ORDER NO. MD9707082C2

Service Manual

AV Control Stereo Receiver

DOLBY SURROUND PRO • LOGIC *

Receiver

SA-EX310

Colour

(K) . . . . . Black Type

Area

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

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Technics®

■ Specifications

■ FM Tuner Section

Frequency range	87.50 — 108.00 MHz
Sensitivity	
S/N 30 dB	1.5 μV / 75Ω
S/N 26 dB	1.3 μV / 75Ω
S/N 20 dB	1.2 μV / 75Ω
IHF usable sensitivity	1.5 μV / 75Ω (IHF '58)
IHF 46 dB stereo quieting sensitivity	22 μV / 75Ω
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 ± 400 kHz	65 dB
Capture ratio	1 dB
Image rejection at 98MHz	40 dB
IF rejection at 98MHz	70 dB
Spurious response rejection at 98MHz	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)	±1.5 dB
Limitting point	1.2 μV
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminal(s)	75Ω (unbalanced)

IF rejection (at 999 kHz) 55 dB

■ 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
Sensitivty	20 μV, 330 μV / m
Selectivity (at 999 kHz)	55 dB
Image rejection (at 999 kHz)	40 dB

■ 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 responce	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 :

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

■ 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 ⟨ASTA⟩ 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

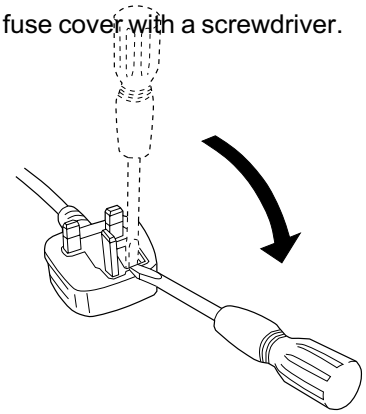
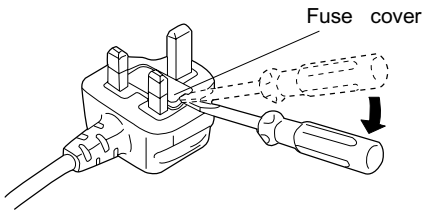


Figure B



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

Figure A

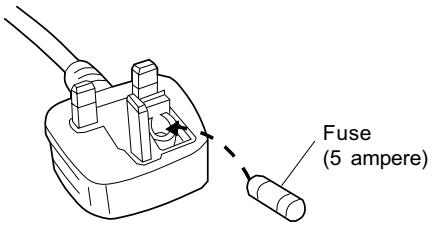
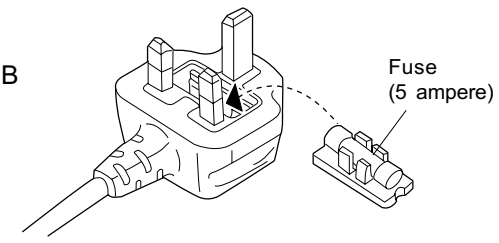


Figure B



■ Operation Checks and Main Component Replacement Procedures

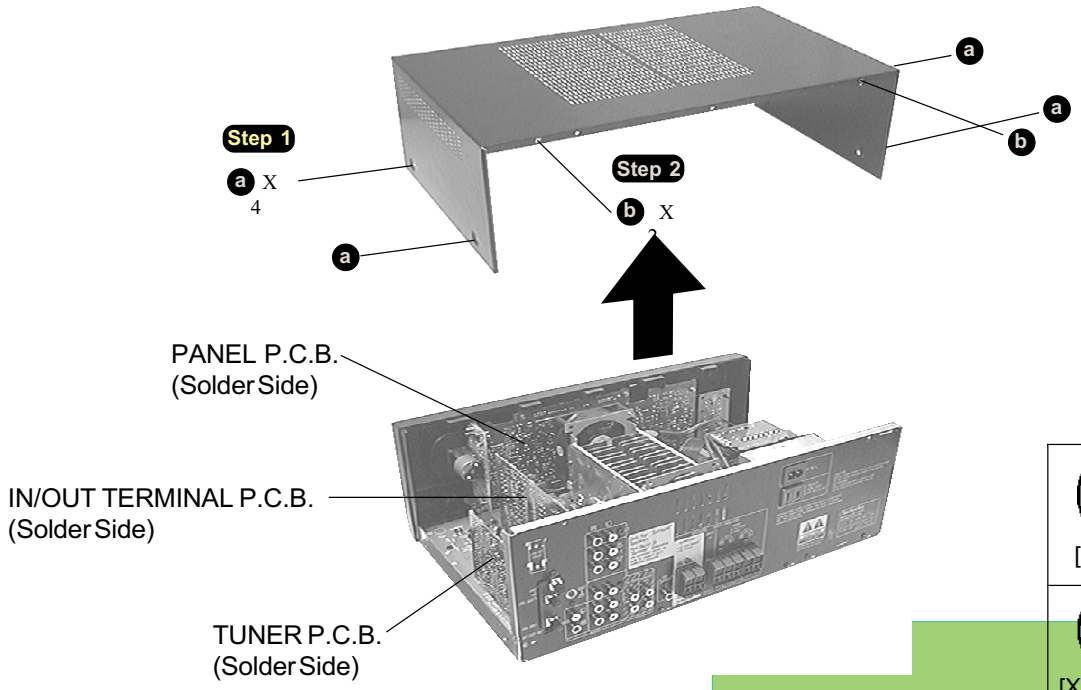
"ATTENTION SERVICER" Some chassis components may have sharp edges. Be careful when disassembling and servicing. Please take note that the diagrams shown are for model SA-EX510 which is similar to SA-EX310.

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.

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



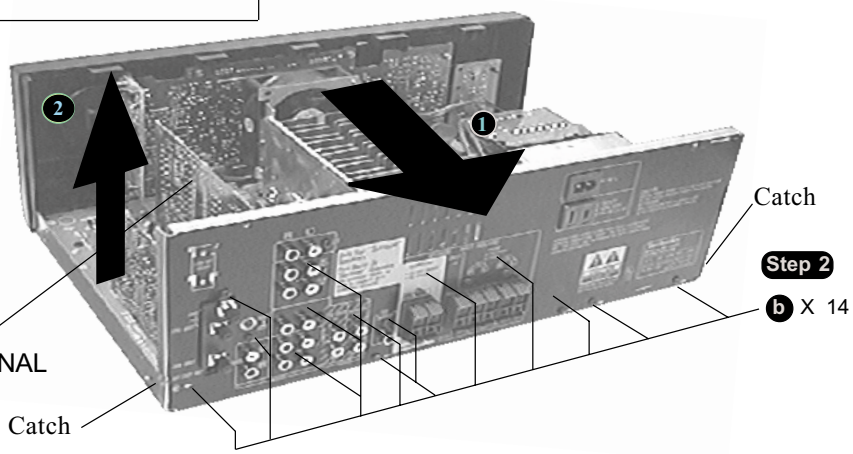

[SNE2129-1] (Black)


[XTBS3+8JFZ1] (Black)

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

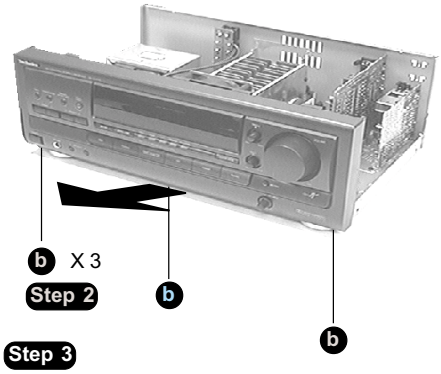
Step 1
Remove the top cabinet.

Step 3
Release the catch, pull the rear panel in the direction of arrow 1 and simultaniously 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.

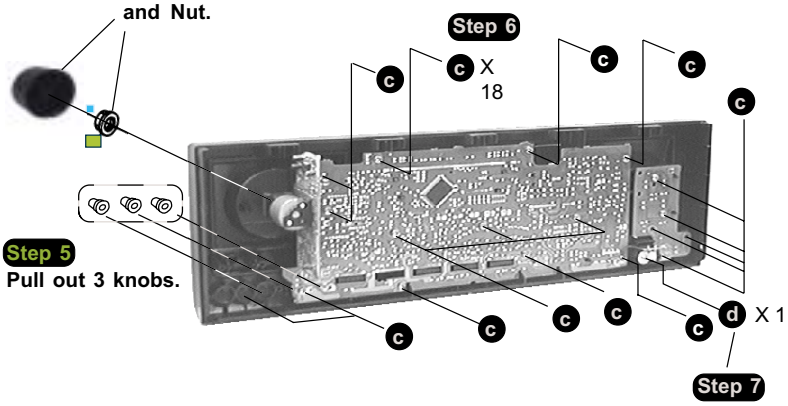
Step 1
Remove the top cabinet.

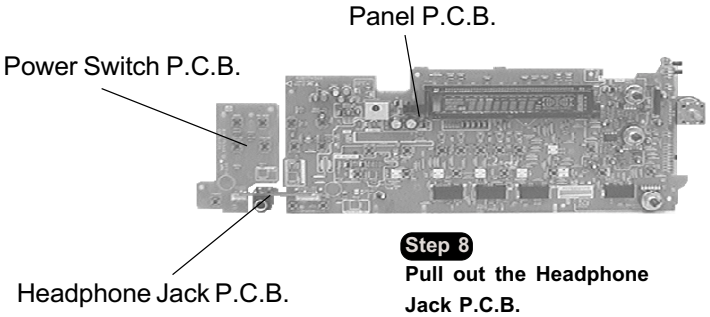


Step 3
Remove the front panel in the direction of arrow.

Step 4
Remove the Volume Knob and Nut.

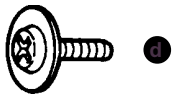
Step 5
Pull out 3 knobs.





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

[XTBS26+10J]

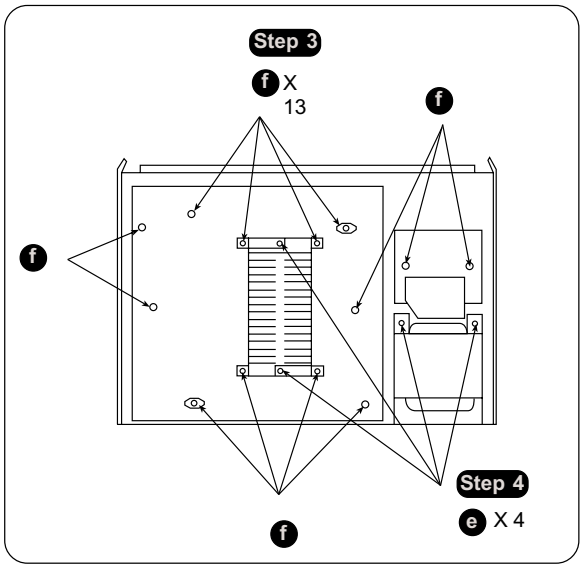


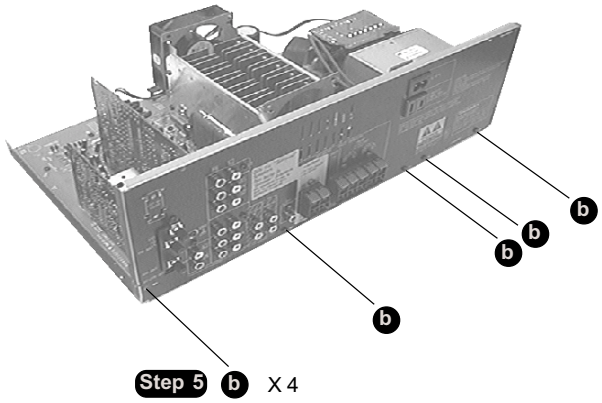
[RHD26016]

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

Step 1
Remove the top cabinet.

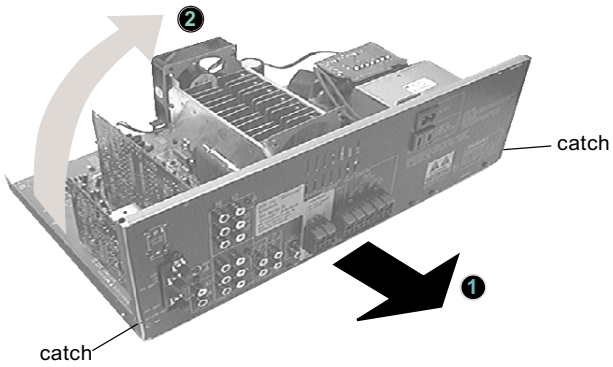
Step 2
Remove the front panel.



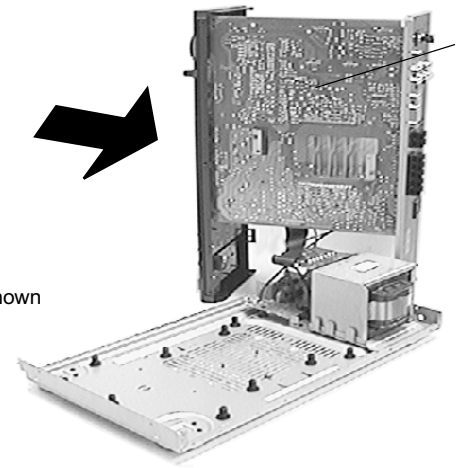


Step 6
Release 2 catches and pull the rear panel in the direction of arrow ❶ for about 10mm.
(Note : Main, Tuner and In/Out Terminal P.C.B. are attach to the rear panel)

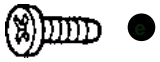
Step 7
Lift the rear panel in the direction of arrow ❷.

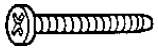


Step 6
Connect the front panel to the main P.C.B. as shown.



• Check the Main P.C.B. as shown
•


[XTB3+8FFZ] (Black)

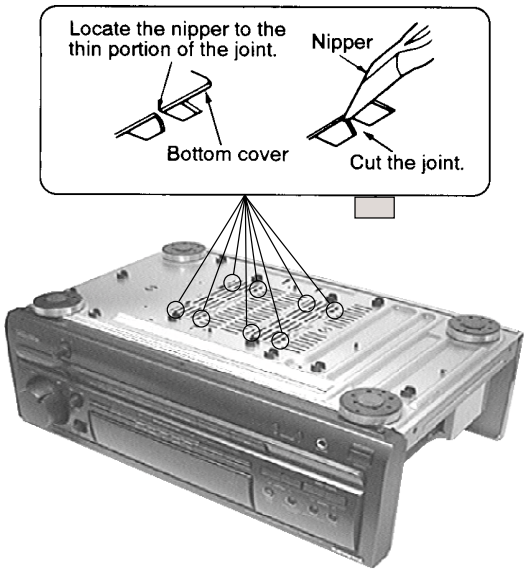

[XTB3+20JFZ] (Black)

■ Main Component Replacement Procedures

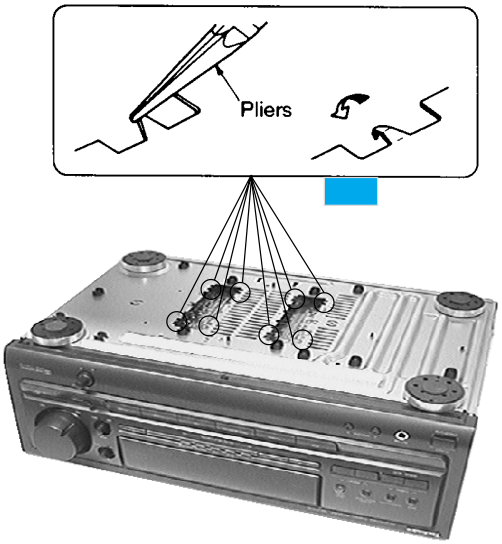
1. Replacement of the Power IC and Regulator Transistor

Step 1
Remove the top cabinet.

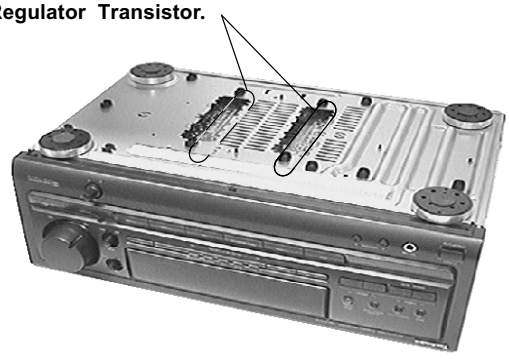
Step 2 **Cut the joints as shown below. (6 joints)**

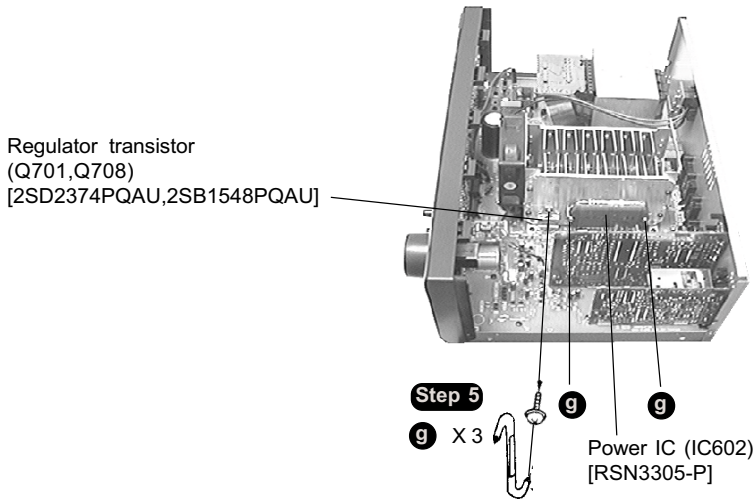


Step 3 **Fold the joints. (6 joints)**



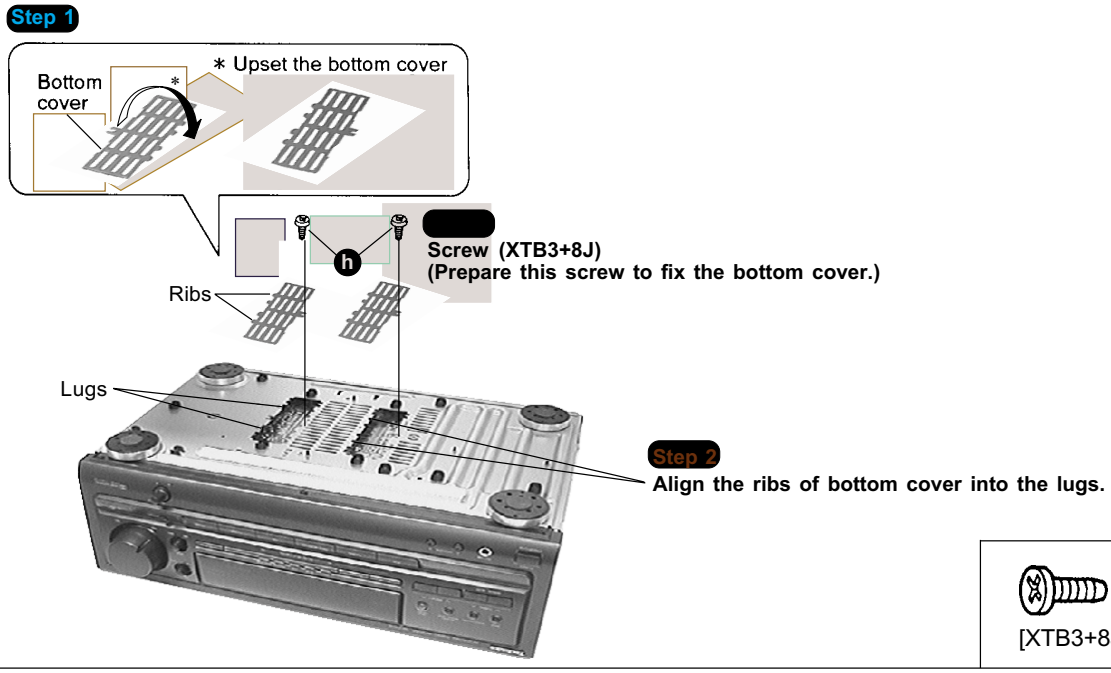
Step 4
Desolder the terminals of Power IC and Regulator Transistor.





[XTW3+15T]

Installation of the bottom cover after replacement

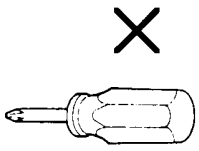


[XTB3+8J] (Black)

CAUTION

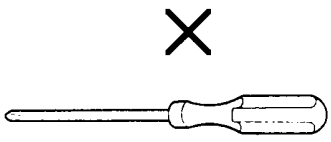
1. After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002/SZZ0L15) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws (g) after replacing the power IC and regulator transistor. Otherwise, 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.

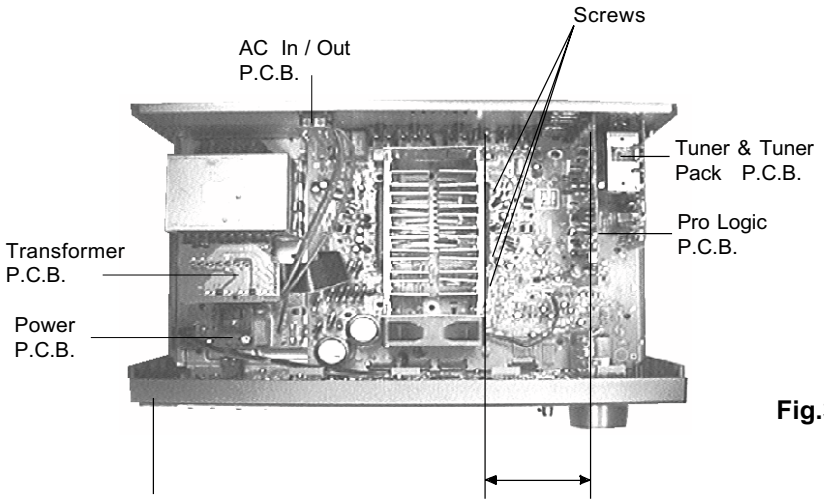
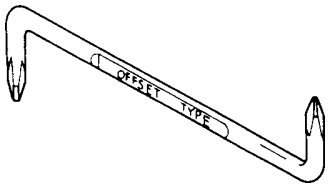


Fig.3

——OFFSET SCREWDRIVER——

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



No.	⊕	⟵ L ⟶
34¼	1 & 2	4¾″

•The address of PROTO International Sales is as follows.

PROTO®

International Sales

International Sales Office
Stanley-Proto Industrial Tools
14117 Industrial Park Blvd.
Covington, GA 30209 U.S.A.
Fax: 706-786-4387
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Cory House The Rlng
Bracknell Berkshire
RG 12 1A2
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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

"OVER LOAD" is displayed on the FL display.

Is the air cooling path blocked or the fan motorjammed by any external obstacle ?

YES → Remove the obstacle.

NO

Remove the fan from the unit.

Is the fan motor's DC resistance 20 ~ 30Ω ?

NO → Fan motor failure
Short circuit : DC resistance below 5Ω
Open circuit : DC resistance over 1kΩ

YES

Reinstall the fan on the unit.

Are the terminal voltage of Q772 and Q773 normal in both and inactive states of the fan motor ? (see table1.)

NO → Check the integrity of Q772, Q773 and the fan motor driving circuit. (see Fig.1)

YES

(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)

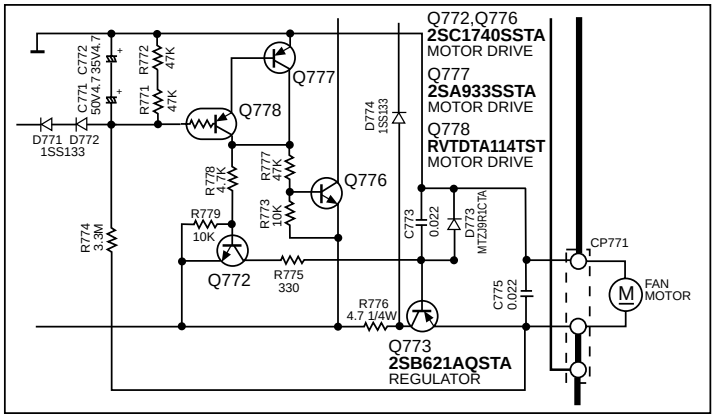


Fig.1

Is an audio signal present at pins ⑦ and ⑪ of IC601

NO → The power IC (IC601) is defective.

YES

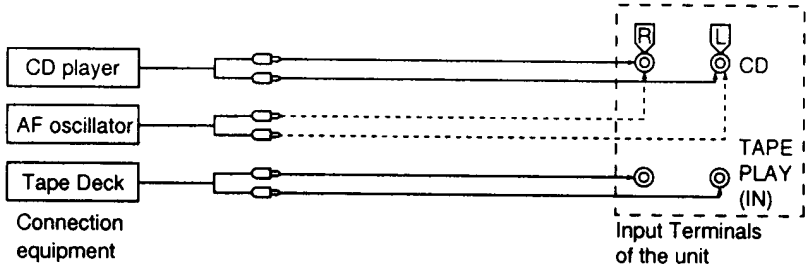
The fan motor, power ICs and fan driver are functioning normally.

■ 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 progarm, 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.

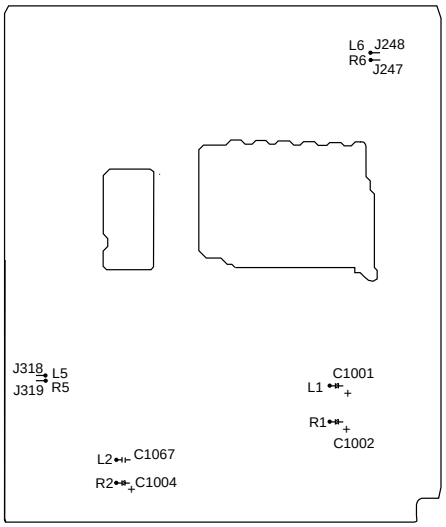
TEST PROCEDURE FOR AMPLIFIER CIRCUIT

When the CD player AF oscillator is connected:	When the tape deck is connected:
Power on the unit. Set the input selector button of the unit to the "CD" postion. Set the Speaker select buttons of the unit to the SPEAKERS " ON" position.	Power on the unit. Set the input selector button of the unit to the "TAPE MONITOR" postion. Set the Speaker ON/OFF button of the unit to the SPEAKERS "ON" position.
Run the CD player (SZZP1054C / first program 1kHz, 0dB) or Run the AF oscillator (Oscillator output at 500Hz, 200mV)	Run the tape deck (QZZCLA 315Hz, 0dB)
Using the Oscilloscope, check the output waveforms at the test points on the circuit boards of the unit in the following order: (L1,R1) → (L2,R2) → (L3,R3) → (L5,R5) → (L6,R6). Refer to page 10.	

