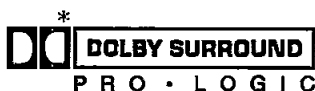


Service Manual

AV Control Stereo Receiver

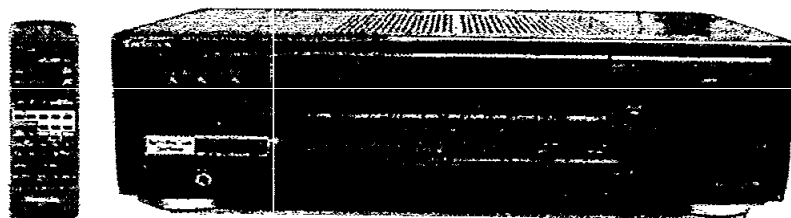


Receiver

SA-EX310

Colour

(K) Black Type



Area

Suffix for Model No.	Area	Colour
(E)	Europe	(K)
(EB)	Great Britain	
(EG)	Germany and Italy	

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,692,886, 3,746,792 and 3,959,590; Canadian numbers 1,004,603 and 1,037,877.

"Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

Specifications

FM Tuner Section

Frequency range	87.50 — 108.00 MHz
Sensitivity	
S/N 30 dB	1.5 μ V / 75 Ω
S/N 26 dB	1.3 μ V / 75 Ω
S/N 20 dB	1.2 μ V / 75 Ω
IHF usable sensitivity	1.5 μ V / 75 Ω (IHF '58)
IHF 46 dB stereo quieting sensitivity	22 μ V / 75 Ω
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	60 dB (75 dB, IHF)
STEREO	58 dB (71 dB, IHF)
Frequency response	20Hz — 15 kHz (+1dB, -2dB)
Alternate channel selectivity \pm 400 kHz	65 dB
Capture ratio	1 dB
Image rejection at 98MHz	40 dB
IF rejection at 98MHz	70 dB
Spurious response rejection at 96MHz	70 dB
AM suppression	50 dB
Stereo separation 1kHz	40 dB
Carrier leak	
19kHz	-30 dB (-35 dB, IHF)
38kHz	-50 dB (-55 dB, IHF)

Channel balance (250 Hz - 6.3 kHz)	\pm 1.5 dB
Limiting point	1.2 μ V
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminal(s)	75 Ω (unbalanced)

Video Section

Output voltage at 1V input (unbalanced)	1 ± 0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75 Ω (unbalanced)

AM Tuner Section

Frequency range	AM	
	(9 kHz steps)	522 — 1611 kHz
	(10 kHz steps)	530 — 1620 kHz
Sensitivity		20 μ V, 330 μ V / m
Selectivity (at 999 kHz)		55 dB
Image rejection (at 999 kHz)		40 dB
IF rejection (at 999 kHz)		55 dB

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

© 1997 Matsushita Electronics (S) Pte. Ltd.
All rights reserved. Unauthorized copying and distribution is a violation of law.

■ Amplifier Section

Power output (at 240 V)	
DIN 1 kHz (T.H.D. 1%)	2 X 60 W(4Ω)
40 Hz–20 kHz continuous power output both channels driven	2 X 40 W(8Ω)
Total harmonic distortion	
Rated power at 40 Hz – 20kHz	0.8 % (8Ω)
Half power at 1 kHz	0.07 % (8Ω)
Power output at the Dolby Pro Logic operation	
DIN 1 kHz (T.H.D. 1%)	
Front	2 X 50 W (4Ω)
Center	50 W (8Ω)
Surround	50 W (8Ω)
Damping factor	30 (8Ω)
Load impedance	
Front	4 - 16 Ω
Center	8 - 16 Ω
Surround	4 - 16 Ω
Power bandwidth both channels driven, -3 dB	10 Hz - 40 kHz (8Ω)
Intermodulation distortion rated	
power at 60 Hz : 7 kHz = 4:1, SMPTE	0.5 % (8Ω)
Frequency response	
PHONO RIAA standard curve(30Hz-15kHz) ±0.8 dB	
CD, TAPE, VCR, TV/DVD	10Hz – 40kHz, ±3 dB
Input sensitivity and impedance	
PHONO	3 mV / 47 kΩ
CD, TAPE, VCR, TV/DVD	200 mV / 22 kΩ
S/N at rated power (8Ω)	
PHONO	70 dB (IHF, A: 80 dB)
CD, TAPE, VCR, TV/DVD	75 dB (IHF, A: 85 dB)

Tone controls

BASS	50 Hz, +10 to -10 dB
TREBLE	20 kHz, +10 to -10 dB

Output voltage

TAPE REC (OUT), VCR OUT	200 mV
Channel balance (250 Hz - 6.3 kHz)	± 1 dB
Channel separation	55 dB
Headphones output level and impedance	430 mV / 330 Ω
Subwoofer frequency response	7 – 100 Hz, ± 3 dB

■ General

Power consumption	160 W
Power supply	
E, EG	AC 230 V, 50 Hz
EB	AC 230 - 240 V, 50 Hz
Dimensions (W x H x D)	430 x 136 x 309 mm
Weight	7.3 kg

Notes :

- Specifications are subject to change without notice.
Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum

■ Contents

	PAGE	PAGE	
• PROTECTION CIRCUITRY	2	• SCHEMATIC DIAGRAM.....	19 ~ 29
• CAUTION FOR AC MAIN LEADS	3	• PRINTED CIRCUIT BOARD	30 ~ 36
• OPERATION CHECKS AND MAIN COMPONENT REPLACEMENT.....	4 ~ 8	• WIRING CONNECTION DIAGRAM	37
• FAN MOTOR TROUBLESHOOTING	9	• CABINET PARTS LOCATION	38
• TROUBLESHOOTING	10 ~ 13	• REPLACEMENT PARTS LIST	39 ~ 41
• BLOCK DIAGRAM	14 ~ 17	• RESISTORS & CAPACITORS	41 ~ 45
• TERMINAL FUNCTIONS OF ICs	18	• PACKAGING	45
• TERMINAL GUIDE OF ICs, TRANSISTORS & DIODES .	18 ~ 19		

■ Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less

than the indicated rated impedance of the amplifier are used. If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

Caution for AC Main Leads



(For "EB" area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION !

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT


The wires in this mains lead are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

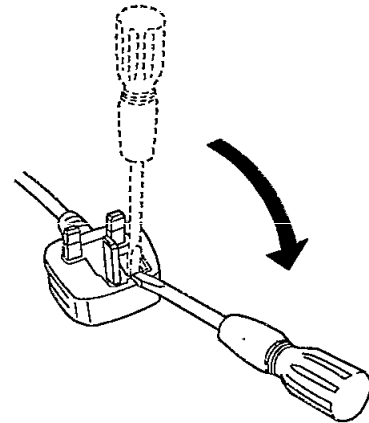
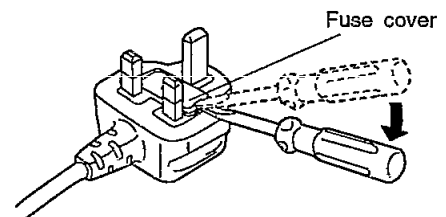


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

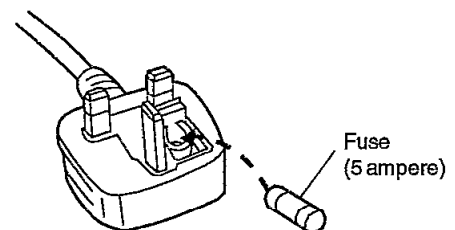
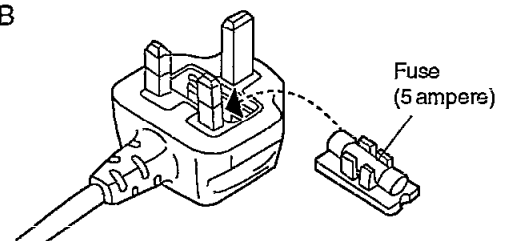


Figure B



■ Operation Checks and Main Component Replacement Procedures

"ATTENTION SERVICER" Some chassis components may have sharp edges. Be careful when disassembling and servicing.
Please take note that the diagrams shown are for model SA-EX510 which is similar to SA-EX310.

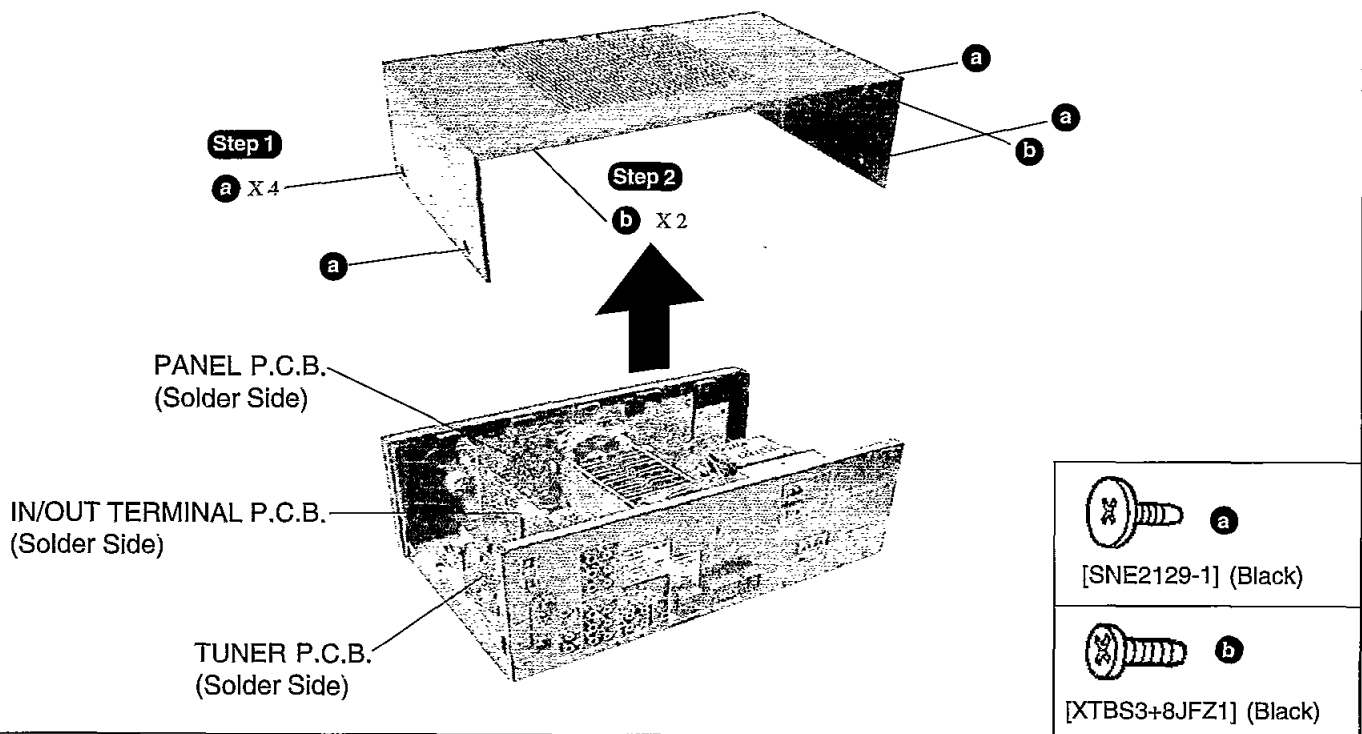
1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures.
Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.

• **Contents**

- Checking Procedure For Each Major P.C.B 4 ~ 6
- Main Component Replacement Procedures 6 ~ 8

■ Checking Procedure For Each Major P.C.B.

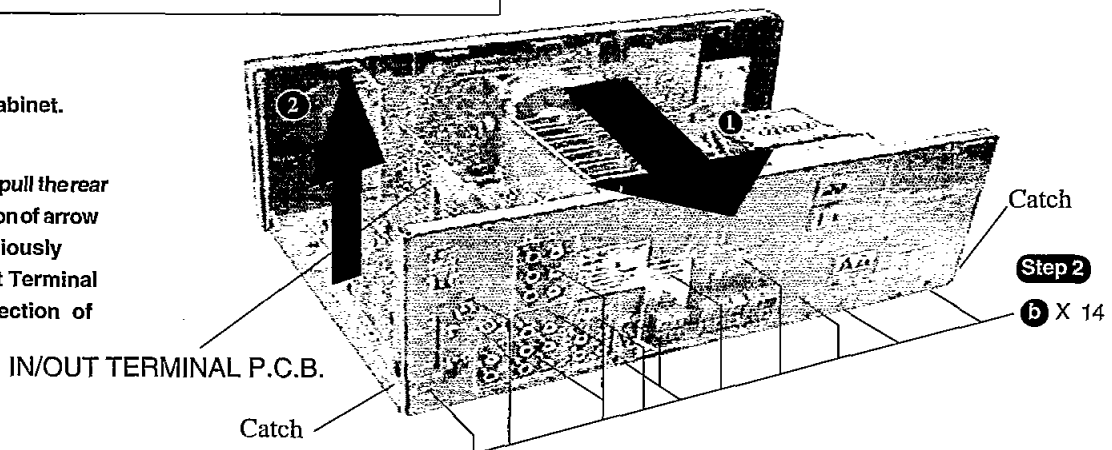
1. Checking of the Panel P.C.B., and Tuner P.C.B.



2. Checking of the In/Out Terminal P.C.B.

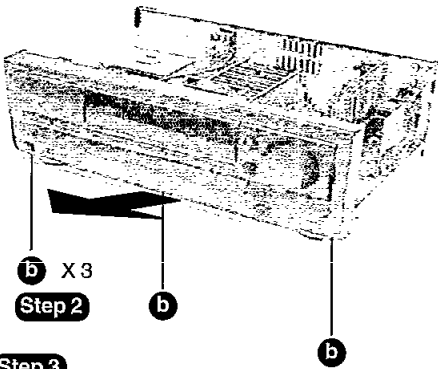
Step 1
Remove the top cabinet.

Step 3
Release the catch, pull the rear panel in the direction of arrow ① and simultaneously remove the In/Out Terminal P.C.B. in the direction of arrow ②.

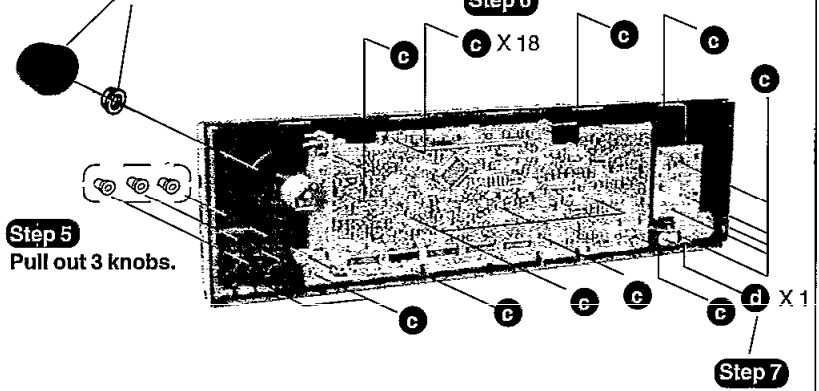


To Remove Front Panel, Panel P.C.B., Power Switch P.C.B. and Headphone Jack P.C.B.

Step 1
Remove the top cabinet.

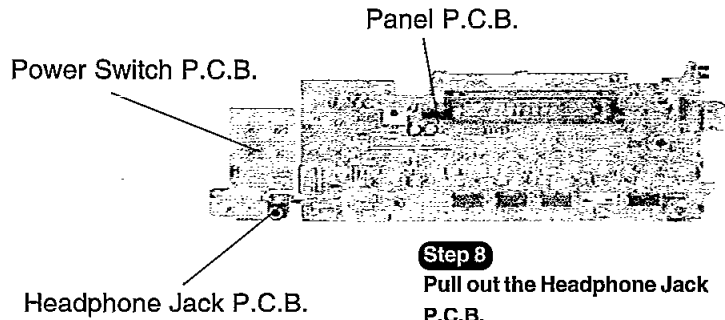


Step 4
Remove the Volume Knob and Nut.

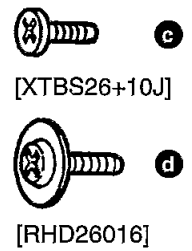


Step 5
Pull out 3 knobs.

Step 3
Remove the front panel in the direction of arrow.



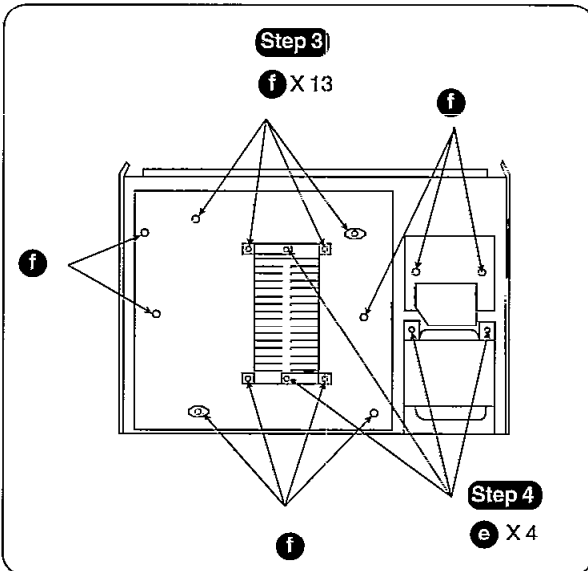
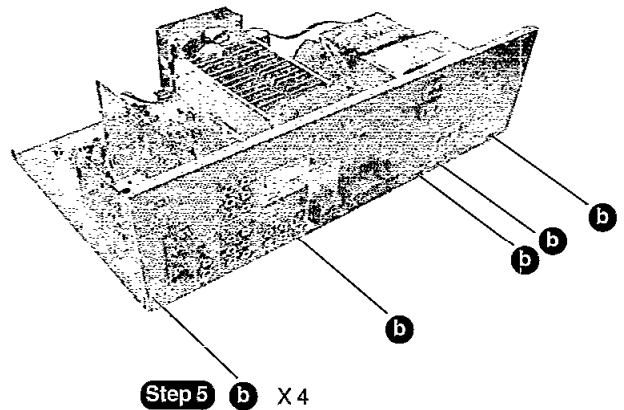
Step 8
Pull out the Headphone Jack P.C.B.



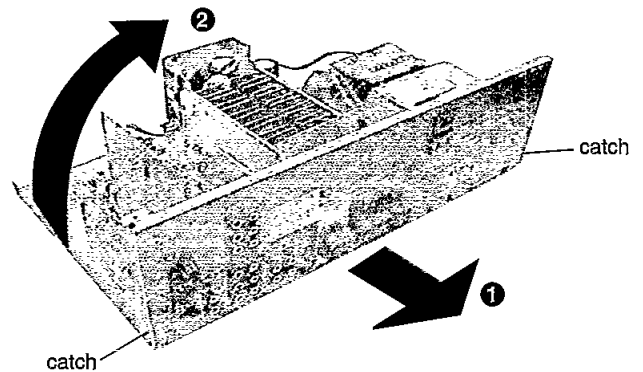
3. Checking of the MAIN P.C.B.

Step 1
Remove the top cabinet.

Step 2
Remove the front panel.



Step 7
Lift the rear panel in the direction of arrow ②.

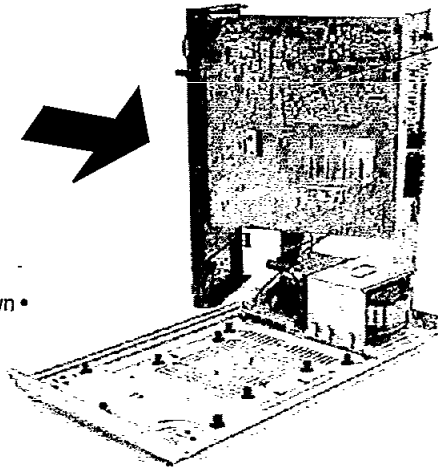


Step 6
Release 2 catches and pull the rear panel in the direction of arrow ① for about 10mm.
(Note : Main, Tuner and In/Out Terminal P.C.B. are attach to the rear panel)

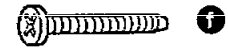
Step 8

Connect the front panel to the main P.C.B. as shown.

• Check the Main P.C.B. as shown •



[XTB3+8FFZ] (Black)



[XTB3+20JFZ] (Black)

Main Component Replacement Procedures

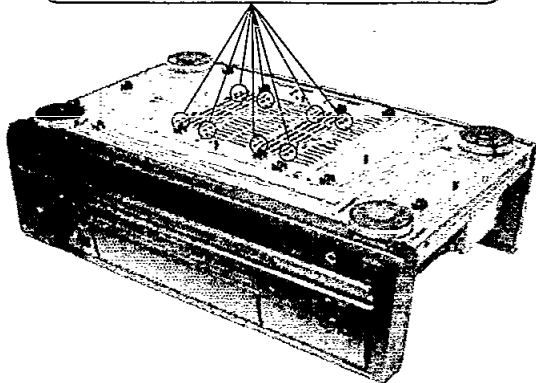
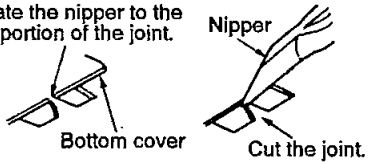
1. Replacement of the Power IC and Regulator Transistor

Step 1

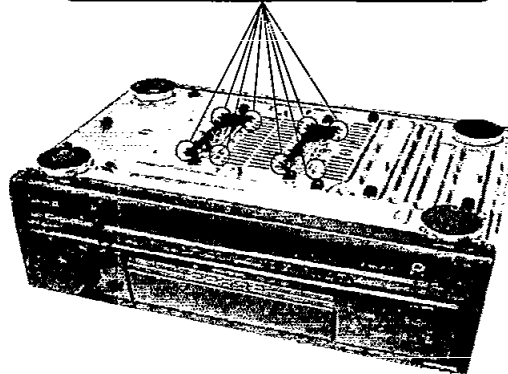
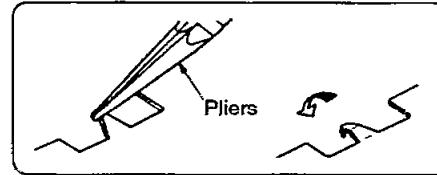
Remove the top cabinet.

Step 2 Cut the joints as shown below. (6 joints)

Locate the nipper to the thin portion of the joint.

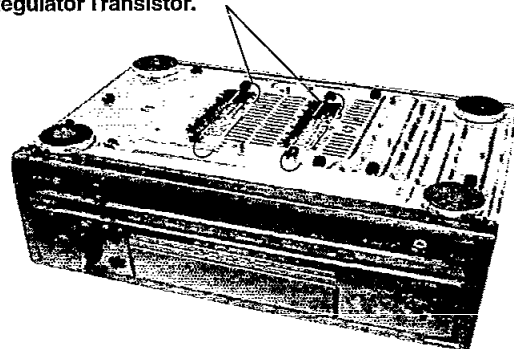


Step 3 Fold the joints. (6 joints)

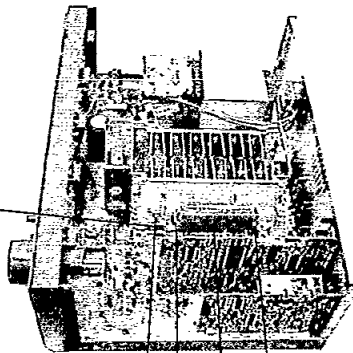


Step 4

Desolder the terminals of Power IC and Regulator Transistor.



Regulator transistor
(Q701, Q708)
[2SD2374PQAU, 2SB1548PQAU]



Step 5

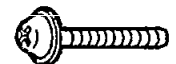
g X 3



g

g

Power IC (IC602)
[RSN3305-P]

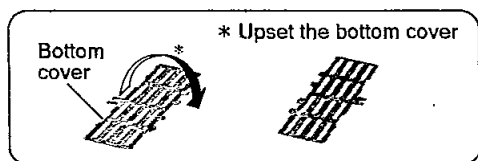


g

[XTW3+15T]

Installation of the bottom cover after replacement

Step 1



* Upset the bottom cover

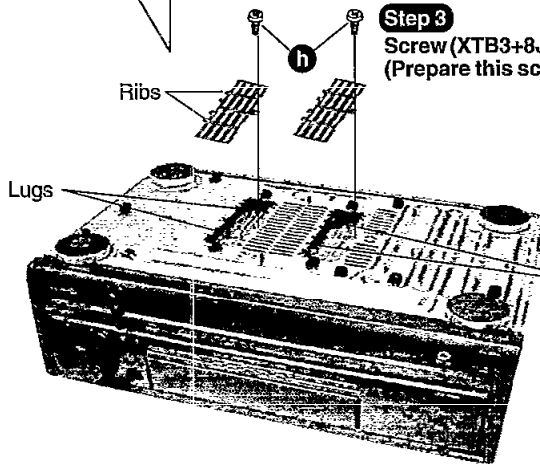
Bottom cover

Step 3

Screw (XTB3+8J)
(Prepare this screw to fix the bottom cover.)

Ribs

Lugs



Step 2

Align the ribs of bottom cover into the lugs.



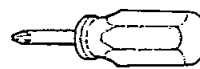
h

[XTB3+8J] (Black)

CAUTION

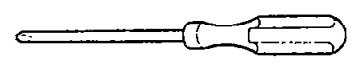
1. After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002/SZZ0L15) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws (g) after replacing the power IC and regulator transistor. Otherwise, the heat radiation works little.
3. When installing or removing the power IC or transistor holder, be sure to use an offset screwdriver.

- A long straight screwdriver cannot be used for removing or mounting the screws since its long grip interferes with the neighbouring P.C.B. and transformer. (See Fig.1 & 3)
- A short straight screwdriver may be used for removal, but cannot be used for mounting because the limited space in the unit will not allow sufficient tightening torque. (See Fig.2 & 3)



A short straight screwdriver

Fig.2



A long straight screwdriver

Fig.1

- Insufficient tightening will cause poor heat dissipation from the power IC and regulator transistor and, in the worst case, may lead to their thermal breakdown.

