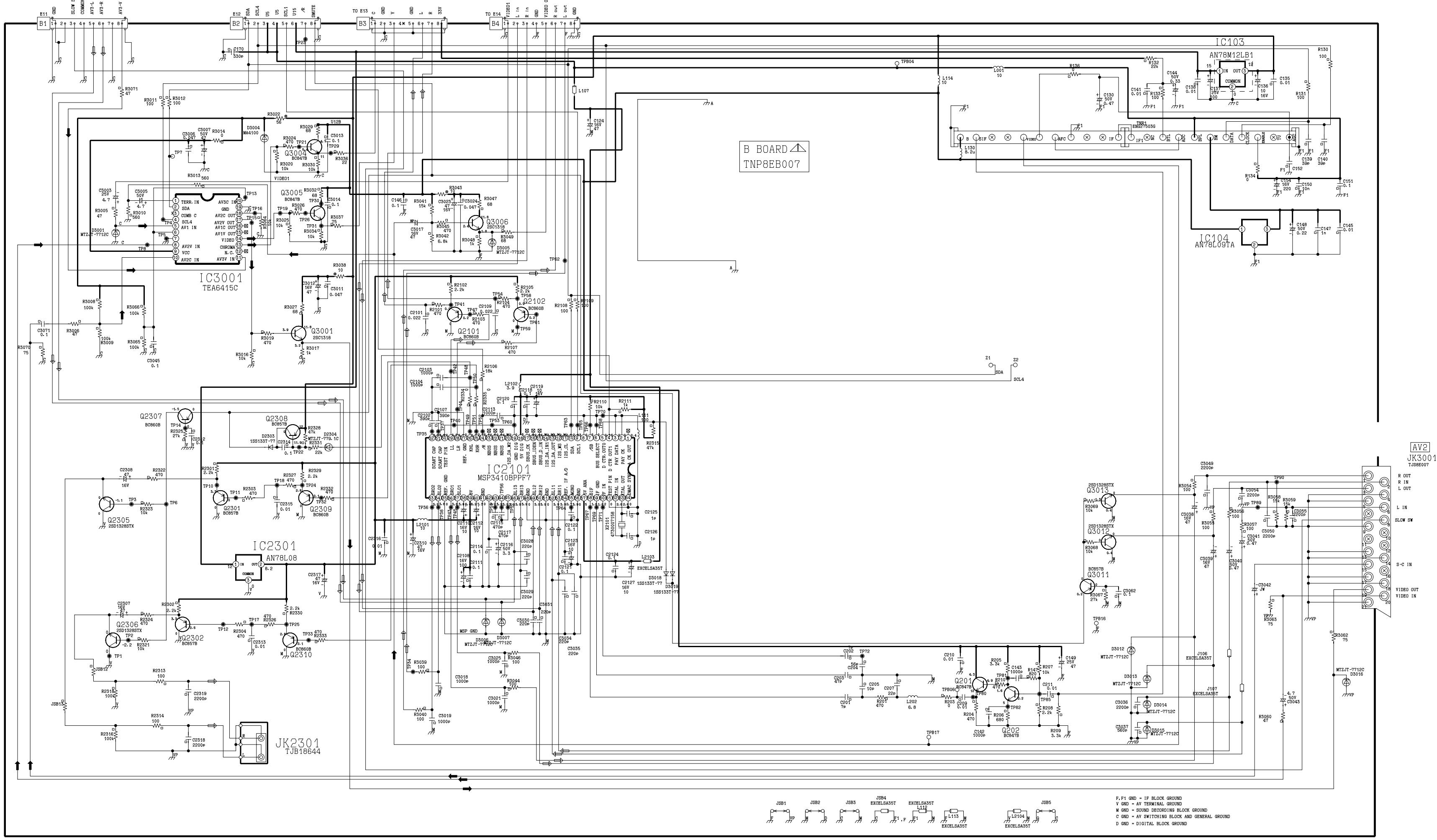
Power source	AC 220–240V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Maximum position
7.
 : Indicates the Video signal path
 : Indicates the Audio signal path
 : Indicates the Vertical/Horizontal signal path
8. This schematic diagram is the latest at the time of printing and is subject to change without notice.