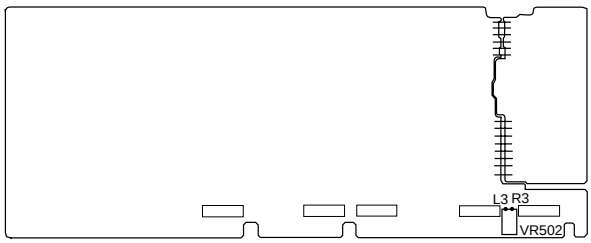
Note: Connect the '+' probe of the oscilloscope to each test point and the '–' probe to chassis ground.

TEST POINTS POSITIONS OF AMPLIFIER CIRCUIT

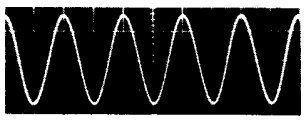
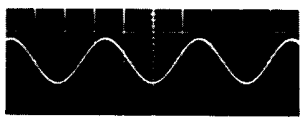
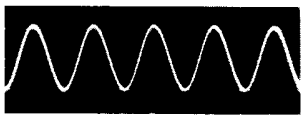
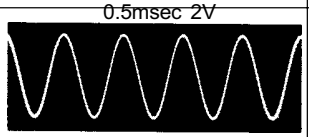
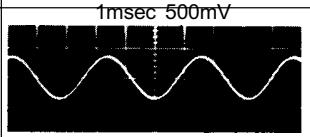
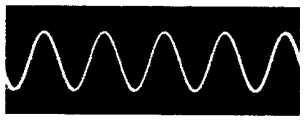
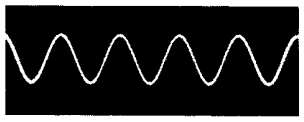
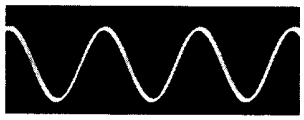
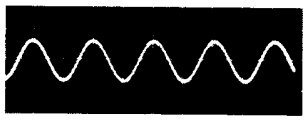
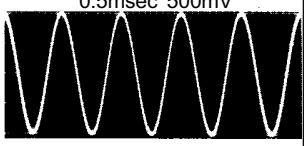
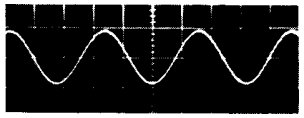
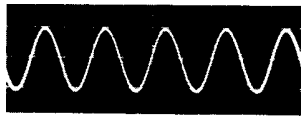
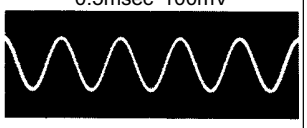
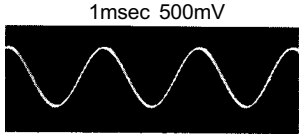
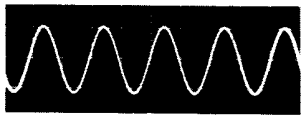
MAIN P.C.B. (component side)



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 area				Input selector block IC402 &
L2/R2	0.5msec 2V 	1msec 500mV 	1msec 500mV 	Dolby pro logic blockIC1001 and IC1002& area
L3/R3	0.5msec 2V 	1msec 500mV 	1msec 500mV 	Master volume block VR501 & area
L5/R5 Q602	0.5msec 500mV 	1msec 50mV 	1msec 100mV 	Power limiter block Q601 to & area
L6/R6	0.5msec 100mV*  0.5msec 5V*	1msec 500mV  1msec 10V	1msec 500mV  1msec 10V	Main amplifier block IC601 & area

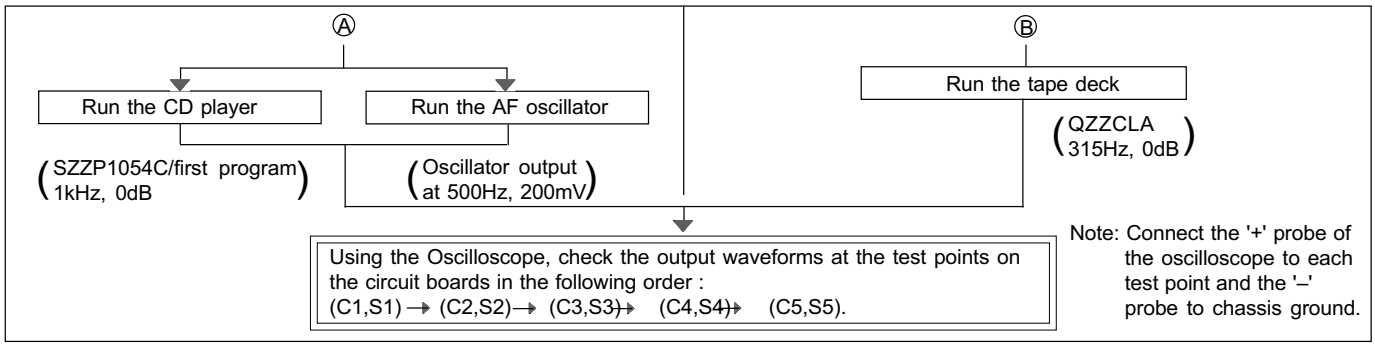
Measurement conditions.
control (VR512) and Bass control (VR511) positions
*Volume control position (VR501) for these test

Volume control (VR501), Treble
:
:

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.

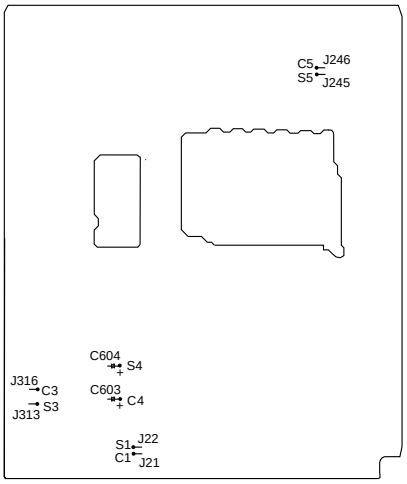
When the CD player or AF oscillator is connected :	When the tape deck is connected :
Power on the unit. Set the input selector button of the unit to the "CD" position. ↓ While pressing both "+" and "-" of the surround level adjustment button "SURROUND, press the "Power" button. ↓ The letter 「SURROUND」 flash on the FL display. ↓ Ⓐ	Power on the unit. Set the input selector button of the unit to the "TAPE MONITOR" position. ↓ While pressing both "+" and "-" of the surround level adjustment button "SURROUND, press the "Power" button. ↓ The letter 「SURROUND」 flash on the FL display. ↓ Ⓑ



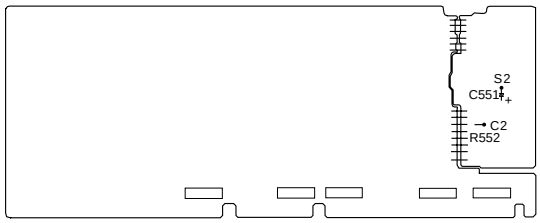
• To exit the service mode, power off the unit.

TEST POINTS POSITIONS OF SOURROUND CIRCUIT

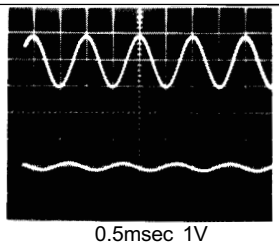
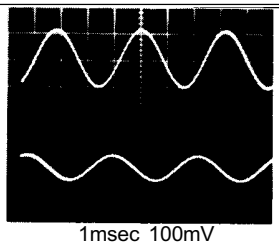
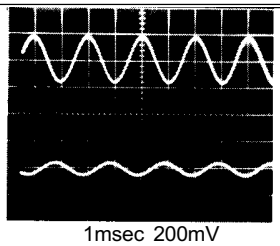
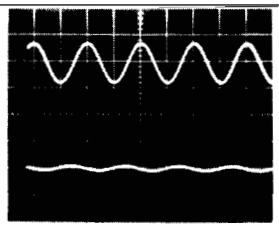
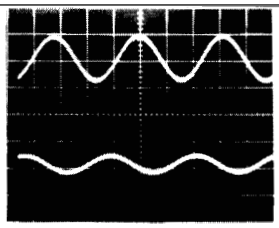
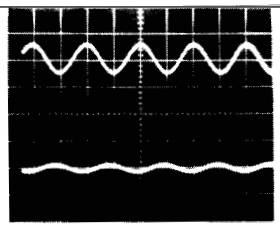
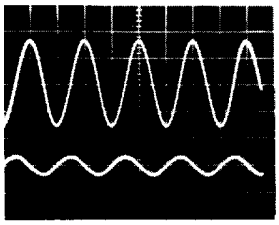
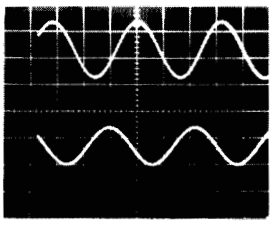
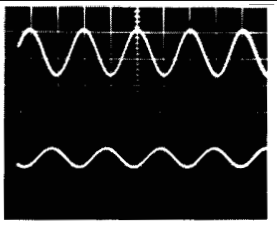
MAIN P.C.B. (component side)



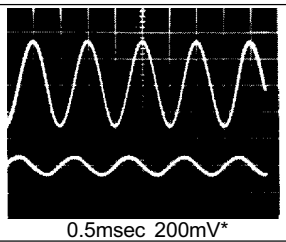
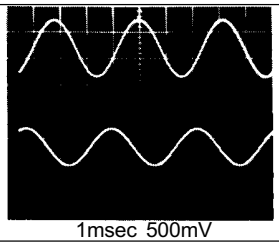
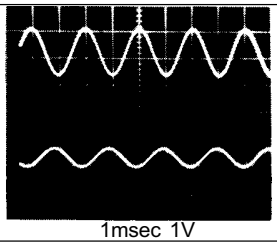
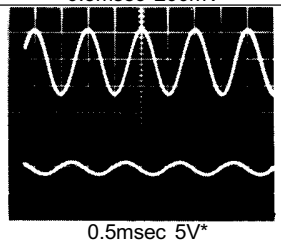
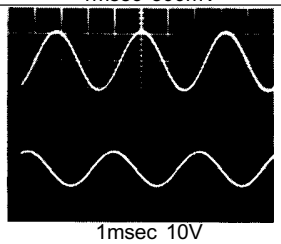
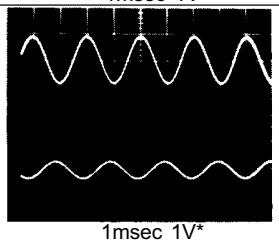
PANEL P.C.B. (component side)



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

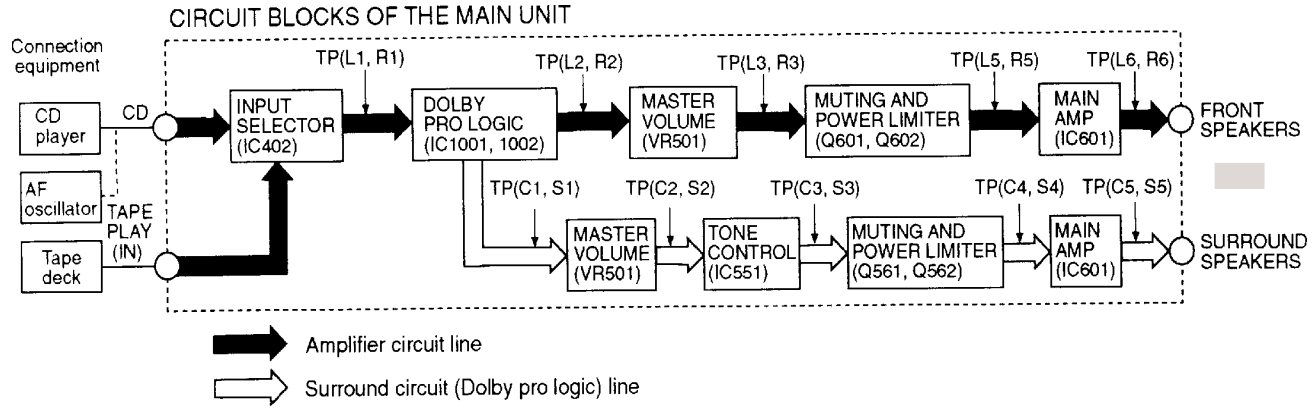
NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

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 area S5	 0.5msec 5V*	 1msec 10V	 1msec 1V*	Main amplifier block IC601 & IC602 & area

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

Volume control (VR501), Tremble
:

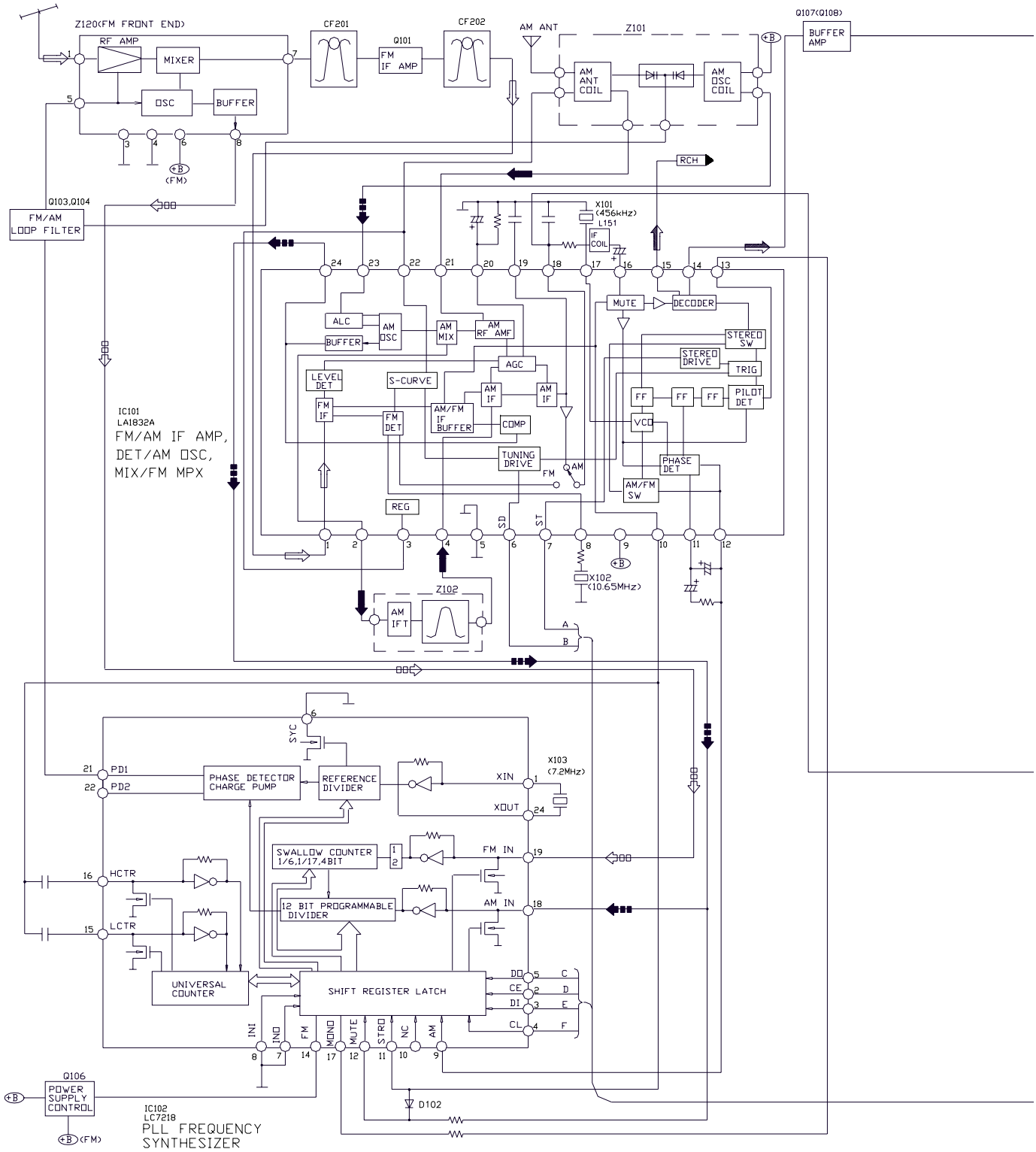
CIRCUIT BLOCKS

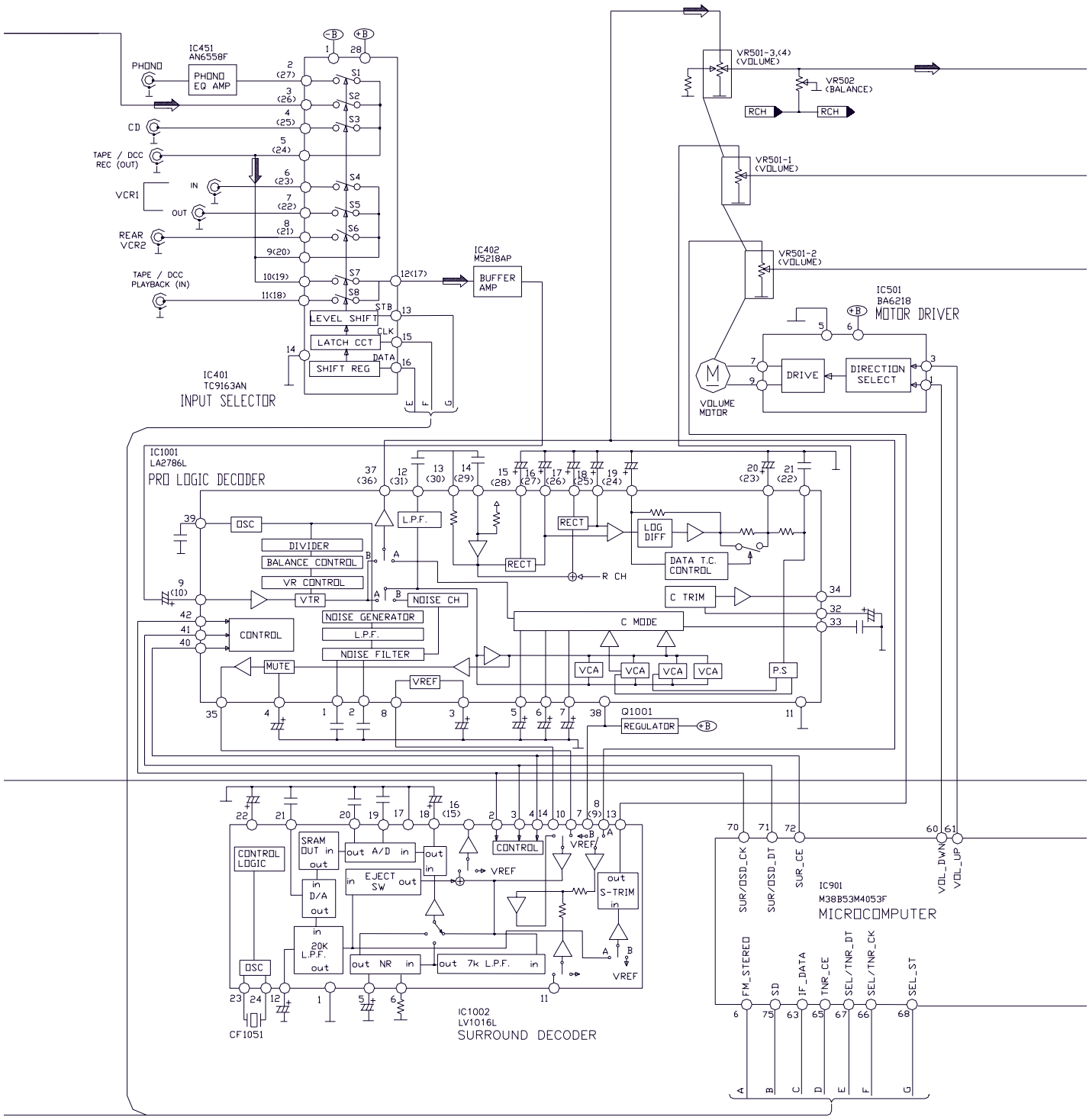


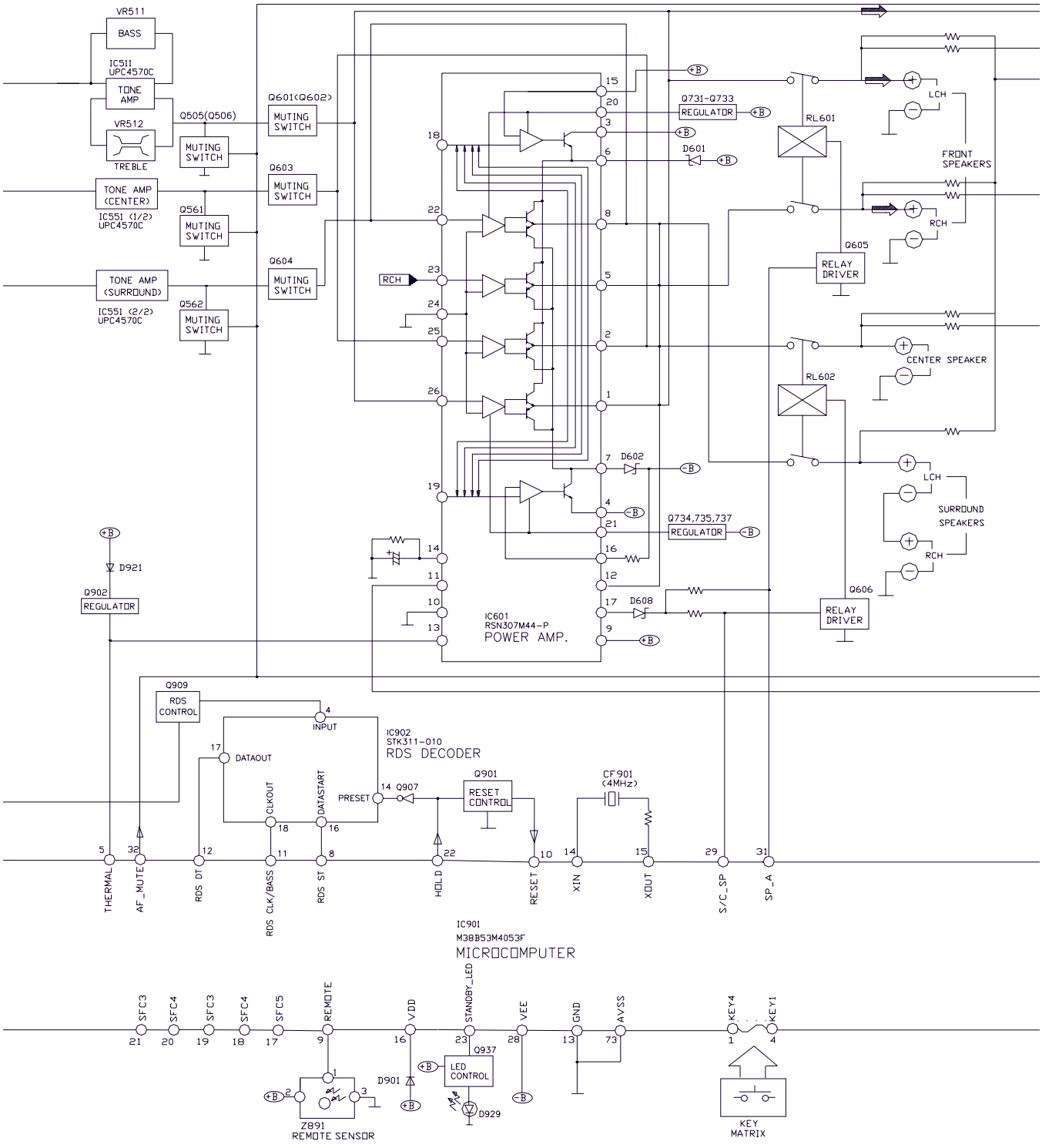
■ OVERLOAD DETECTION FUNCTION

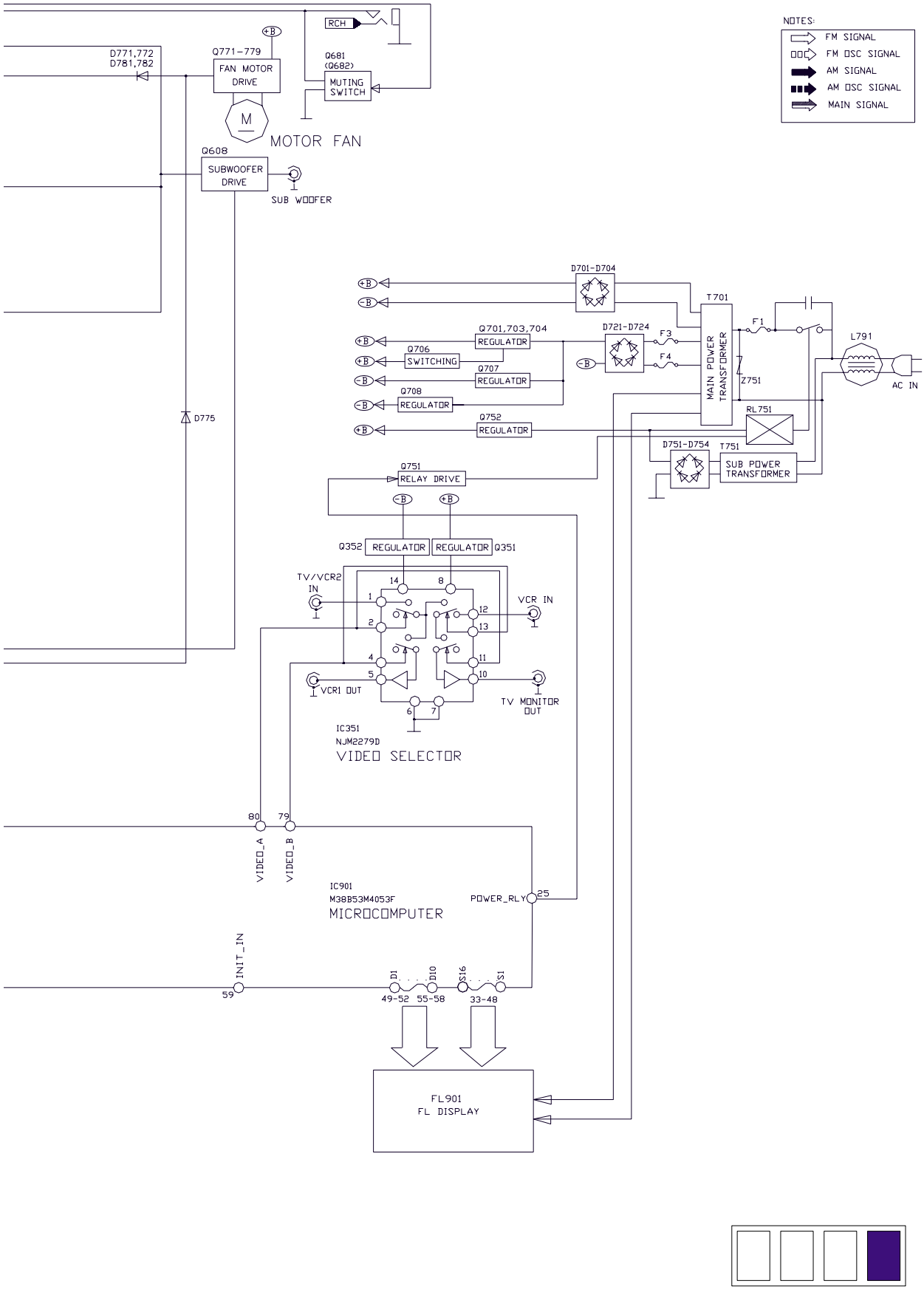
The HIC protection circuit functions if any cord at a speaker terminal is short-circuited or if the unit overheats because of improper operation. At the same time,「OVERLOAD」scrolls across the FL display.
In this state, all keys remain in operative; if any key is pressed,「SWITCH OFF POWER 」scrolls across 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