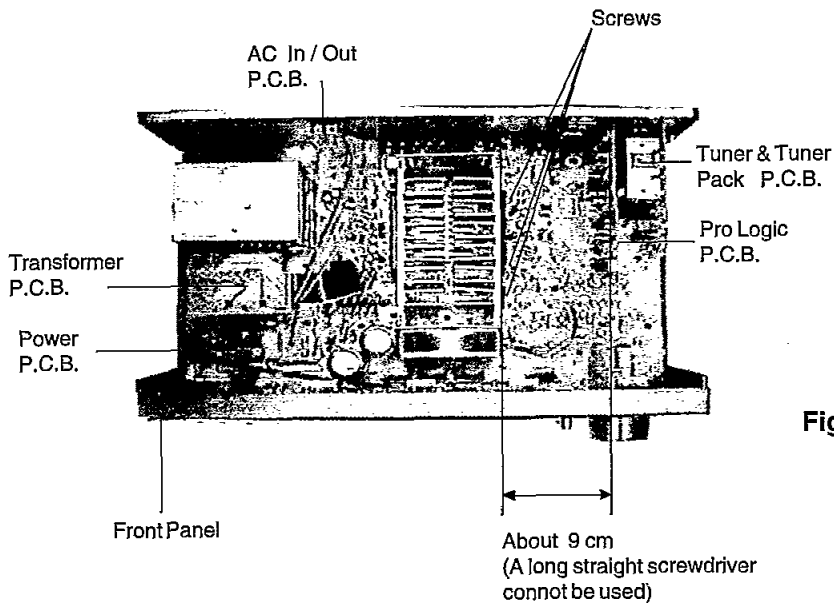
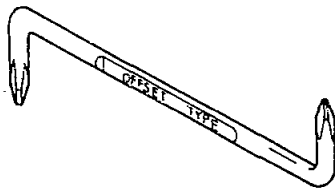


Fig.3

—OFFSET SCREWDRIVER—

•The PROTO offset screwdriver No.34-1/4 is recommended for use in the application above.



No.		
34 1/4	1 & 2	4 3/4"

•The address of PROTO International Sales is as follows.



International Sales

International Sales Office
Stanley-Proto Industrial Tools
14117 Industrial Park Blvd.
Covington, GA 30209 U.S.A.
Fax: 706-786-4387
Phone: 706-787-3800

Australia, New Zealand &
South Pacific
Stanley-Proto Industrial Tools
P.O.Box 10
400 Whitehorse Road
Nunawading 3131
Victoria, Australia
Fax: 61-3-894-1173
Phone: 61-3-878-9244

Singapore, Indonesia,
Philippines, Korea, Hong
Kong, Malaysia, China.
Stanley-Proto Asia Pacific
12 Gul Drive
Singapore 2262
Fax: 65-861-3206
Phone: 65-862-0883

Thailand
Stanley-Proto Thailand Ltd.
1017 Moo 13 Bangkaew
Amphur Bangplee
Samutprakarn, Thailand
Fax: 66-2-316-6071
Phone: 66-2-316-8655

Japan
Stanley Works Japan
2-7-16 Hyakunin-Cho
Shinjuku-ku
Tokyo 160 Japan
Fax: 81-3-3360-8456
Phone: 81-3-3360-8458

Mexico
Herramientas Stanley S.A.
DE C.V.
Apartado Postal 675
72030 Puebla, Pue, Mexico
Fax: 52-22-494-4880
Phone: 52-22-495-300

South & Central America,
Puerto Rico, The Caribbean
Stanley Inter-America
2101 N.W. 84th Ave.
Miami, Florida 33122
Fax: 305-594-4261
Phone: 305-591-3828

Europe
Stanley-Proto Europe
Woodside, Sheffield
539PD
England
Fax: 44-742-739-038
Phone: 44-742-768-888

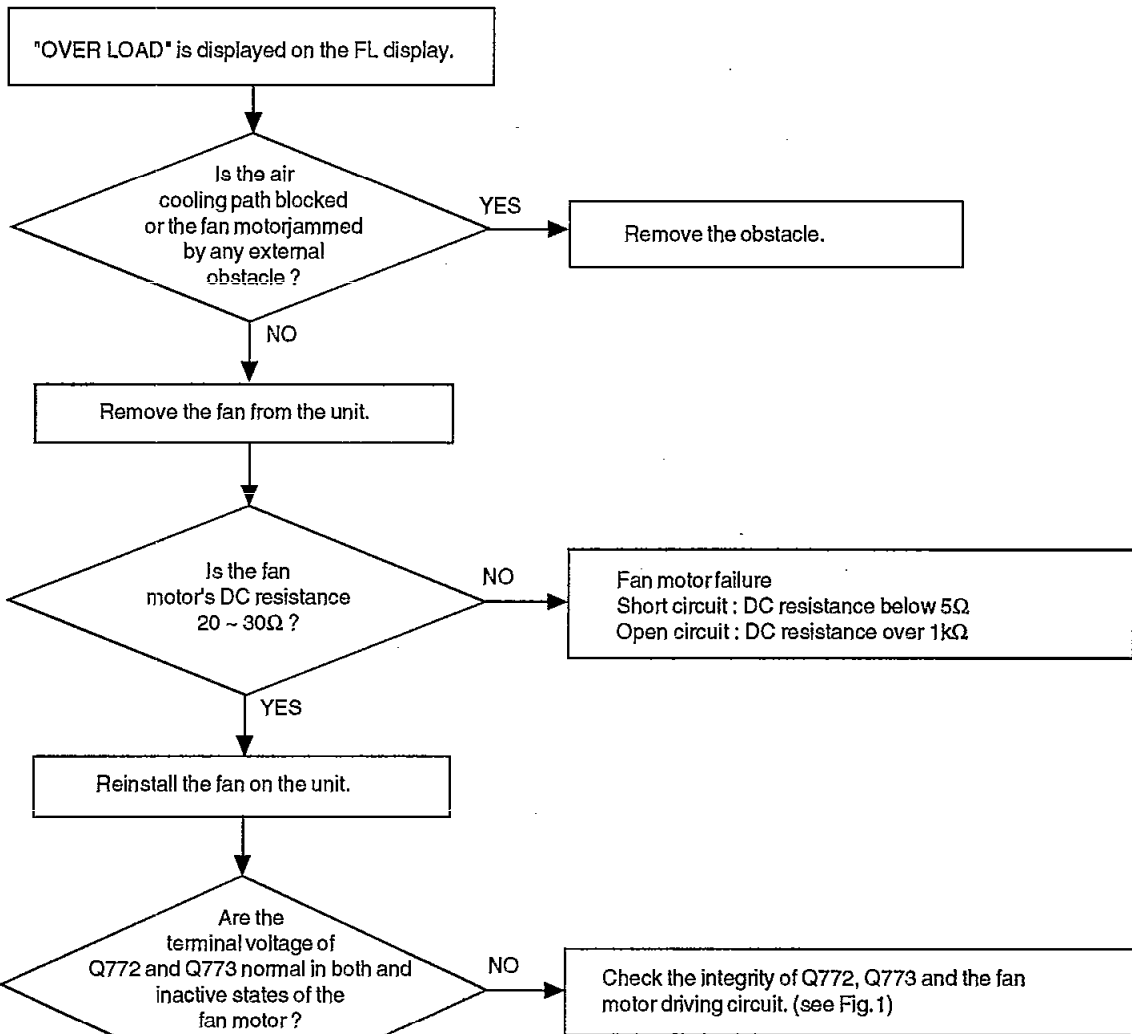
Canada
Stanley-Proto Canada
1100 Corporate Drive
Burlington, Ontario
Canada, L7L 5R6
Fax: 416-335-0075
Phone: 416-335-0075

Middel East, Mediterranean
& Africa
Stanley-MEMA
Cory House The Ring
Bracknell Berkshire
RG 12 1A2
England
Fax: 44-344-485-526
Phone: 44-344-51813

Fan Motor Troubleshooting

The Model SA-EX310 employ fan motor error sensing electronics.

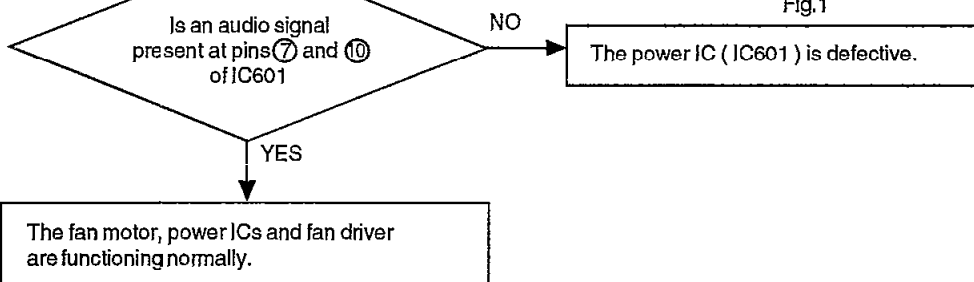
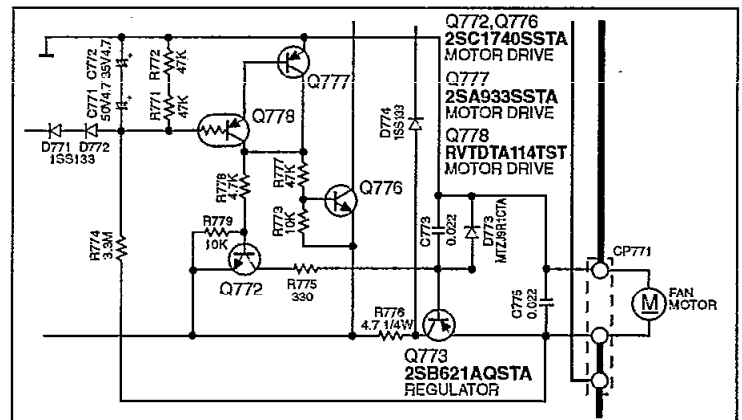
If the cooling fan is not operating and "OVER LOAD" is displayed on the FL display, check the fan motor and its driving circuit.



(Voltage table)

		fan. off	fan. on
Q772	E	-14.5V	-14.5V
	C	0V	-14.5V
	B	-14.5V	0V
Q773	E	0V	-8.5V
	C	-14.5V	-14.5V
	B	0V	-8.5V

(Table 1)

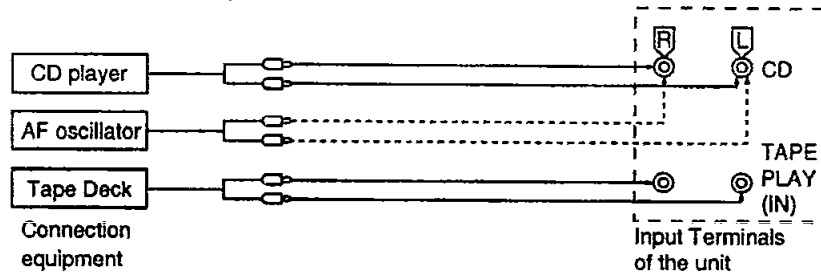


Troubleshooting

This unit has test points on each circuit board block for use in troubleshooting.

CONNECTION

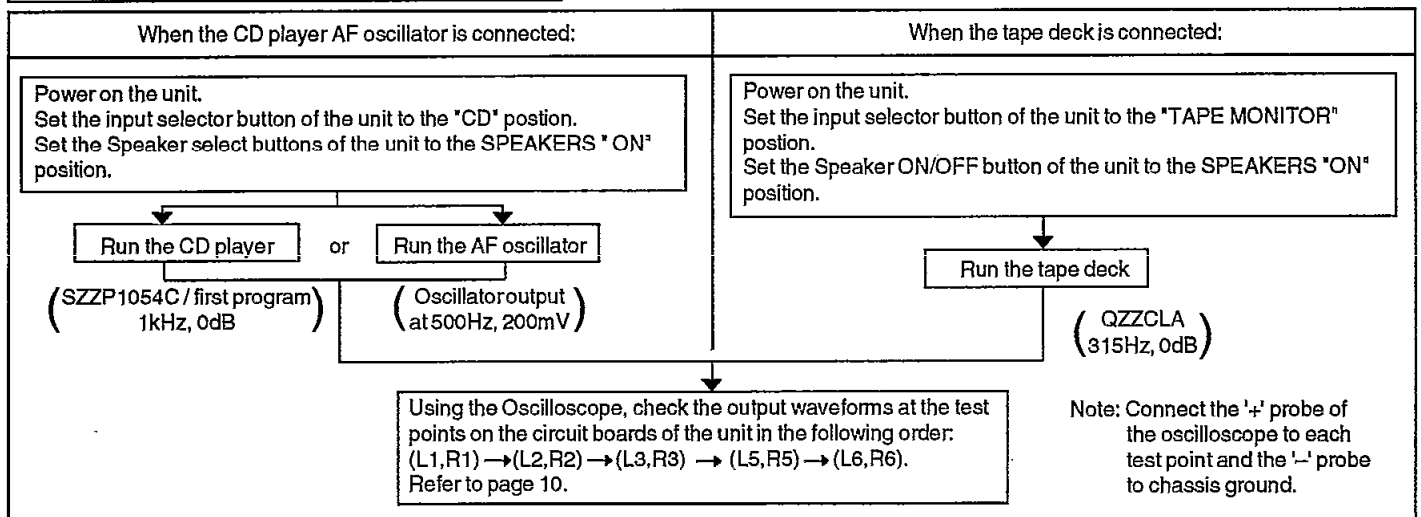
Connect either a CD player, tape deck or AF oscillator to the input terminals of the unit.



REQUIRED ITEMS

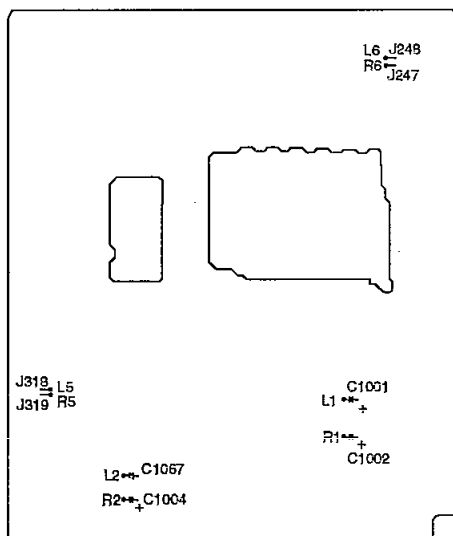
1. Testing with a CD player ——— Test disc (SZZP1054C / first program, 1kHz, 0dB)
2. Testing with a tape deck ——— Test tape (QZZCLA / 315Hz, 0dB)
3. Testing with a AF oscillator ——— Set the output at 500Hz, 200mV
4. Oscilloscope (min. 10MHz) - - - - - To measure the output waveform at the test points.

TEST PROCEDURE FOR AMPLIFIER CIRCUIT

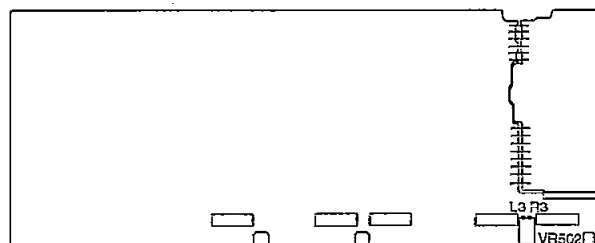


TEST POINTS POSITIONS OF AMPLIFIER CIRCUIT

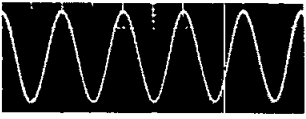
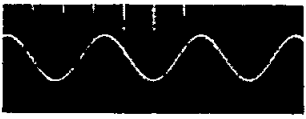
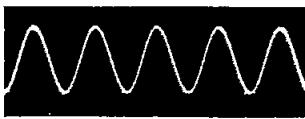
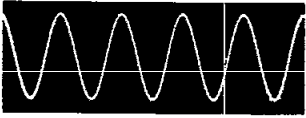
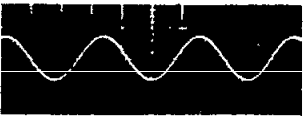
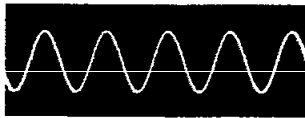
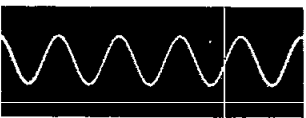
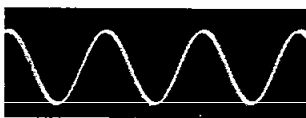
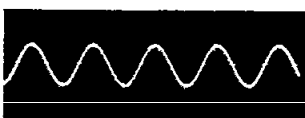
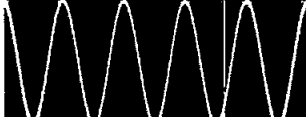
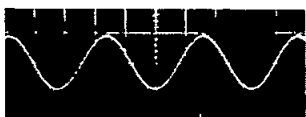
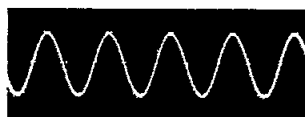
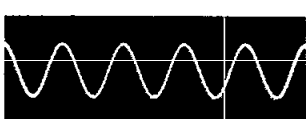
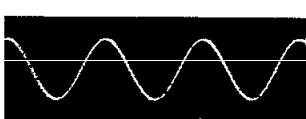
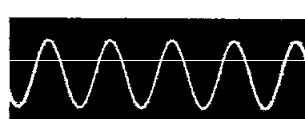
MAIN P.C.B. (component side)





PANEL P.C.B. (component side)



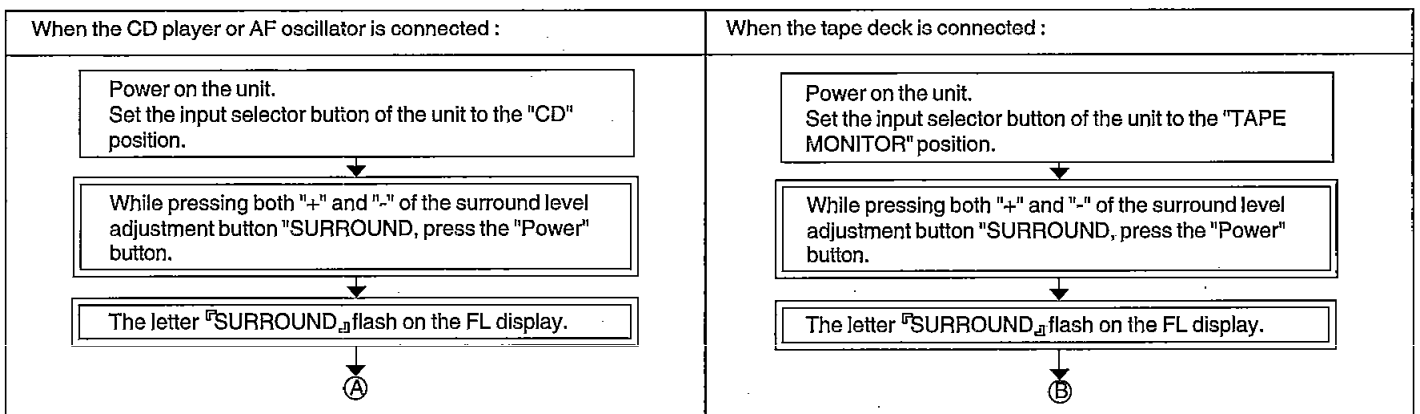
NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

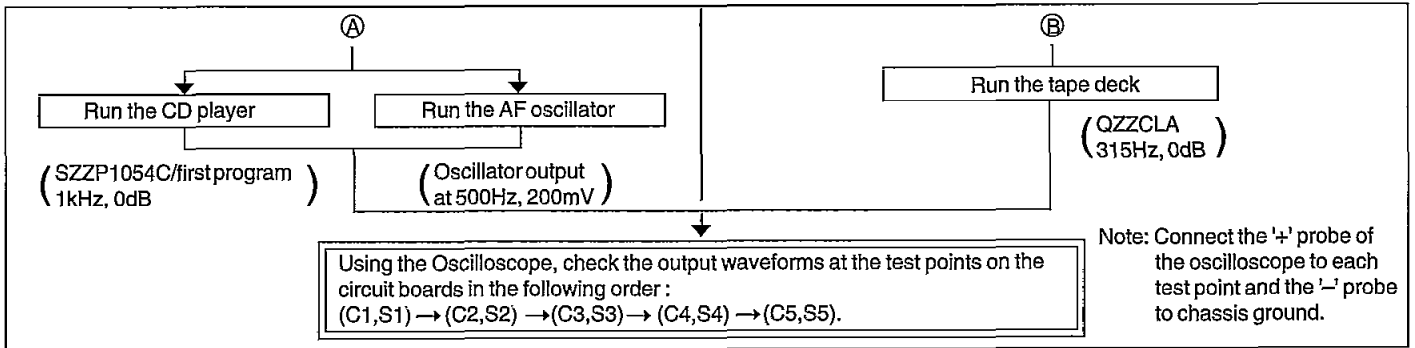
TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
L1/R1	 0.5msec 2V	 1msec 500mV	 1msec 500mV	Input selector block IC402 & area
L2/R2	 0.5msec 2V	 1msec 500mV	 1msec 500mV	Dolby pro logic block IC1001 and IC1002 & area
L3/R3	 0.5msec 500mV	 1msec 50mV	 1msec 100mV	Master volume block VR501 & area
L5/R5	 0.5msec 100mV*	 1msec 500mV	 1msec 500mV	Power limiter block Q601 to Q602 & area
L6/R6	 0.5msec 5V*	 1msec 10V	 1msec 10V	Main amplifier block IC601 & area

Measurement conditions. Volume control (VR501), Treble control (VR512) and Bass control (VR511) positions : 
 *Volume control position (VR501) for these test : 

CHECKING PROCEDURE FOR SURROUND CIRCUIT

Outputting surround signal normally requires that opposite phase signals be applied to both the left and right channels. However, this unit incorporates a service mode, allowing the surround circuit to be tested using in-phase signals.

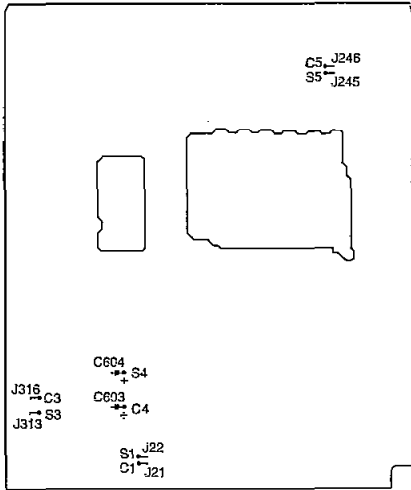




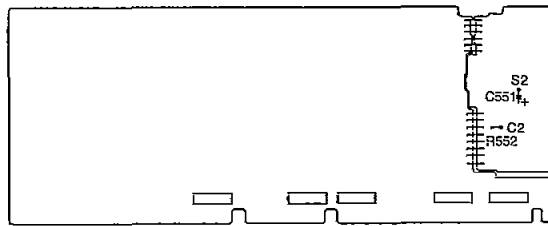
• To exit the service mode, power off the unit.

TEST POINTS POSITIONS OF SOURROUND CIRCUIT

MAIN P.C.B. (component side)



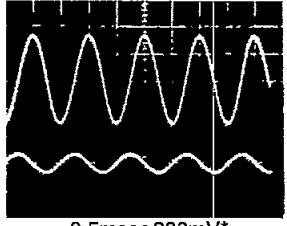
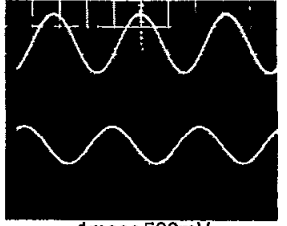
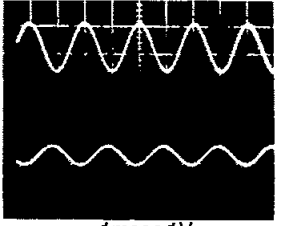
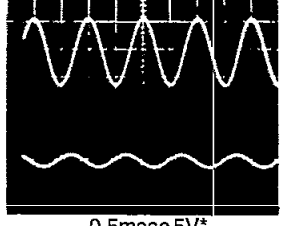
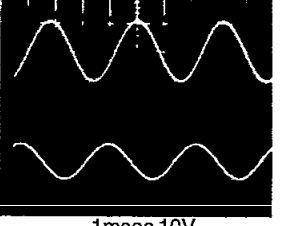
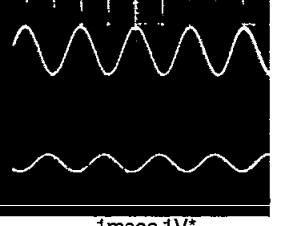
PANEL P.C.B. (component side)





NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

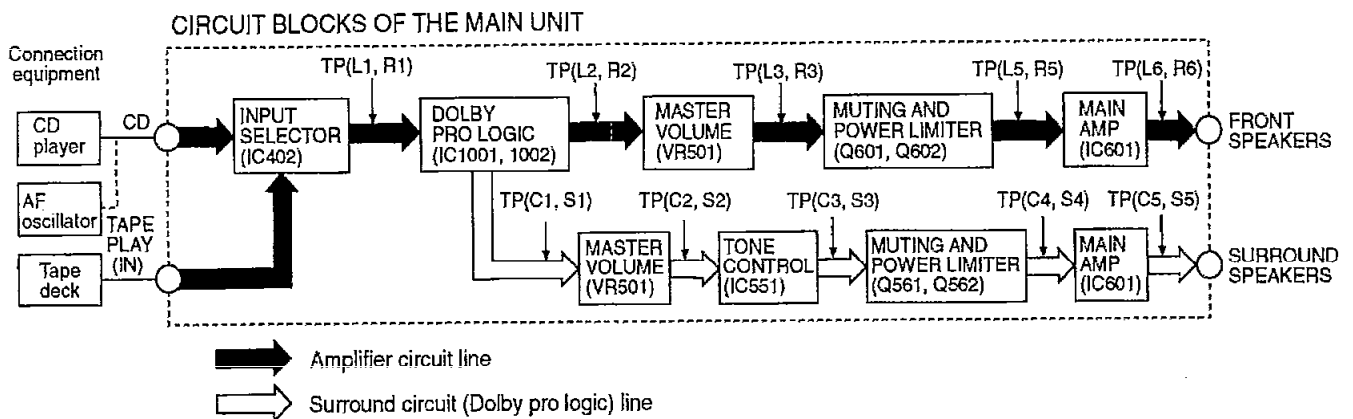
TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
C1 S1	 0.5msec 1V	 1msec 100mV	 1msec 200mV	Dolby pro logic block IC1001 and IC1002 & area
C2 S2	 0.5msec 200mV	 1msec 20mV	 1msec 50mV	Master volume block VR501 & area
C3 S3	 0.5msec 200mV*	 1msec 500mV	 1msec 1V	Tone control block IC551 & area

NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

TP	CD player	Tape deck	AF oscillator	Likely faulty block if the normal waveform shown at the left is not present.
C4 S4	 0.5msec 200mV*	 1msec 500mV	 1msec 1V	Power limiter block Q551 to Q552 & area
C5 S5	 0.5msec 5V*	 1msec 10V	 1msec 1V*	Main amplifier block IC601 & area

Measurement conditions. Volume control (VR501), Tremble control (VR512) and Bass control (VR511) positions : 
 *Volume control position (VR501) for these test : 