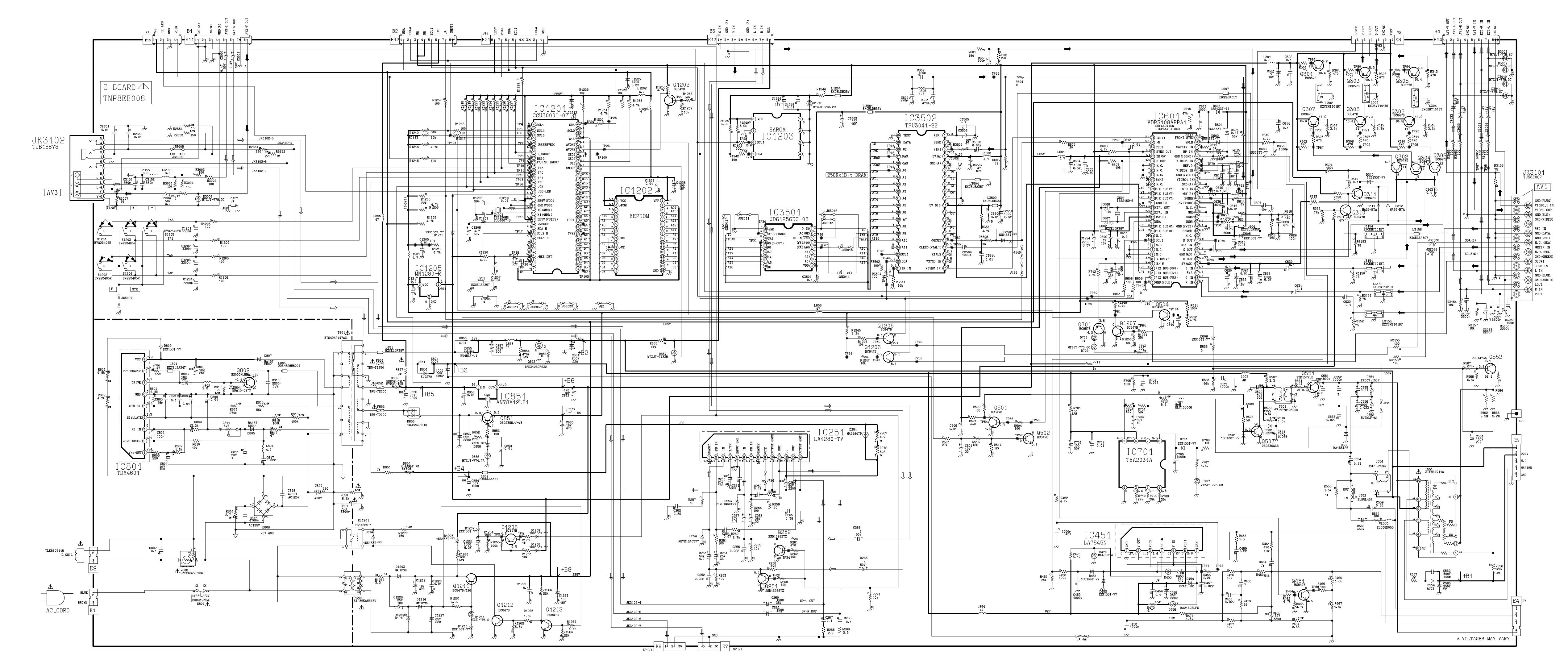
Precautions

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

Remarks

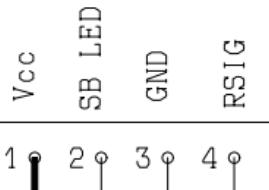
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.



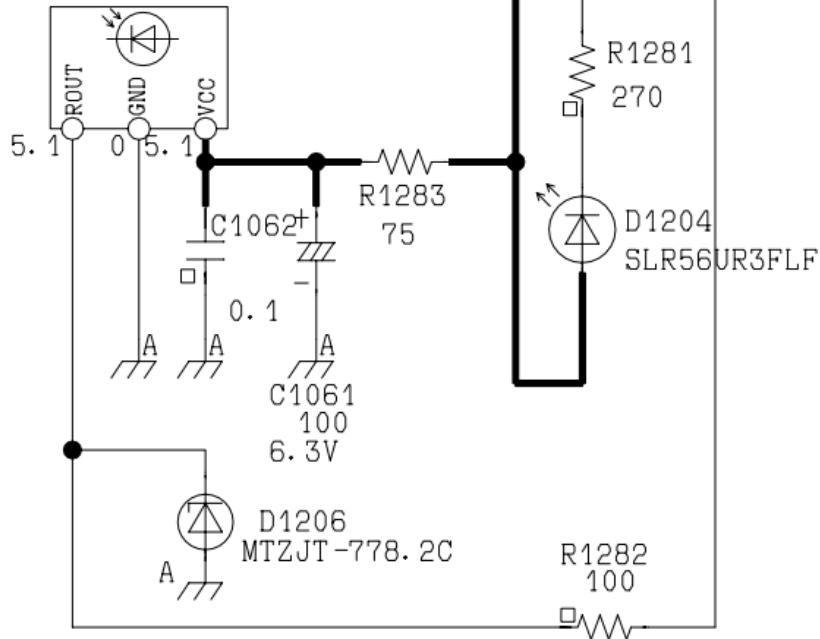


N BOARD ▲
TNP8EN014

TO E-10



IC1061
RPM-637CBRL



P BOARD ▲
TNP8EP013