IC451
AN6558F
PHONO
PHONO EQ AMP
CD
TAPE / DCC REC (OUT)
VCR1
IN
OUT
REAR VCR2
TAPE / DCC PLAYBACK (IN)
S1
S2
S3
S4
S5
S6
S7
S8
IC402
M5218AP
BUFFER AMP
STB
LEVEL SHIFT
CLK
LATCH CCT
DATA
SHIFT REG
IC401
TC9163AN
INPUT SELECTOR
VR501-3,(4)
(VOLUME)
VR502
(BALANCE)
RCH
VR501-1
(VOLUME)
VR501-2
(VOLUME)
IC501
BA6218
MOTOR DRIVER
DRIVE
DIRECTION SELECT
VOLUME MOTOR
IC1001
LA2786L
PRO LOGIC DECODER
OSC
DIVIDER
BALANCE CONTROL
VR CONTROL
VTR
CONTROL
MUTE
L.P.F.
RECT
LOG DIFF
DATA T.C. CONTROL
R CH
NOISE CH
NOISE GENERATOR
NOISE FILTER
VREF
C MODE
C TRIM
VCA
P.S
Q1001
REGULATOR
IC1002
LV1016L
SURROUND DECODER
CONTROL LOGIC
SRAM
OUT A/D
EJECT SW
D/A
20K L.P.F.
NR
7k L.P.F.
S-TRIM
CF1051
IC901
M38B53M4053F
MICROCOMPUTER
SUR/DSD_CK
SUR/DSD_DT
SUR_CE
VOL_DWN
VOL_UP
FM_STEREO
SD
IF_DATA
TNR_CE
SEL/TNR_DT
SEL/TNR_CK
SEL_ST


VR511
BASS
IC511
UPC4570C
TONE AMP
VR512
TREBLE
Q505(Q506)
MUTING SWITCH
Q601(Q602)
Q603
Q561
TONE AMP (CENTER)
IC551 (1/2) UPC4570C
Q604
Q562
TONE AMP (SURROUND)
IC551 (2/2) UPC4570C
RCH
Q731-Q733 REGULATOR
D601
RL601
LCH
FRONT SPEAKERS
Q605
RELAY DRIVER
CENTER SPEAKER
RL602
D602
Q734,735,737 REGULATOR
SURROUND SPEAKERS
Q606
D608
IC601
RSN307M44-P
POWER AMP.
D921
Q902 REGULATOR
Q909 RDS CONTROL
INPUT
IC902
STK311-010
RDS DECODER
DATAOUT
CLKOUT
DATASTART
PRESET
Q907
Q901 RESET CONTROL
CF901 (4MHz)
THERMAL
AF_MUTE
RDS DT
RDS CLK/BASS
RDS ST
HOLD
RESET
XIN
XOUT
S/C_SP
SP_A
IC901
M38B53M4053F
MICROCOMPUTER
SFC3
SFC4
SFC3
SFC4
SFC5
REMOTE
VDD
STANDBY_LED
VEE
GND
AVSS
KEY4
KEY1
Q937 LED CONTROL
D901
D929
Z891 REMOTE SENSOR
KEY MATRIX


NOTES:
FM SIGNAL
FM OSC SIGNAL
AM SIGNAL
AM OSC SIGNAL
MAIN SIGNAL
RCH
+B
D771,772
D781,782
Q771-779
FAN MOTOR DRIVE
Q681
(Q682)
MUTING SWITCH
M
MOTOR FAN
Q608
SUBWOOFER DRIVE
SUB WOOFER
D775
D701-D704
T701
Q701,703,704
REGULATOR
Q706
SWITCHING
Q707
REGULATOR
Q708
REGULATOR
Q752
REGULATOR
D721-D724
F3
F4
MAIN POWER TRANSFORMER
F1
Z751
L791
AC IN
RL751
D751-D754
T751
SUB POWER TRANSFORMER
Q751
RELAY DRIVE
-B
Q352
REGULATOR
REGULATOR
Q351
TV/VCR2 IN
VCR IN
VCR1 OUT
TV MONITOR OUT
IC351
NJM2279D
VIDEO SELECTOR
80
79
VIDEO_A
VIDEO_B
IC901
M38B53M4053F
MICROCOMPUTER
POWER_RLY
25
INIT_IN
59
D1
D10
S16
S1
49-52
55-58
33-48
FL901
FL DISPLAY

■ Terminal Functions Of ICs

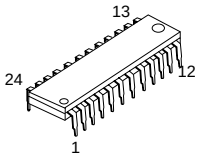
• IC901 (M38B53M4053F) System Microprocessor

Pin No.	Mark	I/O	Function
1~4	KEY4~KEY1	I	Key matrix detect terminal
5	THERMOVLD	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 limitter 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

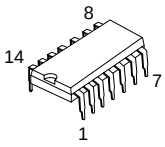
Pin No.	Mark	I/O	Function
33~48	SEG16~SEG1	O	FL segment signal output
49~58	DEG1~DEG10	O	FL digit signal output
59	INIT_IN	I	Diode input
60	VOL_DOWN	O	Rotate control terminal of volume motor
61	VOL_UP	O	
62	LOUDNESS	–	Not used
63	IF_DATA	I	Serial data signal
64	REC_MUTE	–	Not used
65	TNR_CE	O	Chip enable 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 conveter
74	VREF	I	Reference voltage for A-D convertion
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 controloutput B
80	VIDEO_A	O	Video selector controloutput A

■ Terminal Guide of ICs, Transistors and Diodes

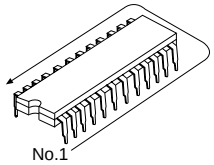
LA1832A
LC7218



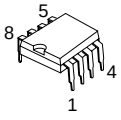
NJM2279D



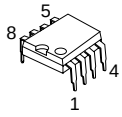
TC9163AN 28Pin



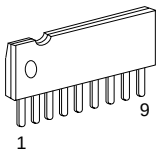
M5218P



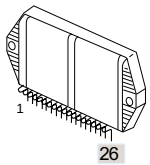
AN6558F
UPC4570C



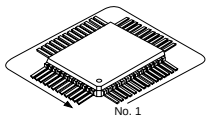
BA6218



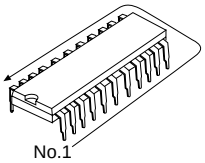
RSN307M44-P



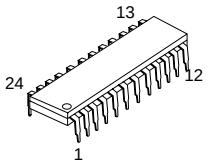
M38B53M4053F
80 Pin



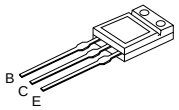
LA2786L 42Pin



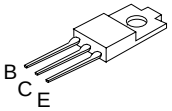
LV1016L



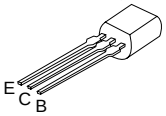
2SD2137PQTA
2SB1417PQTA



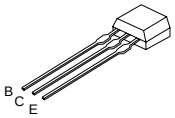
2SB1548PQAU
2SD2374PQAU



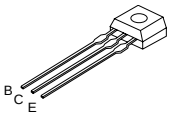
2SD592AQSTA
2SA992EFTA
2SB621AQSTA
2SC3940AQSTA



2SA933SSTA
2SC1740SSTA

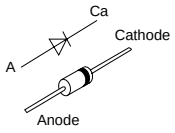
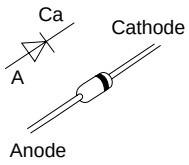
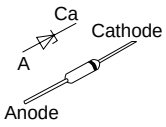
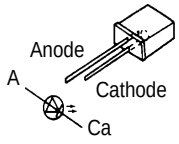


RVTDTA113ZST
RVTDTA114EST
RVTDTC143XST
RVTDTA143XST
RVTDTC114YST
RVTDTA114YST
RVTDTA114EST



2SC2787LTA
2SC2785FETA
2SC3311ARTA
2SD1915FTA

STK311-010

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

- **Signal line**

: +B line
: Main signal line
: –B line
: AM signal line
: AM OSC signal line
: FM/AM signal line
: FM signal line
: FM OSC 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 orthe measuring unit.

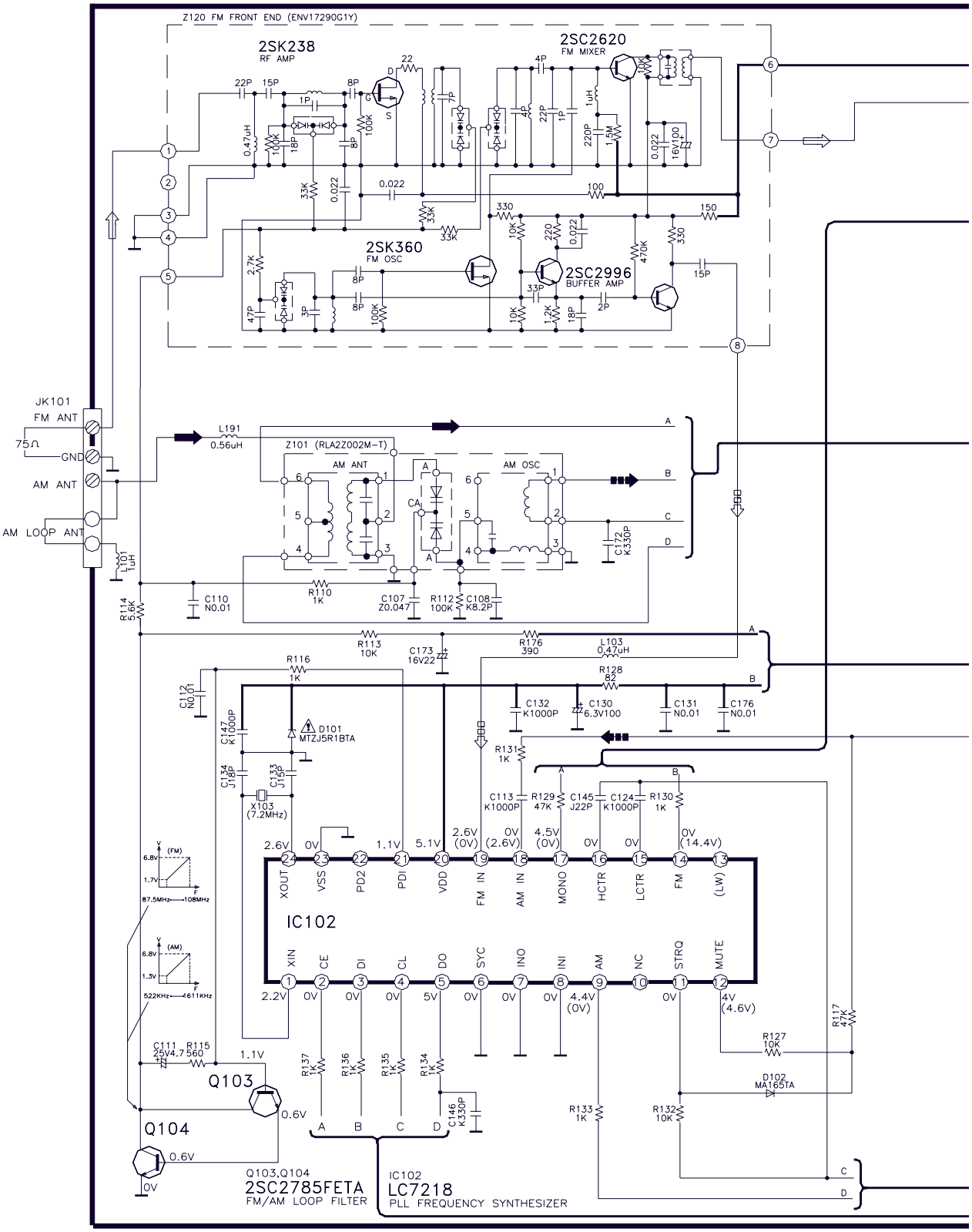
( ) ..... AM < > ..... FM

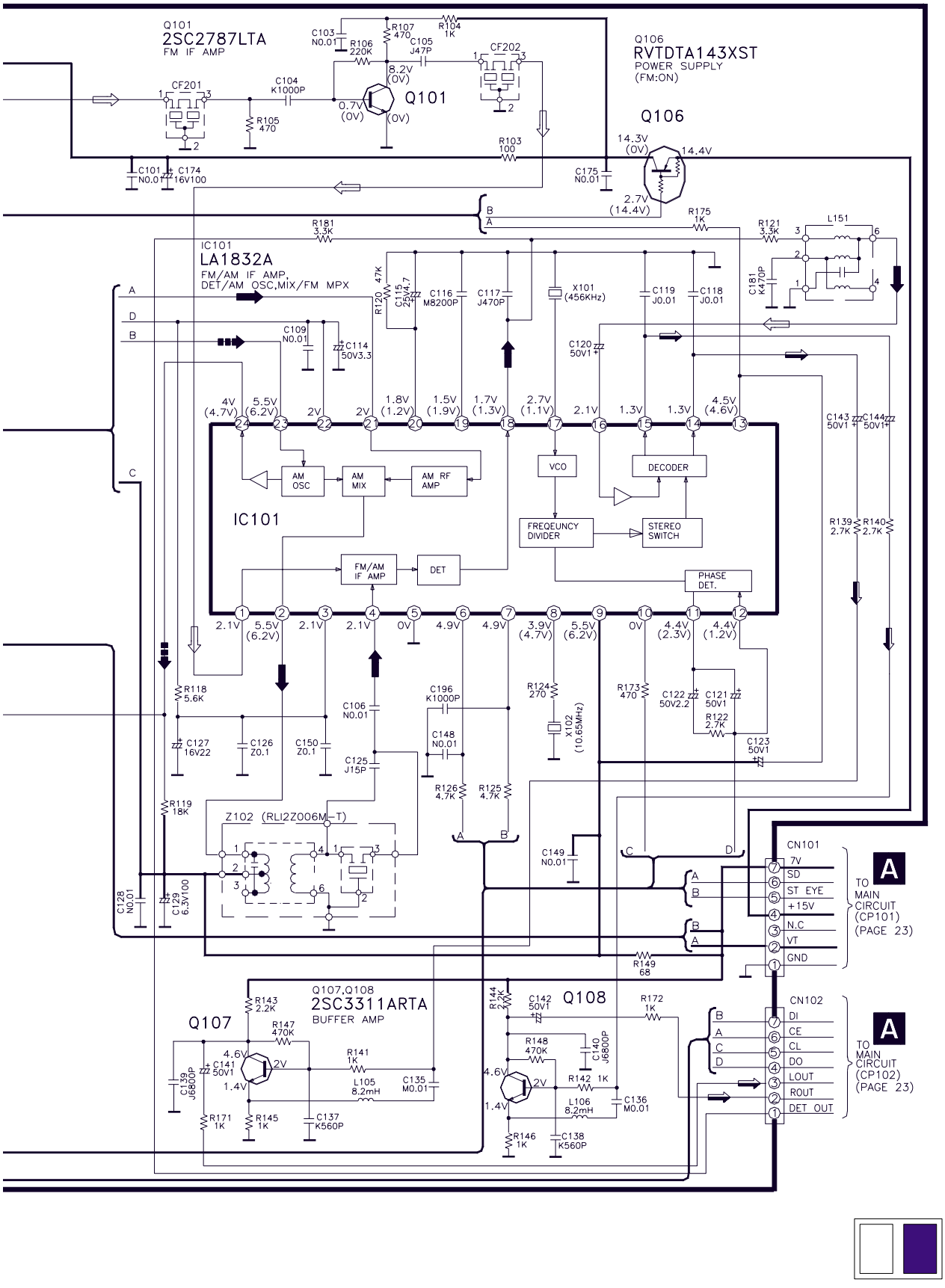
•Importance safety notice:
Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure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

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.

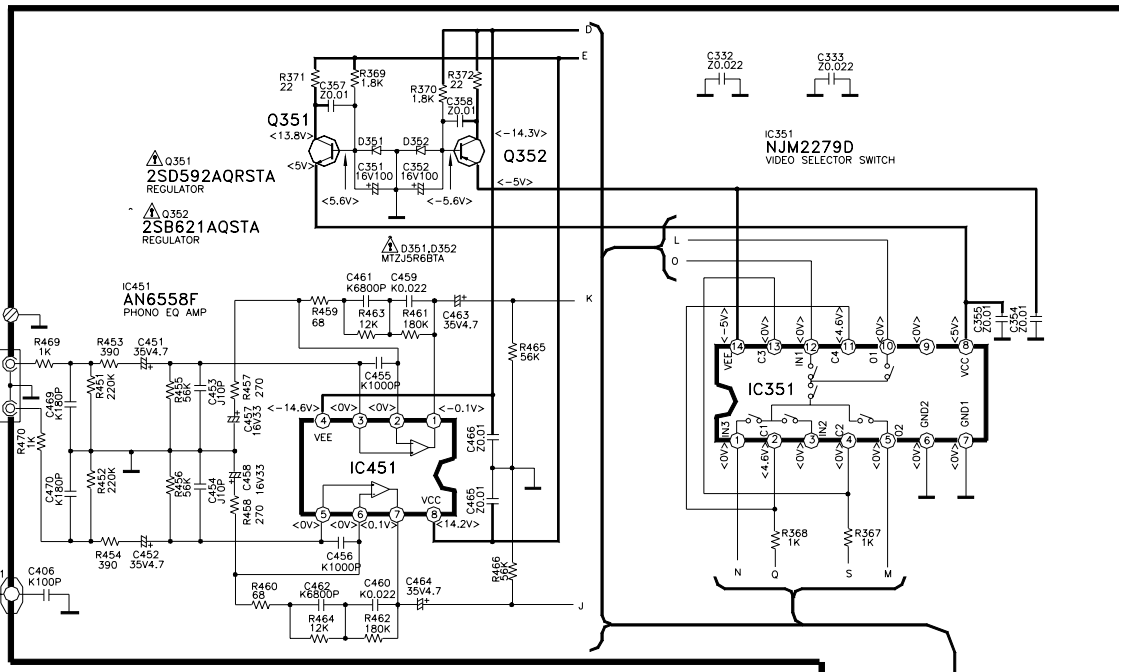
■ Schematic Diagram

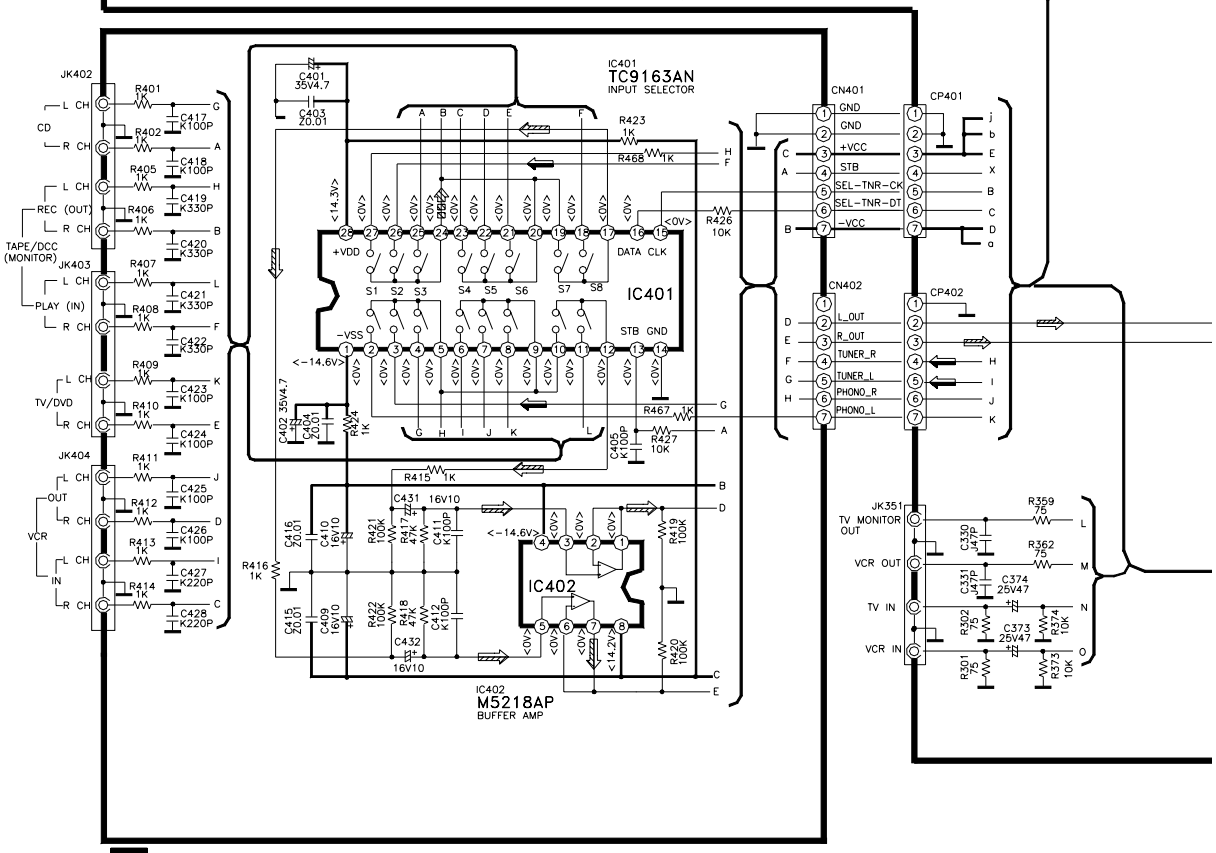
F TUNER CIRCUIT



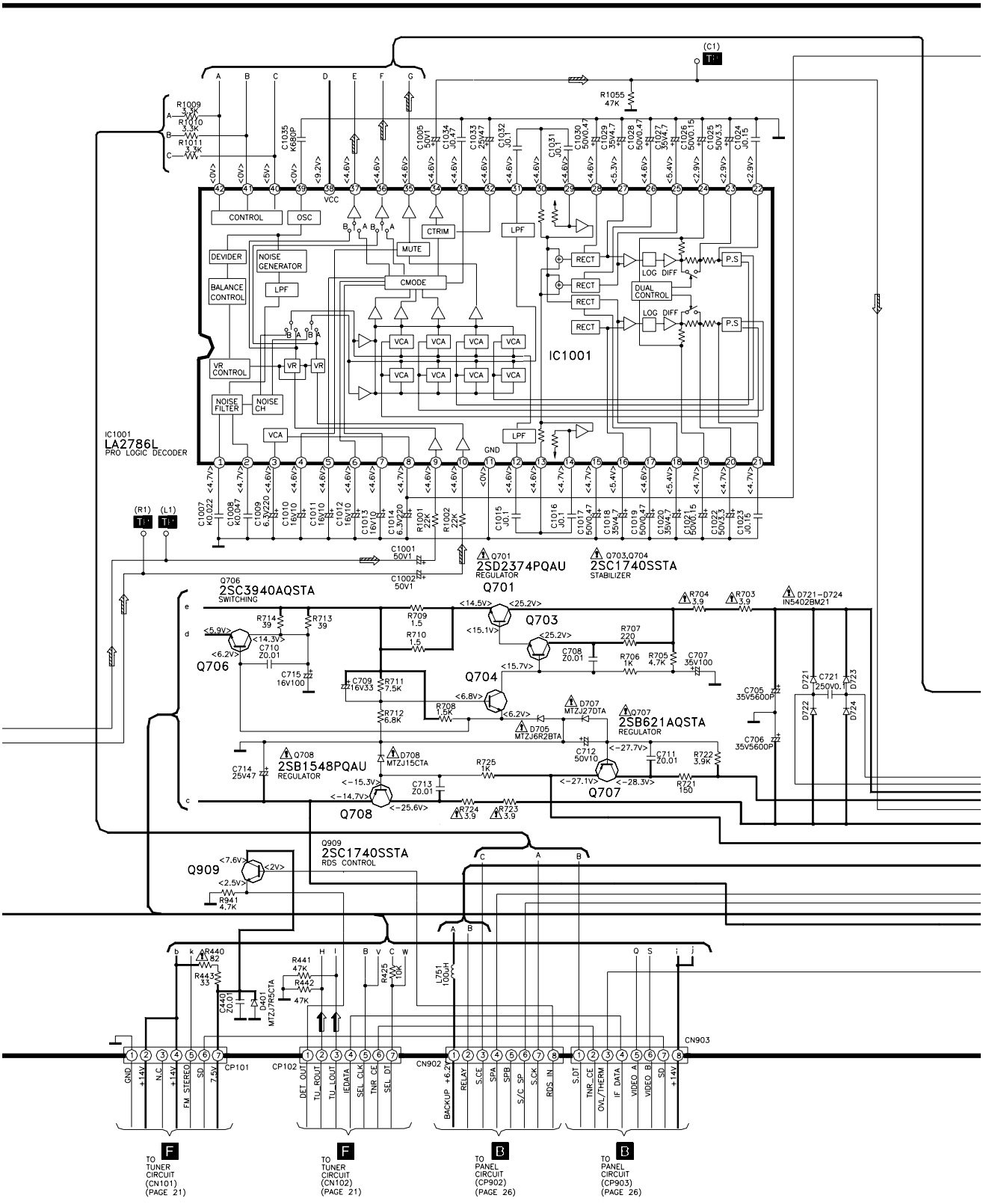

Q101
2SC2787LTA
FM IF AMP
Q106
RVTDTA143XST
POWER SUPPLY
(FM:ON)
IC101
LA1832A
FM/AM IF AMP,
DET/AM OSC,MIX/FM MPX
AM OSC
AM MIX
AM RF AMP
VCO
DECODER
FREQEUNCY DIVIDER
STEREO SWITCH
FM/AM IF AMP
DET
PHASE DET.
Z102 (RLI2Z006M-T)
Q107,Q108
2SC3311ARTA
BUFFER AMP
Q107
Q108
CN101
7V
SD
ST EYE
+15V
N.C
VT
GND
CN102
DI
CE
CL
DO
LOUT
ROUT
DET OUT
TO MAIN CIRCUIT (CP101) (PAGE 23)
TO MAIN CIRCUIT (CP102) (PAGE 23)