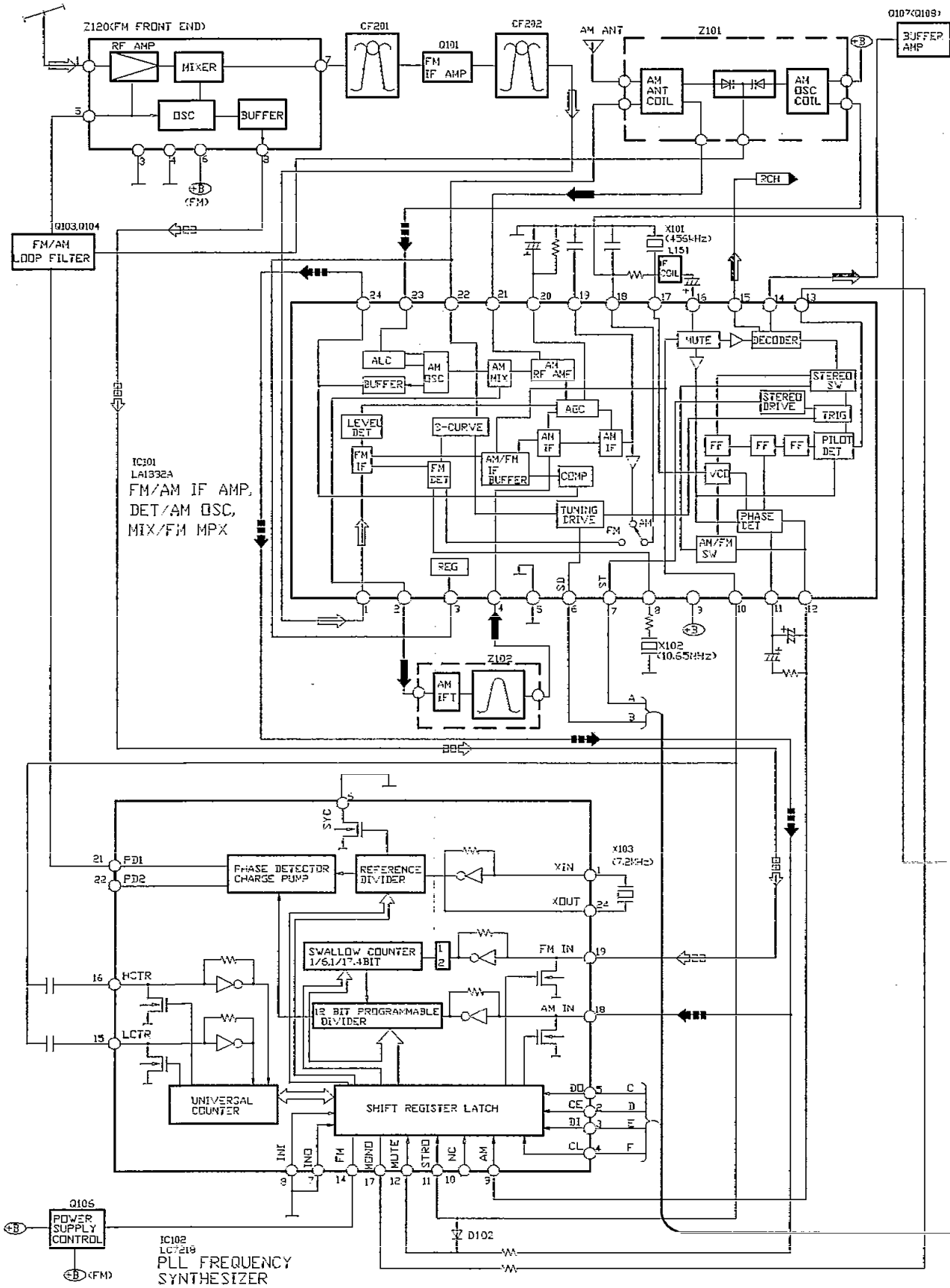
CIRCUIT BLOCKS

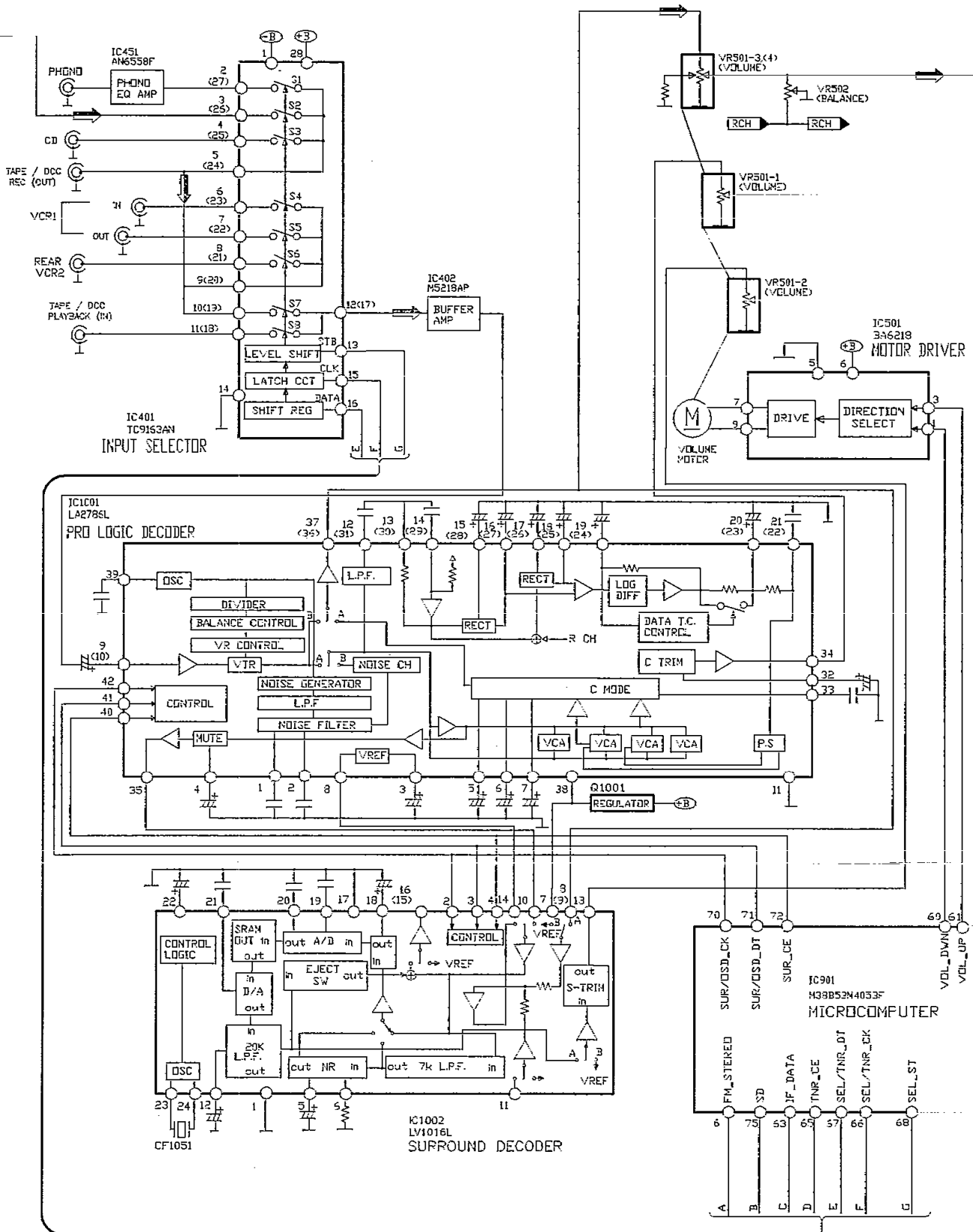


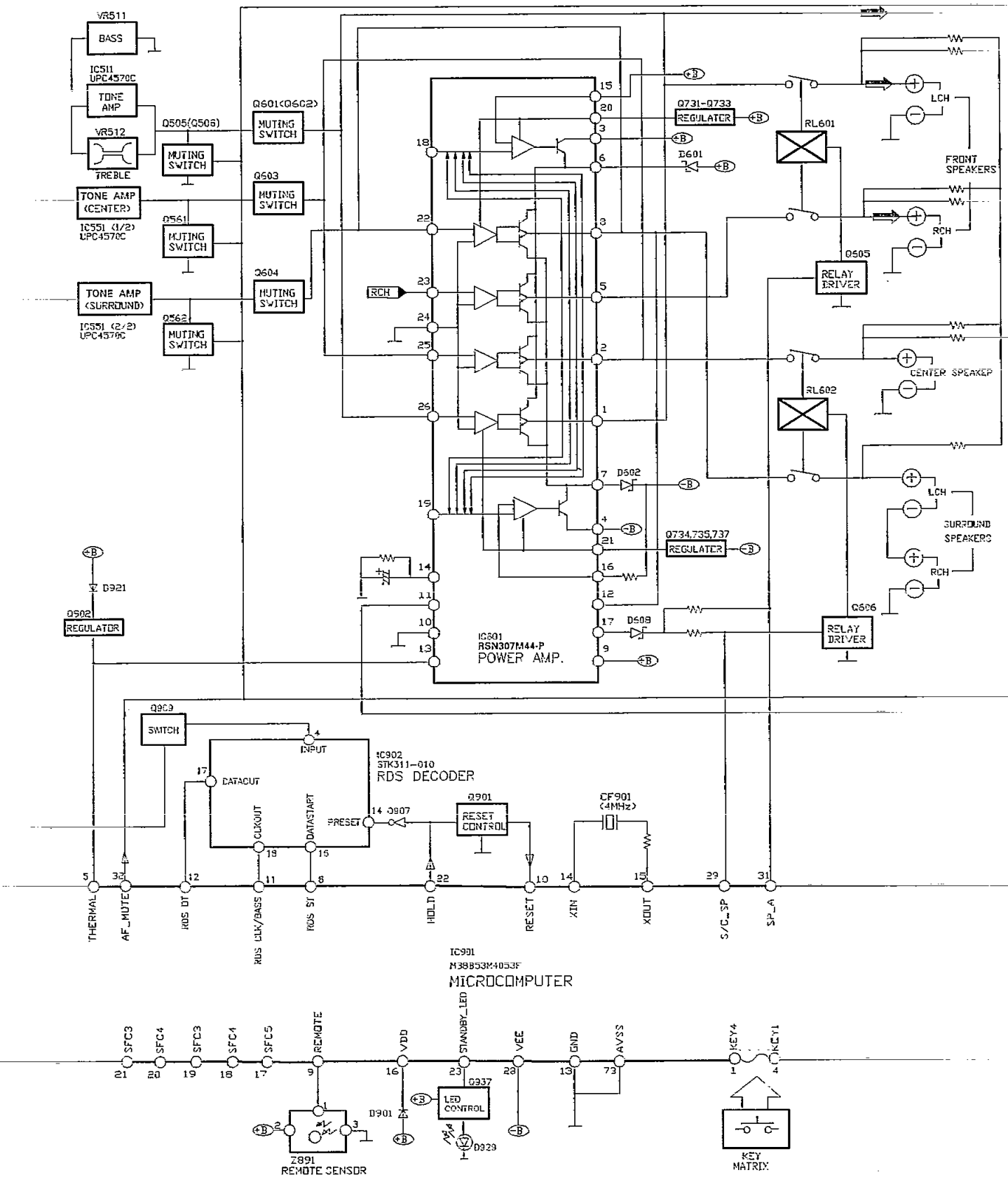
OVERLOAD DETECTION FUNCTION

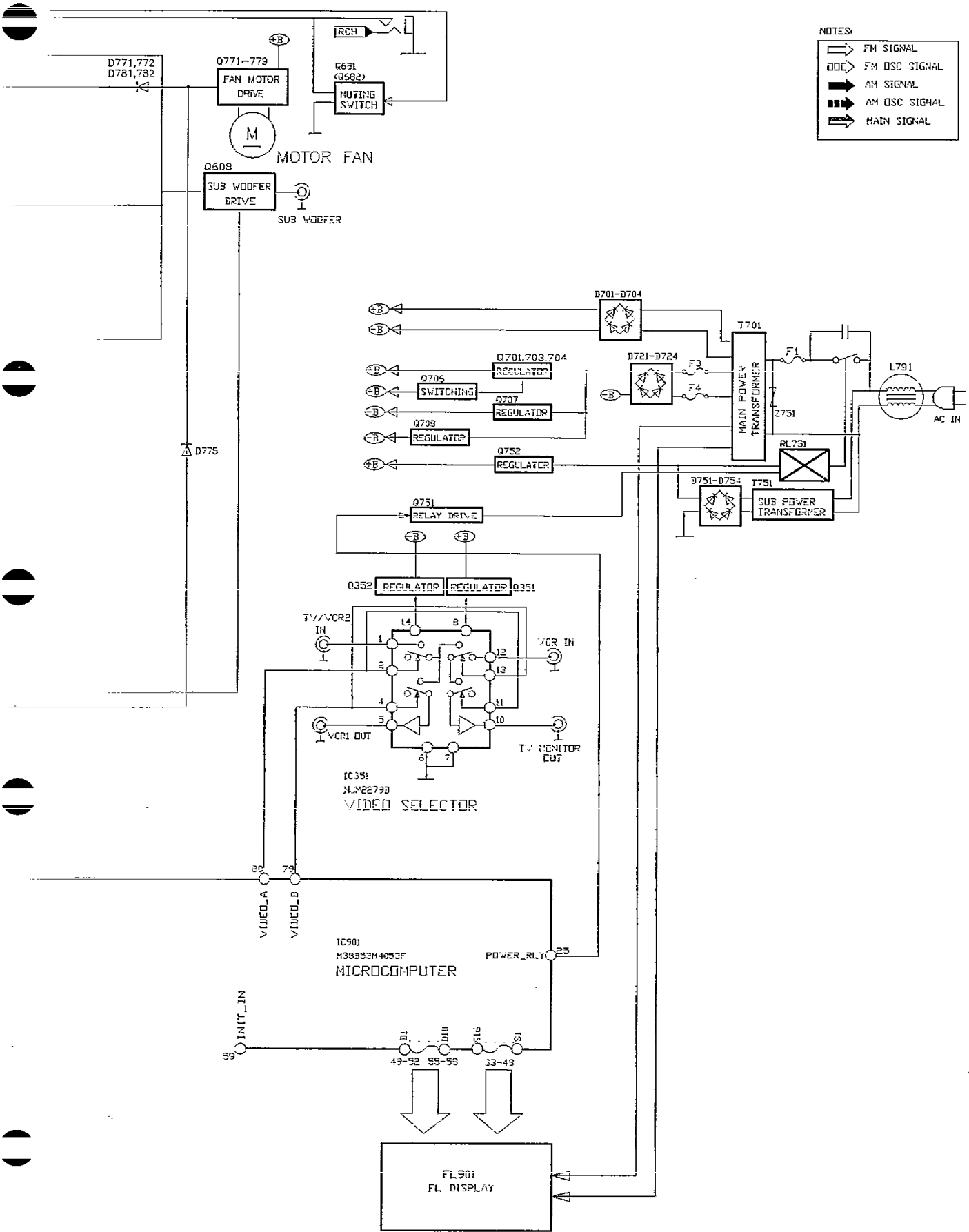
The HIC protection circuit functions if any cord at a speaker terminal is short-circuited or if the unit overheats because of improper operation. At the same time, **OVERLOAD** scrolls across the FL display.
 In this state, all keys remain in operative; if any key is pressed, **SWITCH OFF POWER** scrolls across the FL display.
 If an overload occurs, immediately power off the unit and check the speaker connection, venting holes and cooling fans. After fixing any faults, power on the unit again and check for proper operation.
 If no defects are found, or if the unit remains overload after it is power on again, check the circuit for faults.

Block Diagram









- NOTES:
- FM SIGNAL
 - FM OSC SIGNAL
 - AM SIGNAL
 - AM OSC SIGNAL
 - MAIN SIGNAL

Terminal Functions Of ICs

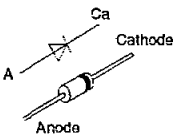
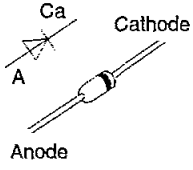
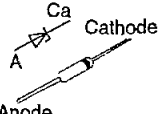
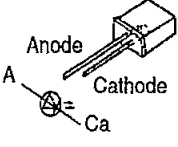
• IC901 (M38B53M4053F) System Microprocessor

Pin No.	Mark	I/O	Function
1~4	KEY4~KEY1	I	Key matrix detect terminal
5	THERM/OVLD	I	Thermal/Over load detect terminal
6	FM_ST	I	Stereo signal detect terminal
7	6CH_ST	-	Not used
8	RDS_ST	-	Not used
9	REMOTE	I	Remote control terminal
10	RESET	I	Reset detect terminal
11	RDS_CK	-	Not used
12	RDS_DT	-	Not used
13	GND	-	GND terminal
14	XIN	I	Crystal oscillator terminal
15	XOUT	O	(4 MHz)
16	VDD	I	Power supply terminal
17~21	SFC5~SFC1	O	SFC LED indicator output
22	HOLD	I	Power trip detection input
23	STANDBY_LED	-	Not used
24	FAN_STOP	-	Not used
25	RLY	O	Power relay control output
26	TV/DVD	I	TV/DVD select control input
27	LIMITTER	O	Power limiter control output
28	VEE	I	FL driver pull down voltage
29	S/C_SP	O	Surround/center speaker control output
30	SP_B	O	Speaker B control output
31	SP_A	O	Speaker A control output
32	AF_MUTE	O	Muting control output

Pin No.	Mark	I/O	Function
33~48	SEG16~SEG1	O	FL segment signal output
49~58	DEG1~DEG10	O	FL digit signal output
59	INIT_IN	I	Diode input
60	VOL_DOWN	O	Rotate control terminal of volume motor
61	VOL_UP	O	
62	LOUDNESS	-	Not used
63	IF_DATA	I	Serial data signal
64	REC_MUTE	-	Not used
65	TNR_CE	O	Chip enable signal
66	SEL/TNR_CK	O	Serial clock signal
67	SEL/TNR_DT	O	Serial data signal
68	SEL_ST	O	Level shift control terminal
69	OSD_ST	-	Not used
70	SURR/OSD_CK	O	Serial clock signal
71	SURR/OSD_DT	O	Serial data signal
72	SURR_CE	O	Chip enable signal
73	AVSS	-	GND for A-D converter
74	VREF	I	Reference voltage for A-D conversion
75	SD	I	SD signal detect input
76	AC3_LED	-	Not used
77	HELP_LED	O	LED drive signal (HELP)
78	VIDEO_DET	-	Not used
79	VIDEO_B	O	Video selector control output B
80	VIDEO_A	O	Video selector control output A

Terminal Guide of ICs, Transistors and Diodes

<p>LA1832A LC7218</p>	<p>NJM2279D</p>	<p>TC9163AN 28Pin</p>	<p>M5218P</p>	<p>AN6558F UPC4570C</p>	<p>BA6218</p>
<p>RSN307M44-P</p>	<p>M38B53M4053F 80 Pin</p>	<p>LA2786L 42Pin</p>	<p>LV1016L</p>	<p>2SD2137PQTA 2SB1417PQTA</p>	<p>2SB1548PQAU 2SD2374PQAU</p>
<p>2SD592AQSTA 2SA992EFTA 2SB621AQSTA 2SC3940AQSTA</p>	<p>2SA933SSTA 2SC1740SSTA</p>	<p>RVTDTA113ZST RVTDTA114EST RVTDTC143XST RVTDTA143XST RVTDTC114YST RVTDTA114YST RVTDTA114EST</p>	<p>2SC2787LTA 2SC2785FETA 2SC3311ARTA 2SD1915FTA</p>	<p>STK311-010</p>	

1N5402BM21 SB360L6508 		RVD1SS133TA 1SR35200TB 1SS291TA MA165TA	MTZJ5R1BTA MTZJ5R6BTA MTZJ7R5CTA 	MTZJ9R1CTA MTZJ6R2BTA MTZJ15CTA MTZJ6R8BTA MTZJ4R7BTA MTZJ3R9ATA MTZJ10CTA MTZJ27DTA MTZJ24DTA	LN846RPH 
---	---	--	---	--	---







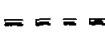

■ Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology)

Note :

- | | | | | | |
|--------|---|---------------------------|---------------------|---|------------------------------------|
| • S946 | : | Power switch | • S964 | : | VCR select switch |
| • S947 | : | Phono select switch | • S970 | : | Search switch |
| • S948 | : | Muting switch | • S971 | : | EON switch |
| • S950 | : | FM Auto/ Mono switch | • S972 | : | PTY up switch |
| • S951 | : | Band select switch | • S973 | : | PTY down switch |
| • S952 | : | Tuning decrease switch | • S974 | : | Display mode switch |
| • S953 | : | Tuning increase switch | • S980 | : | Speaker switch |
| • S955 | : | Memory manual/auto switch | • S983 | : | Dolby Pro Logic/SFC off on switch |
| • S956 | : | Preset decrease switch | • S984 | : | Dolby Pro Logic mode select switch |
| • S957 | : | Preset increase switch | • S985 | : | Center mode select switch |
| • S960 | : | Tuner select switch | • VR501-1 ~ VR501-4 | : | Volume control |
| • S961 | : | CD select switch | • VR502 | : | Balance control |
| • S962 | : | Tape select switch | • VR511-1 ~ VR511-2 | : | Bass control |
| • S963 | : | TV/DVD select switch | • VR512-1 ~ VR512-2 | : | Treble control |

• Signal line

	:	+B line		:	AM signal line		:	FM signal line
	:	Main signal line		:	AM OSC signal line		:	FM OSC signal line
	:	-B line		:	FM/AM signal line			

•The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis.

Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

() AM

< > FM

•Importance safety notice:

Components identified by Δ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

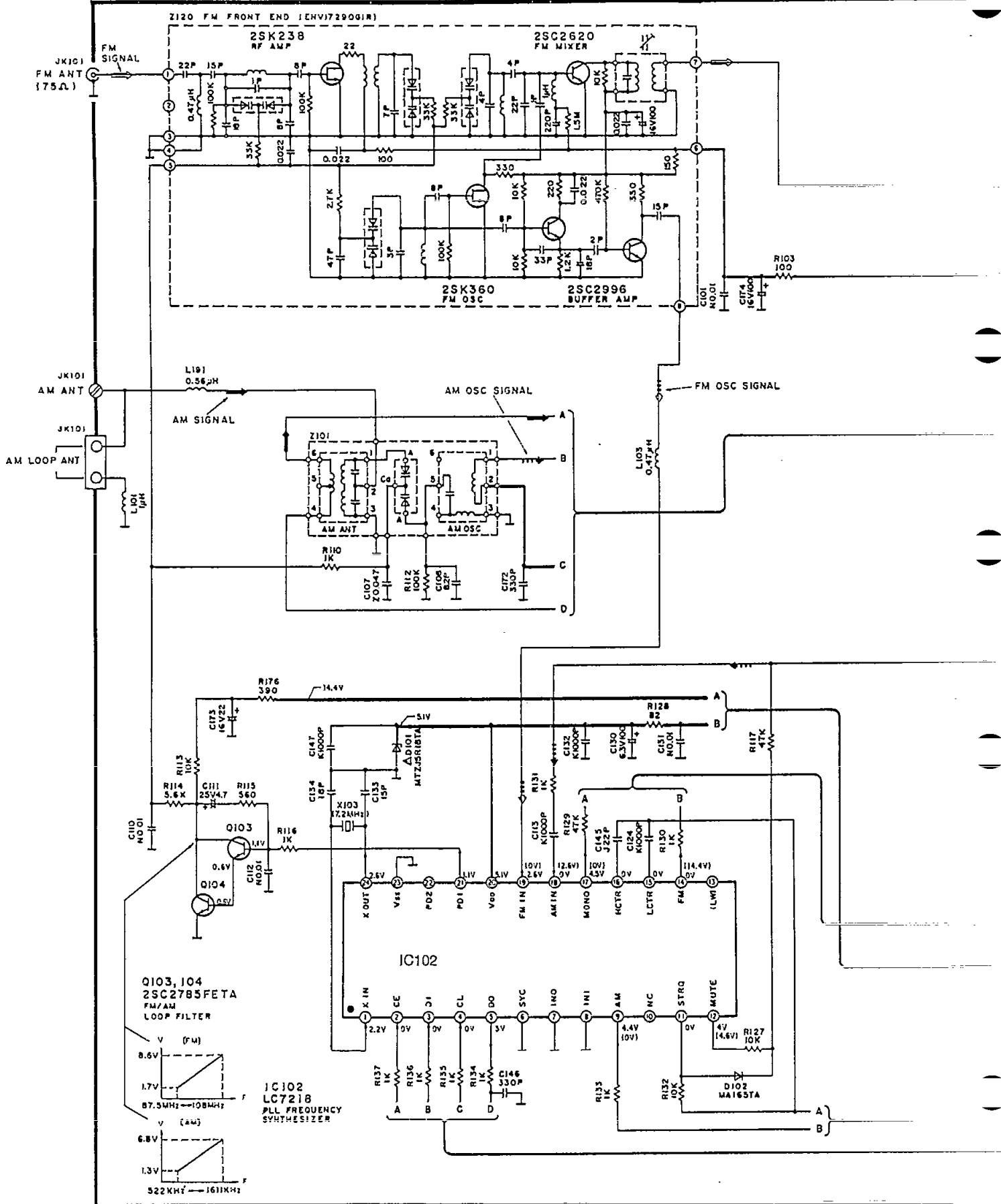
IC, LSI and VLSI are sensitive to static electricity.