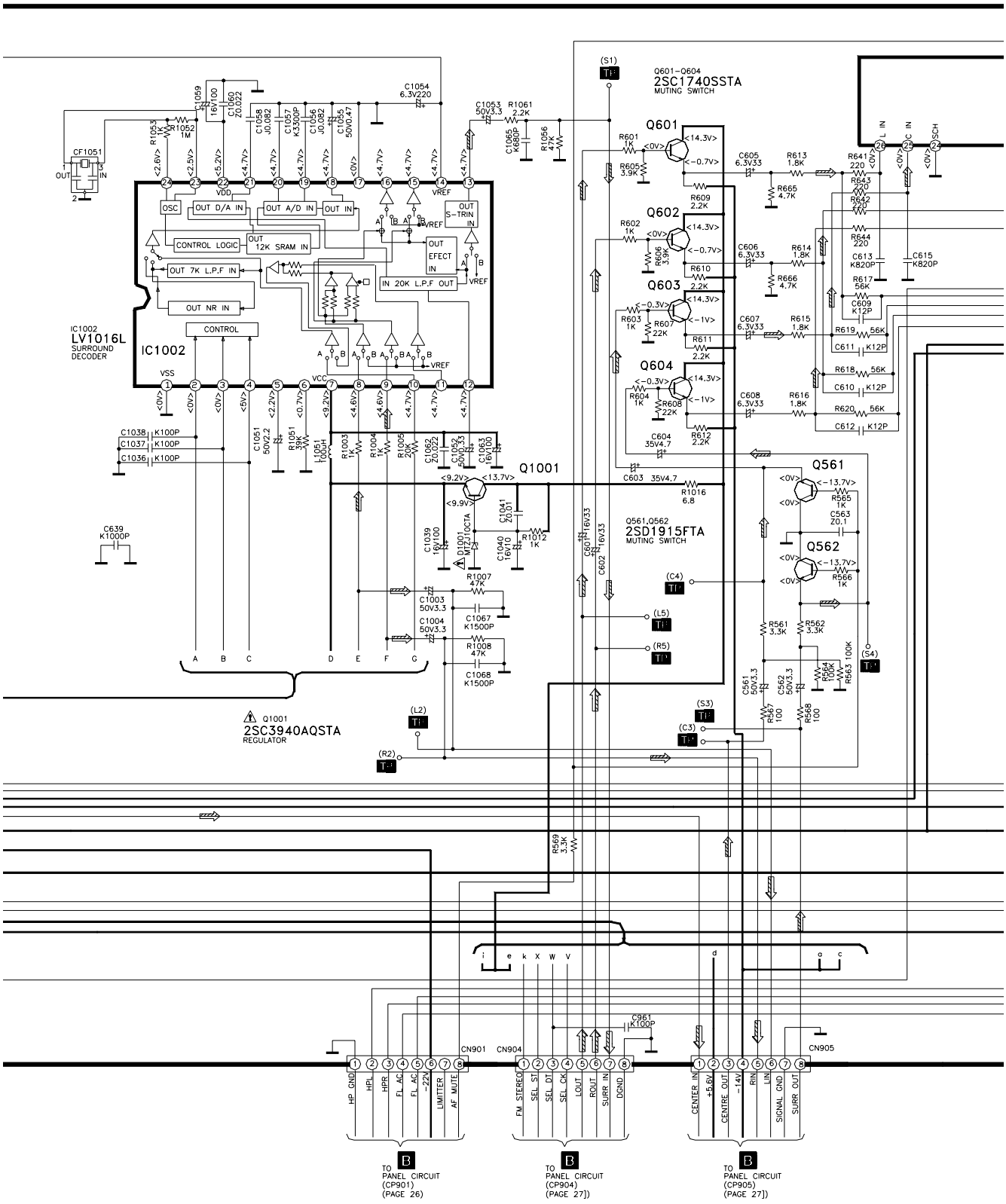
A MAIN CIRCUIT

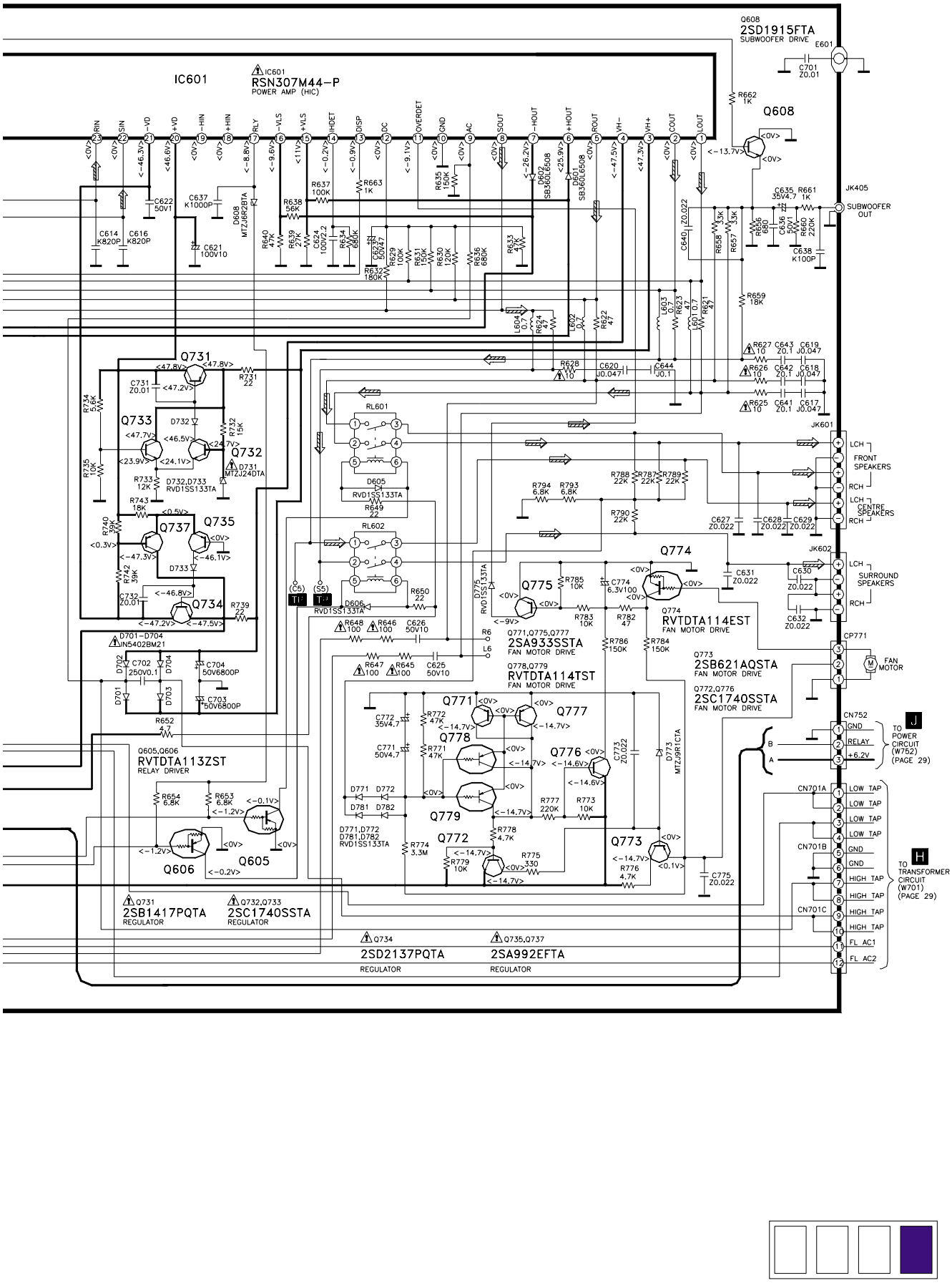




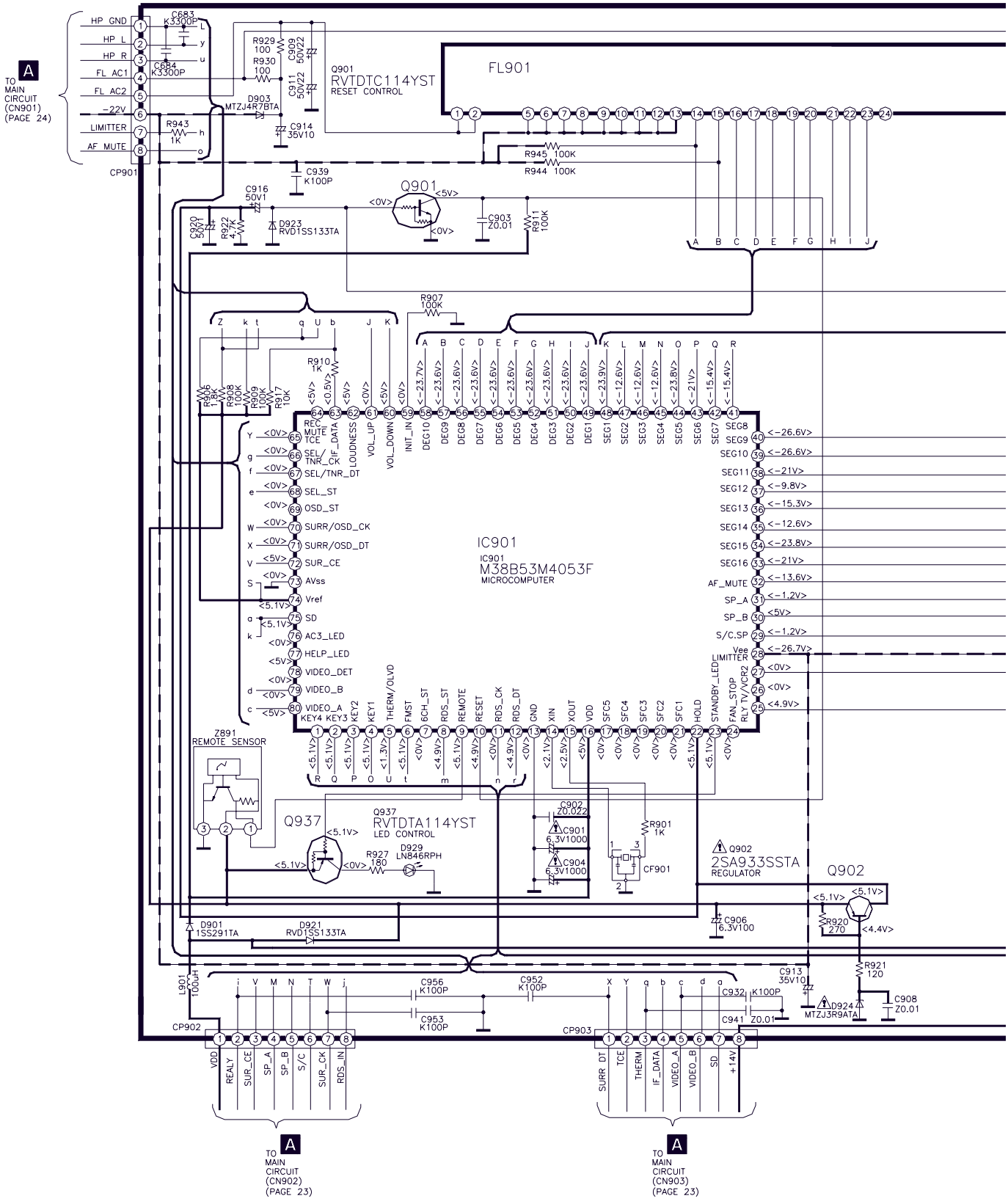
G IN/OUT TERMINAL CIRCUIT

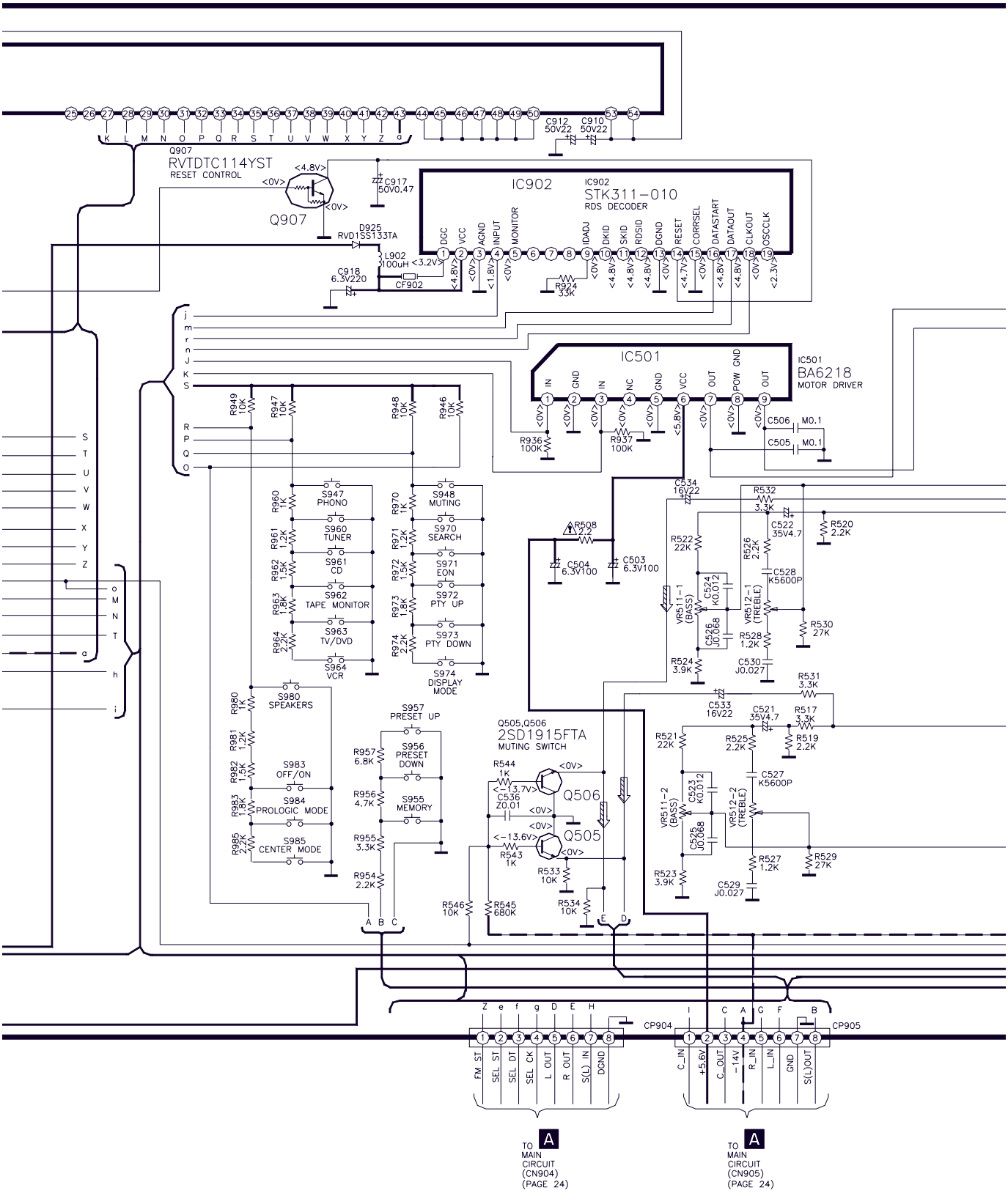

IC1001
LA2786L
PRO LOGIC DECODER
CONTROL
OSC
DEVIDER
NOISE GENERATOR
BALANCE CONTROL
LPF
MUTE
CTRIM
CMODE
VCA
VR
VR CONTROL
NOISE FILTER
NOISE CH
RECT
P.S
LOG DIFF
DUAL CONTROL
VCC
GND
Q706
2SC3940AQSTA
SWITCHING
Q703
Q704
Q706
Q707
Q708
Q701
2SD2374PQAU
REGULATOR
Q703,Q704
2SC1740SSTA
STABILIZER
Q707
2SB621AQSTA
REGULATOR
Q708
2SB1548PQAU
REGULATOR
Q909
2SC1740SSTA
RDS CONTROL
D721-D724
IN5402BM21
D705
MTZJ6R2BTA
D707
MTZJ27DTA
D708
MTZJ15CTA
D401
MTZJ7R5C1A
CN903
CP101
CP102
CN902
GND
+14V
N.C
+14V
FM STEREO
SD
7.5V
DET OUT
TU ROUT
TU LOUT
IFDATA
SEL CLK
TNR CE
SEL DT
BACKUP +6.2V
RELAY
S.CE
SPA
SPB
S/C SP
S.CK
RDS IN
S.DT
TNR CE
OVL/THERM
IF DATA
VIDEO A
VIDEO B
SD
+14V
TO TUNER CIRCUIT (CN101) (PAGE 21)
TO TUNER CIRCUIT (CN102) (PAGE 21)
TO PANEL CIRCUIT (CP902) (PAGE 26)
TO PANEL CIRCUIT (CP903) (PAGE 26)

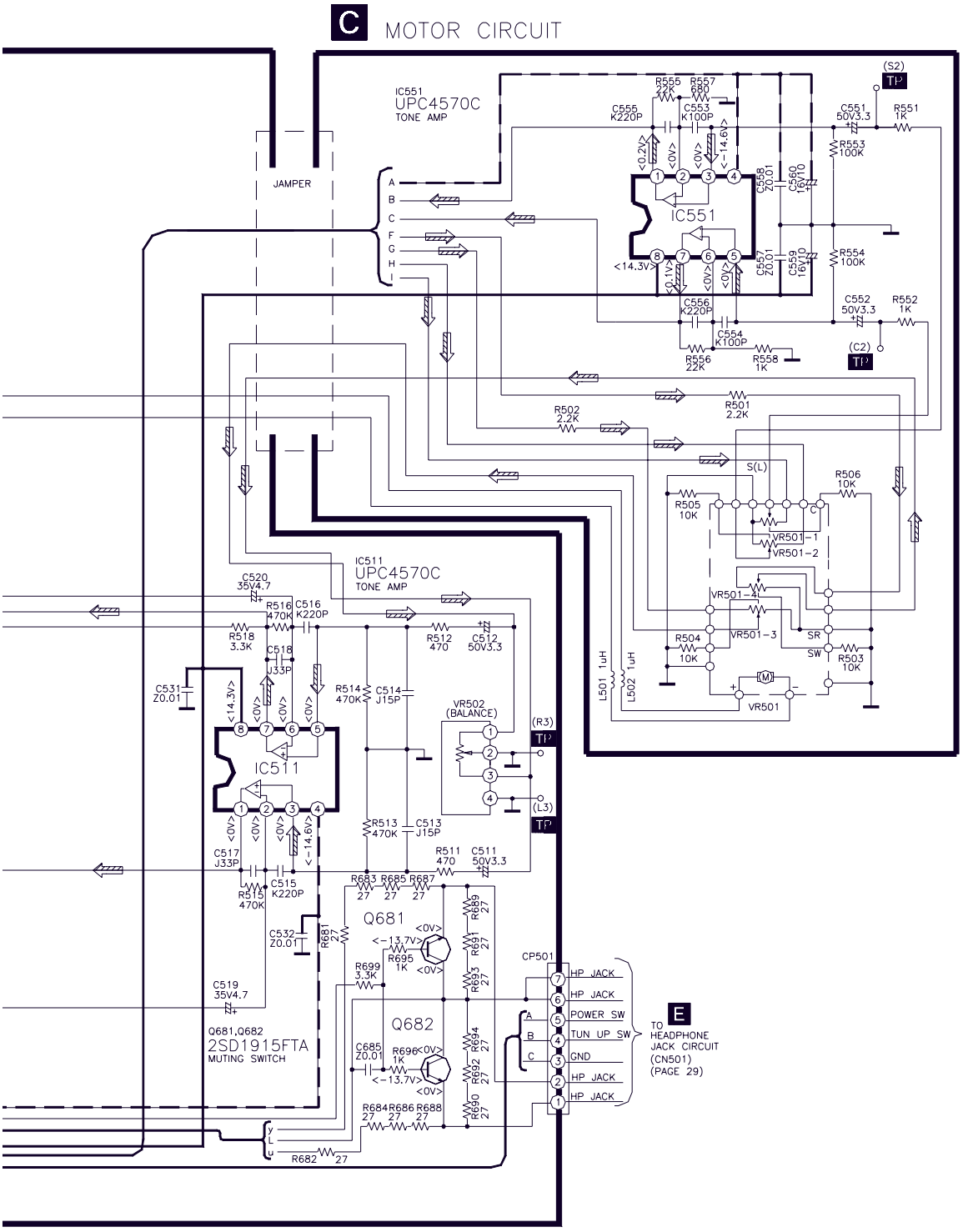

IC1002
LV1016L
SURROUND
DECODER
Q601–Q604
2SC1740SSTA
MUTING SWITCH
Q601
Q602
Q603
Q604
Q1001
2SC3940AQSTA
REGULATOR
Q561,Q562
2SD1915FTA
MUTING SWITCH
Q561
Q562
CONTROL LOGIC
OUT 12K SRAM IN
OUT 7K L.P.F IN
IN 20K L.P.F OUT
OUT NR IN
OUT EFECT IN
OUT S-TRIN IN
OUT D/A IN
OUT A/D IN
OUT IN
CONTROL
OSC
VDD
VSS
VCC
VREF
CF1051
CN901
CN904
CN905
HP GND
HPL
HPR
FL AC
FL AC
-22V
LIMITER
AF MUTE
FM STEREO
SEL ST
SEL DT
SEL CK
LOUT
ROUT
SURR IN
DGND
CENTER IN
+5.6V
CENTRE OUT
-14V
RIN
LIN
SIGNAL GND
SURR OUT
TO PANEL CIRCUIT (CP901) (PAGE 26)
TO PANEL CIRCUIT (CP904) (PAGE 27])
TO PANEL CIRCUIT (CP905) (PAGE 27])

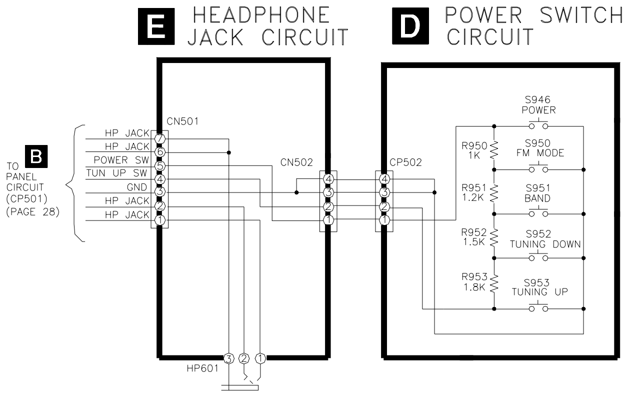

IC601
IC601
RSN307M44-P
POWER AMP (HIC)
Q608
2SD1915FTA
SUBWOOFER DRIVE
E601
JK405
SUBWOOFER OUT
JK601
FRONT SPEAKERS
CENTRE SPEAKERS
JK602
SURROUND SPEAKERS
CP771
FAN MOTOR
Q731
2SB1417PQTA
REGULATOR
Q732,Q733
2SC1740SSTA
REGULATOR
Q734
2SD2137PQTA
REGULATOR
Q735,Q737
2SA992EFTA
REGULATOR
Q606,Q605
RVTDTA113ZST
RELAY DRIVER
Q771,Q775,Q777
2SA933SSTA
FAN MOTOR DRIVE
Q778,Q779
RVTDTA114TST
FAN MOTOR DRIVE
Q774
RVTDTA114EST
FAN MOTOR DRIVE
Q773
2SB621AQSTA
FAN MOTOR DRIVE
Q772,Q776
2SC1740SSTA
FAN MOTOR DRIVE
D701-D704
1N5402BM21
RL601
RL602
D605
RVD1SS133TA
D606
RVD1SS133TA
D731
MTZJ24DTA
D732,D733
RVD1SS133TA
D773
MTZJ9R1CTA
D775
RVD1SS133TA
D771,D772
D781,D782
RVD1SS133TA
CN752
TO POWER CIRCUIT (W752) (PAGE 29)
CN701A
CN701B
CN701C
TO TRANSFORMER CIRCUIT (W701) (PAGE 29)
LOW TAP
HIGH TAP
FL AC1
FL AC2
GND
RELAY
+6.2V

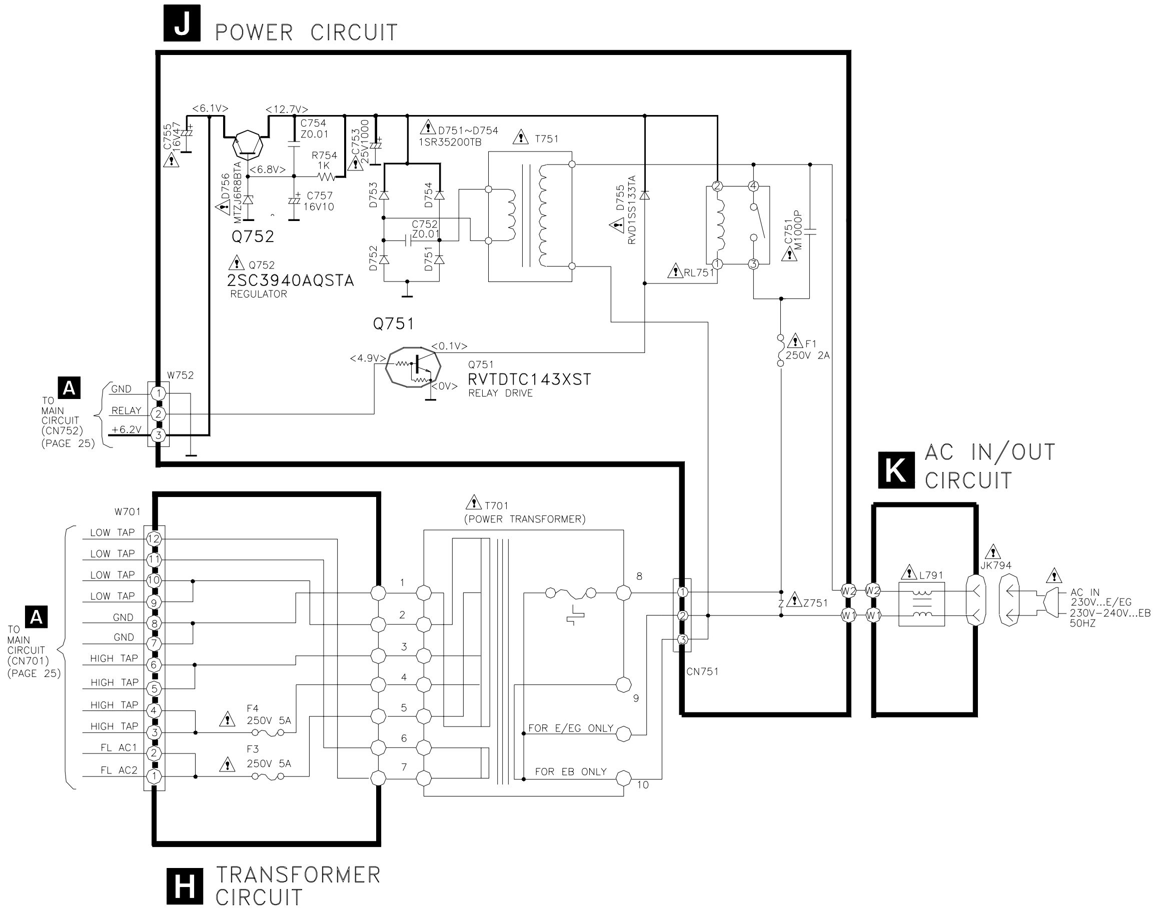
B PANEL CIRCUIT




Q907
RVTDTC114YST
RESET CONTROL
IC902
STK311-010
RDS DECODER
IC501
BA6218
MOTOR DRIVER
S947 PHONO
S960 TUNER
S961 CD
S962 TAPE MONITOR
S963 TV/DVD
S964 VCR
S948 MUTING
S970 SEARCH
S971 EON
S972 PTY UP
S973 PTY DOWN
S974 DISPLAY MODE
S980 SPEAKERS
S983 OFF/ON
S984 PROLOGIC MODE
S985 CENTER MODE
S957 PRESET UP
S956 PRESET DOWN
S955 MEMORY
Q505,Q506
2SD1915FTA
MUTING SWITCH
Q506
Q505
CP904
CP905
FM ST
SEL ST
SEL DT
SEL CK
L OUT
R OUT
S(L) IN
DGND
C_IN
+5.6V
C_OUT
-14V
R_IN
L_IN
GND
S(L)OUT
TO MAIN CIRCUIT (CN904) (PAGE 24)
TO MAIN CIRCUIT (CN905) (PAGE 24)


C
MOTOR CIRCUIT
IC551
UPC4570C
TONE AMP
JAMPER
IC551
IC511
UPC4570C
TONE AMP
IC511
Q681
Q682
Q681,Q682
2SD1915FTA
MUTING SWITCH
VR502
(BALANCE)
VR501
VR501-1
VR501-2
VR501-3
VR501-4
CP501
HP JACK
HP JACK
POWER SW
TUN UP SW
GND
HP JACK
HP JACK
TO
HEADPHONE
JACK CIRCUIT
(CN501)
(PAGE 29)
E

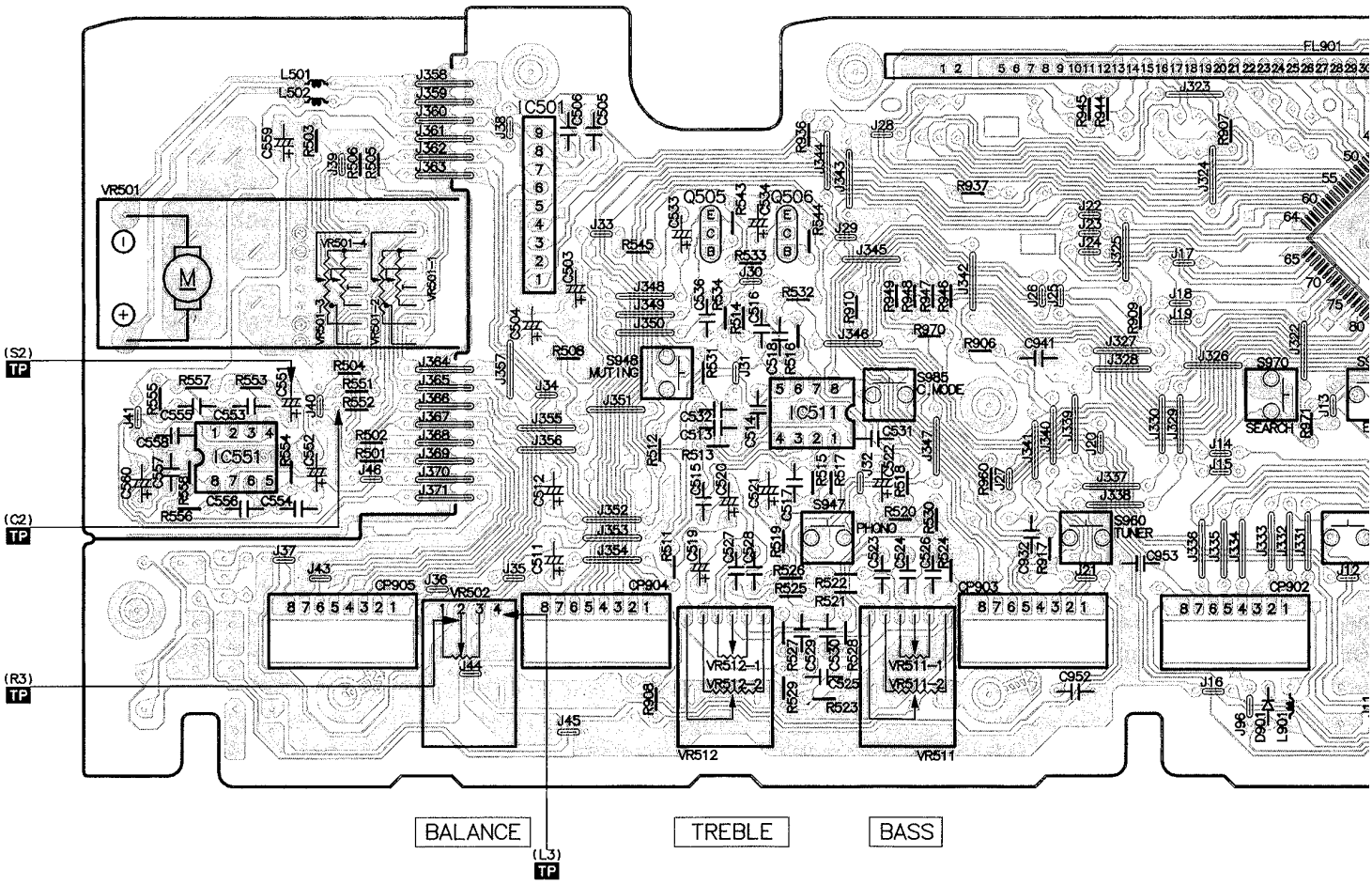

E HEADPHONE JACK CIRCUIT
D POWER SWITCH CIRCUIT
TO B PANEL CIRCUIT (CP501) (PAGE 28)
HP JACK
HP JACK
POWER SW
TUN UP SW
GND
HP JACK
HP JACK
CN501
CN502
CP502
HP601
S946 POWER
R950 1K
S950 FM MODE
R951 1.2K
S951 BAND
R952 1.5K
S952 TUNING DOWN
R953 1.8K
S953 TUNING UP


J POWER CIRCUIT
<6.1V>
<12.7V>
C755 16V47
C754 Z0.01
C753 25V1000
D751~D754 1SR35200TB
T751
<6.8V>
R754 1K
C757 16V10
D756 MTZJ6R8BTA
D753
D754
D752
D751
C752 Z0.01
D755 RVD1SS133TA
C751 M1000P
RL751
Q752
Q752 2SC3940AQSTA REGULATOR
Q751
<4.9V>
<0.1V>
<0V>
Q751 RVTDTC143XST RELAY DRIVE
F1 250V 2A
TO A MAIN CIRCUIT (CN752) (PAGE 25)
W752
GND
RELAY
+6.2V
K AC IN/OUT CIRCUIT
T701 (POWER TRANSFORMER)
W701
TO A MAIN CIRCUIT (CN701) (PAGE 25)
LOW TAP
LOW TAP
LOW TAP
LOW TAP
GND
GND
HIGH TAP
HIGH TAP
HIGH TAP
HIGH TAP
FL AC1
FL AC2
F4 250V 5A
F3 250V 5A
FOR E/EG ONLY
FOR EB ONLY
CN751
Z751
L791
JK794
AC IN 230V...E/EG 230V-240V...EB 50HZ
H TRANSFORMER CIRCUIT

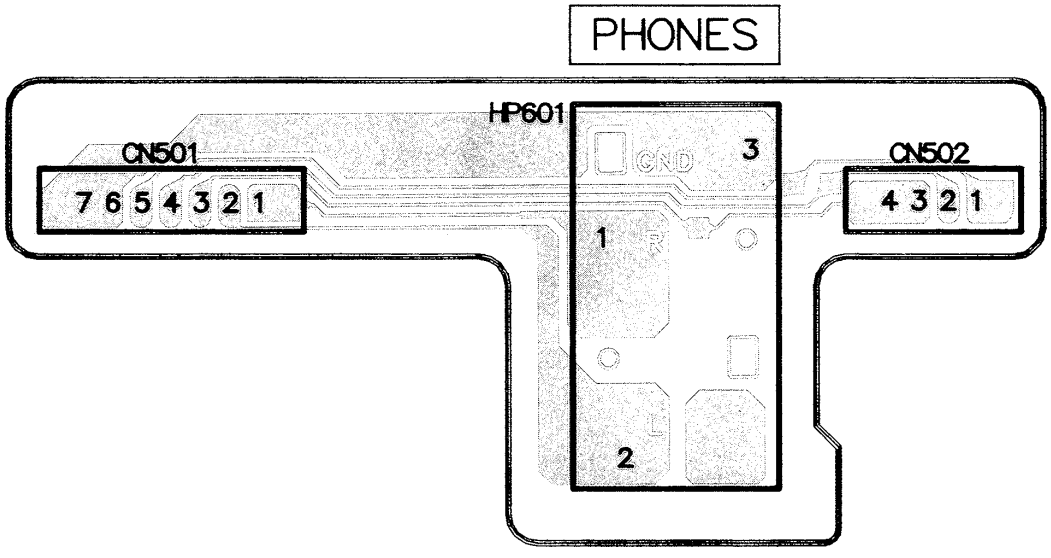
■ Printed Circuit Board

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

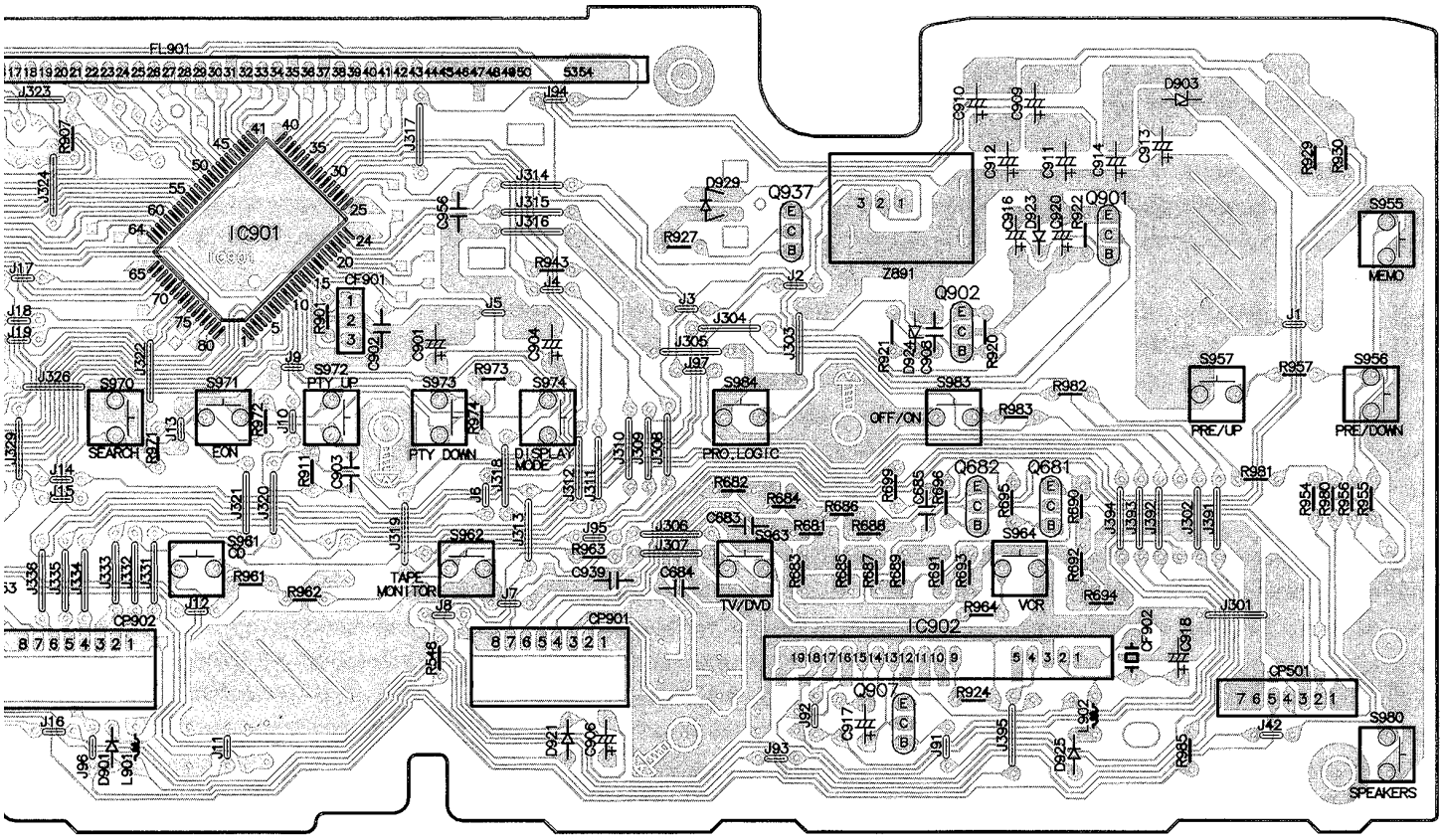
B PANEL P.C.B. (REP2445D-S)



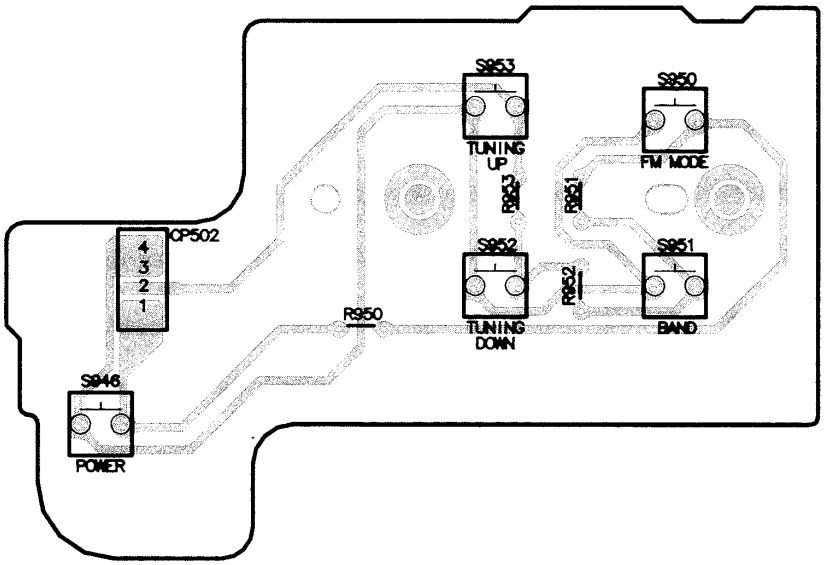
E HEADPHONE JACK P.C.B. (REP2445D-S)



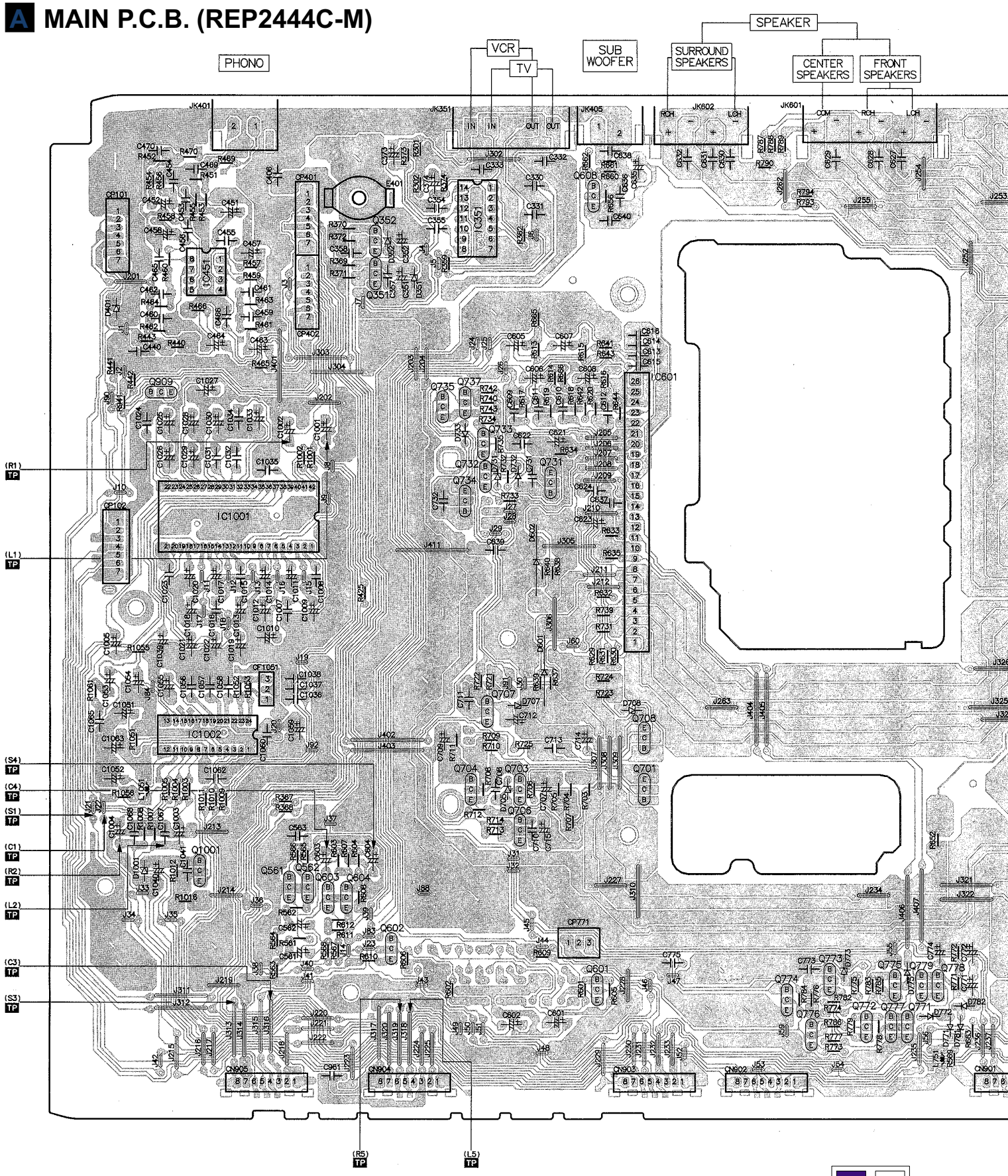
SENSOR

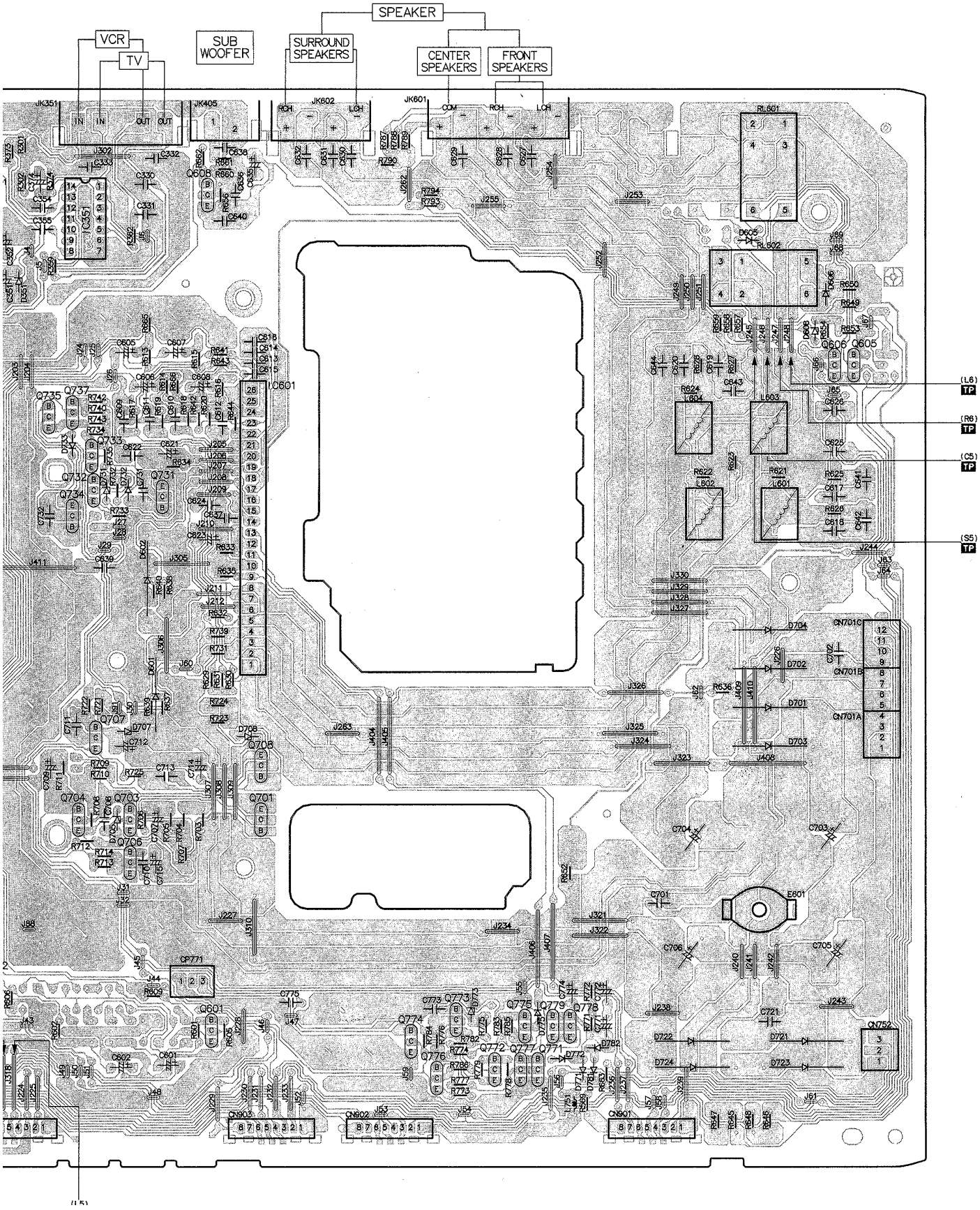


D POWER SWITCH P.C.B. (REP2445D-S)