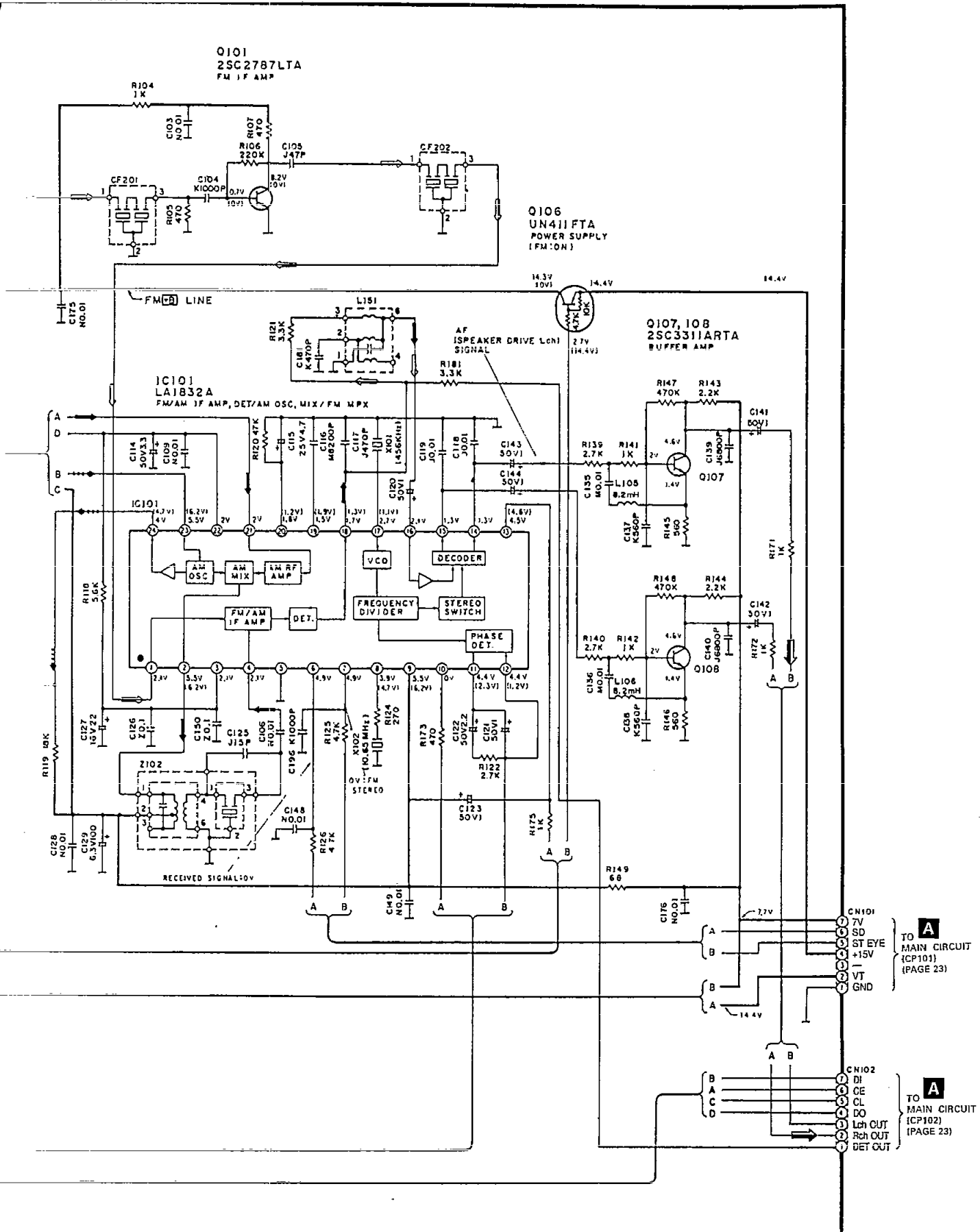
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.
- Put a conductive mat on the work table.

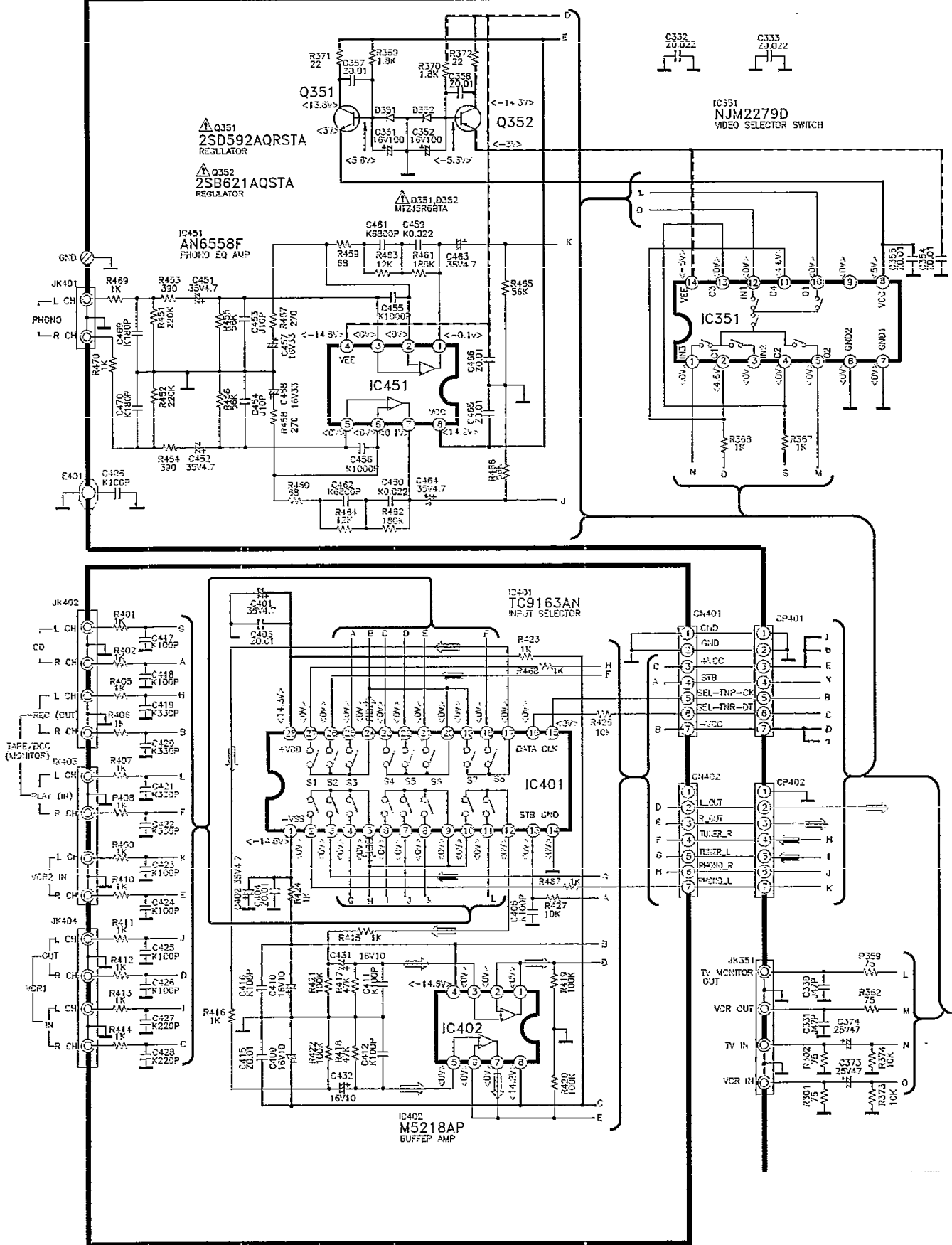
Schematic Diagram

F TUNER CIRCUIT

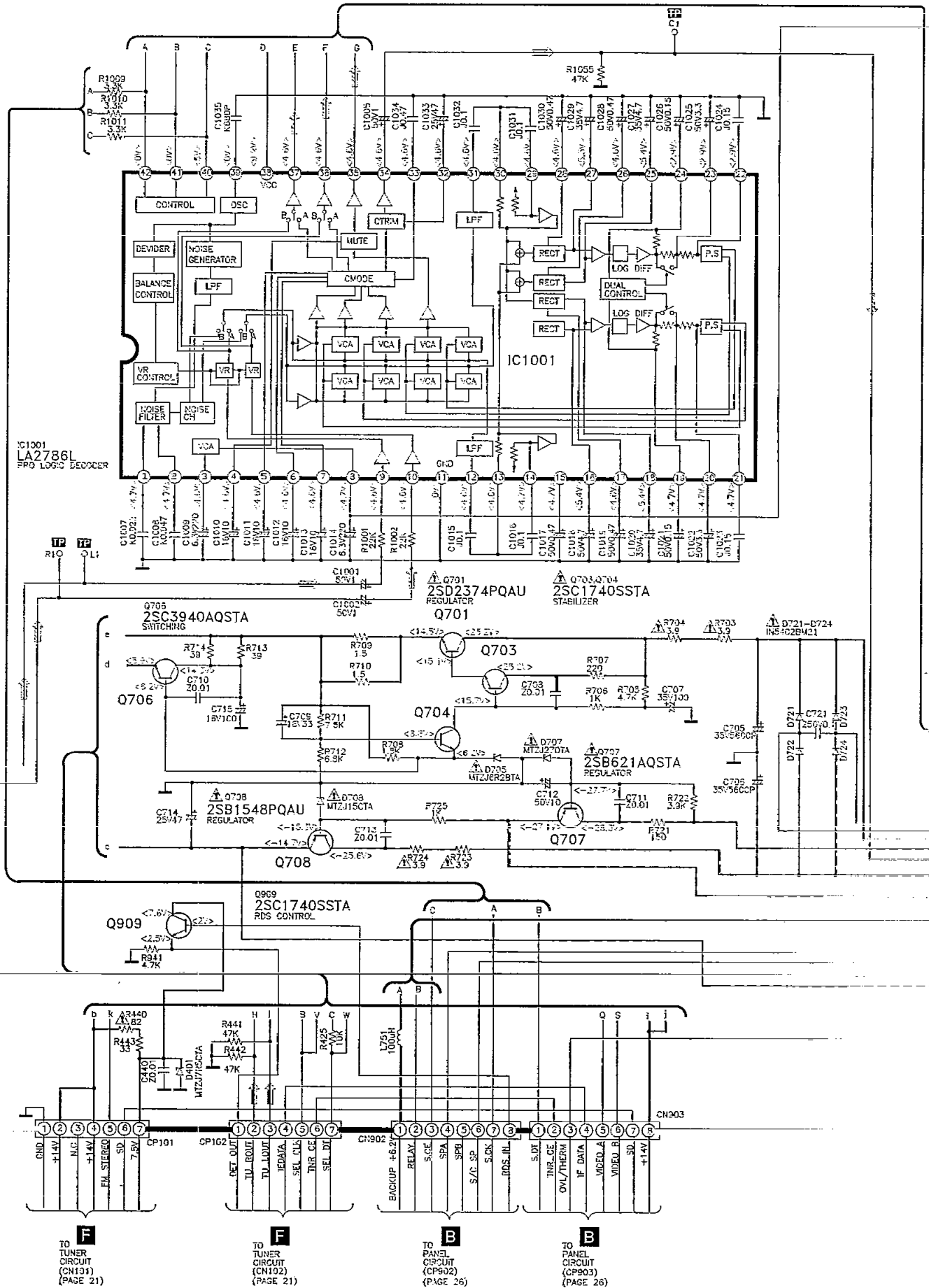




A MAIN CIRCUIT



G IN/OUT TERMINAL CIRCUIT

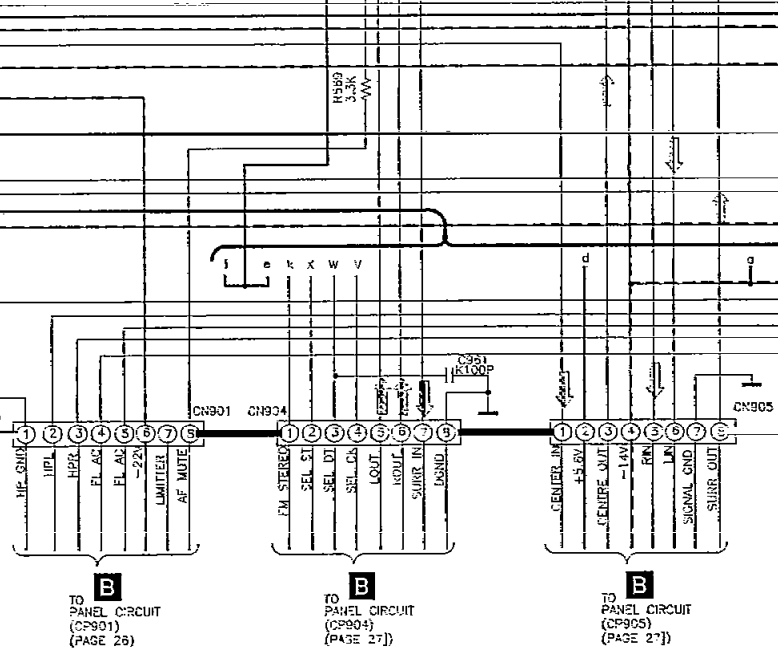
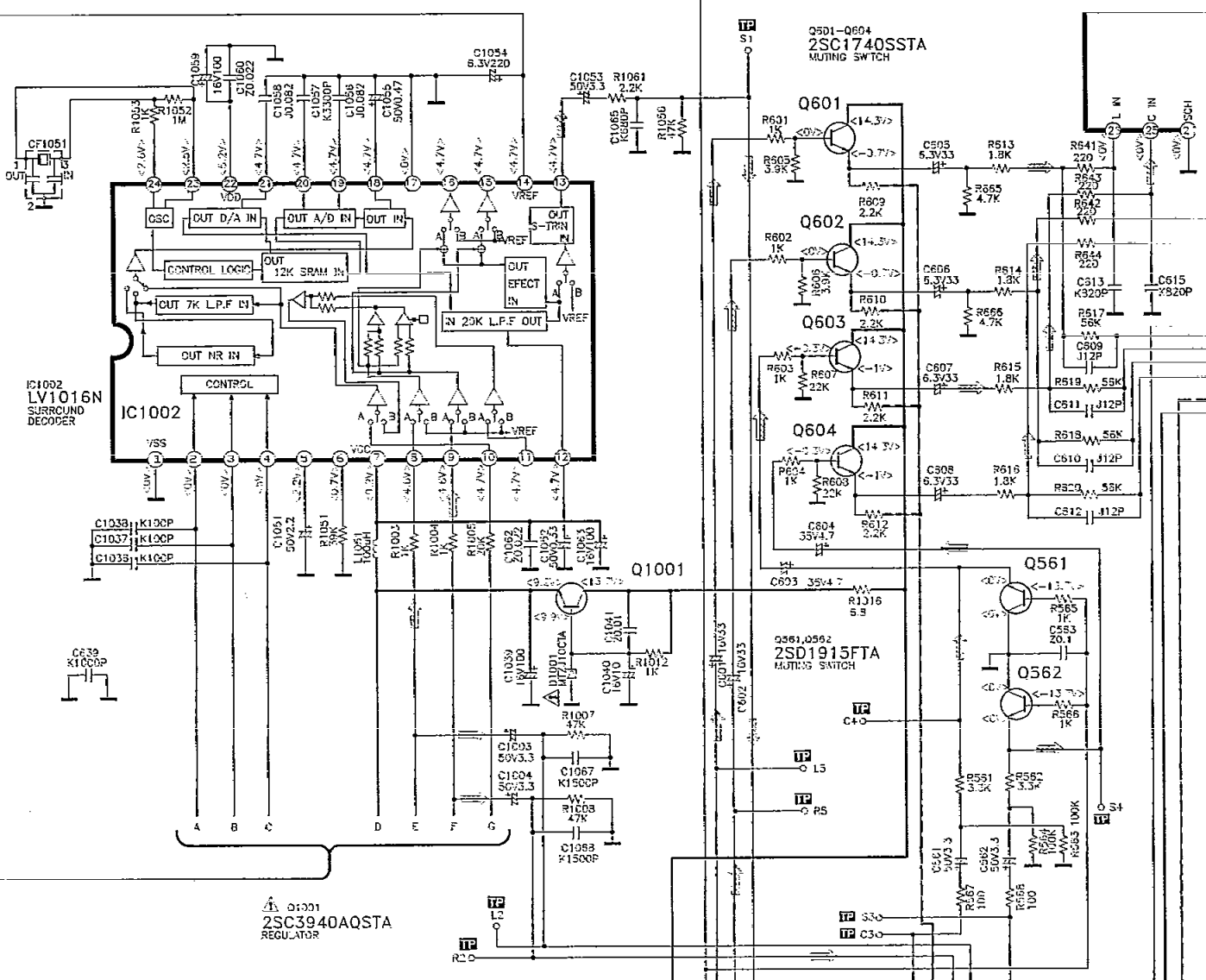


F
TO TUNER
CIRCUIT
(CN101)
(PAGE 21)

F
TO TUNER
CIRCUIT
(CN102)
(PAGE 21)

B
TO PANEL
CIRCUIT
(CP902)
(PAGE 26)

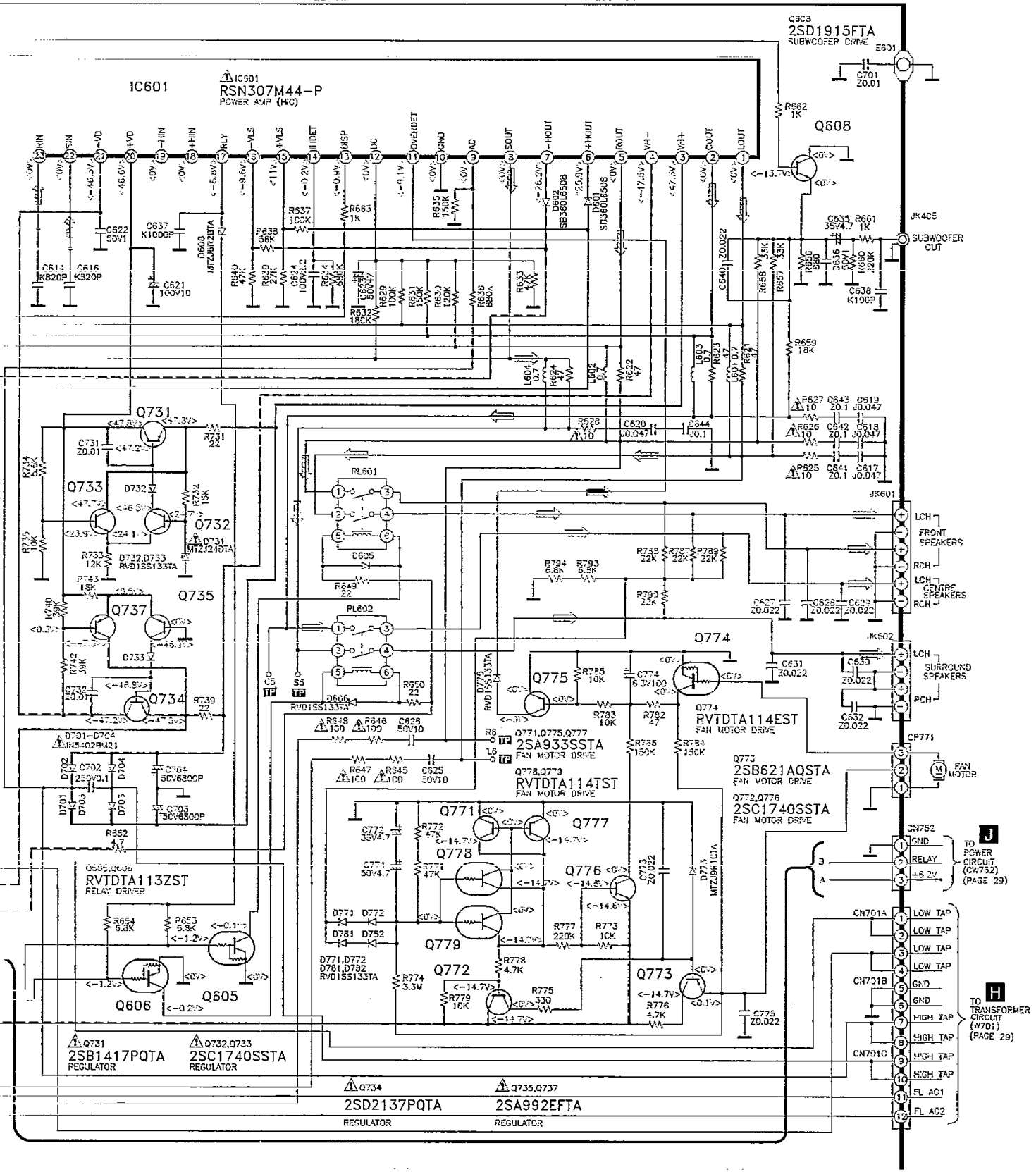
B
TO PANEL
CIRCUIT
(CP903)
(PAGE 26)



B
TO PANEL CIRCUIT
(CP901)
(PAGE 26)

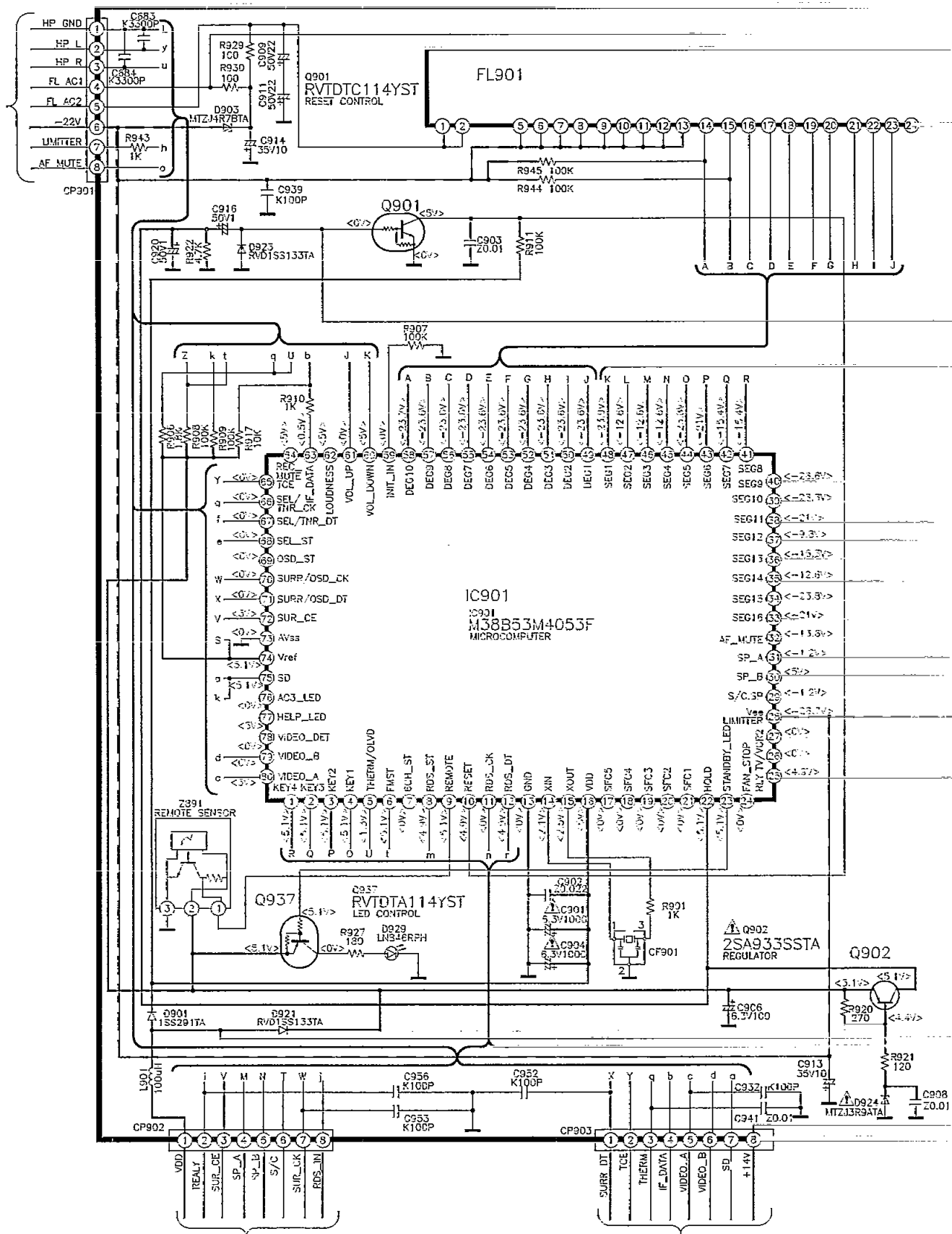
B
TO PANEL CIRCUIT
(CP904)
(PAGE 27)

B
TO PANEL CIRCUIT
(CP905)
(PAGE 27)



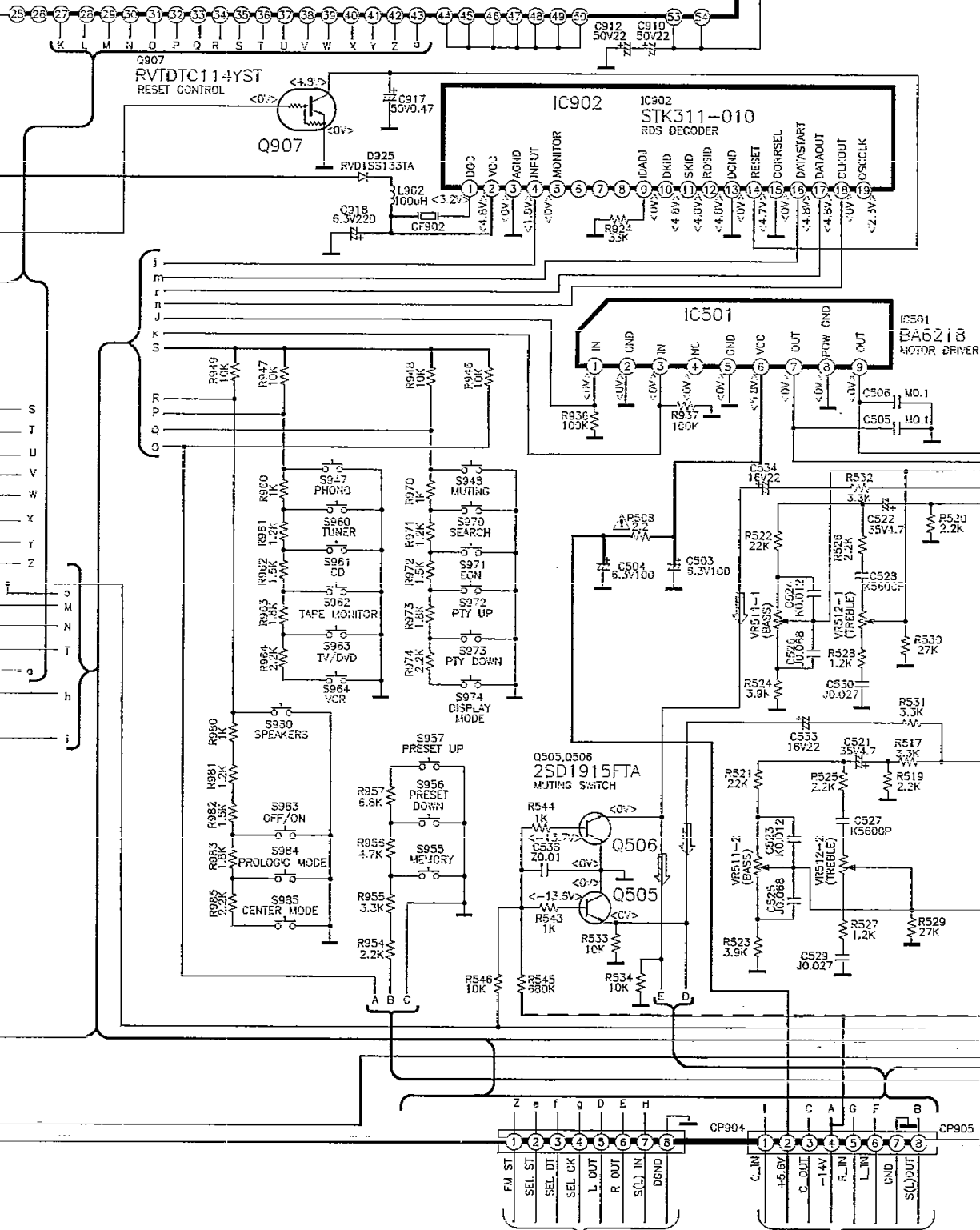
B PANEL CIRCUIT

A
TO
MAIN
CIRCUIT
(CN901)
(PAGE 24)



A
TO
MAIN
CIRCUIT
(CN902)
(PAGE 23)