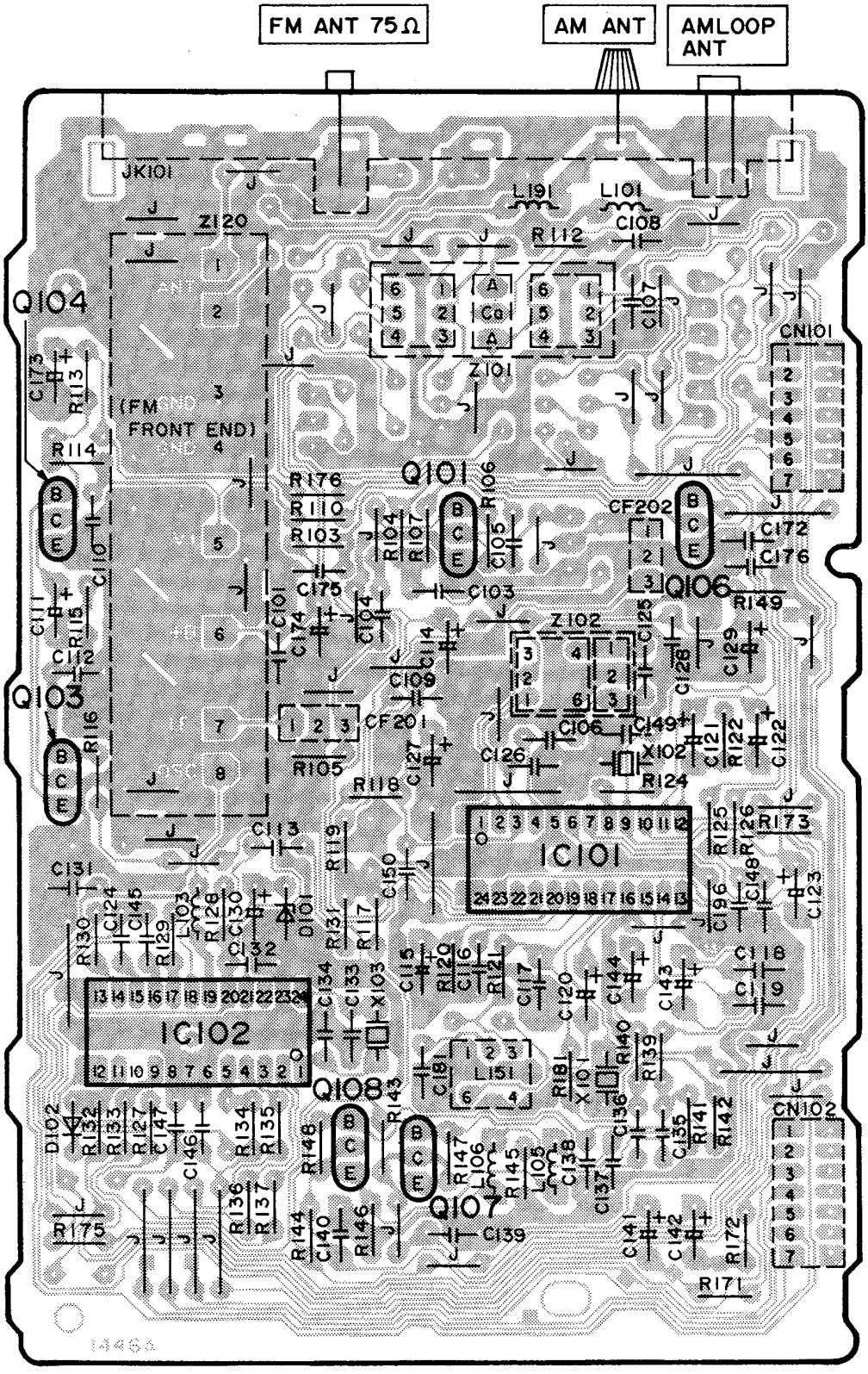


A MAIN P.C.B. (REP2444C-M)

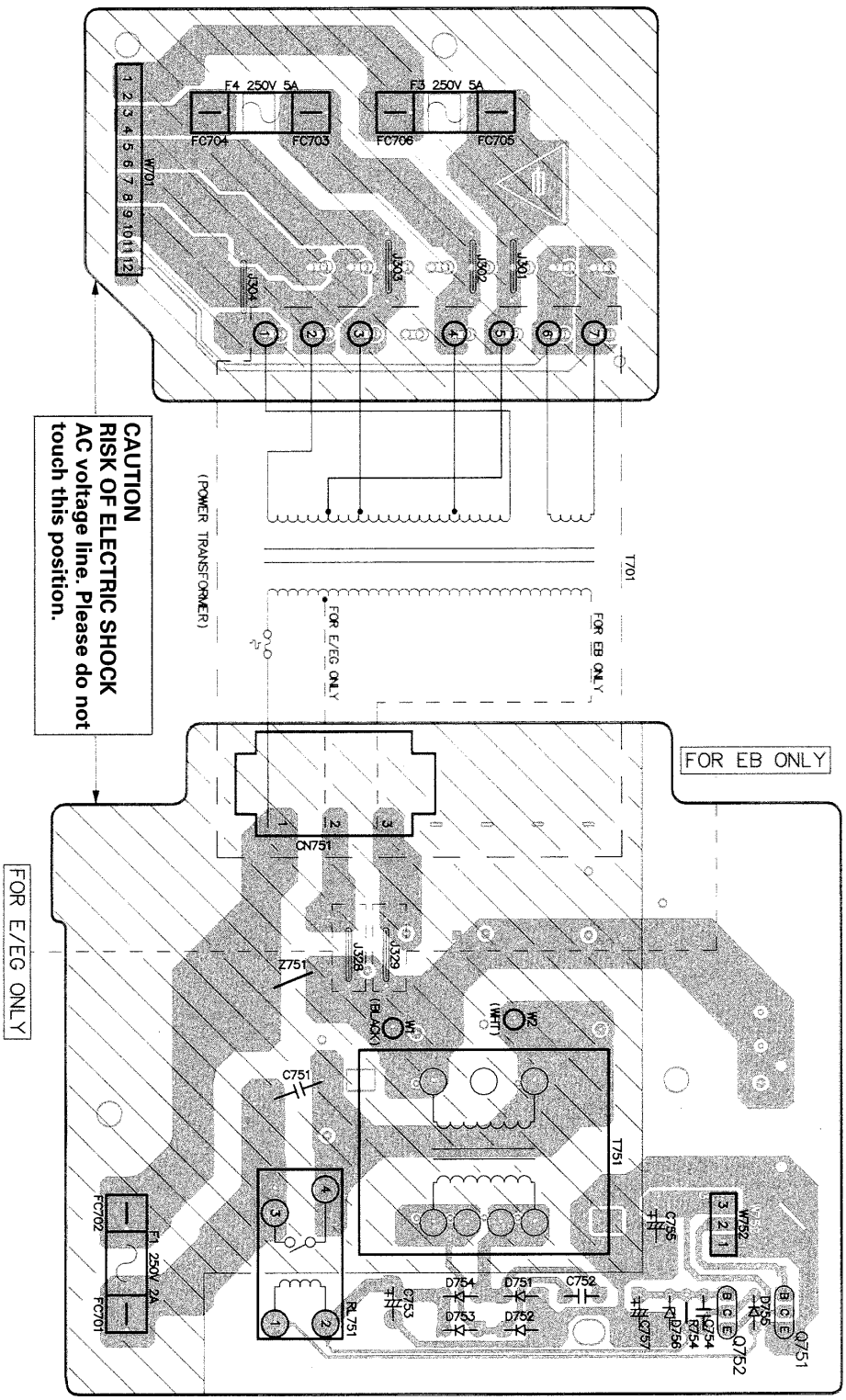



SPEAKER
VCR
TV
SUB WOOFER
SURROUND SPEAKERS
CENTER SPEAKERS
FRONT SPEAKERS
JK351
JK405
JK602
JK601
RL601
RL602
IC601
IC351
Q601
Q602
Q605
Q606
Q701
Q703
Q704
Q706
Q707
Q708
Q731
Q732
Q733
Q734
Q735
Q737
Q771
Q772
Q773
Q774
Q775
Q776
Q777
Q778
Q779
L601
L602
L603
L604
E601
CN701A
CN701B
CN701C
CN752
CN901
CN902
CN903
(L6) TP
(R6) TP
(C5) TP
(S5) TP
(L5)

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

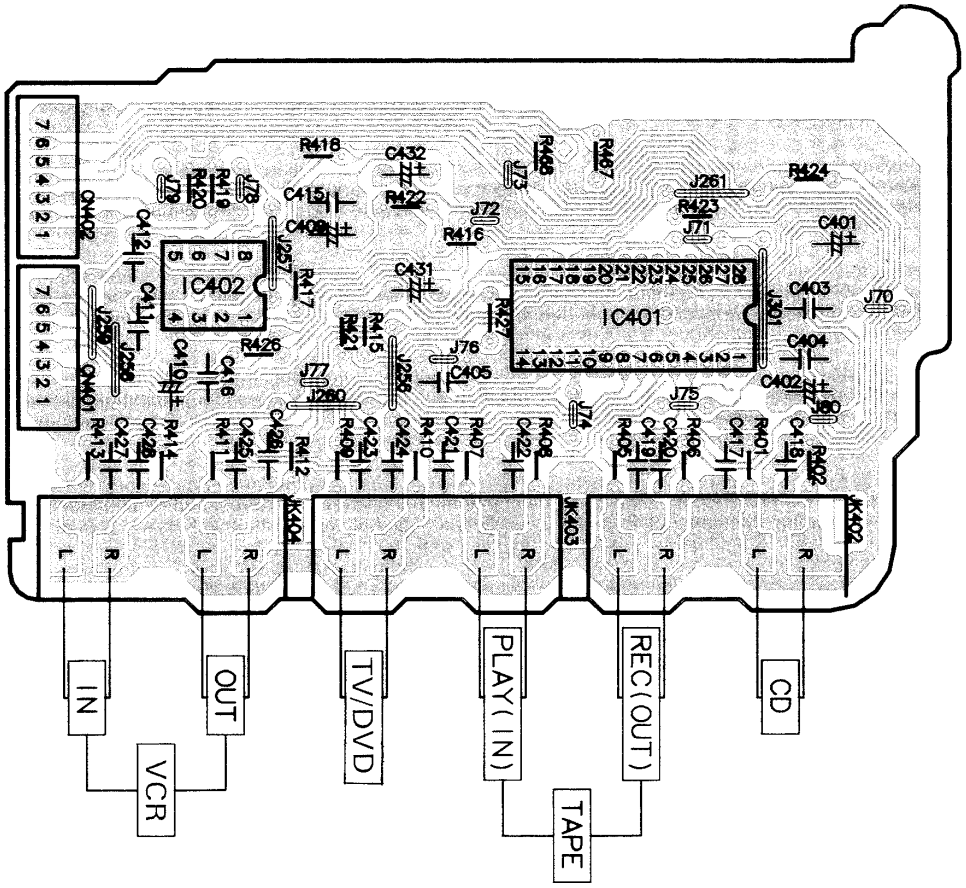


H TRANSFORMER P.C.B.
(REP2444C-M)

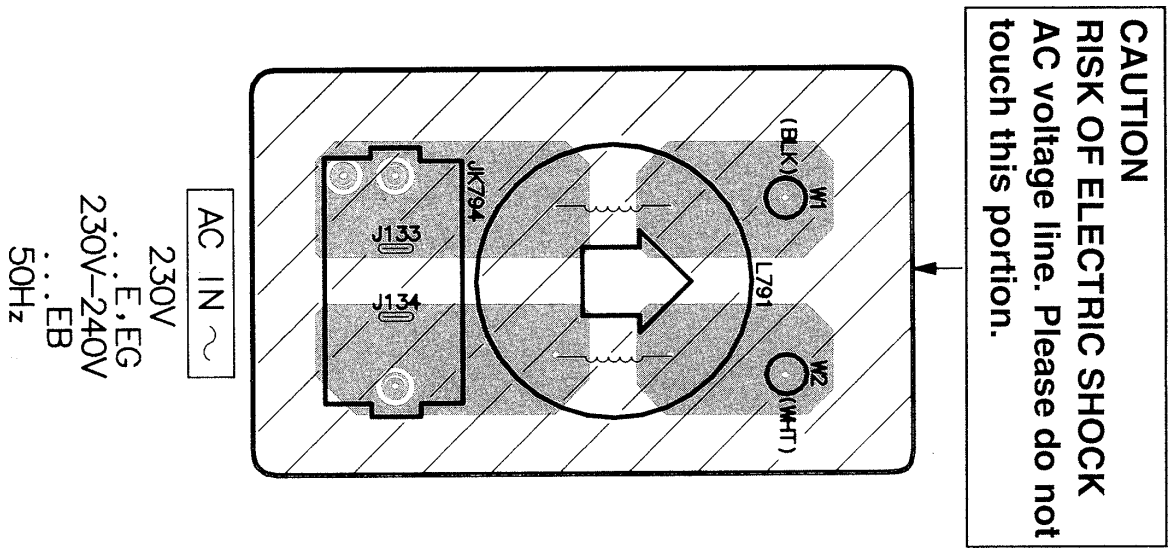


■ POWER P.C.B.
(REP2446D-P).....E/EG
(REP2446E-P).....EB

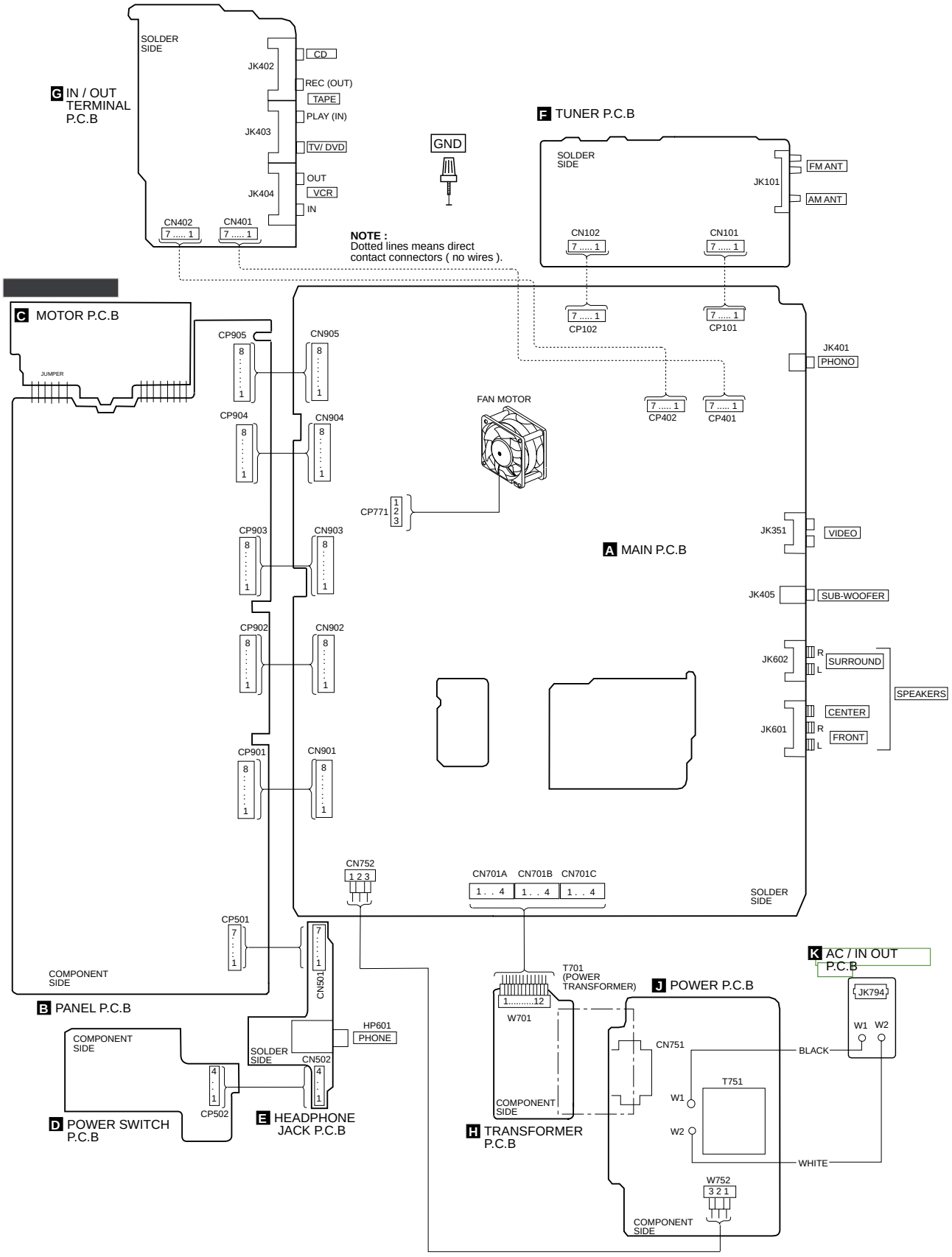
I IN / OUT TERMINAL P.C.B.
(REP2446D-P).....E/EG
(REP2446E-P).....EB



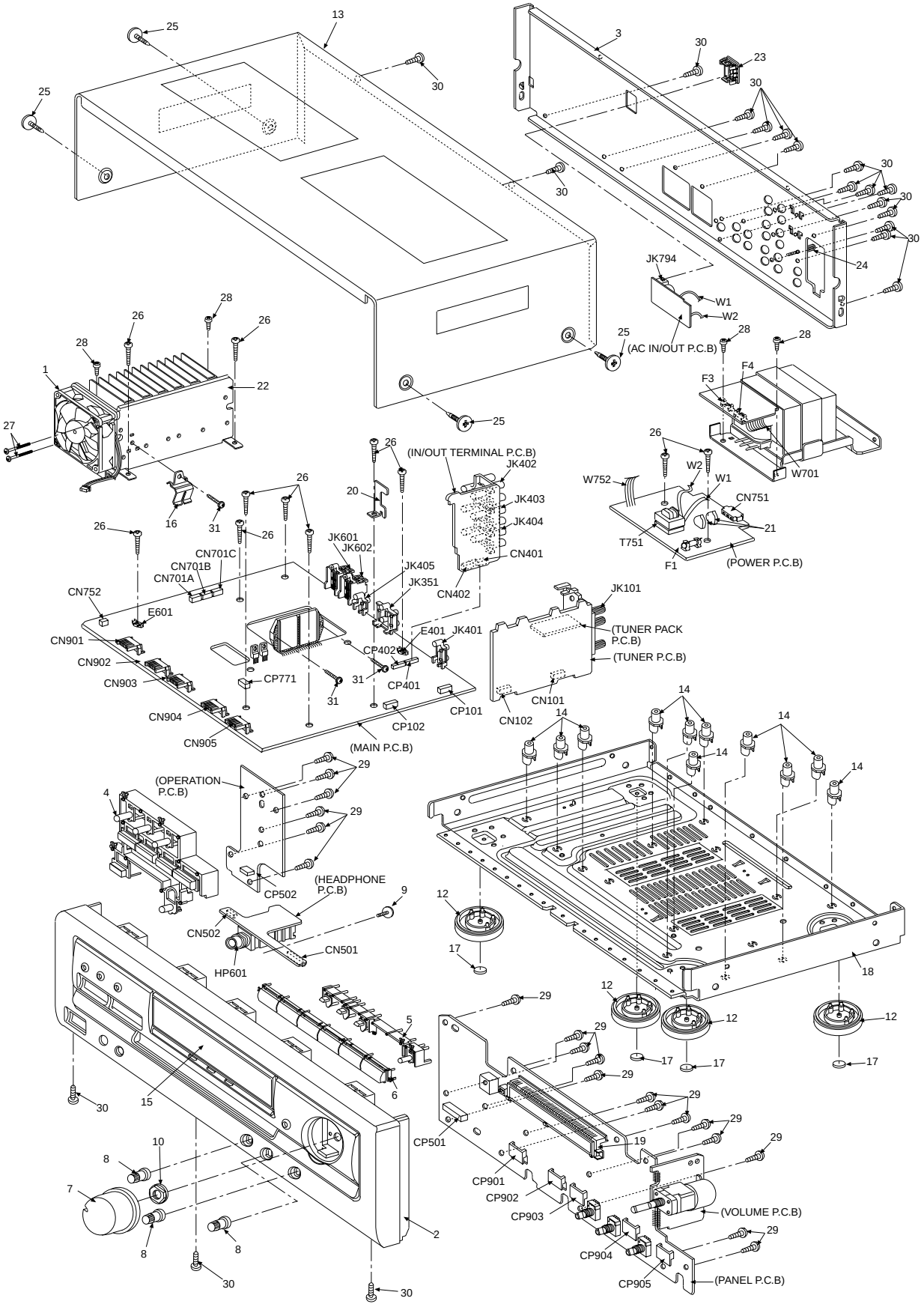
K AC IN/OUT P.C.B.
(REP2446D-P).....E/EG
(REP2446E-P).....EB



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
		CABINETANDCHASSIS	
1	REM0089	FAN UNIT	[M]
2	RFKGEX310EK	FRONT PANEL ASSY	[M]
3	RGR0251B-A	REAR PANEL	[M]EG E
3	RGR0251B-B	REAR PANEL	[M]EB
4	RGU1350-K	MODE BUTTON	[M]
5	RGU1352M-K	DOLBY BUTTON	[M]
6	RGU1493-K	SELECTOR BUTTON	[M]
7	RGW0243A-K	VOLUME KNOB	[M]
8	RGW0244-K1	BASS TREBLE KNOB	[M]
9	RHD26016	SCREW	[M]
10	RHN90001	M9 NUT	[M]
12	RKA0079-A	LEG	[M]
13	RKM0260D-K	TOP CABINET	[M]EG E
14	RKQ0089-J	PCB HOLDER	[M]
15	RKW0436E-Q	FL WINDOW	[M]
16	RMC0158-S	TRANSISTOR HOLDER	[M]
17	RMG0270-K	LEG CUSHION	[M]
18	RMK0350	BOTTOM CHASSIS	[M]
19	RMN0372	FL HOLDER	[M]
20	RMQ0709	TUNER PCB BRACKET	[M]
21	RMZ0339	ZNR COVER	[M]
22	RXX0186	HEAT SINK UNIT	[M]
23	SJS9231A	A/C INLET COVER	[M]
24	SNE2123	EARTH TERMINAL	[M]
25	SNE2129-1	SCREW (CABINET)	[M]
26	XTB3+20JFZ	SCREW	[M]
27	XTB3+30J	SCREW (FAN)	[M]
28	XTB3+8FFZ	SCREW	[M]
29	XTBS26+10J	SCREW (FRONT)	[M]
30	XTBS3+8JFZ1	SCREW	[M]
31	XTW3+15T	SCREW	[M]
		INTEGRATEDCIRCUITS	
IC101	LA1832A	IC, IF/MPX	[M]
IC102	LC7218	IC, PLL	[M]
IC351	NJM2279D	IC, VIDEO SELECTOR	[M]
IC401	TC9163AN	IC, SELECTOR	[M]
IC402	M5218AP	IC, BUFFER AMP	[M]
IC451	AN6558F	IC, OP AMP	[M]
IC501	BA6218	IC, MOTOR DRIVER	[M]
IC511	UPC4570C	IC, TONE CONTROL	[M]
IC551	UPC4570C	IC, TONE CONTROL	[M]
IC801	RSN307M44-P	IC, HIC ⚠	[M]
IC901	M38B53M4053F	IC, MICOM	[M]
IC902	STK311-010	IC, RDS DECODER	[M]
IC1001	LA2786L	IC, DPL	[M]
IC1002	LV1016L	IC, SURR DECODER	[M]
		TRANSISTORS	
Q101	2SC2787LTA	TRANSISTOR	[M]
Q103	2SC2786FETA	TRANSISTOR	[M]
Q104	2SC2786FETA	TRANSISTOR	[M]
Q106	RVTDTA143XST	TRANSISTOR	[M]
Q107	2SC3311ARTA	TRANSISTOR	[M]
Q108	2SC3311ARTA	TRANSISTOR	[M]
Q351	2SD592AQRSTA	TRANSISTOR ⚠	[M]
Q352	2SB621AQSTA	TRANSISTOR ⚠	[M]
Q355	2SD1915FTA	TRANSISTOR	[M]
Q356	2SD1915FTA	TRANSISTOR	[M]
Q361	2SD1915FTA	TRANSISTOR	[M]
Q362	2SD1915FTA	TRANSISTOR	[M]
Q601	2SC1740SSTA	TRANSISTOR	[M]
Q602	2SC1740SSTA	TRANSISTOR	[M]
Q603	2SC1740SSTA	TRANSISTOR	[M]
Q604	2SC1740SSTA	TRANSISTOR	[M]
Q605	RVTDTA113ZST	TRANSISTOR	[M]
Q606	RVTDTA113ZST	TRANSISTOR	[M]
Q608	2SD1915FTA	TRANSISTOR	[M]
Q681	2SD1915FTA	TRANSISTOR	[M]
Q682	2SD1915FTA	TRANSISTOR	[M]
Q701	2SD2374PQAU	TRANSISTOR ⚠	[M]
Q703	2SC1740SSTA	TRANSISTOR ⚠	[M]
Q704	2SC1740SSTA	TRANSISTOR ⚠	[M]
Q706	2SC3940AQSTA	TRANSISTOR	[M]
Q707	2SB621AQSTA	TRANSISTOR ⚠	[M]
Q708	2SB1548PQAU	TRANSISTOR ⚠	[M]
Q731	2SB1417PQTA	TRANSISTOR ⚠	[M]
Q732	2SC1740SSTA	TRANSISTOR ⚠	[M]
Q733	2SC1740SSTA	TRANSISTOR ⚠	[M]
Q734	2SD2137PQTA	TRANSISTOR ⚠	[M]
Q735	2SA992EFTA	TRANSISTOR ⚠	[M]
Q737	2SA992EFTA	TRANSISTOR ⚠	[M]
Q751	RVTDTC143XST	TRANSISTOR	[M]
Q752	2SC3940AQSTA	TRANSISTOR ⚠	[M]
Q771	2SA933SSTA	TRANSISTOR	[M]
Q772	2SC1740SSTA	TRANSISTOR	[M]
Q773	2SB621AQSTA	TRANSISTOR	[M]
Q774	RVTDTA114ESTA	TRANSISTOR	[M]
Q775	2SA933SSTA	TRANSISTOR	[M]
Q776	2SC1740SSTA	TRANSISTOR	[M]
Q777	2SA933SSTA	TRANSISTOR	[M]
Q778	RVTDTA114TSTA	TRANSISTOR	[M]
Q779	RVTDTA114TSTA	TRANSISTOR	[M]
Q801	RVTDTC114YSTA	TRANSISTOR	[M]
Q802	2SA933SSTA	TRANSISTOR ⚠	[M]
Q807	RVTDTC114YSTA	TRANSISTOR	[M]
Q809	2SC1740SSTA	TRANSISTOR	[M]
Q887	RVTDTA114YSTA	TRANSISTOR	[M]
Q10012	2SC3940AQSTA	TRANSISTOR ⚠	[M]
		DIODES	
D101	MTZJ5R1BTA	DIODE	[M]
D102	MA165TA	DIODE	[M]
D351	MTZJ5R6BTA	DIODE ⚠	[M]
D352	MTZJ5R6BTA	DIODE ⚠	[M]
D401	MTZJ/R5CTA	DIODE	[M]
D601	SB360L6608	DIODE	[M]
D602	SB360L6608	DIODE	[M]
D605	RVD1SS133TA	DIODE	[M]
D606	RVD1SS133TA	DIODE	[M]
D608	MTZJ5R2BTA	DIODE	[M]
D701	1N5402BM21	DIODE ⚠	[M]
D702	1N5402BM21	DIODE ⚠	[M]
D703	1N5402BM21	DIODE ⚠	[M]
D704	1N5402BM21	DIODE ⚠	[M]

Ref No.	Part No.	Part Name & Description	Remarks
D705	MTZJ6R2BTA	DIODE	[M]
D707	MTZJ27DTA	DIODE	[M]
D708	MTZJ15CTA	DIODE	[M]
D721	1N5402EM21	DIODE	[M]
D722	1N5402EM21	DIODE	[M]
D723	1N5402EM21	DIODE	[M]
D724	1N5402EM21	DIODE	[M]
D731	MTZJ24DTA	DIODE	[M]
D732	RVD1SS133TA	DIODE	[M]
D733	RVD1SS133TA	DIODE	[M]
D751	1SR35200TB	DIODE	[M]
D752	1SR35200TB	DIODE	[M]
D753	1SR35200TB	DIODE	[M]
D754	1SR35200TB	DIODE	[M]
D755	RVD1SS133TA	DIODE	[M]
D756	MTZJ6R8BTA	DIODE	[M]
D771	RVD1SS133TA	DIODE	[M]
D772	RVD1SS133TA	DIODE	[M]
D773	MTZJ8R1CTA	DIODE	[M]
D775	RVD1SS133TA	DIODE	[M]
D781	RVD1SS133TA	DIODE	[M]
D782	RVD1SS133TA	DIODE	[M]
D901	1SS291TA	DIODE	[M]
D903	MTZJ4R7BTA	DIODE	[M]
D921	RVD1SS133TA	DIODE	[M]
D923	RVD1SS133TA	DIODE	[M]
D924	MTZJ5R9ATA	DIODE	[M]
D925	RVD1SS133TA	DIODE	[M]
D929	LN846RPH	DIODE	[M]
D1001	MTZJ10CTA	DIODE	[M]
		VARIABLERESISTORS	
VR501	EUJVMRH026B15	VR,MOTOR	[M]
VR502	EVJ02QF01G15	VR,BALANCECONTROL	[M]
VR511	EVJYA1F01C15	VR,TONECONTROL	[M]
VR512	EVJYA1F01C15	VR,TONECONTROL	[M]
		SWITCHES	
S946	EVQ21405R	SW,POWER	[M]
S947	EVQ21405R	SW,PHONO	[M]
S948	EVQ21405R	SW,MUTING	[M]
S950	EVQ21405R	SW,FMMODE	[M]
S951	EVQ21405R	SW,BAND	[M]
S952	EVQ21405R	SW,TUNINGDOWN	[M]
S953	EVQ21405R	SW,TUNINGUP	[M]
S955	EVQ21405R	SW,MEMORY	[M]
S956	EVQ21405R	SW,PRESETDOWN	[M]
S957	EVQ21405R	SW,PRESETUP	[M]
S960	EVQ21405R	SW,TUNER	[M]
S961	EVQ21405R	SW,CD	[M]
S962	EVQ21405R	SW,TAPE	[M]
S963	EVQ21405R	SW,TV/DVD	[M]
S964	EVQ21405R	SW,VCR	[M]
S970	EVQ21405R	SW,SEARCH	[M]
S971	EVQ21405R	SW,EON	[M]
S972	EVQ21405R	SW,PTYUP	[M]
S973	EVQ21405R	SW,PTYDOWN	[M]
S974	EVQ21405R	SW,DISPLAYMODE	[M]
S980	EVQ21405R	SW,SPEAKERS	[M]
S983	EVQ21405R	SW,OFF/ON	[M]
S984	EVQ21405R	SW,PRO LOGIC	[M]
S985	EVQ21405R	SW,CENTERMODE	[M]
		CONNECTORS	
CN101	RJU057W007	7PCONNECTOR	[M]
CN102	RJU057W007	7PCONNECTOR	[M]
CN401	RJU100W07	7PCONNECTOR	[M]
CN402	RJU100W07	7PCONNECTOR	[M]
CN501	RJU100W07	7PCONNECTOR	[M]
CN502	RJU100W04	4PCONNECTOR	[M]
CN701A	RJS1A6604T1	4PTAPINGCONNECTOR	[M]
CN701B	RJS1A6604T1	4PTAPINGCONNECTOR	[M]
CN701C	RJS1A6604T1	4PTAPINGCONNECTOR	[M]
CN751	SJS305-1	3PCONNECTOR	[M]
CN752	RJS1A6603T1	3PINTAPINGCONNECT	[M]
CN901	RJU003K008M1	BOADINCONNECTOR	[M]
CN902	RJU003K008M1	BOADINCONNECTOR	[M]
CN903	RJU003K008M1	BOADINCONNECTOR	[M]
CN904	RJU003K008M1	BOADINCONNECTOR	[M]
CN905	RJU003K008M1	BOADINCONNECTOR	[M]
CP101	RJT057W007-1	7PCONNECTOR	[M]
CP102	RJT057W007-1	7PCONNECTOR	[M]
CP401	RJT100W07	7PCONNECTOR	[M]
CP402	RJT100W07	7PCONNECTOR	[M]
CP501	RJT100W07	7PCONNECTOR	[M]
CP502	RJT100W04	4PCONNECTOR	[M]
CP771	RJP3G4YA	CONNECTOR	[M]
CP901	RJT003K008M1	8PCONNECTOR	[M]
CP902	RJT003K008M1	8PCONNECTOR	[M]
CP903	RJT003K008M1	8PCONNECTOR	[M]
CP904	RJT003K008M1	8PCONNECTOR	[M]
CP905	RJT003K008M1	8PCONNECTOR	[M]
		COILS&TRANSFORMERS	
L101	ELESN1R0MA	CHOKECOIL	[M]
L103	ELEXTR47MA9	CHOKECOIL	[M]
L105	RLQZB822KTD	TAPINGCOIL	[M]
L106	RLQZB822KTD	TAPINGCOIL	[M]
L151	SLM1B10-1M	A.B.FILTER	[M]
L191	ELESNR56MA	CHOKECOIL	[M]
L501	RLQZP1R0KT-Y	AXIALCOIL	[M]
L502	RLQZP1R0KT-Y	AXIALCOIL	[M]
L601	RLQYR73MWE	CHOKECOIL	[M]
L602	RLQYR73MWE	CHOKECOIL	[M]
L603	RLQYR73MWE	CHOKECOIL	[M]
L604	RLQYR73MWE	CHOKECOIL	[M]
L751	ELESN101KA	CHOKECOIL	[M]
L791	SLQZ650MH9	ACLINECOIL	[M]
L901	RLQB101KTA-Y	CHOKECOIL	[M]
L902	RLQZP101KT-Y	AXIALCOIL	[M]
L1051	ELESN101KA	CHOKECOIL	[M]
T701	RTP1NEB025-X	POWERTRANSFORMER	[M]
T751	RTP1EE006	TRANSFORMER(SMALL)	[M]
		COMPONENT COMBINATION	
Z101	RLA2Z002M-T	AMANT.COIL	[M]
Z102	RLIZZ006M-T	AMIFT	[M]
Z120	ENV17290G1R	FMTUNERPACK	[M]E,G
Z120	ENV17290G1Y	FMTUNERPACK	[M]EB E
Z751	ERZV10V511CS	ZNR	[M]
Z891	RCDSPS4242N	REMOTESENSOR	[M]
		CERAMICFILTERS	
CF201	RLFFETNGD01L	CERAMICFILTER	[M]
CF202	RLFFETMGD01L	CERAMICFILTER	[M]
CF901	RVBCST4R00MT	CERAMICOSCILLATOR	[M]
CF902	RSXZ456KM07M	CERAMICOSCILLATOR	[M]
CF1051	ERUEC8004T4	CERAMICOSCILLATOR	[M]
		OSCILLATORS	
X101	RSXZ456KM07M	CERAMICOSCILLATOR	[M]
X102	RLFDGTD011	FMREZONATOR	[M]
X103	SVQ49U722TS	CERAMIC7.2MHz	[M]
		DISPLAYTUBE	
FL901	RSL0233-F	FL	[M]
		EARTHTERMINALS	
E401	SNE1004-2	EARTHTERMINAL	[M]
E801	SNE1004-2	EARTHTERMINAL	[M]
		FUSES	
F1	XBA2C20TB0	FUSE	[M]
F3	XBA2C50TB0	FUSE	[M]

Ref No.	Part No.	Part Name & Description	Remarks
F4	XBA2C50TB0	FUSE ⚠	[M]
		FUSECLIPS	
FC701EY	F52BC	FUSEHOLDER	[M]
FC702EY	F52BC	FUSEHOLDER	[M]
FC703EY	F52BC	FUSEHOLDER	[M]
FC704EY	F52BC	FUSEHOLDER	[M]
FC705EY	F52BC	FUSEHOLDER	[M]
FC706EY	F52BC	FUSEHOLDER	[M]
		RELAYS	
RL601	RSY0013M0	RELAY	[M]
RL602	RSY0013M0	RELAY	[M]
RL751	RSY0019M0	12VTV-5RELAY ⚠	[M]
		JACKS	
JK101	RJH4202	JK,ANTTERMINAL	[M]
JK351	SJF3089-3N	JK,RCAPIN	[M]
JK401	SJF3088-7N	JK,RCATERMINAL	[M]

Ref No.	Part No.	Part Name & Description	Remarks
JK402	SJF3089N	JK,LINE IN	[M]
JK403	SJF3089N	JK,LINE IN	[M]
JK404	SJF3089N	JK,LINE IN	[M]
JK405	SJFD7	JK,FMMULTIOUT	[M]
JK601	RJH6601	JK,SPTERMINAL	[M]
JK602	RJR0054	JK,SPTERMINAL	[M]
JK794	SJS9231-1B	JK,AC IN ⚠	[M]
		HEADPHONE	
HP601	RJU63TS01	HEADPHONEJACK	[M]
		PACKINGMATERIALS	
P1	RPG3462	PACKINGCASE	[M]E
P2	RPFX0005	MIRAMATBAG	[M]
P3	RPND865	POLYFOAM	[M]
		ACCESSORIES	
A1	EUR644377	REMOTECONTROL	[M]
A1-1	UR64EC1822-3	REMOTECONTROLCOVER	[M]

Ref No.	Part No.	Part Name & Description	Remarks
A2	RJA0019-2K	AC CORD (SF) ⚠	[M]EGE
A2	VJA0733	AC CORD (SF) ⚠	[M]EB
A3	RFKSEX310EK	INSTR.MANUALASSY	[M]E
A3	RFKSEX310EBK	INSTR.MANUALASSY	[M]EB
A3	RFKSEX310EGK	INSTR.MANUALASSY	[M]EG
A4	RSA0007	FMANTENA	[M]
A5	RSA0010	LOOPANTUNIT	[M]
A6	SJP9009	ANTADAPTER	[M]EB
A7	SPSD152	ACCESSORYBOX	[M]
A8	RPG3692	GIFTBOX	[M]EBEG
		WIRE	
W1	REE0814	WIRE	[M]
W2	REE0818	WIRE	[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 (µF) 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
	RESISTORS	
R103	ERDS2TJ101T	100 1/4W [M]
R104	ERDS2TJ102T	1K 1/4W [M]
R105	ERDS2TJ471T	470 1/4W [M]
R106	ERDS2TJ224T	220K 1/4W [M]
R107	ERDS2TJ471T	470 1/4W [M]
R110	ERDS2TJ102T	1K 1/4W [M]
R112	ERDS2TJ104T	100K 1/4W [M]
R113	ERDS2TJ103T	10K 1/4W [M]
R114	ERDS2TJ562T	5.6K 1/4W [M]
R115	ERDS2TJ561T	560 1/4W [M]
R116	ERDS2TJ102T	1K 1/4W [M]
R117	ERDS2TJ473T	47K 1/4W [M]
R118	ERDS2TJ562T	5.6K 1/4W [M]
R119	ERDS2TJ183T	18K 1/4W [M]
R120	ERDS2TJ473T	47K 1/4W [M]
R121	ERDS2TJ332T	3.3K 1/4W [M]
R122	ERDS2TJ272T	2.7K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R124	ERDS2TJ271T	270 1/4W [M]
R125	ERDS2TJ472T	4.7K 1/4W [M]
R126	ERDS2TJ472T	4.7K 1/4W [M]
R127	ERDS2TJ103T	10K 1/4W [M]
R128	ERDS2TJ820T	82 1/4W [M]
R129	ERDS2TJ473T	47K 1/4W [M]
R130	ERDS2TJ102T	1K 1/4W [M]
R131	ERDS2TJ102T	1K 1/4W [M]
R132	ERDS2TJ103T	10K 1/4W [M]
R133	ERDS2TJ102T	1K 1/4W [M]
R134	ERDS2TJ102T	1K 1/4W [M]
R135	ERDS2TJ102T	1K 1/4W [M]
R136	ERDS2TJ102T	1K 1/4W [M]
R137	ERDS2TJ102T	1K 1/4W [M]
R139	ERDS2TJ272T	2.7K 1/4W [M]
R140	ERDS2TJ272T	2.7K 1/4W [M]
R141	ERDS2TJ102T	1K 1/4W [M]
R142	ERDS2TJ102T	1K 1/4W [M]
R143	ERDS2TJ222T	2.2K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R144	ERDS2TJ222T	2.2K 1/4W [M]
R145	ERDS2TJ102T *(EB,E)*	1K 1/4W [M]
R145	ERDS2TJ561T *(EG)*	560 1/4W [M]
R146	ERDS2TJ102T *(EB,E)*	1K 1/4W [M]
R146	ERDS2TJ561T *(EG)*	560 1/4W [M]
R147	ERDS2TJ474T	470K 1/4W [M]
R148	ERDS2TJ474T	470K 1/4W [M]
R149	ERDS2TJ680T	68 1/4W [M]
R171	ERDS2TJ102T	1K 1/4W [M]
R172	ERDS2TJ102T	1K 1/4W [M]
R173	ERDS2TJ471T	470 1/4W [M]
R175	ERDS2TJ102T	1K 1/4W [M]
R176	ERDS2TJ391T	390 1/4W [M]
R181	ERDS2TJ332T	3.3K 1/4W [M]
R301	ERDS2TJ750T	75 1/4W [M]
R302	ERDS2TJ750T	75 1/4W [M]
R359	ERDS2TJ750T	75 1/4W [M]
R362	ERDS2TJ750T	75 1/4W [M]
R367	ERDS2TJ102T	1K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R368	ERDS2TJ102T	1K 1/4W [M]
R369	ERDS2TJ182T	1.8K 1/4W [M]
R370	ERDS2TJ182T	1.8K 1/4W [M]
R371	ERD2FCVG220T	22 1/4W [M]
R372	ERD2FCVG220T	22 1/4W [M]
R373	ERDS2TJ103T	10K 1/4W [M]
R374	ERDS2TJ103T	10K 1/4W [M]
R401	ERDS2TJ102T	1K 1/4W [M]
R402	ERDS2TJ102T	1K 1/4W [M]
R405	ERDS2TJ102T	1K 1/4W [M]
R406	ERDS2TJ102T	1K 1/4W [M]
R407	ERDS2TJ102T	1K 1/4W [M]
R408	ERDS2TJ102T	1K 1/4W [M]
R409	ERDS2TJ102T	1K 1/4W [M]
R410	ERDS2TJ102T	1K 1/4W [M]
R411	ERDS2TJ102T	1K 1/4W [M]
R412	ERDS2TJ102T	1K 1/4W [M]
R413	ERDS2TJ102T	1K 1/4W [M]
R414	ERDS2TJ102T	1K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R415	ERDS2TJ102T	1K 1/4W [M]
R416	ERDS2TJ102T	1K 1/4W [M]
R417	ERDS2TJ473T	47K 1/4W [M]
R418	ERDS2TJ473T	47K 1/4W [M]
R419	ERDS2TJ104T	100K 1/4W [M]
R420	ERDS2TJ104T	100K 1/4W [M]
R421	ERDS2TJ104T	100K 1/4W [M]
R422	ERDS2TJ104T	100K 1/4W [M]
R423	ERDS2TJ102T	1K 1/4W [M]
R424	ERDS2TJ102T	1K 1/4W [M]
R425	ERDS2TJ103T	10K 1/4W [M]
R426	ERDS2TJ103T	10K 1/4W [M]
R427	ERDS2TJ103T	10K 1/4W [M]
R440	ERDS1FVJ820T ⚠	82 1/2W [M]
R441	ERDS2TJ473T	47K 1/4W [M]
R442	ERDS2TJ473T	47K 1/4W [M]
R443	ERDS2TJ330T	33 1/4W [M]
R451	ERDS2TJ224T	220K 1/4W [M]
R452	ERDS2TJ224T	220K 1/4W [M]
R453	ERDS2TJ391T	390 1/4W [M]
R454	ERDS2TJ391T	390 1/4W [M]
R455	ERDS2TJ563T	56K 1/4W [M]
R456	ERDS2TJ563T	56K 1/4W [M]
R457	ERDS2TJ271T	270 1/4W [M]
R458	ERDS2TJ271T	270 1/4W [M]
R459	ERDS2TJ680T	68 1/4W [M]
R460	ERDS2TJ680T	68 1/4W [M]
R461	ERDS2TJ184T	180K 1/4W [M]
R462	ERDS2TJ184T	180K 1/4W [M]
R463	ERDS2TJ123T	12K 1/4W [M]
R464	ERDS2TJ123T	12K 1/4W [M]
R465	ERDS2TJ563T	56K 1/4W [M]
R466	ERDS2TJ563T	56K 1/4W [M]
R467	ERDS2TJ102T	1K 1/4W [M]
R468	ERDS2TJ102T	1K 1/4W [M]
R469	ERDS2TJ102T	1K 1/4W [M]
R470	ERDS2TJ102T	1K 1/4W [M]
R501	ERDS2TJ222T	2.2K 1/4W [M]
R502	ERDS2TJ222T	2.2K 1/4W [M]
R503	ERDS2TJ103T	10K 1/4W [M]
R504	ERDS2TJ103T	10K 1/4W [M]
R505	ERDS2TJ103T	10K 1/4W [M]
R506	ERDS2TJ103T	10K 1/4W [M]
R508	ERDS1FVJ2R2T ⚠	2.2 1/2W [M]
R511	ERDS2TJ471T	470 1/4W [M]
R512	ERDS2TJ471T	470 1/4W [M]
R513	ERDS2TJ474T	470K 1/4W [M]
R514	ERDS2TJ474T	470K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R515	ERDS2TJ474T	470K 1/4W [M]
R516	ERDS2TJ474T	470K 1/4W [M]
R517	ERDS2TJ332T	3.3K 1/4W [M]
R518	ERDS2TJ332T	3.3K 1/4W [M]
R519	ERDS2TJ222T	2.2K 1/4W [M]
R520	ERDS2TJ222T	2.2K 1/4W [M]
R521	ERDS2TJ223T	22K 1/4W [M]
R522	ERDS2TJ223T	22K 1/4W [M]
R523	ERDS2TJ392T	3.9K 1/4W [M]
R524	ERDS2TJ392T	3.9K 1/4W [M]
R525	ERDS2TJ222T	2.2K 1/4W [M]
R526	ERDS2TJ222T	2.2K 1/4W [M]
R527	ERDS2TJ122T	1.2K 1/4W [M]
R528	ERDS2TJ122T	1.2K 1/4W [M]
R529	ERDS2TJ273T	27K 1/4W [M]
R530	ERDS2TJ273T	27K 1/4W [M]
R531	ERDS2TJ332T	3.3K 1/4W [M]
R532	ERDS2TJ332T	3.3K 1/4W [M]
R533	ERDS2TJ103T	10K 1/4W [M]
R534	ERDS2TJ103T	10K 1/4W [M]
R543	ERDS2TJ102T	1K 1/4W [M]
R544	ERDS2TJ102T	1K 1/4W [M]
R545	ERDS2TJ684T	680K 1/4W [M]
R546	ERDS2TJ103T	10K 1/4W [M]
R551	ERDS2TJ102T	1K 1/4W [M]
R552	ERDS2TJ102T	1K 1/4W [M]
R553	ERDS2TJ104T	100K 1/4W [M]
R554	ERDS2TJ104T	100K 1/4W [M]
R555	ERDS2TJ223T	22K 1/4W [M]
R556	ERDS2TJ223T	22K 1/4W [M]
R557	ERDS2TJ681T	680 1/4W [M]
R558	ERDS2TJ102T	1K 1/4W [M]
R561	ERDS2TJ332T	3.3K 1/4W [M]
R562	ERDS2TJ332T	3.3K 1/4W [M]
R563	ERDS2TJ104T	100K 1/4W [M]
R564	ERDS2TJ104T	100K 1/4W [M]
R565	ERDS2TJ102T	1K 1/4W [M]
R566	ERDS2TJ102T	1K 1/4W [M]
R567	ERDS2TJ101T	100 1/4W [M]
R568	ERDS2TJ101T	100 1/4W [M]
R569	ERDS2TJ332T	3.3K 1/4W [M]
R601	ERDS2TJ102T	1K 1/4W [M]
R602	ERDS2TJ102T	1K 1/4W [M]
R603	ERDS2TJ102T	1K 1/4W [M]
R604	ERDS2TJ102T	1K 1/4W [M]
R605	ERDS2TJ392T	3.9K 1/4W [M]
R606	ERDS2TJ392T	3.9K 1/4W [M]
R607	ERDS2TJ223T	22K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R608	ERDS2TJ223T	22K 1/4W [M]
R609	ERDS2TJ222T	2.2K 1/4W [M]
R610	ERDS2TJ222T	2.2K 1/4W [M]
R611	ERDS2TJ222T	2.2K 1/4W [M]
R612	ERDS2TJ222T	2.2K 1/4W [M]
R613	ERDS2TJ182T	1.8K 1/4W [M]
R614	ERDS2TJ182T	1.8K 1/4W [M]
R615	ERDS2TJ182T	1.8K 1/4W [M]
R616	ERDS2TJ182T	1.8K 1/4W [M]
R617	ERDS2TJ563T	56K 1/4W [M]
R618	ERDS2TJ563T	56K 1/4W [M]
R619	ERDS2TJ563T	56K 1/4W [M]
R620	ERDS2TJ563T	56K 1/4W [M]
R621	ERDS2TJ470T	47 1/4W [M]
R622	ERDS2TJ470T	47 1/4W [M]
R623	ERDS2TJ470T	47 1/4W [M]
R624	ERDS2TJ470T	47 1/4W [M]
R625	ERDS1FVJ100T ⚠	10 1/2W [M]
R626	ERDS1FVJ100T ⚠	10 1/2W [M]
R627	ERDS1FVJ100T ⚠	10 1/2W [M]
R628	ERDS1FVJ100T ⚠	10 1/2W [M]
R629	ERDS2TJ104T	100K 1/4W [M]
R630	ERDS2TJ124T	120K 1/4W [M]
R631	ERDS2TJ154T	150K 1/4W [M]
R632	ERDS2TJ184T	180K 1/4W [M]
R633	ERDS2TJ473T	47K 1/4W [M]
R634	ERDS2TJ684T	680K 1/4W [M]
R635	ERDS2TJ154T	150K 1/4W [M]
R636	ERDS2TJ684T	680K 1/4W [M]
R637	ERDS2TJ104T	100K 1/4W [M]
R638	ERDS2TJ563T	56K 1/4W [M]
R639	ERDS2TJ273T	27K 1/4W [M]
R640	ERDS2TJ473T	47K 1/4W [M]
R641	ERDS2TJ221T	220 1/4W [M]
R642	ERDS2TJ221T	220 1/4W [M]
R643	ERDS2TJ221T	220 1/4W [M]
R644	ERDS2TJ221T	220 1/4W [M]
R645	ERG1SJ101E ⚠	100 1W [M]
R646	ERG1SJ101E ⚠	100 1W [M]
R647	ERG1SJ101E ⚠	100 1W [M]
R648	ERG1SJ101E ⚠	100 1W [M]
R649	ERD2FCJG220T	22 1/4W [M]
R650	ERD2FCJG220T	22 1/4W [M]
R652	ERD25FJ4R7T	4.7 1/4W [M]
R653	ERDS2TJ682T	6.8K 1/4W [M]
R654	ERDS2TJ682T	6.8K 1/4W [M]
R655	ERDS2TJ681T	680 1/4W [M]
R657	ERDS2TJ333T	33K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R658	ERDS2TJ333T	33K 1/4W [M]
R659	ERDS2TJ183T	18K 1/4W [M]
R660	ERDS2TJ224T	220K 1/4W [M]
R661	ERDS2TJ102T	1K 1/4W [M]
R662	ERDS2TJ102T	1K 1/4W [M]
R663	ERDS2TJ102T	1K 1/4W [M]
R665	ERDS2TJ472T	4.7K 1/4W [M]
R666	ERDS2TJ472T	4.7K 1/4W [M]
R681	ERDS2TJ270T	27 1/4W [M]
R682	ERDS2TJ270T	27 1/4W [M]
R683	ERDS2TJ270T	27 1/4W [M]
R684	ERDS2TJ270T	27 1/4W [M]
R685	ERDS2TJ270T	27 1/4W [M]
R686	ERDS2TJ270T	27 1/4W [M]
R687	ERDS2TJ270T	27 1/4W [M]
R688	ERDS2TJ270T	27 1/4W [M]
R689	ERDS2TJ270T	27 1/4W [M]
R690	ERDS2TJ270T	27 1/4W [M]
R691	ERDS2TJ270T	27 1/4W [M]
R692	ERDS2TJ270T	27 1/4W [M]
R693	ERDS2TJ270T	27 1/4W [M]
R694	ERDS2TJ270T	27 1/4W [M]
R695	ERDS2TJ102T	1K 1/4W [M]
R696	ERDS2TJ102T	1K 1/4W [M]
R699	ERDS2TJ332T	3.3K 1/4W [M]
R703	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R704	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R705	ERDS2TJ472T	4.7K 1/4W [M]
R706	ERDS2TJ102T	1K 1/4W [M]
R707	ERD25FVJ221T	220 1/4W [M]
R708	ERDS2TJ152T	1.5K 1/4W [M]
R709	ERDS2TJ1R5T	1.5 1/4W [M]
R710	ERDS2TJ1R5T	1.5 1/4W [M]
R711	ERDS2TJ752T	7.5K 1/4W [M]
R712	ERDS2TJ682T	6.8K 1/4W [M]
R713	ERDS2TJ390T	39 1/4W [M]
R714	ERDS2TJ390T	39 1/4W [M]
R721	ERD2FCJG151T	150 1/4W [M]
R722	ERDS2TJ392T	3.9K 1/4W [M]
R723	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R724	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R725	ERDS2TJ102T	1K 1/4W [M]
R731	ERD2FCJG220T	22 1/4W [M]
R732	ERDS2TJ153T	15K 1/4W [M]
R733	ERDS2TJ123T	12K 1/4W [M]
R734	ERDS2TJ562T	5.6K 1/4W [M]
R735	ERDS2TJ103T	10K 1/4W [M]
R739	ERD2FCJG220T	22 1/4W [M]