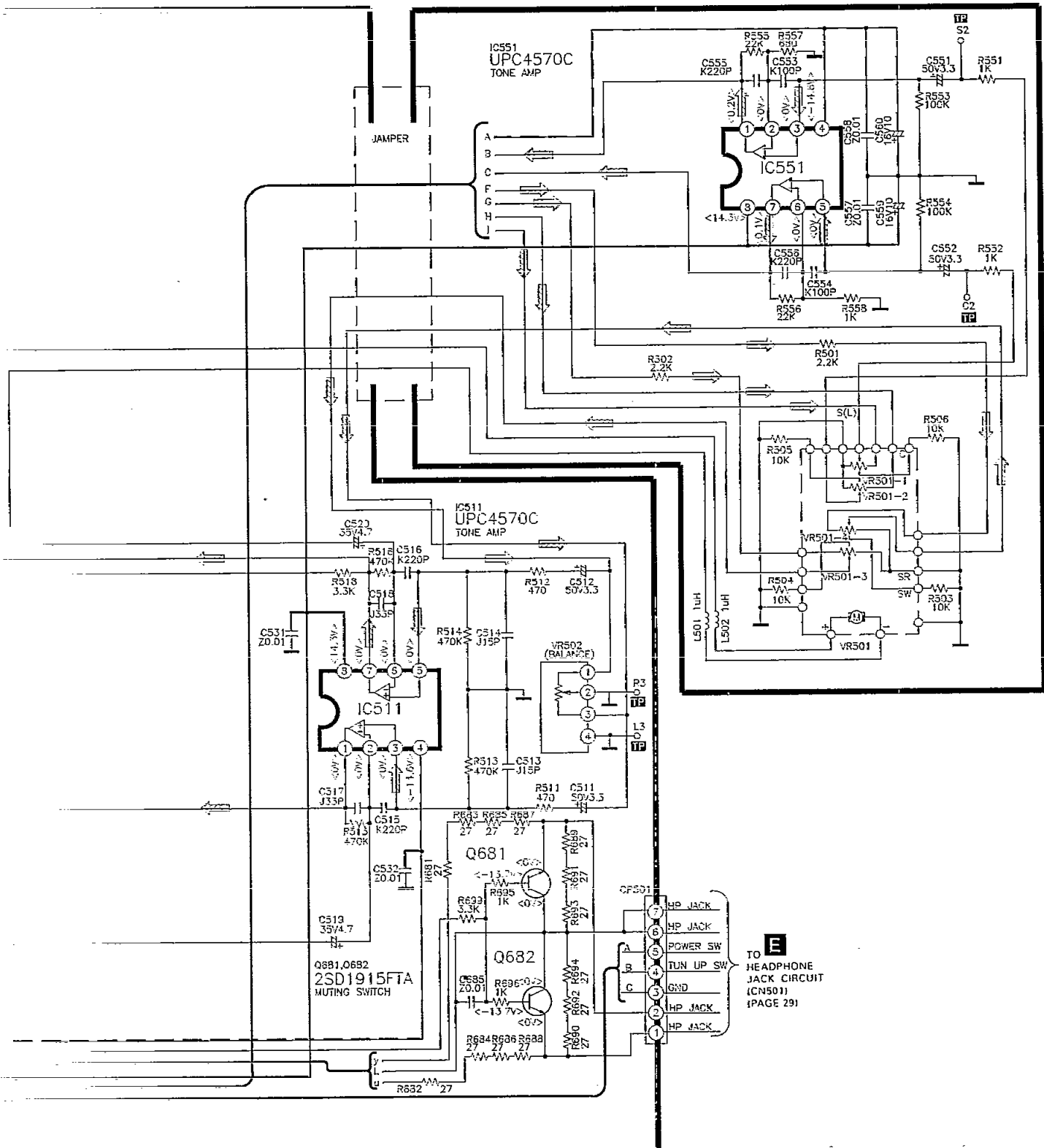
A
TO
MAIN
CIRCUIT
(CN903)
(PAGE 23)



TO MAIN CIRCUIT (CN904) (PAGE 24)

TO MAIN CIRCUIT (CN905) (PAGE 24)

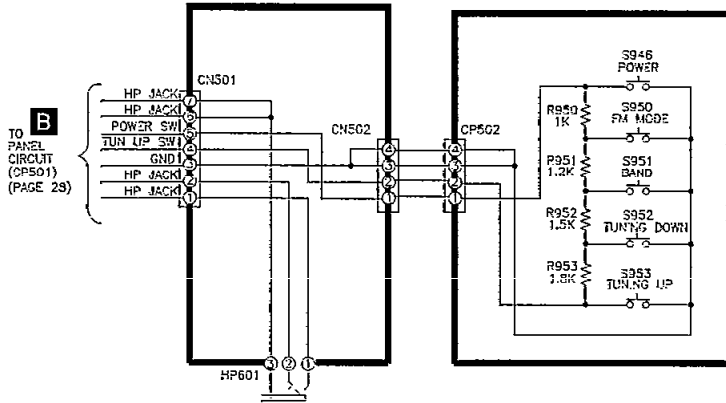
C MOTOR CIRCUIT



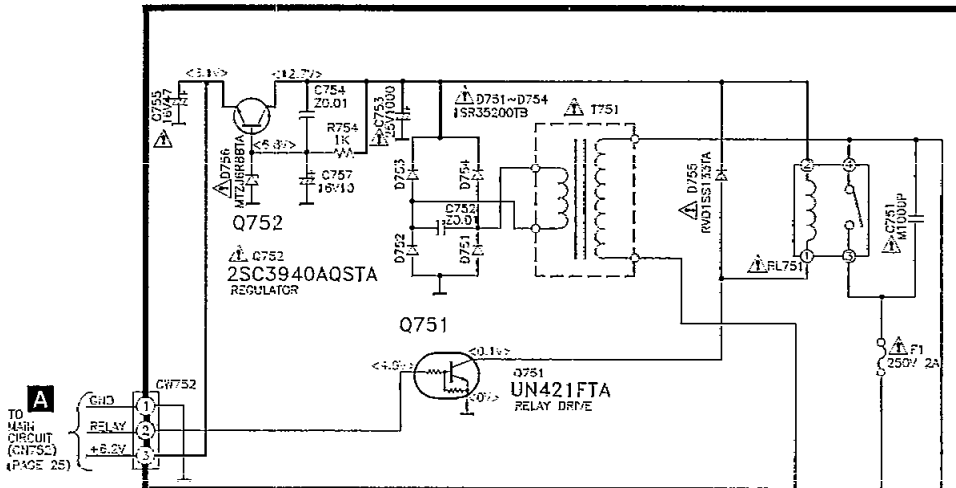
E
TO HEADPHONE
JACK CIRCUIT
(CN501)
(PAGE 29)

E HEADPHONE JACK CIRCUIT

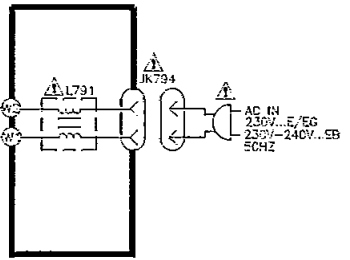
D POWER SWITCH CIRCUIT



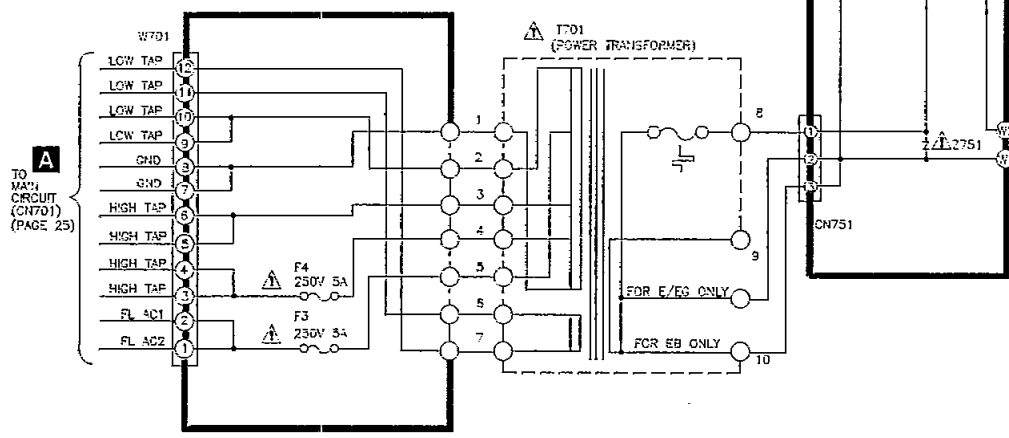
J POWER CIRCUIT



K AC IN/OUT CIRCUIT



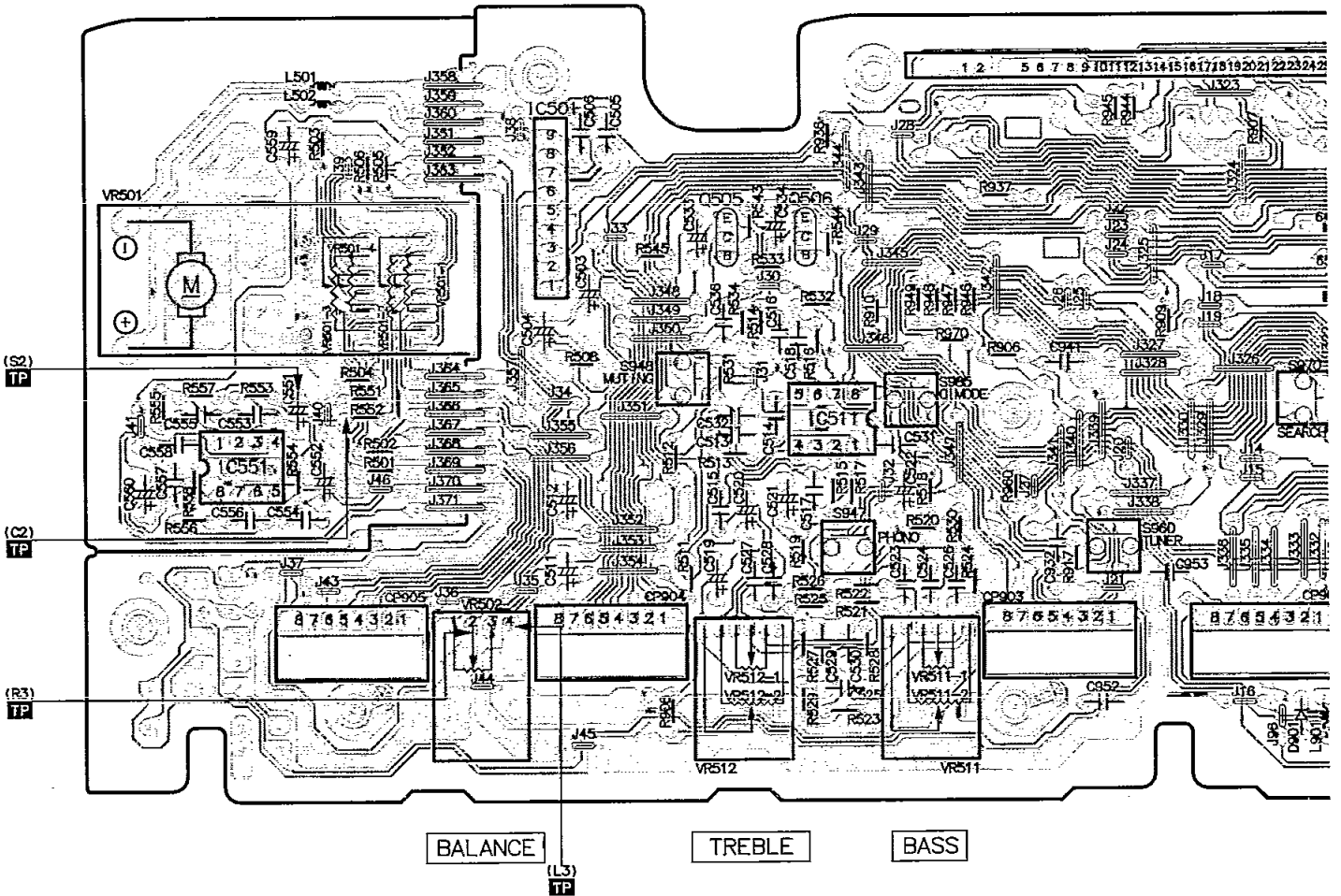
H TRANSFORMER CIRCUIT



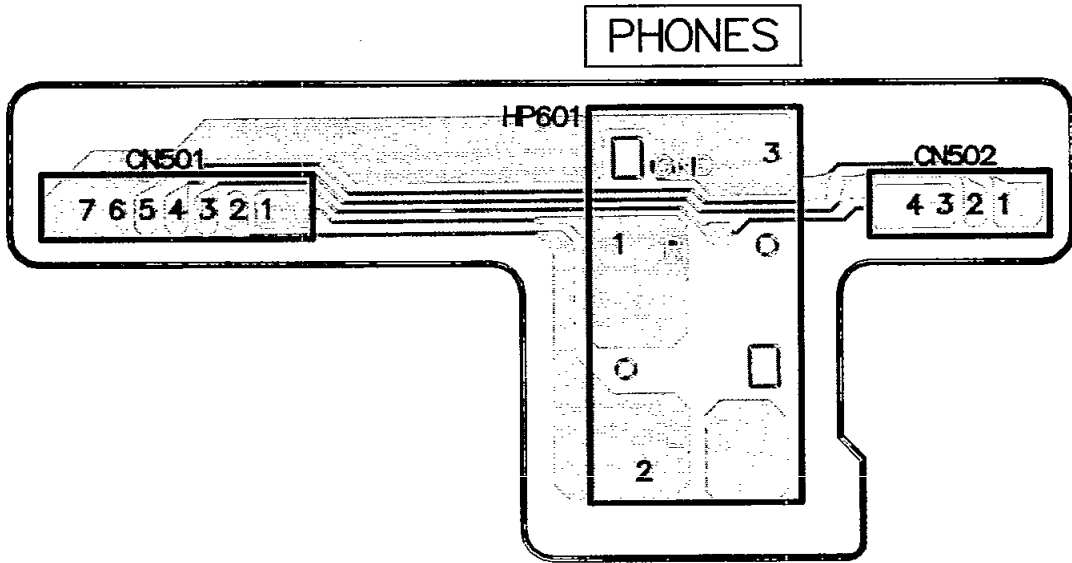
Printed Circuit Board

C MOTOR P.C.B. (REP2445D-S)

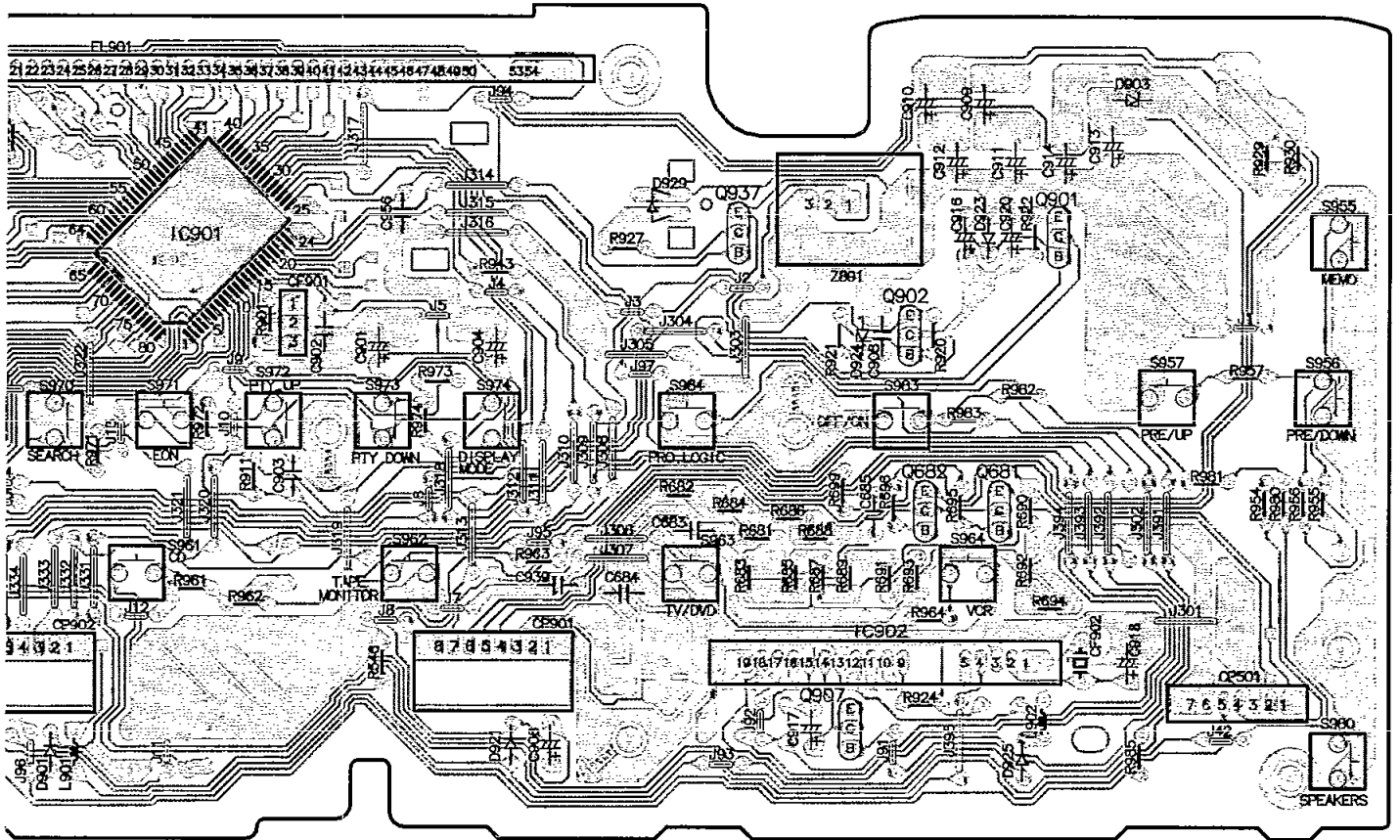
B PANEL P.C.B. (REP2445D-S)



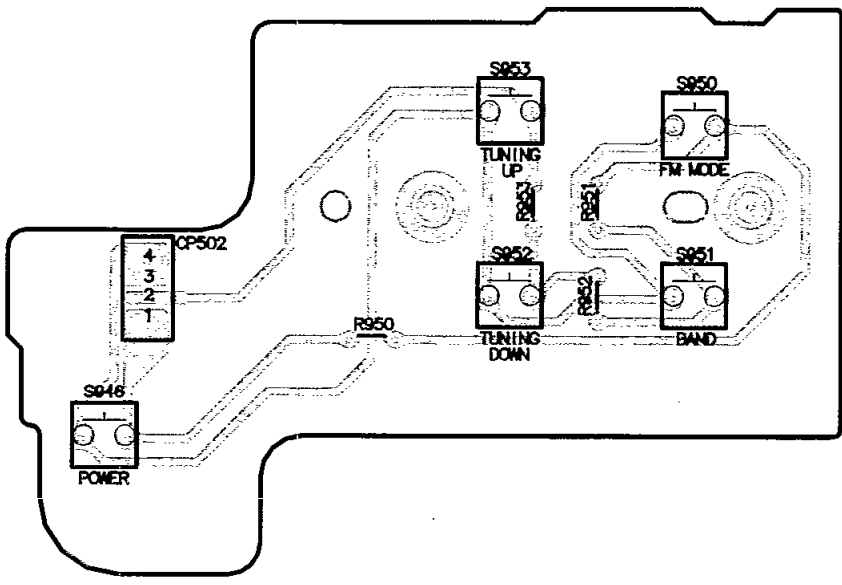
E HEADPHONE JACK P.C.B. (REP2445D-S)



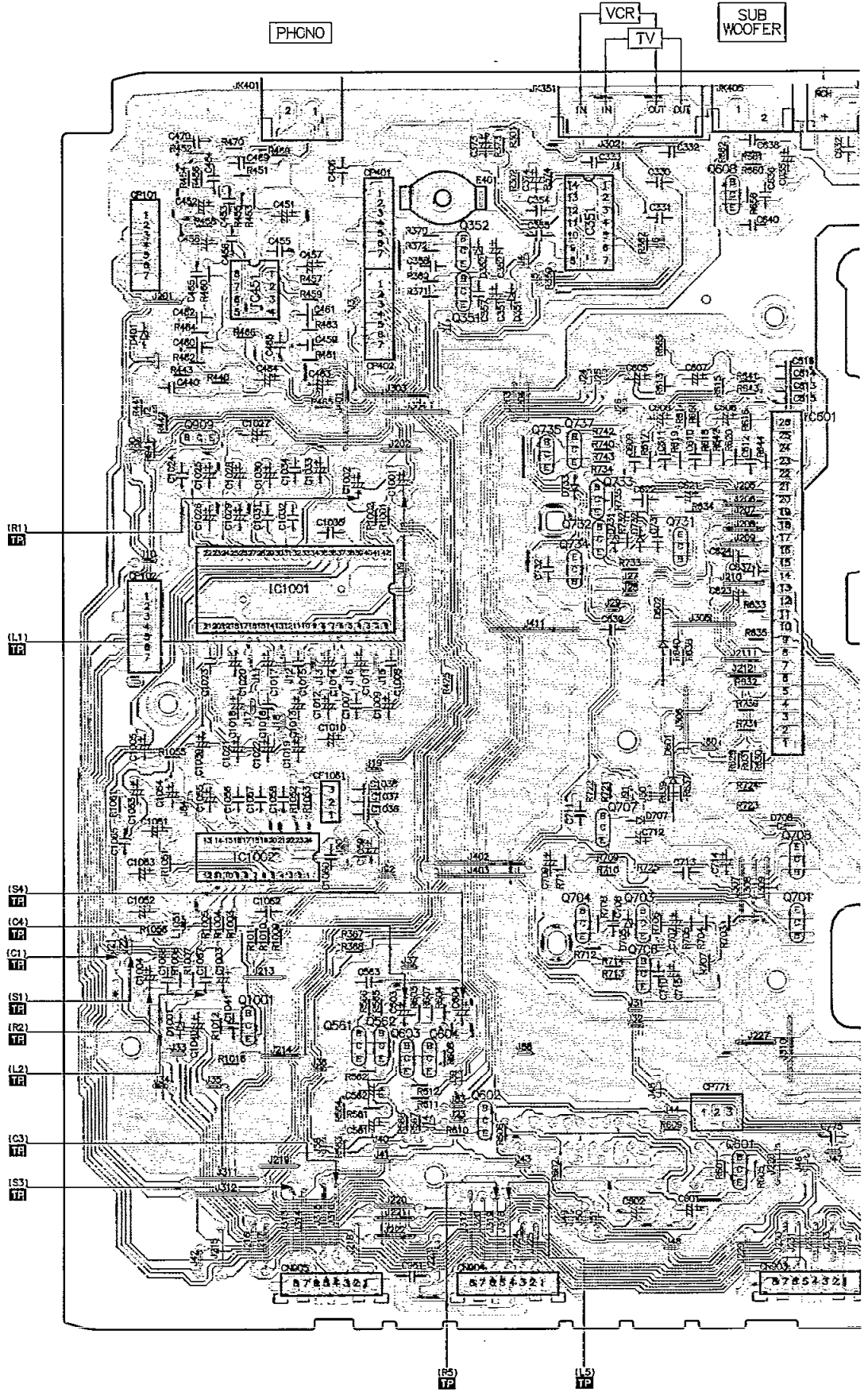
SENSOR

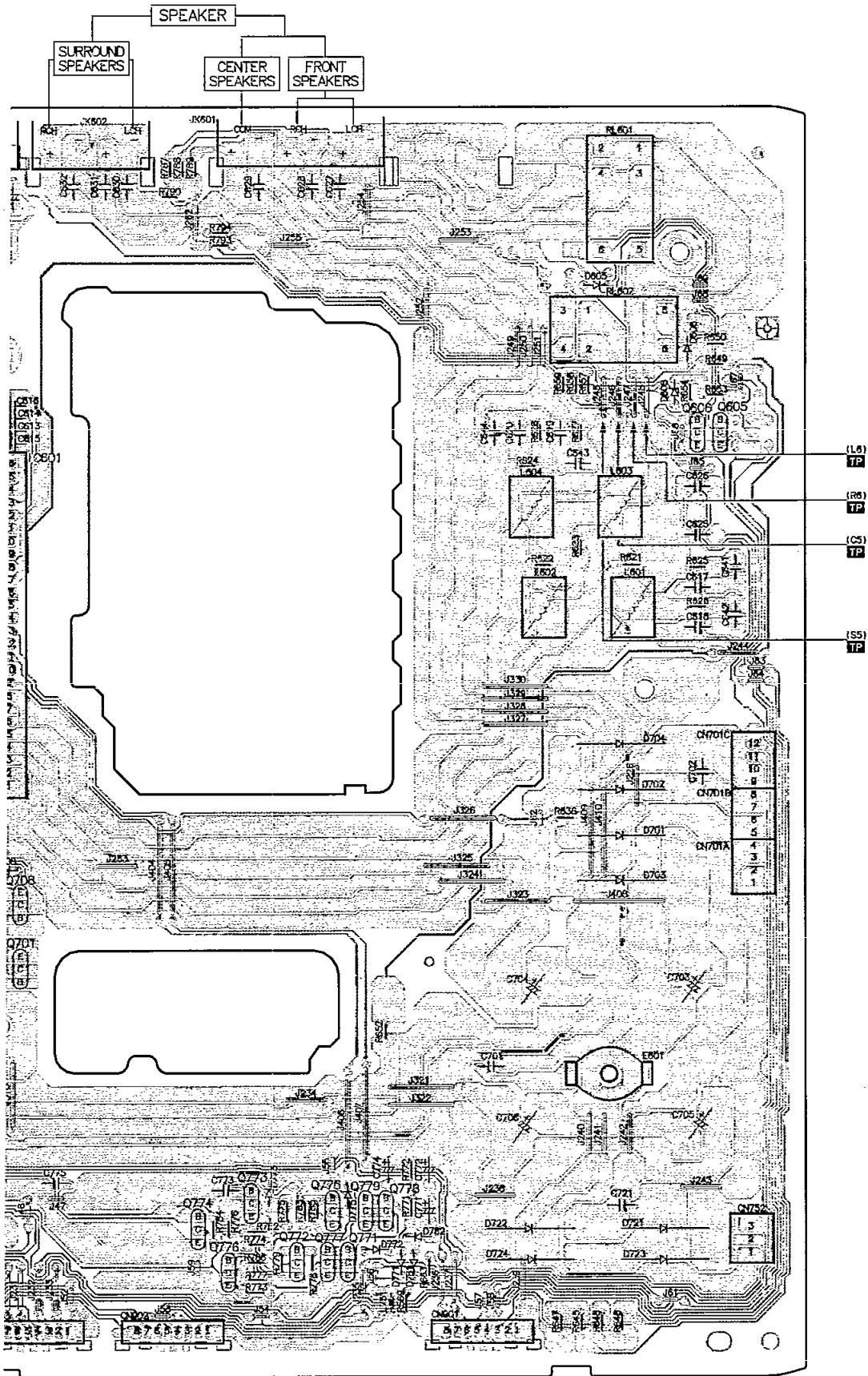


D POWER SWITCH P.C.B. (REP2445D-S)