Ref No.	Part No.	Values & Remarks
R740	ERDS2TJ393T	39K 1/4W [M]
R742	ERDS2TJ393T	39K 1/4W [M]
R743	ERDS2TJ183T	18K 1/4W [M]
R754	ERDS2TJ102T	1K 1/4W [M]
R771	ERDS2TJ473T	47K 1/4W [M]
R772	ERDS2TJ473T	47K 1/4W [M]
R773	ERDS2TJ103T	10K 1/4W [M]
R774	ERDS2TJ335T	3.3M 1/4W [M]
R775	ERDS2TJ331T	330 1/4W [M]
R776	ERD25FVJ4R7T	4.7 1/4W [M]
R777	ERDS2TJ224T	220K 1/4W [M]
R778	ERDS2TJ472T	4.7K 1/4W [M]
R779	ERDS2TJ103T	10K 1/4W [M]
R782	ERDS2TJ470T	47 1/4W [M]
R783	ERDS2TJ103T	10K 1/4W [M]
R784	ERDS2TJ154T	150K 1/4W [M]
R785	ERDS2TJ103T	10K 1/4W [M]
R786	ERDS2TJ154T	150K 1/4W [M]
R787	ERDS2TJ223T	22K 1/4W [M]
R788	ERDS2TJ223T	22K 1/4W [M]
R789	ERDS2TJ223T	22K 1/4W [M]
R790	ERDS2TJ223T	22K 1/4W [M]
R793	ERDS2TJ682T	6.8K 1/4W [M]
R794	ERDS2TJ682T	6.8K 1/4W [M]
R801	ERDS2TJ102T	1K 1/4W [M]
R806	ERDS2TJ182T	1.8K 1/4W [M]
R807	ERDS2TJ104T	100K 1/4W [M]
R808	ERDS2TJ104T	100K 1/4W [M]
R809	ERDS2TJ104T	100K 1/4W [M]
R810	ERDS2TJ102T	1K 1/4W [M]
R811	ERDS2TJ104T	100K 1/4W [M]
R817	ERDS2TJ103T	10K 1/4W [M]
R820	ERDS2TJ271T	270 1/4W [M]
R821	ERDS2TJ121T	120 1/4W [M]
R822	ERDS2TJ472T	4.7K 1/4W [M]
R824	ERDS2TJ333T	33K 1/4W [M]
R827	ERDS2TJ181T	180 1/4W [M]
R829	ERDS2TJ101T	100 1/4W [M]
R830	ERDS2TJ101T	100 1/4W [M]
R836	ERDS2TJ104T	100K 1/4W [M]
R837	ERDS2TJ104T	100K 1/4W [M]
R841	ERDS2TJ472T	4.7K 1/4W [M]
R843	ERDS2TJ102T	1K 1/4W [M]
R844	ERDS2TJ104T	100K 1/4W [M]
R845	ERDS2TJ104T	100K 1/4W [M]
R846	ERDS2TJ103T	10K 1/4W [M]
R847	ERDS2TJ103T	10K 1/4W [M]
R848	ERDS2TJ103T	10K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R849	ERDS2TJ103T	10K 1/4W [M]
R850	ERDS2TJ102T	1K 1/4W [M]
R851	ERDS2TJ122T	1.2K 1/4W [M]
R852	ERDS2TJ152T	1.5K 1/4W [M]
R853	ERDS2TJ182T	1.8K 1/4W [M]
R854	ERDS2TJ222T	2.2K 1/4W [M]
R855	ERDS2TJ332T	3.3K 1/4W [M]
R856	ERDS2TJ472T	4.7K 1/4W [M]
R857	ERDS2TJ682T	6.8K 1/4W [M]
R860	ERDS2TJ102T	1K 1/4W [M]
R861	ERDS2TJ122T	1.2K 1/4W [M]
R862	ERDS2TJ152T	1.5K 1/4W [M]
R863	ERDS2TJ182T	1.8K 1/4W [M]
R864	ERDS2TJ222T	2.2K 1/4W [M]
R870	ERDS2TJ102T	1K 1/4W [M]
R871	ERDS2TJ122T	1.2K 1/4W [M]
R872	ERDS2TJ152T	1.5K 1/4W [M]
R873	ERDS2TJ182T	1.8K 1/4W [M]
R874	ERDS2TJ222T	2.2K 1/4W [M]
R880	ERDS2TJ102T	1K 1/4W [M]
R881	ERDS2TJ122T	1.2K 1/4W [M]
R882	ERDS2TJ152T	1.5K 1/4W [M]
R883	ERDS2TJ182T	1.8K 1/4W [M]
R885	ERDS2TJ222T	2.2K 1/4W [M]
R1001	ERDS2TJ223T	22K 1/4W [M]
R1002	ERDS2TJ223T	22K 1/4W [M]
R1003	ERDS2TJ102T	1K 1/4W [M]
R1004	ERDS2TJ102T	1K 1/4W [M]
R1005	ERDS2TJ203T	20K 1/4W [M]
R1007	ERDS2TJ473T	47K 1/4W [M]
R1008	ERDS2TJ473T	47K 1/4W [M]
R1009	ERDS2TJ332T	3.3K 1/4W [M]
R1010	ERDS2TJ332T	3.3K 1/4W [M]
R1011	ERDS2TJ332T	3.3K 1/4W [M]
R1012	ERDS2TJ102T	1K 1/4W [M]
R1016	ERD2FCVJ6R8T	6.8 1/4W [M]
R1051	ERDS2TJ393T	39K 1/4W [M]
R1052	ERDS2TJ105T	1M 1/4W [M]
R1053	ERDS2TJ102T	1K 1/4W [M]
R1055	ERDS2TJ473T	47K 1/4W [M]
R1056	ERDS2TJ473T	47K 1/4W [M]
R1061	ERDS2TJ222T	2.2K 1/4W [M]

Ref No.	Part No.	Values & Remarks
	CAPACITORS	
C101	ECBT1C103NS5	0.01 16V [M]
C103	ECBT1C103NS5	0.01 16V [M]
C104	ECBT1H102KB5	1000P 50V [M]
C105	ECBT1H470J5	47P 50V [M]
C106	ECBT1C103NS5	0.01 16V [M]
C107	ECBT1H473ZF5	0.047 50V [M]
C108	ECBT1H8R2KC5	8.2P 50V [M]
C109	ECBT1C103NS5	0.01 16V [M]
C110	ECBT1C103NS5	0.01 16V [M]
C111	ECEA1EKA4R7B	4.7 25V [M]
C112	ECBT1C103NS5	0.01 16V [M]
C113	ECBT1H102KB5	1000P 50V [M]
C114	ECEA1HKA3R3B	3.3 50V [M]
C115	ECEA1EKA4R7B	4.7 25V [M]
C116	ECBT1C822MS5	8200P 16V [M]
C117	ECQB1H471JF3	470P 50V [M]
C118	ECQB1H103JF3	0.01 50V [M]
C119	ECQB1H103JF3	0.01 50V [M]
C120	ECEA1HKA010B	1 50V [M]
C121	ECEA1HKA010B	1 50V [M]
C122	ECEA1HKA2R2B	2.2 50V [M]
C123	ECEA1HKA010B	1 50V [M]
C124	ECBT1H102KB5	1000P 50V [M]
C125	ECBT1H150JC5	15P 50V [M]
C126	ECBT1H104ZF5	0.1 50V [M]
C127	ECEA1CKA220B	22 16V [M]
C128	ECBT1C103NS5	0.01 16V [M]
C129	ECEA0JKA101B	100 6.3V [M]
C130	ECEA0JKA101B	100 6.3V [M]
C131	ECBT1C103NS5	0.01 16V [M]
C132	ECBT1H102KB5	1000P 50V [M]
C133	ECBT1H150JC5	15P 50V [M]
C134	ECBT1H180JC5	18P 50V [M]
C135	ECBT1C103MS5	0.01 16V [M]
C136	ECBT1C103MS5	0.01 16V [M]
C137	ECBT1H561KB5	560P 50V [M]
C138	ECBT1H561KB5	560P 50V [M]
C139	ECQB1H682JF3	6800P 50V [M]
C140	ECQB1H682JF3	6800P 50V [M]
C141	ECEA1HKA010B	1 50V [M]
C142	ECEA1HKA010B	1 50V [M]
C143	ECEA1HKA010B	1 50V [M]
C144	ECEA1HKA010B	1 50V [M]
C145	ECBT1H220JC5	22P 50V [M]
C146	ECBT1H331KB5	330P 50V [M]
C147	ECBT1H102KB5	1000P 50V [M]

Ref No.	Part No.	Values & Remarks
C148	ECBT1C103NS5	0.01 16V [M]
C149	ECBT1C103NS5	0.01 16V [M]
C150	ECBT1H104ZF5	0.1 50V [M]
C172	ECBT1H331KB5	330P 50V [M]
C173	ECEA1CKA220B	22 16V [M]
C174	ECEA1CKA101B	100 16V [M]
C175	ECBT1C103NS5	0.01 16V [M]
C176	ECBT1C103NS5	0.01 16V [M]
C181	ECBT1H471KB5	470P 50V [M]
C196	ECBT1H102KB5	1000P 50V [M]
C330	ECBT1H470J5	47P 50V [M]
C331	ECBT1H470J5	47P 50V [M]
C332	ECKR1H223KF5	0.022 50V [M]
C333	ECKR1H223KF5	0.022 50V [M]
C351	ECEA1CU101B	100 16V [M]
C352	ECEA1CU101B	100 16V [M]
C354	ECBT1E103ZF5	0.01 25V [M]
C355	ECBT1E103ZF5	0.01 25V [M]
C357	ECBT1E103ZF5	0.01 25V [M]
C358	ECBT1E103ZF5	0.01 25V [M]
C373	ECA1EM470B	47 25V [M]
C374	ECA1EM470B	47 25V [M]
C401	ECEA1VKA4R7B	4.7 35V [M]
C402	ECEA1VKA4R7B	4.7 35V [M]
C403	ECBT1E103ZF5	0.01 25V [M]
C404	ECBT1E103ZF5	0.01 25V [M]
C405	ECBT1H101KB5	100P 50V [M]
C406	ECBT1H101KB5	100P 50V [M]
C409	ECEA1CKA100B	10 16V [M]
C410	ECEA1CKA100B	10 16V [M]
C411	ECBT1H101KB5	100P 50V [M]
C412	ECBT1H101KB5	100P 50V [M]
C415	ECBT1E103ZF5	0.01 25V [M]
C416	ECBT1E103ZF5	0.01 25V [M]
C417	ECBT1H101KB5	100P 50V [M]
C418	ECBT1H101KB5	100P 50V [M]
C419	ECBT1H331KB5	330P 50V [M]
C420	ECBT1H331KB5	330P 50V [M]
C421	ECBT1H331KB5	330P 50V [M]
C422	ECBT1H331KB5	330P 50V [M]
C423	ECBT1H101KB5	100P 50V [M]
C424	ECBT1H101KB5	100P 50V [M]
C425	ECBT1H101KB5	100P 50V [M]
C426	ECBT1H101KB5	100P 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
C440	ECBT1E103ZF5	0.01 25V [M]
C451	ECEA1VKA4R7B	4.7 35V [M]
C452	ECEA1VKA4R7B	4.7 35V [M]
C453	ECBT1H100JC5	10P 50V [M]
C454	ECBT1H100JC5	10P 50V [M]
C455	ECBT1H102KB5	1000P 50V [M]
C456	ECBT1H102KB5	1000P 50V [M]
C457	ECA1CM330B	33 16V [M]
C458	ECA1CM330B	33 16V [M]
C459	ECFR1E223KR	0.022 25V [M]
C460	ECFR1E223KR	0.022 25V [M]
C461	ECBT1C682KR5	6800P 16V [M]
C462	ECBT1C682KR5	6800P 16V [M]
C463	ECEA1VKA4R7B	4.7 35V [M]
C464	ECEA1VKA4R7B	4.7 35V [M]
C465	ECBT1E103ZF5	0.01 25V [M]
C466	ECBT1E103ZF5	0.01 25V [M]
C469	ECBT1H181KB5	180P 50V [M]
C470	ECBT1H181KB5	180P 50V [M]
C503	ECEA0JKA101B	100 6.3V [M]
C504	ECEA0JKA101B	100 6.3V [M]
C505	ECFR1C104MR	0.1 16V [M]
C506	ECFR1C104MR	0.1 16V [M]
C511	ECEA1HKA3R3B	3.3 50V [M]
C512	ECEA1HKA3R3B	3.3 50V [M]
C513	ECBT1H150J5	15P 50V [M]
C514	ECBT1H150J5	15P 50V [M]
C515	ECBT1H221KB5	220P 50V [M]
C516	ECBT1H221KB5	220P 50V [M]
C517	ECBT1H330J5	33P 50V [M]
C518	ECBT1H330J5	33P 50V [M]
C519	ECEA1VKA4R7B	4.7 35V [M]
C520	ECEA1VKA4R7B	4.7 35V [M]
C521	ECEA1VKA4R7B	4.7 35V [M]
C522	ECEA1VKA4R7B	4.7 35V [M]
C523	ECFR1E123KR	0.012 25V [M]
C524	ECFR1E123KR	0.012 25V [M]
C525	ECQV1H683JM3	0.068 50V [M]
C526	ECQV1H683JM3	0.068 50V [M]
C527	ECBT1C562KR5	5600P 16V [M]
C528	ECBT1C562KR5	5600P 16V [M]
C529	ECQB1H273JF3	0.027 50V [M]
C530	ECQB1H273JF3	0.027 50V [M]
C531	ECBT1E103ZF5	0.01 25V [M]
C532	ECBT1E103ZF5	0.01 25V [M]
C533	ECEA1CKA220B	22 16V [M]
C534	ECEA1CKA220B	22 16V [M]
C536	ECBT1E103ZF5	0.01 25V [M]

Ref No.	Part No.	Values & Remarks
C551	ECEA1HKA3R3B	3.3 50V [M]
C552	ECEA1HKA3R3B	3.3 50V [M]
C553	ECBT1H101KB5	100P 50V [M]
C554	ECBT1H101KB5	100P 50V [M]
C555	ECBT1H221KB5	220P 50V [M]
C556	ECBT1H221KB5	220P 50V [M]
C557	ECBT1E103ZF5	0.01 25V [M]
C558	ECBT1E103ZF5	0.01 25V [M]
C559	ECEA1CKA100B	10 16V [M]
C560	ECEA1CKA100B	10 16V [M]
C561	ECA1HM3R3B	3.3 50V [M]
C562	ECA1HM3R3B	3.3 50V [M]
C563	ECBT1H104ZF5	0.1 50V [M]
C601	ECA1CM330B	33 16V [M]
C602	ECA1CM330B	33 16V [M]
C603	ECEA1VKA4R7B	4.7 35V [M]
C604	ECEA1VKA4R7B	4.7 35V [M]
C605	ECA1JM330B	33 6.3V [M]
C606	ECA1JM330B	33 6.3V [M]
C607	ECA1JM330B	33 6.3V [M]
C608	ECA1JM330B	33 6.3V [M]
C609	ECCR1H120KC5	12P 50V [M]
C610	ECCR1H120KC5	12P 50V [M]
C611	ECCR1H120KC5	12P 50V [M]
C612	ECCR1H120KC5	12P 50V [M]
C613	ECBT1H821KB5	820P 50V [M]
C614	ECBT1H821KB5	820P 50V [M]
C615	ECBT1H821KB5	820P 50V [M]
C616	ECBT1H821KB5	820P 50V [M]
C617	ECQV1H473JZ3	0.047 50V [M]
C618	ECQV1H473JZ3	0.047 50V [M]
C619	ECQV1H473JZ3	0.047 50V [M]
C620	ECQV1H473JZ3	0.047 50V [M]
C621	ECEA2AU100B	10 100V [M]
C622	ECEA1HN010SB	1 50V [M]
C623	ECA1HM470B	47 50V [M]
C624	ECEA2AN2R2SB	2.2 100V [M]
C625	ECEA1HN100SB	10 50V [M]
C626	ECEA1HN100SB	10 50V [M]
C627	ECKR1H223ZF5	0.022 50V [M]
C628	ECKR1H223ZF5	0.022 50V [M]
C629	ECKR1H223ZF5	0.022 50V [M]
C630	ECKR1H223ZF5	0.022 50V [M]
C631	ECKR1H223ZF5	0.022 50V [M]
C632	ECKR1H223ZF5	0.022 50V [M]
C635	ECEA1VKA4R7B	4.7 35V [M]
C636	ECEA1HN010SB	1 50V [M]
C637	ECBT1H102KB5	1000P 50V [M]

Ref No.	Part No.	Values & Remarks
C638	ECBT1H101KB5	100P 50V [M]
C639	ECBT1H102KB5	1000P 50V [M]
C640	ECKR1H223ZF5	0.022 50V [M]
C641	ECQV1H104JM3	0.1 50V [M]
C642	ECQV1H104JM3	0.1 50V [M]
C643	ECQV1H104JM3	0.1 50V [M]
C644	ECQV1H104JM3	0.1 50V [M]
C683	ECBT1C332KR5	3300P 16V [M]
C684	ECBT1C332KR5	3300P 16V [M]
C685	ECBT1E103ZF5	0.01 25V [M]
C701	ECBT1E103ZF5	0.01 25V [M]
C702	ECQE2104KF3	0.1 250V [M]
C703	ECOS1HP682BB	6800P 50V [M]
C704	ECOS1HP682BB	6800P 50V [M]
C705	ECOS1VP562BB	5600P 35V [M]
C706	ECOS1VP562BB	5600P 35V [M]
C707	ECA1VM101B	100 35V [M]
C708	ECKR1H103ZF5	0.01 50V [M]
C709	ECA1CM330B	33 16V [M]
C710	ECBT1E103ZF5	0.01 25V [M]
C711	ECKR1H103ZF5	0.01 50V [M]
C712	ECA1HM100B	10 50V [M]
C713	ECKR1H103ZF5	0.01 50V [M]
C714	ECA1EM470B	47 25V [M]
C715	ECEA1CU101B	100 16V [M]
C721	ECQE2104KF3	0.1 250V [M]
C731	ECKR1H103ZF5	0.01 50V [M]
C732	ECKR1H103ZF5	0.01 50V [M]
C751	ECKWRS102MBC ⚠	1000P 400V [M]
C752	ECKR1H103ZF5	0.01 50V [M]
C753	ECA1EM102EV ⚠	1000 25V [M]
C754	ECBT1E103ZF5	0.01 25V [M]
C755	ECA1CM470B	47 16V [M]
C757	ECA1CM100B	10 16V [M]
C771	ECEA1VKA4R7B	4.7 35V [M]
C772	ECEA1VKA4R7B	4.7 35V [M]
C773	ECBT1E223ZF5	0.022 25V [M]
C774	ECEA0JKA101B	100 6.3V [M]
C775	ECBT1E223ZF5	0.022 25V [M]
C901	ECA0JM102B ⚠	1000 6.3V [M]
C902	ECBT1E223ZF5	0.022 25V [M]
C903	ECBT1E103ZF5	0.01 25V [M]
C904	ECA0JM102B ⚠	1000 6.3V [M]
C906	ECEA0JKA101B	100 6.3V [M]
C908	ECBT1E103ZF5	0.01 25V [M]
C909	ECEA1HKA220B	22 50V [M]
C910	ECEA1HKA220B	22 50V [M]
C911	ECEA1HKA220B	22 50V [M]

Ref No.	Part No.	Values & Remarks
C912	ECEA1HKA220B	22 50V [M]
C913	ECEA1VKA100B	10 35V [M]
C914	ECEA1VKA100B	10 35V [M]
C916	ECEA1HKA010B	1 50V [M]
C917	ECEA1HKAR47B	0.47 50V [M]
C918	ECEA0JKA221B	220 6.3V [M]
C920	ECEA1HKA010B	1 50V [M]
C932	ECBT1H101KB5	100P 50V [M]
C939	ECBT1H101KB5	100P 50V [M]
C941	ECBT1E103ZF5	0.01 25V [M]
C952	ECBT1H101KB5	100P 50V [M]
C953	ECBT1H101KB5	100P 50V [M]
C956	ECBT1H101KB5	100P 50V [M]
C961	ECBT1H101KB5	100P 50V [M]
C1001	ECEA1HJ010B	1 50V [M]
C1002	ECEA1HJ010B	1 50V [M]
C1003	ECA1HM3R3B	3.3 50V [M]
C1004	ECA1HM3R3B	3.3 50V [M]
C1005	ECEA1HJ010B	1 50V [M]
C1007	ECFR1E223KR	0.022 25V [M]
C1008	ECFR1E473KR	0.047 25V [M]
C1009	ECEA0JJ221B	220 6.3V [M]
C1010	ECEA1CKA100B	10 16V [M]
C1011	ECEA1CKA100B	10 16V [M]
C1012	ECEA1CKA100B	10 16V [M]
C1013	ECEA1CKA100B	10 16V [M]
C1014	ECEA0JJ221B	220 6.3V [M]
C1015	ECQV1H104JM3	0.1 50V [M]
C1016	ECQV1H104JM3	0.1 50V [M]
C1017	ECA1HMR47B	0.47 50V [M]
C1018	ECEA1VKA4R7B	4.7 35V [M]
C1019	ECA1HMR47B	0.47 50V [M]
C1020	ECEA1VKA4R7B	4.7 35V [M]
C1021	ECEA1HKAR15B	0.15 50V [M]
C1022	ECA1HM3R3B	3.3 50V [M]
C1023	ECQV1H154JZ3	0.15 50V [M]
C1024	ECQV1H154JZ3	0.15 50V [M]
C1025	ECA1HM3R3B	3.3 50V [M]
C1026	ECEA1HKAR15B	0.15 50V [M]
C1027	ECEA1VKA4R7B	4.7 35V [M]
C1028	ECA1HMR47B	0.47 50V [M]
C1029	ECEA1VKA4R7B	4.7 35V [M]
C1030	ECA1HMR47B	0.47 50V [M]
C1031	ECQV1H104JM3	0.1 50V [M]
C1032	ECQV1H104JM3	0.1 50V [M]
C1033	ECA1EM470B	47 25V [M]
C1034	ECQV1H474JM3	0.47 50V [M]
C1035	ECBT1H681KB5	680P 50V [M]

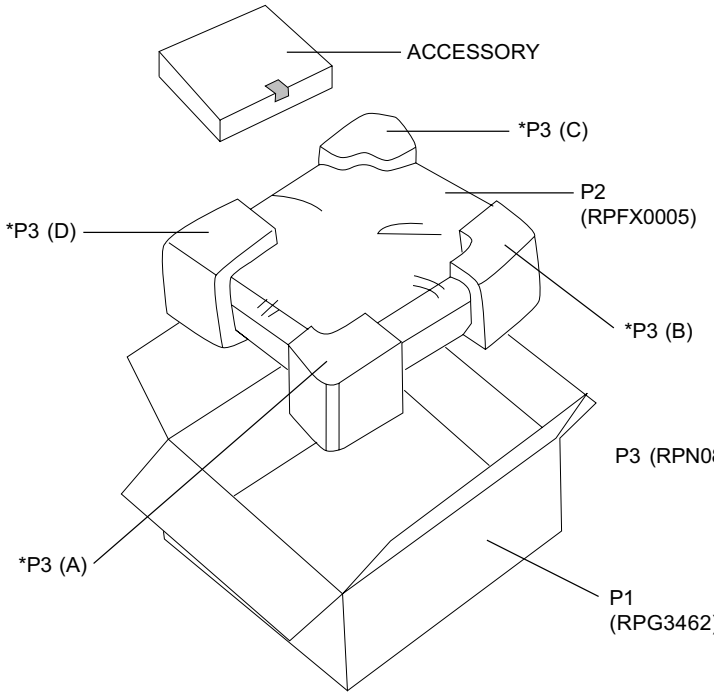
Ref No.	Part No.	Values & Remarks
C1036	ECBT1H101KB5	100P 50V [M]
C1037	ECBT1H101KB5	100P 50V [M]
C1038	ECBT1H101KB5	100P 50V [M]
C1039	ECEA1CU101B	100 16V [M]
C1040	ECEA1CKA100B	10 16V [M]
C1041	ECBT1E103ZF5	0.01 25V [M]
C1051	ECA1HM2R2B	2.2 50V [M]
C1052	ECA1HMR33B	0.33 50V [M]
C1053	ECA1HM3R3B	3.3 50V [M]

Ref No.	Part No.	Values & Remarks
C1054	ECEA0JU221B	220 6.3V [M]
C1055	ECA1HMR47B	0.47 50V [M]
C1056	ECQV1H823JZ3	0.082 50V [M]
C1057	ECBT1C332KR5	3300P 16V [M]
C1058	ECQV1H823JZ3	0.082 50V [M]
C1059	ECEA1CU101B	100 16V [M]
C1060	ECBT1E223ZF5	0.022 25V [M]
C1062	ECBT1E223ZF5	0.022 25V [M]
C1063	ECEA1CU101B	100 16V [M]

Ref No.	Part No.	Values & Remarks
C1065	ECBT1H681KB5	680P 50V [M]
C1067	ECBT1C152KR5	1500P 16V [M]
C1068	ECBT1C152KR5	1500P 16V [M]

Ref No.	Part No.	Values & Remarks

■ 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

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