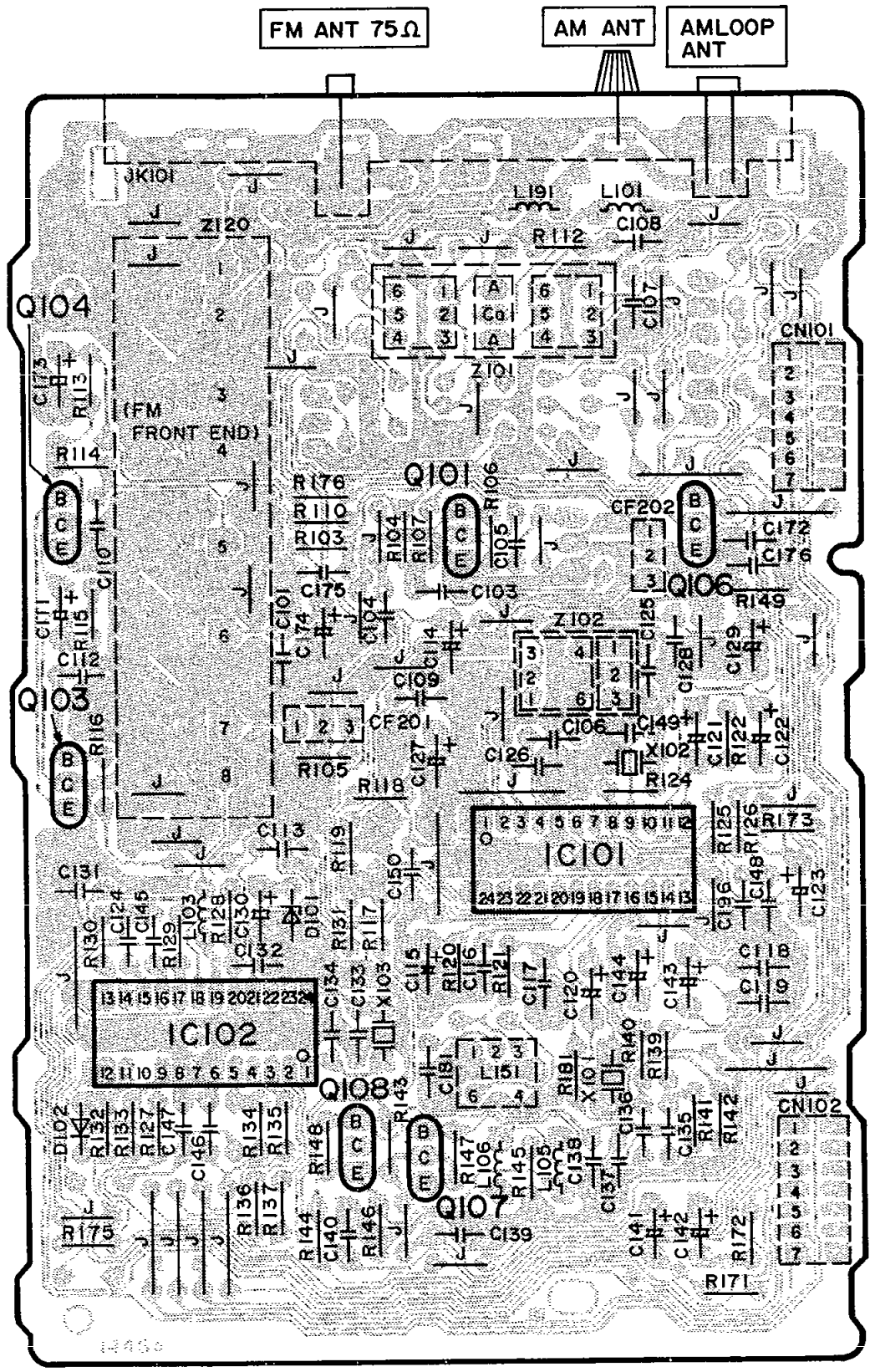


A MAIN P.C.B. (REP2444C-M)

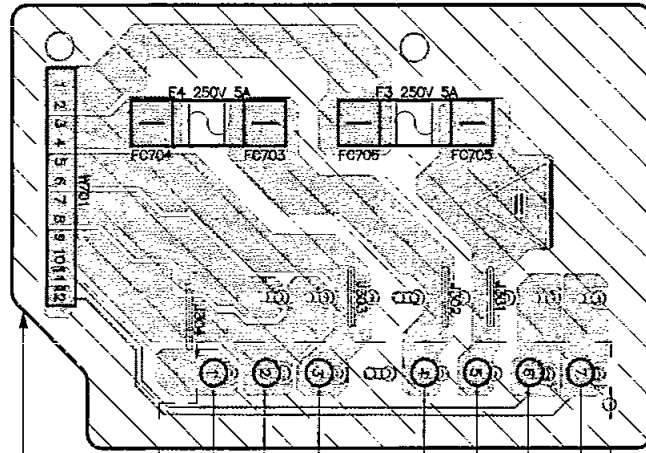




F TUNER P.C.B. (REP2158A-T).....EG (REP2158D-T).....E/EB

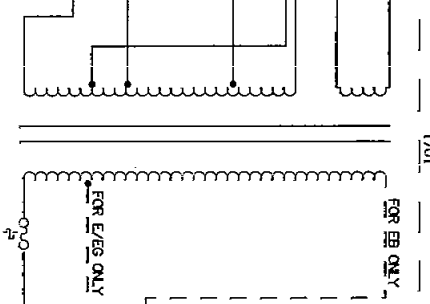


H TRANSFORMER P.C.B.
(REP2444C-M)



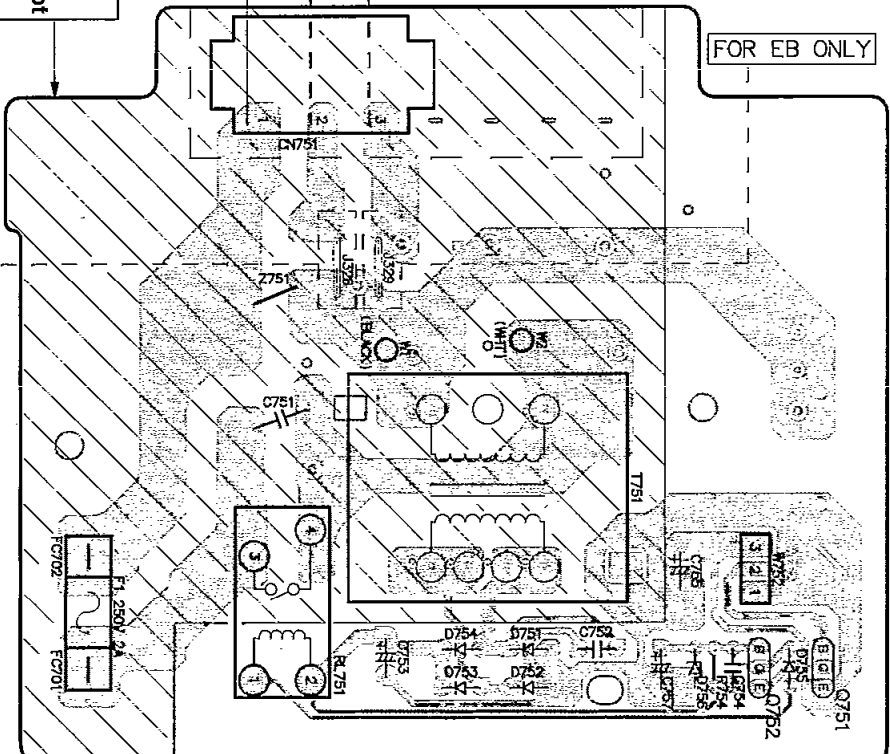
CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not touch this portion.

(POWER TRANSFORMER)



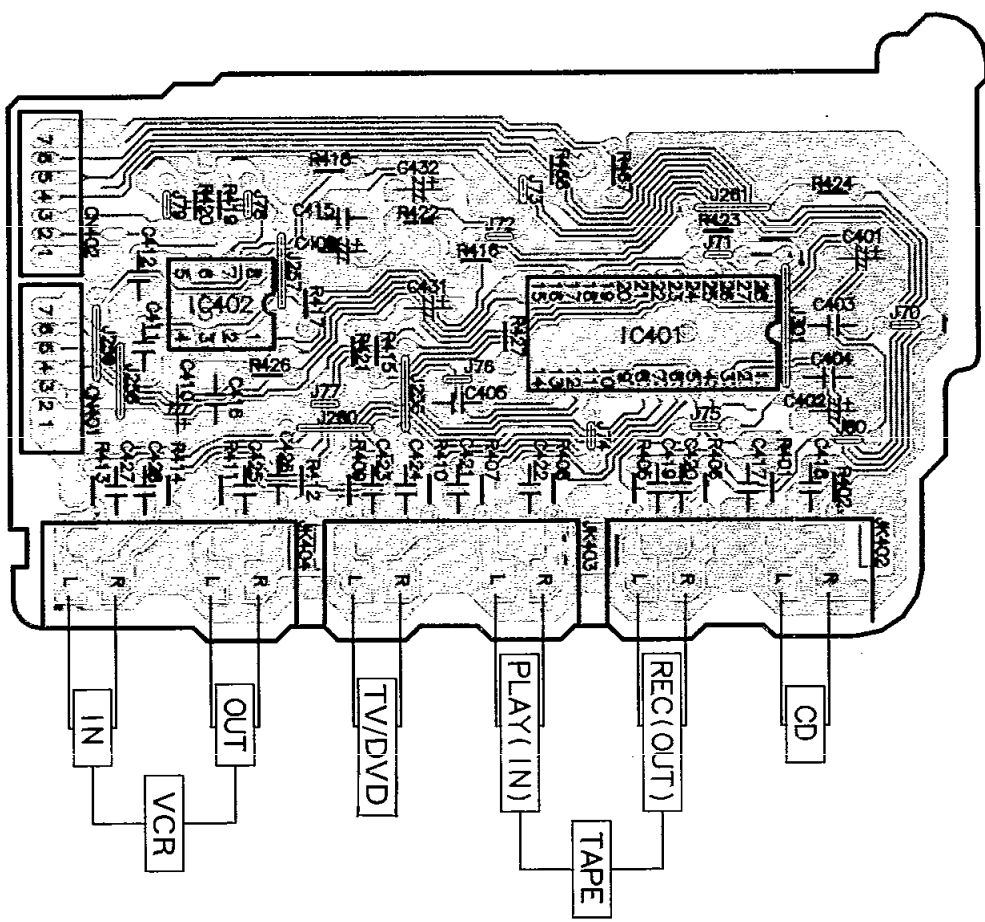
FOR E/EG ONLY

FOR EB ONLY

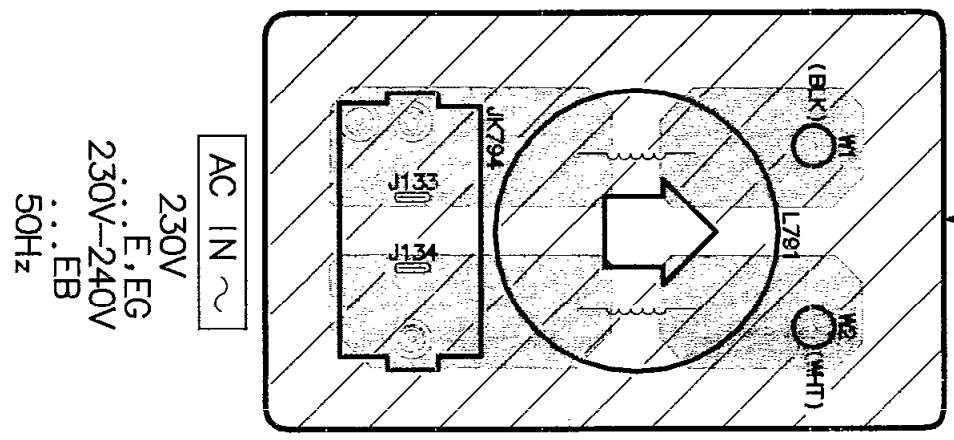


J POWER P.C.B.
(REP2446D-P).....E/EG
(REP2446E-P).....EB

G IN / OUT TERMINAL P.C.B.
 (REP2446D-P).....E/EG
 (REP2446E-P).....EB

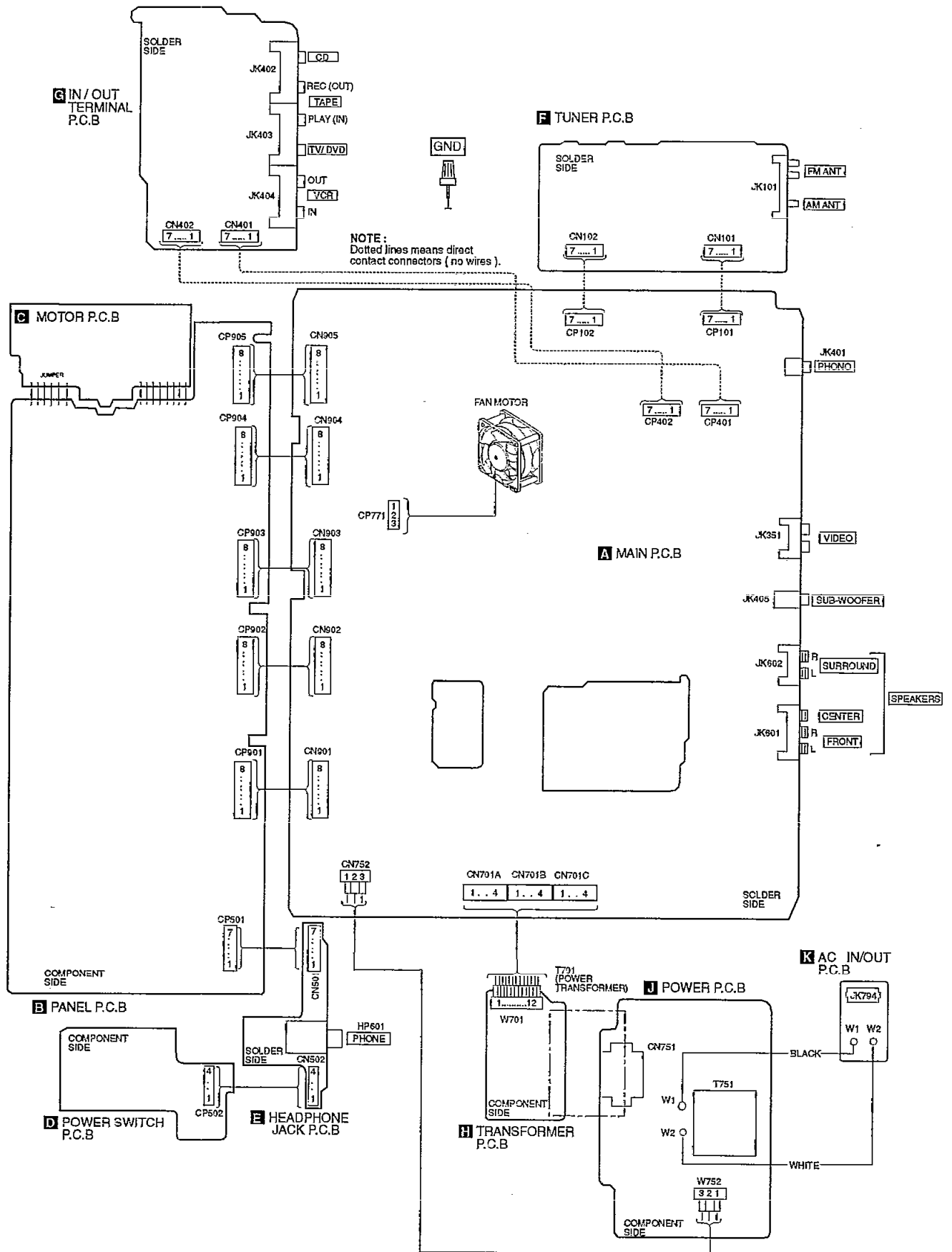


K AC IN/OUT P.C.B.
 (REP2446D-P).....E/EG
 (REP2446E-P).....EB

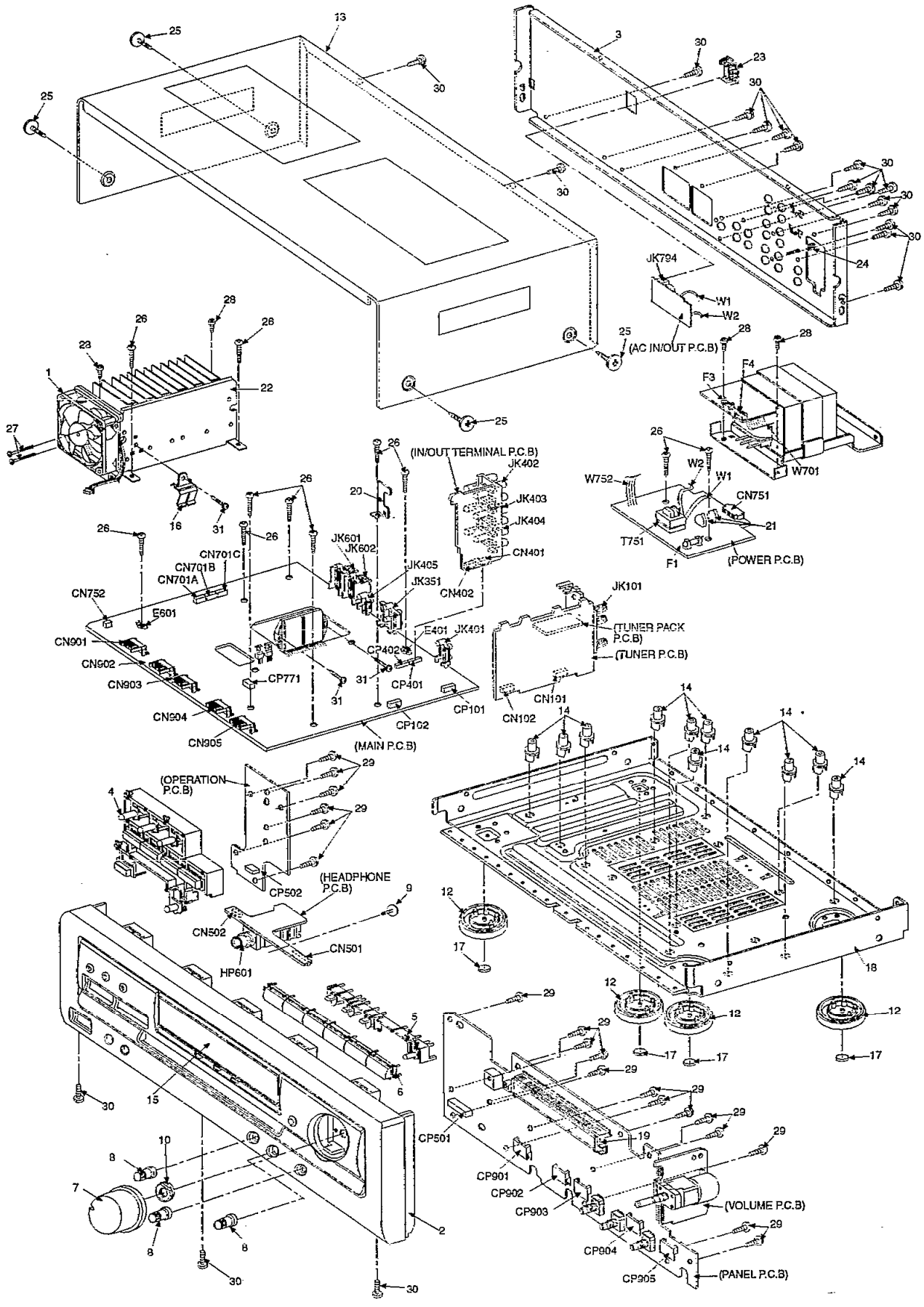


CAUTION
RISK OF ELECTRIC SHOCK
 AC voltage line. Please do not touch this portion.

Wiring Connection Diagram




■ Cabinet Parts Location



Replacement Parts List

Notes: * important safety notice :

 Components identified by  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
























* The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)

Parts without these indication can be used for all areas.

* [M] in Remarks column indicates parts that are supplied by MESA.

* Remote Control Unit : Supply period for three years from terminal of production.

* The "(SF)" mark denotes the standard part.


Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS		IC402	M5218AP	IC, BUFFER AMP	[M]	Q731	2SB1417PQTA	TRANSISTOR 	[M]
				IC451	AN5558F	IC, OP AMP	[M]	Q732	2SC1740SSTA	TRANSISTOR 	[M]
1	REM0069	FAN UNIT	[M]	IC501	BA6218	IC, MOTOR DRIVER	[M]	Q733	2SC1740SSTA	TRANSISTOR 	[M]
2	RFK6EX310EK	FRONT PANEL ASS'Y	[M]	IC511	UPC4570C	IC, TONE CONTROL	[M]	Q734	2SD2197PQTA	TRANSISTOR 	[M]
3	RGR0251B-A	REAR PANEL	[M]EG E	IC551	UPC4570C	IC, TONE CONTROL	[M]	Q735	2SA992EFTA	TRANSISTOR 	[M]
3	RGR0251B-B	REAR PANEL	[M]EB	IC601	RSN307M44-P	IC, HIC 	[M]	Q737	2SA992EFTA	TRANSISTOR 	[M]
4	RGU1350-K	MODE BUTTON	[M]	IC901	M36B53M4053F	IC, MICOM	[M]	Q751	RVTDTCA143XST	TRANSISTOR	[M]
5	RGU1352M-K	DOLBY BUTTON	[M]	IC902	STK311-010	IC, RDS DECODER	[M]	Q752	2SC3940AQSTA	TRANSISTOR 	[M]
6	RGU1493-K	SELECTOR BUTTON	[M]	IC1001	LA2786L	IC, DPL	[M]	Q771	2SA933SSTA	TRANSISTOR	[M]
7	RGW0243A-K	VOLUME KNOB	[M]	IC1002	LV1016L	IC, SURR DECODER	[M]	Q772	2SC1740SSTA	TRANSISTOR	[M]
8	RGW0244-K1	BASS TREBLE KNOB	[M]			TRANSISTORS		Q773	2SB621AQSTA	TRANSISTOR	[M]
9	RHD26016	SCREW	[M]	Q101	2SC2787LTA	TRANSISTOR	[M]	Q774	RVTDTA114EST	TRANSISTOR	[M]
10	RHN90001	M9 NUT	[M]	Q103	2SC2785FETA	TRANSISTOR	[M]	Q775	2SA933SSTA	TRANSISTOR	[M]
12	RKA0079-A	LEG	[M]	Q104	2SC2785FETA	TRANSISTOR	[M]	Q776	2SC1740SSTA	TRANSISTOR	[M]
13	RKM0260D-K	TOP CABINET	[M]EG E	Q106	RVTDTA1143XST	TRANSISTOR	[M]	Q777	2SA933SSTA	TRANSISTOR	[M]
14	RKQ0089-J	PCB HOLDER	[M]	Q107	2SC3311ARTA	TRANSISTOR	[M]	Q778	RVTDTA114TST	TRANSISTOR	[M]
15	RKW0436E-Q	FL WINDOW	[M]	Q108	2SC3311ARTA	TRANSISTOR	[M]	Q779	RVTDTA114TST	TRANSISTOR	[M]
16	RM0158-S	TRANSISTOR HOLDER	[M]	Q351	2SD592AQRSTA	TRANSISTOR 	[M]	Q901	RVTDTCA114YST	TRANSISTOR	[M]
17	RMG0270-K	LEG CUSHION	[M]	Q352	2SB621AQSTA	TRANSISTOR 	[M]	Q902	2SA933SSTA	TRANSISTOR 	[M]
18	RMK0350	BOTTOM CHASSIS	[M]	Q505	2SD1915FTA	TRANSISTOR	[M]	Q907	RVTDTCA114YST	TRANSISTOR	[M]
19	RMN0372	FL HOLDER	[M]	Q506	2SD1915FTA	TRANSISTOR	[M]	Q909	2SC1740SSTA	TRANSISTOR	[M]
20	RMQ0709	TUNER PCB BRACKET	[M]	Q561	2SD1915FTA	TRANSISTOR	[M]	Q937	RVTDTA114YST	TRANSISTOR	[M]
21	RMZ0339	ZNR COVER	[M]	Q562	2SD1915FTA	TRANSISTOR	[M]	Q1001	2SC3940AQSTA	TRANSISTOR 	[M]
22	RXX0186	HEAT SINK UNIT	[M]	Q601	2SC1740SSTA	TRANSISTOR	[M]			DIODES	
23	SJS9231A	A/C INLET COVER	[M]	Q602	2SC1740SSTA	TRANSISTOR	[M]	D101	MTZJ5R1BTA	DIODE	[M]
24	SNE2123	EARTH TERMINAL	[M]	Q603	2SC1740SSTA	TRANSISTOR	[M]	D102	MA165TA	DIODE	[M]
25	SNE2129-1	SCREW (CABINET)	[M]	Q604	2SC1740SSTA	TRANSISTOR	[M]	D351	MTZJ5R6BTA	DIODE 	[M]
26	XTB3+20JFZ	SCREW	[M]	Q605	RVTDTA113ZST	TRANSISTOR	[M]	D352	MTZJ5R6BTA	DIODE 	[M]
27	XTB3+30J	SCREW (FAN)	[M]	Q606	RVTDTA113ZST	TRANSISTOR	[M]	D401	MTZJ7R5CTA	DIODE	[M]
28	XTB3+8FFZ	SCREW	[M]	Q608	2SD1915FTA	TRANSISTOR	[M]	D601	SB360L6503	DIODE	[M]
29	XTBS26+10J	SCREW (FRONT)	[M]	Q681	2SD1915FTA	TRANSISTOR	[M]	D602	SB360L6508	DIODE	[M]
30	XTBS3+8JFZ1	SCREW	[M]	Q682	2SD1915FTA	TRANSISTOR	[M]	D605	RVD1SS133TA	DIODE	[M]
31	XTW3+15T	SCREW	[M]	Q701	2SD2374PQAU	TRANSISTOR 	[M]	D606	RVD1SS133TA	DIODE	[M]
		INTEGRATED CIRCUITS		Q703	2SC1740SSTA	TRANSISTOR 	[M]	D608	MTZJ6R2BTA	DIODE	[M]
IC101	LA1832A	IC, IF/MPX	[M]	Q704	2SC1740SSTA	TRANSISTOR 	[M]	D701	1N5402BM21	DIODE 	[M]
IC102	LC7218	IC, PLL	[M]	Q705	2SC3940AQSTA	TRANSISTOR	[M]	D702	1N5402BM21	DIODE 	[M]
IC351	NJM2279D	IC, VIDEO SELECTOR	[M]	Q707	2SB621AQSTA	TRANSISTOR 	[M]	D703	1N5402BM21	DIODE 	[M]
IC401	TC9163AN	IC, SELECTOR	[M]	Q708	2SB1548PQAU	TRANSISTOR 	[M]	D704	1N5402BM21	DIODE 	[M]

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
D705	MTZJ6R2BTA	DIODE	[M]	S960	EVQ21405R	SW, TUNER	[M]	L105	RLQZB822KT-D	TAPING COIL	[M]
D707	MTZJ27DTA	DIODE	[M]	S961	EVQ21405R	SW, CD	[M]	L106	RLQZB822KT-D	TAPING COIL	[M]
D708	MTZJ15CTA	DIODE	[M]	S962	EVQ21405R	SW, TAPE	[M]	L151	SLM1B10-1M	A.B. FILTER	[M]
D721	1N5402BM21	DIODE	[M]	S963	EVQ21405R	SW, TV/DVD	[M]	L191	ELESNR55MA	CHOKE COIL	[M]
D722	1N5402BM21	DIODE	[M]	S964	EVQ21405R	SW, VCR	[M]	L501	RLQZP1R0KT-Y	AXIAL COIL	[M]
D723	1N5402BM21	DIODE	[M]	S970	EVQ21405R	SW, SEARCH	[M]	L502	RLQZP1R0KT-Y	AXIAL COIL	[M]
D724	1N5402BM21	DIODE	[M]	S971	EVQ21405R	SW, EON	[M]	L601	RLQYR73MW-E	CHOKE COIL	[M]
D731	MTZJ24DTA	DIODE	[M]	S972	EVQ21405R	SW, PTY UP	[M]	L602	RLQYR73MW-E	CHOKE COIL	[M]
D732	RVD1SS133TA	DIODE	[M]	S973	EVQ21405R	SW, PTY DOWN	[M]	L603	RLQYR73MW-E	CHOKE COIL	[M]
D733	RVD1SS133TA	DIODE	[M]	S974	EVQ21405R	SW, DISPLAY MODE	[M]	L604	RLQYR73MW-E	CHOKE COIL	[M]
D751	1SR35200TB	DIODE	[M]	S980	EVQ21405R	SW, SPEAKERS	[M]	L751	ELESN101KA	CHOKE COIL	[M]
D752	1SR35200TB	DIODE	[M]	S983	EVQ21405R	SW, OFF/ON	[M]	L791	SLQZ850MH49	AC LINE COIL	[M]
D753	1SR35200TB	DIODE	[M]	S984	EVQ21405R	SW, PRO-LOGIC	[M]	L901	RLQB101KTA-Y	CHOKE COIL	[M]
D754	1SR35200TB	DIODE	[M]	S985	EVQ21405R	SW, CENTER MODE	[M]	L902	RLQZP101KT-Y	AXIAL COIL	[M]
D755	RVD1SS133TA	DIODE	[M]					L105J	ELESN101KA	CHOKE COIL	[M]
D756	MTZJ6R8BTA	DIODE	[M]			CONNECTORS		T701	RTP1N5B025-X	POWER TRANSFORMER	[M]
D771	RVD1SS133TA	DIODE	[M]	CN101	RJU057W007	7P CONNECTOR	[M]	T751	RTP115E006	TRANSFORMER (SMALL)	[M]
D772	RVD1SS133TA	DIODE	[M]	CN102	RJU057W007	7P CONNECTOR	[M]			COMPONENT COMBINATION	
D773	MTZJ9R1CTA	DIODE	[M]	CN401	RJU100W07	7P CONNECTOR	[M]	Z101	RLA22002M-T	AM ANT. COIL	[M]
D775	RVD1SS133TA	DIODE	[M]	CN402	RJU100W07	7P CONNECTOR	[M]	Z102	RLI2Z008M-T	AM IFT	[M]
D781	RVD1SS133TA	DIODE	[M]	CN501	RJU100W07	7P CONNECTOR	[M]	Z120	ENV17290G1R	FM TUNER PACK	[M] E
D782	RVD1SS133TA	DIODE	[M]	CN502	RJU100W04	4P CONNECTOR	[M]	Z120	ENV17290G1Y	FM TUNER PACK	[M] E
D901	1SS291TA	DIODE	[M]	CN701A	RJS1A6604T1	4P TAPING CONNECTOR	[M]	Z751	ERZV10V511CS	ZNR	[M]
D903	MTZJ4R7BTA	DIODE	[M]	CN701B	RJS1A6604T1	4P TAPING CONNECTOR	[M]	Z891	RCDSPS4242N	REMOTE SENSOR	[M]
D921	RVD1SS133TA	DIODE	[M]	CN701C	RJS1A6604T1	4P TAPING CONNECTOR	[M]			CERAMIC FILTERS	
D923	RVD1SS133TA	DIODE	[M]	CN751	SJS305-1	3P CONNECTOR	[M]	CF201	RLFFETNGD01L	CERAMIC FILTER	[M]
D924	MTZJ3R9ATA	DIODE	[M]	CN752	RJS1A6603T1	3 PIN TAPING CONNECT	[M]	CF202	RLFFETNGD01L	CERAMIC FILTER	[M]
D925	RVD1SS133TA	DIODE	[M]	CN901	RJU003K008M1	BOAD IN CONNECTOR	[M]	CF901	RVBCST4R90MT	CERAMIC OSCILLATOR	[M]
D929	LN846RPH	DIODE	[M]	CN902	RJU003K008M1	BOAD IN CONNECTOR	[M]	CF902	RSXZ456KM07M	CERAMIC OSCILLATOR	[M]
D1001	MTZJ10CTA	DIODE	[M]	CN903	RJU003K008M1	BOAD IN CONNECTOR	[M]	CF1051	EF0EC8004T4	CERAMIC OSCILLATOR	[M]
		VARIABLE RESISTORS		CN904	RJU003K008M1	BOAD IN CONNECTOR	[M]			OSCILLATORS	
VR501	EUWMRH026B15	VR, MOTOR	[M]	CN905	RJU003K008M1	BOAD IN CONNECTOR	[M]	X101	RSXZ456KM07M	CERAMIC OSCILLATOR	[M]
VR502	EVJ02QF01G15	VR, BALANCE CONTROL	[M]	CP101	RJT057W007-1	7P CONNECTOR	[M]	X102	RLFDGTD011	FM REZONATOR	[M]
VR511	EVJYA1F01C15	VR, TONE CONTROL	[M]	CP102	RJT057W007-1	7P CONNECTOR	[M]	X103	SVQ49U722T-S	CERAMIC 7.2MHz	[M]
VR512	EVJYA1F01C15	VR, TONE CONTROL	[M]	CP401	RJT100W07	7P CONNECTOR	[M]			DISPLAY TUBE	
		SWITCHES		CP402	RJT100W07	7P CONNECTOR	[M]	FL901	RSL0293-F	FL	[M]
S946	EVQ21405R	SW, POWER	[M]	CP501	RJT100W07	7P CONNECTOR	[M]			EARTH TERMINALS	
S947	EVQ21405R	SW, PHONO	[M]	CP502	RJT100W04	4P CONNECTOR	[M]	E401	SNE1004-2	EARTH TERMINAL	[M]
S948	EVQ21405R	SW, MUTING	[M]	CP771	RJP3G4YA	CONNECTOR	[M]	E601	SNE1004-2	EARTH TERMINAL	[M]
S950	EVQ21405R	SW, FM MODE	[M]	CP901	RJT003KC009M1	8P CONNECTOR	[M]			FUSES	
S951	EVQ21405R	SW, BAND	[M]	CP902	RJT003KC009M1	8P CONNECTOR	[M]	F1	XBA2C20TB0	FUSE	[M]
S952	EVQ21405R	SW, TUNING DOWN	[M]	CP903	RJT003KC009M1	8P CONNECTOR	[M]	F3	XBA2G50TB0	FUSE	[M]
S953	EVQ21405R	SW, TUNING UP	[M]	CP904	RJT003KC009M1	8P CONNECTOR	[M]				
S955	EVQ21405R	SW, MEMORY	[M]	CP905	RJT003KC009M1	8P CONNECTOR	[M]				
S956	EVQ21405R	SW, PRESET DOWN	[M]			COILS & TRANSFORMERS					
S957	EVQ21405R	SW, PRESET UP	[M]	L101	ELESN1R0MA	CHOKE COIL	[M]				
				L103	ELEXTR47MA9	CHOKE COIL	[M]				

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
F4	XBA2C50TB0	FUSE	[M]	JK402	SJF3069N	JK, LINE IN	[M]	A2	RJA0019-2K	AC CORD (SF) [M]EG E	
				JK403	SJF3069N	JK, LINE IN	[M]	A2	VJA0733	AC CORD (SF) [M]JEB	
		FUSE CLIPS		JK404	SJF3069N	JK, LINE IN	[M]	A3	RFKSEX310EK	INSTR. MANUAL ASS'Y	[M]E
FC701	EYF52BC	FUSE HOLDER	[M]	JK405	SJFD7	JK, FM MULTI OUT	[M]	A3	RFKSEX310EBK	INSTR. MANUAL ASS'Y	[M]JEB
FC702	EYF52BC	FUSE HOLDER	[M]	JK601	RJH5601	JK, SP TERMINAL	[M]	A3	RFKSEX310EGK	INSTR. MANUAL ASS'Y	[M]EG
FC703	EYF52BC	FUSE HOLDER	[M]	JK602	RJR0054	JK, SP TERMINAL	[M]	A4	RSA0007	FM ANTENA	[M]
FC704	EYF52BC	FUSE HOLDER	[M]	JK794	SJS9231-1B	JK, AC IN	[M]	A5	RSA0010	LOOP ANT UNIT	[M]
FC705	EYF52BC	FUSE HOLDER	[M]					A6	SJP9009	ANT ADAPTER	[M]JEB
FC706	EYF52BC	FUSE HOLDER	[M]			HEADPHONE		A7	SPSD152	ACCESSORY BOX	[M]
				HP601	RJJ63TS01	HEADPHONE JACK	[M]	A8	RPG3592	GIFT BOX	[M]JEB EG
		RELAYS									
RL601	RSY0013M-0	RELAY	[M]			PACKING MATERIALS				WIRE	
RL602	RSY0013M-0	RELAY	[M]	P1	RPG3462	PACKING CASE	[M]E	W1	REE0814	WIRE	[M]
RL751	RSY0013M-0	12V TV-5 RELAY	[M]	P2	RPFX0005	MIRAMAT BAG	[M]	W2	REE0818	WIRE	[M]
				P3	RPN0985	POLYFOAM	[M]				
		JACKS									
JK101	RJH4202	JK, ANT TERMINAL	[M]			ACCESSORIES					
JK351	SJF3069-3N	JK, RCA PIN	[M]	A1	EUR644377	REMOTE CONTROL	[M]				
JK401	SJF3069-7N	JK, RCA TERMINAL	[M]	A1-1	UR64EC1822-3	REMOTE CONTROL COVER	[M]				

Resistors & Capacitors

Notes : * Important safety notice:

Components identified by  mark have special characteristics important for safety.















Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

* Capacitor values are in microfarad (μ F) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)

* Resistors values are in ohms, unless specified otherwise, 1k=1,000(OHM), 1M=1,000k(OHM)

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
	RESISTORS		R124	ERDS2TJ271T	270 1/4W [M]	R144	ERDS2TJ222T	2.2K 1/4W [M]	R368	ERDS2TJ102T	1K 1/4W [M]
			R125	ERDS2TJ472T	4.7K 1/4W [M]	R145	ERDS2TJ102T (E8,E)	1K 1/4W [M]	R369	ERDS2TJ182T	1.8K 1/4W [M]
R103	ERDS2TJ101T	100 1/4W [M]	R126	ERDS2TJ472T	4.7K 1/4W [M]	R145	ERDS2TJ561T (E6)	560 1/4W [M]	R370	ERDS2TJ182T	1.8K 1/4W [M]
R104	ERDS2TJ102T	1K 1/4W [M]	R127	ERDS2TJ103T	10K 1/4W [M]	R146	ERDS2TJ102T (E8,E)	1K 1/4W [M]	R371	ERD2FCVG220T	22 1/4W [M]
R105	ERDS2TJ471T	470 1/4W [M]	R128	ERDS2TJ820T	82 1/4W [M]	R146	ERDS2TJ561T (E6)	560 1/4W [M]	R372	ERD2FCVG220T	22 1/4W [M]
R106	ERDS2TJ224T	220K 1/4W [M]	R129	ERDS2TJ473T	47K 1/4W [M]	R147	ERDS2TJ474T	470K 1/4W [M]	R373	ERDS2TJ103T	10K 1/4W [M]
R107	ERDS2TJ471T	470 1/4W [M]	R130	ERDS2TJ102T	1K 1/4W [M]	R148	ERDS2TJ474T	470K 1/4W [M]	R374	ERDS2TJ103T	10K 1/4W [M]
R110	ERDS2TJ102T	1K 1/4W [M]	R131	ERDS2TJ102T	1K 1/4W [M]	R149	ERDS2TJ680T	68 1/4W [M]	R401	ERDS2TJ102T	1K 1/4W [M]
R112	ERDS2TJ104T	100K 1/4W [M]	R132	ERDS2TJ103T	10K 1/4W [M]	R171	ERDS2TJ102T	1K 1/4W [M]	R402	ERDS2TJ102T	1K 1/4W [M]
R113	ERDS2TJ103T	10K 1/4W [M]	R133	ERDS2TJ102T	1K 1/4W [M]	R172	ERDS2TJ102T	1K 1/4W [M]	R405	ERDS2TJ102T	1K 1/4W [M]
R114	ERDS2TJ562T	5.6K 1/4W [M]	R134	ERDS2TJ102T	1K 1/4W [M]	R173	ERDS2TJ471T	470 1/4W [M]	R406	ERDS2TJ102T	1K 1/4W [M]
R115	ERDS2TJ561T	560 1/4W [M]	R135	ERDS2TJ102T	1K 1/4W [M]	R175	ERDS2TJ102T	1K 1/4W [M]	R407	ERDS2TJ102T	1K 1/4W [M]
R116	ERDS2TJ102T	1K 1/4W [M]	R136	ERDS2TJ102T	1K 1/4W [M]	R176	ERDS2TJ391T	390 1/4W [M]	R408	ERDS2TJ102T	1K 1/4W [M]
R117	ERDS2TJ473T	47K 1/4W [M]	R137	ERDS2TJ102T	1K 1/4W [M]	R181	ERDS2TJ332T	3.3K 1/4W [M]	R409	ERDS2TJ102T	1K 1/4W [M]
R118	ERDS2TJ562T	5.6K 1/4W [M]	R139	ERDS2TJ272T	2.7K 1/4W [M]	R301	ERDS2TJ750T	75 1/4W [M]	R410	ERDS2TJ102T	1K 1/4W [M]
R119	ERDS2TJ183T	18K 1/4W [M]	R140	ERDS2TJ272T	2.7K 1/4W [M]	R302	ERDS2TJ750T	75 1/4W [M]	R411	ERDS2TJ102T	1K 1/4W [M]
R120	ERDS2TJ473T	47K 1/4W [M]	R141	ERDS2TJ102T	1K 1/4W [M]	R359	ERDS2TJ750T	75 1/4W [M]	R412	ERDS2TJ102T	1K 1/4W [M]
R121	ERDS2TJ332T	3.3K 1/4W [M]	R142	ERDS2TJ102T	1K 1/4W [M]	R362	ERDS2TJ750T	75 1/4W [M]	R413	ERDS2TJ102T	1K 1/4W [M]
R122	ERDS2TJ272T	2.7K 1/4W [M]	R143	ERDS2TJ222T	2.2K 1/4W [M]	R367	ERDS2TJ102T	1K 1/4W [M]	R414	ERDS2TJ102T	1K 1/4W [M]

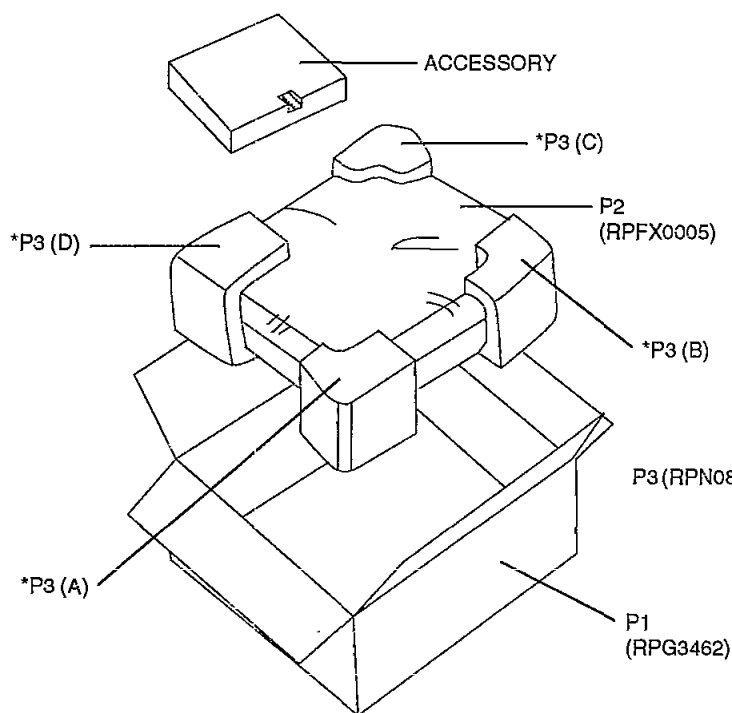
Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
R415	ERDS2TJ102T	1K 1/4W [M]	R515	ERDS2TJ474T	470K 1/4W [M]	R608	ERDS2TJ223T	22K 1/4W [M]	R658	ERDS2TJ333T	33K 1/4W [M]
R416	ERDS2TJ102T	1K 1/4W [M]	R516	ERDS2TJ474T	470K 1/4W [M]	R609	ERDS2TJ222T	2.2K 1/4W [M]	R659	ERDS2TJ183T	18K 1/4W [M]
R417	ERDS2TJ473T	47K 1/4W [M]	R517	ERDS2TJ332T	3.3K 1/4W [M]	R610	ERDS2TJ222T	2.2K 1/4W [M]	R660	ERDS2TJ224T	220K 1/4W [M]
R418	ERDS2TJ473T	47K 1/4W [M]	R518	ERDS2TJ332T	3.3K 1/4W [M]	R611	ERDS2TJ222T	2.2K 1/4W [M]	R661	ERDS2TJ102T	1K 1/4W [M]
R419	ERDS2TJ104T	100K 1/4W [M]	R519	ERDS2TJ222T	2.2K 1/4W [M]	R612	ERDS2TJ222T	2.2K 1/4W [M]	R662	ERDS2TJ102T	1K 1/4W [M]
R420	ERDS2TJ104T	100K 1/4W [M]	R520	ERDS2TJ222T	2.2K 1/4W [M]	R613	ERDS2TJ182T	1.8K 1/4W [M]	R663	ERDS2TJ102T	1K 1/4W [M]
R421	ERDS2TJ104T	100K 1/4W [M]	R521	ERDS2TJ223T	22K 1/4W [M]	R614	ERDS2TJ182T	1.8K 1/4W [M]	R665	ERDS2TJ472T	4.7K 1/4W [M]
R422	ERDS2TJ104T	100K 1/4W [M]	R522	ERDS2TJ223T	22K 1/4W [M]	R615	ERDS2TJ182T	1.8K 1/4W [M]	R666	ERDS2TJ472T	4.7K 1/4W [M]
R423	ERDS2TJ102T	1K 1/4W [M]	R523	ERDS2TJ392T	3.9K 1/4W [M]	R616	ERDS2TJ182T	1.8K 1/4W [M]	R681	ERDS2TJ270T	27 1/4W [M]
R424	ERDS2TJ102T	1K 1/4W [M]	R524	ERDS2TJ392T	3.9K 1/4W [M]	R617	ERDS2TJ563T	56K 1/4W [M]	R682	ERDS2TJ270T	27 1/4W [M]
R425	ERDS2TJ103T	10K 1/4W [M]	R525	ERDS2TJ222T	2.2K 1/4W [M]	R618	ERDS2TJ563T	56K 1/4W [M]	R683	ERDS2TJ270T	27 1/4W [M]
R426	ERDS2TJ103T	10K 1/4W [M]	R526	ERDS2TJ222T	2.2K 1/4W [M]	R619	ERDS2TJ563T	56K 1/4W [M]	R684	ERDS2TJ270T	27 1/4W [M]
R427	ERDS2TJ103T	10K 1/4W [M]	R527	ERDS2TJ122T	1.2K 1/4W [M]	R620	ERDS2TJ563T	56K 1/4W [M]	R685	ERDS2TJ270T	27 1/4W [M]
R440	ERDS1FVJ820T 	82 1/2W [M]	R528	ERDS2TJ122T	1.2K 1/4W [M]	R621	ERDS2TJ470T	47 1/4W [M]	R686	ERDS2TJ270T	27 1/4W [M]
R441	ERDS2TJ473T	47K 1/4W [M]	R529	ERDS2TJ273T	27K 1/4W [M]	R622	ERDS2TJ470T	47 1/4W [M]	R687	ERDS2TJ270T	27 1/4W [M]
R442	ERDS2TJ473T	47K 1/4W [M]	R530	ERDS2TJ273T	27K 1/4W [M]	R623	ERDS2TJ470T	47 1/4W [M]	R688	ERDS2TJ270T	27 1/4W [M]
R443	ERDS2TJ330T	33 1/4W [M]	R531	ERDS2TJ332T	3.3K 1/4W [M]	R624	ERDS2TJ470T	47 1/4W [M]	R689	ERDS2TJ270T	27 1/4W [M]
R451	ERDS2TJ224T	220K 1/4W [M]	R532	ERDS2TJ332T	3.3K 1/4W [M]	R625	ERDS1FVJ100T 	10 1/2W [M]	R690	ERDS2TJ270T	27 1/4W [M]
R452	ERDS2TJ224T	220K 1/4W [M]	R533	ERDS2TJ103T	10K 1/4W [M]	R626	ERDS1FVJ100T 	10 1/2W [M]	R691	ERDS2TJ270T	27 1/4W [M]
R453	ERDS2TJ391T	390 1/4W [M]	R534	ERDS2TJ103T	10K 1/4W [M]	R627	ERDS1FVJ100T 	10 1/2W [M]	R692	ERDS2TJ270T	27 1/4W [M]
R454	ERDS2TJ391T	390 1/4W [M]	R543	ERDS2TJ102T	1K 1/4W [M]	R628	ERDS1FVJ100T 	10 1/2W [M]	R693	ERDS2TJ270T	27 1/4W [M]
R455	ERDS2TJ563T	56K 1/4W [M]	R544	ERDS2TJ102T	1K 1/4W [M]	R629	ERDS2TJ104T	100K 1/4W [M]	R694	ERDS2TJ270T	27 1/4W [M]
R456	ERDS2TJ563T	56K 1/4W [M]	R545	ERDS2TJ884T	880K 1/4W [M]	R630	ERDS2TJ124T	120K 1/4W [M]	R695	ERDS2TJ102T	1K 1/4W [M]
R457	ERDS2TJ271T	270 1/4W [M]	R546	ERDS2TJ103T	10K 1/4W [M]	R631	ERDS2TJ154T	150K 1/4W [M]	R696	ERDS2TJ102T	1K 1/4W [M]
R458	ERDS2TJ271T	270 1/4W [M]	R551	ERDS2TJ102T	1K 1/4W [M]	R632	ERDS2TJ184T	180K 1/4W [M]	R699	ERDS2TJ332T	3.3K 1/4W [M]
R459	ERDS2TJ680T	68 1/4W [M]	R552	ERDS2TJ102T	1K 1/4W [M]	R633	ERDS2TJ473T	47K 1/4W [M]	R703	ERDS1FVJ3R9T 	3.9 1/2W [M]
R460	ERDS2TJ680T	68 1/4W [M]	R553	ERDS2TJ104T	100K 1/4W [M]	R634	ERDS2TJ684T	680K 1/4W [M]	R704	ERDS1FVJ3R9T 	3.9 1/2W [M]
R461	ERDS2TJ184T	180K 1/4W [M]	R554	ERDS2TJ104T	100K 1/4W [M]	R635	ERDS2TJ154T	150K 1/4W [M]	R705	ERDS2TJ472T	4.7K 1/4W [M]
R462	ERDS2TJ184T	180K 1/4W [M]	R555	ERDS2TJ223T	22K 1/4W [M]	R636	ERDS2TJ684T	680K 1/4W [M]	R706	ERDS2TJ102T	1K 1/4W [M]
R463	ERDS2TJ123T	12K 1/4W [M]	R556	ERDS2TJ223T	22K 1/4W [M]	R637	ERDS2TJ104T	100K 1/4W [M]	R707	ERD25FVJ221T	220 1/4W [M]
R464	ERDS2TJ123T	12K 1/4W [M]	R557	ERDS2TJ681T	680 1/4W [M]	R638	ERDS2TJ563T	56K 1/4W [M]	R708	ERDS2TJ152T	1.5K 1/4W [M]
R465	ERDS2TJ563T	56K 1/4W [M]	R558	ERDS2TJ102T	1K 1/4W [M]	R639	ERDS2TJ273T	27K 1/4W [M]	R709	ERDS2TJ1R5T	1.5 1/4W [M]
R466	ERDS2TJ563T	56K 1/4W [M]	R559	ERDS2TJ332T	3.3K 1/4W [M]	R640	ERDS2TJ473T	47K 1/4W [M]	R710	ERDS2TJ1R5T	1.5 1/4W [M]
R467	ERDS2TJ102T	1K 1/4W [M]	R562	ERDS2TJ332T	3.3K 1/4W [M]	R641	ERDS2TJ221T	220 1/4W [M]	R711	ERDS2TJ732T	7.5K 1/4W [M]
R468	ERDS2TJ102T	1K 1/4W [M]	R563	ERDS2TJ104T	100K 1/4W [M]	R642	ERDS2TJ221T	220 1/4W [M]	R712	ERDS2TJ682T	6.8K 1/4W [M]
R469	ERDS2TJ102T	1K 1/4W [M]	R564	ERDS2TJ104T	100K 1/4W [M]	R643	ERDS2TJ221T	220 1/4W [M]	R713	ERDS2TJ390T	39 1/4W [M]
R470	ERDS2TJ102T	1K 1/4W [M]	R565	ERDS2TJ102T	1K 1/4W [M]	R644	ERDS2TJ221T	220 1/4W [M]	R714	ERDS2TJ390T	39 1/4W [M]
R501	ERDS2TJ222T	2.2K 1/4W [M]	R566	ERDS2TJ102T	1K 1/4W [M]	R645	ERG1SJ101E 	100 1W [M]	R721	ERD2FCVG151T	150 1/4W [M]
R502	ERDS2TJ222T	2.2K 1/4W [M]	R567	ERDS2TJ101T	100 1/4W [M]	R646	ERG1SJ101E 	100 1W [M]	R722	ERDS2TJ392T	3.9K 1/4W [M]
R503	ERDS2TJ103T	10K 1/4W [M]	R568	ERDS2TJ101T	100 1/4W [M]	R647	ERG1SJ101E 	100 1W [M]	R723	ERDS1FVJ3R9T 	3.9 1/2W [M]
R504	ERDS2TJ103T	10K 1/4W [M]	R569	ERDS2TJ332T	3.3K 1/4W [M]	R648	ERG1SJ101E 	100 1W [M]	R724	ERDS1FVJ3R9T 	3.9 1/2W [M]
R505	ERDS2TJ103T	10K 1/4W [M]	R601	ERDS2TJ102T	1K 1/4W [M]	R649	ERD2FCVG220T	22 1/4W [M]	R725	ERDS2TJ102T	1K 1/4W [M]
R506	ERDS2TJ103T	10K 1/4W [M]	R602	ERDS2TJ102T	1K 1/4W [M]	R650	ERD2FCVG220T	22 1/4W [M]	R731	ERD2FCVG220T	22 1/4W [M]
R508	ERDS1FVJ2R2T 	2.2 1/2W [M]	R603	ERDS2TJ102T	1K 1/4W [M]	R652	ERD25FVJ4R7T	4.7 1/4W [M]	R732	ERDS2TJ153T	15K 1/4W [M]
R511	ERDS2TJ471T	470 1/4W [M]	R604	ERDS2TJ102T	1K 1/4W [M]	R653	ERDS2TJ682T	6.8K 1/4W [M]	R733	ERDS2TJ123T	12K 1/4W [M]
R512	ERDS2TJ471T	470 1/4W [M]	R605	ERDS2TJ392T	3.9K 1/4W [M]	R654	ERDS2TJ682T	6.8K 1/4W [M]	R734	ERDS2TJ562T	5.6K 1/4W [M]
R513	ERDS2TJ474T	470K 1/4W [M]	R606	ERDS2TJ392T	3.9K 1/4W [M]	R656	ERDS2TJ681T	680 1/4W [M]	R735	ERDS2TJ103T	10K 1/4W [M]
R514	ERDS2TJ474T	470K 1/4W [M]	R607	ERDS2TJ223T	22K 1/4W [M]	R657	ERDS2TJ333T	33K 1/4W [M]	R739	ERD2FCVG220T	22 1/4W [M]

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
R740	ERDS2TJ393T	39K 1/4W [M]	R949	ERDS2TJ109T	10K 1/4W [M]		CAPACITORS		C148	ECBT1C103NS5	0.01 16V [M]
R742	ERDS2TJ393T	39K 1/4W [M]	R950	ERDS2TJ102T	1K 1/4W [M]				C149	ECBT1C103NS5	0.01 16V [M]
R743	ERDS2TJ183T	18K 1/4W [M]	R951	ERDS2TJ122T	1.2K 1/4W [M]	C101	ECBT1C103NS5	0.01 16V [M]	C150	ECBT1H104ZF5	0.1 50V [M]
R754	ERDS2TJ102T	1K 1/4W [M]	R952	ERDS2TJ152T	1.5K 1/4W [M]	C103	ECBT1C103NS5	0.01 16V [M]	C172	ECBT1H331KB5	330P 50V [M]
R771	ERDS2TJ473T	47K 1/4W [M]	R953	ERDS2TJ182T	1.8K 1/4W [M]	C104	ECBT1H102KB5	1000P 50V [M]	C173	ECEA1CKA220B	22 16V [M]
R772	ERDS2TJ473T	47K 1/4W [M]	R954	ERDS2TJ222T	2.2K 1/4W [M]	C105	ECBT1H470J5	47P 50V [M]	C174	ECEA1CKA101B	100 16V [M]
R773	ERDS2TJ103T	10K 1/4W [M]	R955	ERDS2TJ332T	3.3K 1/4W [M]	C106	ECBT1C103NS5	0.01 16V [M]	C175	ECBT1C103NS5	0.01 16V [M]
R774	ERDS2TJ335T	3.3M 1/4W [M]	R956	ERDS2TJ472T	4.7K 1/4W [M]	C107	ECBT1H473ZF5	0.047 50V [M]	C176	ECBT1C103NS5	0.01 16V [M]
R775	ERDS2TJ331T	330 1/4W [M]	R957	ERDS2TJ682T	6.8K 1/4W [M]	C108	ECBT1H382KC5	8.2P 50V [M]	C181	ECBT1H471KB5	470P 50V [M]
R776	ERD25FVJ4R7T	4.7 1/4W [M]	R960	ERDS2TJ102T	1K 1/4W [M]	C109	ECBT1C103NS5	0.01 16V [M]	C196	ECBT1H102KB5	1000P 50V [M]
R777	ERDS2TJ224T	220K 1/4W [M]	R961	ERDS2TJ122T	1.2K 1/4W [M]	C110	ECBT1C103NS5	0.01 16V [M]	C390	ECBT1H470J5	47P 50V [M]
R778	ERDS2TJ472T	4.7K 1/4W [M]	R962	ERDS2TJ152T	1.5K 1/4W [M]	C111	ECEA1EKA4R7B	4.7 25V [M]	C391	ECBT1H470J5	47P 50V [M]
R779	ERDS2TJ103T	10K 1/4W [M]	R963	ERDS2TJ182T	1.8K 1/4W [M]	C112	ECBT1C103NS5	0.01 16V [M]	C392	ECKR1H223ZF5	0.022 50V [M]
R782	ERDS2TJ470T	47 1/4W [M]	R964	ERDS2TJ222T	2.2K 1/4W [M]	C113	ECBT1H102KB5	1000P 50V [M]	C393	ECKR1H223ZF5	0.022 50V [M]
R783	ERDS2TJ103T	10K 1/4W [M]	R970	ERDS2TJ102T	1K 1/4W [M]	C114	ECEA1HKA3R9B	3.3 50V [M]	C394	ECEA1CU101B	100 16V [M]
R784	ERDS2TJ154T	150K 1/4W [M]	R971	ERDS2TJ122T	1.2K 1/4W [M]	C115	ECEA1EKA4R7B	4.7 25V [M]	C395	ECEA1CU101B	100 16V [M]
R785	ERDS2TJ103T	10K 1/4W [M]	R972	ERDS2TJ152T	1.5K 1/4W [M]	C116	ECBT1C822MS5	8200P 16V [M]	C396	ECBT1E103ZF5	0.01 25V [M]
R786	ERDS2TJ154T	150K 1/4W [M]	R973	ERDS2TJ182T	1.8K 1/4W [M]	C117	ECQB1H471JF3	470P 50V [M]	C397	ECBT1E103ZF5	0.01 25V [M]
R787	ERDS2TJ223T	22K 1/4W [M]	R974	ERDS2TJ222T	2.2K 1/4W [M]	C118	ECQB1H103JF3	0.01 50V [M]	C398	ECBT1E103ZF5	0.01 25V [M]
R788	ERDS2TJ223T	22K 1/4W [M]	R980	ERDS2TJ102T	1K 1/4W [M]	C119	ECQB1H103JF3	0.01 50V [M]	C399	ECBT1E103ZF5	0.01 25V [M]
R789	ERDS2TJ223T	22K 1/4W [M]	R981	ERDS2TJ122T	1.2K 1/4W [M]	C120	ECEA1HKA010B	1 50V [M]	C400	ECA1EM470B	47 25V [M]
R790	ERDS2TJ223T	22K 1/4W [M]	R982	ERDS2TJ152T	1.5K 1/4W [M]	C121	ECEA1HKA010B	1 50V [M]	C401	ECA1EM470B	47 25V [M]
R793	ERDS2TJ682T	6.8K 1/4W [M]	R983	ERDS2TJ182T	1.8K 1/4W [M]	C122	ECEA1HKA2R2B	2.2 50V [M]	C402	ECEA1VKA4R7B	4.7 35V [M]
R794	ERDS2TJ682T	6.8K 1/4W [M]	R985	ERDS2TJ222T	2.2K 1/4W [M]	C123	ECEA1HKA010B	1 50V [M]	C403	ECEA1VKA4R7B	4.7 35V [M]
R901	ERDS2TJ102T	1K 1/4W [M]	R1001	ERDS2TJ223T	22K 1/4W [M]	C124	ECBT1H102KB5	1000P 50V [M]	C404	ECBT1E103ZF5	0.01 25V [M]
R906	ERDS2TJ182T	1.8K 1/4W [M]	R1002	ERDS2TJ223T	22K 1/4W [M]	C125	ECBT1H150JC5	15P 50V [M]	C405	ECBT1E103ZF5	0.01 25V [M]
R907	ERDS2TJ104T	100K 1/4W [M]	R1003	ERDS2TJ102T	1K 1/4W [M]	C126	ECBT1H104ZF5	0.1 50V [M]	C406	ECBT1H101KB5	100P 50V [M]
R908	ERDS2TJ104T	100K 1/4W [M]	R1004	ERDS2TJ102T	1K 1/4W [M]	C127	ECEA1CKA220B	22 16V [M]	C407	ECBT1H101KB5	100P 50V [M]
R909	ERDS2TJ104T	100K 1/4W [M]	R1005	ERDS2TJ203T	20K 1/4W [M]	C128	ECBT1C103NS5	0.01 16V [M]	C408	ECEA1CKA100B	10 16V [M]
R910	ERDS2TJ102T	1K 1/4W [M]	R1007	ERDS2TJ473T	47K 1/4W [M]	C129	ECEA0JKA101B	100 6.3V [M]	C409	ECEA1CKA100B	10 16V [M]
R911	ERDS2TJ104T	100K 1/4W [M]	R1008	ERDS2TJ473T	47K 1/4W [M]	C130	ECEA0JKA101B	100 6.3V [M]	C410	ECEA1CKA100B	10 16V [M]
R917	ERDS2TJ103T	10K 1/4W [M]	R1009	ERDS2TJ332T	3.3K 1/4W [M]	C131	ECBT1C103NS5	0.01 16V [M]	C411	ECBT1H101KB5	100P 50V [M]
R920	ERDS2TJ271T	270 1/4W [M]	R1010	ERDS2TJ332T	3.3K 1/4W [M]	C132	ECBT1H102KB5	1000P 50V [M]	C412	ECBT1H101KB5	100P 50V [M]
R921	ERDS2TJ121T	120 1/4W [M]	R1011	ERDS2TJ332T	3.3K 1/4W [M]	C133	ECBT1H150JC5	15P 50V [M]	C413	ECBT1E103ZF5	0.01 25V [M]
R922	ERDS2TJ472T	4.7K 1/4W [M]	R1012	ERDS2TJ102T	1K 1/4W [M]	C134	ECBT1H180JC5	18P 50V [M]	C414	ECBT1E103ZF5	0.01 25V [M]
R924	ERDS2TJ333T	33K 1/4W [M]	R1016	ERD2FCVJ6R8T	6.8 1/4W [M]	C135	ECBT1C103MS5	0.01 16V [M]	C415	ECBT1H101KB5	100P 50V [M]
R927	ERDS2TJ181T	180 1/4W [M]	R1051	ERDS2TJ393T	39K 1/4W [M]	C136	ECBT1C103MS5	0.01 16V [M]	C416	ECBT1H101KB5	100P 50V [M]
R929	ERDS2TJ101T	100 1/4W [M]	R1052	ERDS2TJ105T	1M 1/4W [M]	C137	ECBT1H561KB5	560P 50V [M]	C417	ECBT1H331KB5	330P 50V [M]
R930	ERDS2TJ101T	100 1/4W [M]	R1053	ERDS2TJ102T	1K 1/4W [M]	C138	ECBT1H561KB5	560P 50V [M]	C418	ECBT1H331KB5	330P 50V [M]
R936	ERDS2TJ104T	100K 1/4W [M]	R1055	ERDS2TJ473T	47K 1/4W [M]	C139	ECQB1H682JF3	6800P 50V [M]	C419	ECBT1H331KB5	330P 50V [M]
R937	ERDS2TJ104T	100K 1/4W [M]	R1056	ERDS2TJ473T	47K 1/4W [M]	C140	ECQB1H682JF3	6800P 50V [M]	C420	ECBT1H331KB5	330P 50V [M]
R941	ERDS2TJ472T	4.7K 1/4W [M]	R1061	ERDS2TJ222T	2.2K 1/4W [M]	C141	ECEA1HKA010B	1 50V [M]	C421	ECBT1H331KB5	330P 50V [M]
R943	ERDS2TJ102T	1K 1/4W [M]				C142	ECEA1HKA010B	1 50V [M]	C422	ECBT1H331KB5	330P 50V [M]
R944	ERDS2TJ104T	100K 1/4W [M]				C143	ECEA1HKA010B	1 50V [M]	C423	ECBT1H331KB5	330P 50V [M]
R945	ERDS2TJ104T	100K 1/4W [M]				C144	ECEA1HKA010B	1 50V [M]	C424	ECBT1H101KB5	100P 50V [M]
R946	ERDS2TJ103T	10K 1/4W [M]				C145	ECBT1H223JC5	22P 50V [M]	C425	ECBT1H101KB5	100P 50V [M]
R947	ERDS2TJ103T	10K 1/4W [M]				C146	ECBT1H331KB5	330P 50V [M]	C426	ECBT1H101KB5	100P 50V [M]
R948	ERDS2TJ103T	10K 1/4W [M]				C147	ECBT1H102KB5	1000P 50V [M]	C427	ECBT1H221KB5	220P 50V [M]
									C428	ECBT1H221KB5	220P 50V [M]
									C431	ECEA1CKA100B	10 16V [M]
									C432	ECEA1CKA100B	10 16V [M]

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
C440	ECBT1E103ZF5	0.01 25V [M]	C551	ECEA1HKA3R3B	3.3 50V [M]	C638	ECBT1H101KB5	100P 50V [M]	C912	ECEA1HKA220B	22 50V [M]
C451	ECEA1VKA4R7B	4.7 35V [M]	C552	ECEA1HKA3R3B	3.3 50V [M]	C639	ECBT1H102KB5	1000P 50V [M]	C913	ECEA1VKA100B	10 35V [M]
C452	ECEA1VKA4R7B	4.7 35V [M]	C553	ECBT1H101KB5	100P 50V [M]	C640	ECKR1H223ZF5	0.022 50V [M]	C914	ECEA1VKA100B	10 35V [M]
C453	ECBT1H100JC5	10P 50V [M]	C554	ECBT1H101KB5	100P 50V [M]	C641	ECQV1H104JM3	0.1 50V [M]	C916	ECEA1HKA010B	1 50V [M]
C454	ECBT1H100JC5	10P 50V [M]	C555	ECBT1H221KB5	220P 50V [M]	C642	ECQV1H104JM3	0.1 50V [M]	C917	ECEA1HKA47B	0.47 50V [M]
C455	ECBT1H102KB5	1000P 50V [M]	C556	ECBT1H221KB5	220P 50V [M]	C643	ECQV1H104JM3	0.1 50V [M]	C918	ECEA0JKA221B	220 6.3V [M]
C456	ECBT1H102KB5	1000P 50V [M]	C557	ECBT1E103ZF5	0.01 25V [M]	C644	ECQV1H104JM3	0.1 50V [M]	C920	ECEA1HKA010B	1 50V [M]
C457	ECA1CM330B	33 16V [M]	C558	ECBT1E103ZF5	0.01 25V [M]	C683	ECBT1C332KR5	3300P 16V [M]	C932	ECBT1H101KB5	100P 50V [M]
C458	ECA1CM330B	33 16V [M]	C559	ECEA1CKA100B	10 16V [M]	C684	ECBT1C332KR5	3300P 16V [M]	C939	ECBT1H101KB5	100P 50V [M]
C459	ECFR1E223KR	0.022 25V [M]	C560	ECEA1CKA100B	10 16V [M]	C685	ECBT1E103ZF5	0.01 25V [M]	C941	ECBT1E103ZF5	0.01 25V [M]
C460	ECFR1E223KR	0.022 25V [M]	C561	ECA1HM3R3B	3.3 50V [M]	C701	ECBT1E103ZF5	0.01 25V [M]	C952	ECBT1H101KB5	100P 50V [M]
C461	ECBT1C682KR5	6800P 16V [M]	C562	ECA1HM3R3B	3.3 50V [M]	C702	ECQE2104KF3	0.1 250V [M]	C953	ECBT1H101KB5	100P 50V [M]
C462	ECBT1C682KR5	6800P 16V [M]	C563	ECBT1H104ZF5	0.1 50V [M]	C703	EC0S1HP682B3	6800P 50V [M]	C956	ECBT1H101KB5	100P 50V [M]
C463	ECEA1VKA4R7B	4.7 35V [M]	C601	ECA1CM330B	33 16V [M]	C704	EC0S1HP682B3	6800P 50V [M]	C961	ECBT1H101KB5	100P 50V [M]
C464	ECEA1VKA4R7B	4.7 35V [M]	C602	ECA1CM330B	33 16V [M]	C705	EC0S1VP562B3	5600P 35V [M]	C1001	ECEA1HU010B	1 50V [M]
C465	ECBT1E103ZF5	0.01 25V [M]	C603	ECEA1VKA4R7B	4.7 35V [M]	C706	EC0S1VP562B3	5600P 35V [M]	C1002	ECEA1HU010B	1 50V [M]
C466	ECBT1E103ZF5	0.01 25V [M]	C604	ECEA1VKA4R7B	4.7 35V [M]	C707	ECA1VM101B	100 35V [M]	C1003	ECA1HM3R3B	3.3 50V [M]
C469	ECBT1H181KB5	180P 50V [M]	C605	ECA1JM330B	33 6.3V [M]	C708	ECKR1H103ZF5	0.01 50V [M]	C1004	ECA1HM3R3B	3.3 50V [M]
C470	ECBT1H181KB5	180P 50V [M]	C606	ECA1JM330B	33 6.3V [M]	C709	ECA1CM330B	33 16V [M]	C1005	ECEA1HU010B	1 50V [M]
C503	ECEA0JKA101B	100 6.3V [M]	C607	ECA1JM330B	33 6.3V [M]	C710	ECBT1E103ZF5	0.01 25V [M]	C1007	ECFR1E223KR	0.022 25V [M]
C504	ECEA0JKA101B	100 6.3V [M]	C608	ECA1JM330B	33 6.3V [M]	C711	ECKR1H103ZF5	0.01 50V [M]	C1008	ECFR1E473KR	0.047 25V [M]
C505	ECFR1C104MR	0.1 16V [M]	C609	ECCR1H120KC5	12P 50V [M]	C712	ECA1HM100B	10 50V [M]	C1009	ECEA0JU221B	220 6.3V [M]
C506	ECFR1C104MR	0.1 16V [M]	C610	ECCR1H120KC5	12P 50V [M]	C713	ECKR1H103ZF5	0.01 50V [M]	C1010	ECEA1CKA100B	10 16V [M]
C511	ECEA1HKA3R3B	3.3 50V [M]	C611	ECCR1H120KC5	12P 50V [M]	C714	ECA1EM470B	47 25V [M]	C1011	ECEA1CKA100B	10 16V [M]
C512	ECEA1HKA3R3B	3.3 50V [M]	C612	ECCR1H120KC5	12P 50V [M]	C715	ECEA1CU101B	100 16V [M]	C1012	ECEA1CKA100B	10 16V [M]
C513	ECBT1H150J5	15P 50V [M]	C613	ECBT1H821KB5	820P 50V [M]	C721	ECQE2104KF3	0.1 250V [M]	C1013	ECEA1CKA100B	10 16V [M]
C514	ECBT1H150J5	15P 50V [M]	C614	ECBT1H821KB5	820P 50V [M]	C731	ECKR1H103ZF5	0.01 50V [M]	C1014	ECEA0JU221B	220 6.3V [M]
C515	ECBT1H221KB5	220P 50V [M]	C615	ECBT1H821KB5	820P 50V [M]	C732	ECKR1H103ZF5	0.01 50V [M]	C1015	ECQV1H104JM3	0.1 50V [M]
C516	ECBT1H221KB5	220P 50V [M]	C616	ECBT1H821KB5	820P 50V [M]	C751	ECKWRS102MBC	1000P 400V [M]	C1016	ECQV1H104JM3	0.1 50V [M]
C517	ECBT1H330J5	33P 50V [M]	C617	ECQV1H473JZ3	0.047 50V [M]	C752	ECKR1H103ZF5	0.01 50V [M]	C1017	ECA1HMR47B	0.47 50V [M]
C518	ECBT1H330J5	33P 50V [M]	C618	ECQV1H473JZ3	0.047 50V [M]	C753	ECA1EM102EV	1000 25V [M]	C1018	ECEA1VKA4R7B	4.7 35V [M]
C519	ECEA1VKA4R7B	4.7 35V [M]	C619	ECQV1H473JZ3	0.047 50V [M]	C754	ECBT1E103ZF5	0.01 25V [M]	C1019	ECA1HMR47B	0.47 50V [M]
C520	ECEA1VKA4R7B	4.7 35V [M]	C620	ECQV1H473JZ3	0.047 50V [M]	C755	ECA1CM470B	47 16V [M]	C1020	ECEA1VKA4R7B	4.7 35V [M]
C521	ECEA1VKA4R7B	4.7 35V [M]	C621	ECEA2AU100B	10 100V [M]	C757	ECA1CM100B	10 16V [M]	C1021	ECEA1HKA15B	0.15 50V [M]
C522	ECEA1VKA4R7B	4.7 35V [M]	C622	ECEA1HN010SB	1 50V [M]	C771	ECEA1VKA4R7B	4.7 35V [M]	C1022	ECA1HM3R3B	3.3 50V [M]
C523	ECFR1E123KR	0.012 25V [M]	C623	ECA1HM470B	47 50V [M]	C772	ECEA1VKA4R7B	4.7 35V [M]	C1023	ECQV1H154JZ3	0.15 50V [M]
C524	ECFR1E123KR	0.012 25V [M]	C624	ECEA2AN2R23B	2.2 100V [M]	C773	ECBT1E223ZF5	0.022 25V [M]	C1024	ECQV1H154JZ3	0.15 50V [M]
C525	ECQV1H683JM3	0.068 50V [M]	C625	ECEA1HN100SB	10 50V [M]	C774	ECEA0JKA101B	100 6.3V [M]	C1025	ECA1HM3R3B	3.3 50V [M]
C526	ECQV1H683JM3	0.068 50V [M]	C626	ECEA1HN100SB	10 50V [M]	C775	ECBT1E223ZF5	0.022 25V [M]	C1026	ECEA1HKA15B	0.15 50V [M]
C527	ECBT1C562KR5	5600P 16V [M]	C627	ECKR1H223ZF5	0.022 50V [M]	C901	ECA0JM102B	1000 6.3V [M]	C1027	ECEA1VKA4R7B	4.7 35V [M]
C528	ECBT1C562KR5	5600P 16V [M]	C628	ECKR1H223ZF5	0.022 50V [M]	C902	ECBT1E223ZF5	0.022 25V [M]	C1028	ECA1HMR47B	0.47 50V [M]
C529	ECQB1H273JF3	0.027 50V [M]	C629	ECKR1H223ZF5	0.022 50V [M]	C903	ECBT1E103ZF5	0.01 25V [M]	C1029	ECEA1VKA4R7B	4.7 35V [M]
C530	ECQB1H273JF3	0.027 50V [M]	C630	ECKR1H223ZF5	0.022 50V [M]	C904	ECA0JM102B	1000 6.3V [M]	C1030	ECA1HMR47B	0.47 50V [M]
C531	ECBT1E103ZF5	0.01 25V [M]	C631	ECKR1H223ZF5	0.022 50V [M]	C906	ECEA0JKA101B	100 6.3V [M]	C1031	ECQV1H104JM3	0.1 50V [M]
C532	ECBT1E103ZF5	0.01 25V [M]	C632	ECKR1H223ZF5	0.022 50V [M]	C908	ECBT1E103ZF5	0.01 25V [M]	C1032	ECQV1H104JM3	0.1 50V [M]
C533	ECEA1CKA220B	22 16V [M]	C635	ECEA1VKA4R7B	4.7 35V [M]	C909	ECEA1HKA220B	22 50V [M]	C1033	ECA1EM470B	47 25V [M]
C534	ECEA1CKA220B	22 16V [M]	C636	ECEA1HN010SB	1 50V [M]	C910	ECEA1HKA220B	22 50V [M]	C1034	ECQV1H474JM3	0.47 50V [M]
C536	ECBT1E103ZF5	0.01 25V [M]	C637	ECBT1H102KB5	1000P 50V [M]	C911	ECEA1HKA220B	22 50V [M]	C1035	ECBT1H681KB5	680P 50V [M]

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
C1036	ECBT1H101KB5	100P 50V [M]	C1054	ECEA0JU221B	220 6.3V [M]	C1065	ECBT1H681KB5	680P 50V [M]			
C1037	ECBT1H101KB5	100P 50V [M]	C1055	ECA1HMR47B	0.47 50V [M]	C1067	ECBT1C152KR5	1500P 16V [M]			
C1038	ECBT1H101KB5	100P 50V [M]	C1056	ECQV1H823JZ3	0.082 50V [M]	C1068	ECBT1C152KR5	1500P 16V [M]			
C1039	ECEA1CU101B	100 16V [M]	C1057	ECBT1C332KR5	3300P 16V [M]						
C1040	ECEA1CKA100B	10 16V [M]	C1058	ECQV1H823JZ3	0.082 50V [M]						
C1041	ECBT1E103ZF5	0.01 25V [M]	C1059	ECEA1CU101B	100 16V [M]						
C1051	ECA1HM2R2B	2.2 50V [M]	C1060	ECBT1E223ZF5	0.022 25V [M]						
C1052	ECA1HMR33B	0.33 50V [M]	C1062	ECBT1E223ZF5	0.022 25V [M]						
C1053	ECA1HM3R3B	3.3 50V [M]	C1063	ECEA1CU101B	100 16V [M]						

■ Packaging (Refer to page 41 for the Parts List.)



ACCESSORY

A1 (EUR644377)	: REMOTE CONTROL UNIT
A2 (RJA0019-2K...E, EG)	: AC CORD
A2 (VJA0733...EB)	: AC CORD
A3 (RFKSEX310EK...E)	: INSTR. MANUAL ASS'Y
A3 (RFKSEX310EBK...EB)	: INSTR. MANUAL ASS'Y
A3 (RFKSEX310EGK...EG)	: INSTR. MANUAL ASS'Y
A4 (RSA0007)	: FM ANTENA
A5 (RSA0010)	: LOOP ANT UNIT
A6 (SJP9009...EB)	: ANT ADAPTER
A7 (SPSD152)	: ACCESSORY BOX

- *P3 (A) - Front Left
- *P3 (B) - Front Right
- *P3 (C) - Rear Left
- *P3 (D) - Rear Right





314

