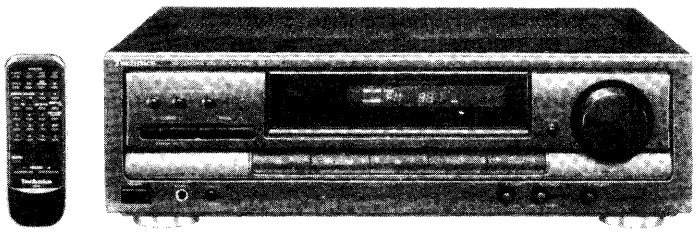
ORDER NO. MD9704035C1
A2

Service Manual

AV Control Stereo Receiver

Receiver

SA-EX110



Colour

(K) . . . . . Black Type

Area

Suffix for Model No.	Area	Colour
(P)	U.S.A.	(K)
(PC)	Canada	

■ Specifications

■ FM Tuner Section

Frequency range	87.9 — 107.9MHz
Sensitivity	11.2dBf (2μV, IHF '58)
50dB quieting Sensitivity	
MONO	18.3dBf (4.5μV, IHF '58)
STEREO	38.3dBf (45μV, IHF '58)
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	75dB
STEREO	70dB
Frequency response	20Hz — 15 kHz (+1dB, –2dB)
Alternate channel selectivity	65dB
Capture ratio	1dB
Image rejection at 98MHz	44dB
IF rejection at 98MHz	80dB
Spurious response rejection at 98MHz	75dB
AM suppression	50dB
Stereo separation	
1 kHz	40dB
10kHz	30dB
Carrier leak	
19kHz	-35dB
38kHz	-50dB
Antenna terminal(s)	75Ω (unbalanced)

■ AM Tuner Section

Frequency range	530 — 1710kHz
Sensitivty	20μV, 330μV/m
Selectivity	55dB
Image rejection at 1000kHz	40 dB
IF rejection at 1000kHz	60dB

■ Amplifier Section

Rated minimum sine wave RMS power output	
40 Hz–20 kHz both channels driven	
0.8% total hamonic distortion	100W per channel (8Ω)
1 kHz continuous power output,	
both channels driven 0.8% total	
hamonic distortion	103W per channel (8Ω)
Total harmonic distortion	
Rate power at 40 Hz – 20kHz	0.8% (8Ω)
Half power at 1 kHz	0.07% (8Ω)
Dynamic headroom	2dB (8Ω)
SMPTE intermodulation distortion	0.3% (8Ω)
Low frequency damping factor	30 (8Ω)
Low impedance	8Ω
Frequency response	
PHONO	RIAA standard curve ± 0.8dB
CD, VCR, TV, TAPE	10Hz – 70kHz, ± 3dB
Input sensitivity	
PHONO	0.4mV (3mV, IHF '66)
CD, VCR, TV, TAPE	27mV (200mV, IHF '66)
S/N (IHF A)	
PHONO	70dB (78dB, IHF '66)
CD, VCR, TV, TAPE	75dB (83dB, IHF '66)
Input impedance	
PHONO	47kΩ
CD, VCR, TV, TAPE	22kΩ
Tone control	
BRASS	50Hz, +10 to -10dB
TREBLE	20kHz, +10 to -10dB

■ General

Power consumption	155W (standby condition : 2W)
Power supply	AC 120V, 60Hz
Dimensions (W x H x D)	430 x 136 x 309mm ($16^{15}/_{16}$" x $5^{11}/_{32}$" x $12^{5}/_{32}$")
Weight	6.4 kg (14.1 lb.)

Notes :

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

Technics®

⚠ 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.

■ Contents

■ Safety Precautions (This "Safety Precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock .
2. When replacing parts, use only manufacturer's recommended components for safety .
3. Check the condition of the power cord. Replace if wear or damage is evident .
4. After servicing ,be sure to restore the lead dress, insulation barriers ,insulation papers ,shields ,etc .
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard .

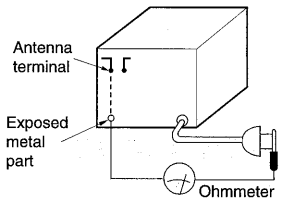


Fig. 1

Resistance = 3MΩ – 5.2MΩ

• Insulation Resistance Test

1. Unplug the power cord and short the two prongs of the plug with a jumper wire .
2. Turn on the power switch .
3. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part ,such as screwheads, antenna ,control shafts ,handle brackets , etc . Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts* .(Fig. 1) Equipment without antenna terminals should read approximately infinity to all exposed parts . (Fig. 2)
   *Note :Some exposed parts may be isolated from the chassis by design. These will read infinity .
4. If the measurement is outside the specified limits ,there is a possibility of a shock hazard .The equipment should be repaired and rechecked before it is returned to the customer .

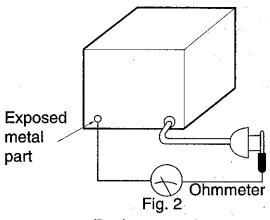


Fig. 2

Resistance = Approx ∞

■Before Repair and Adjustment

Disconnect AC power, discharge four Power Supply Capacitors (C703 to C706) through a 10Ω , 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at 120V, 50 Hz in NO SIGNAL mode should be less than 1000mA.

■ 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.

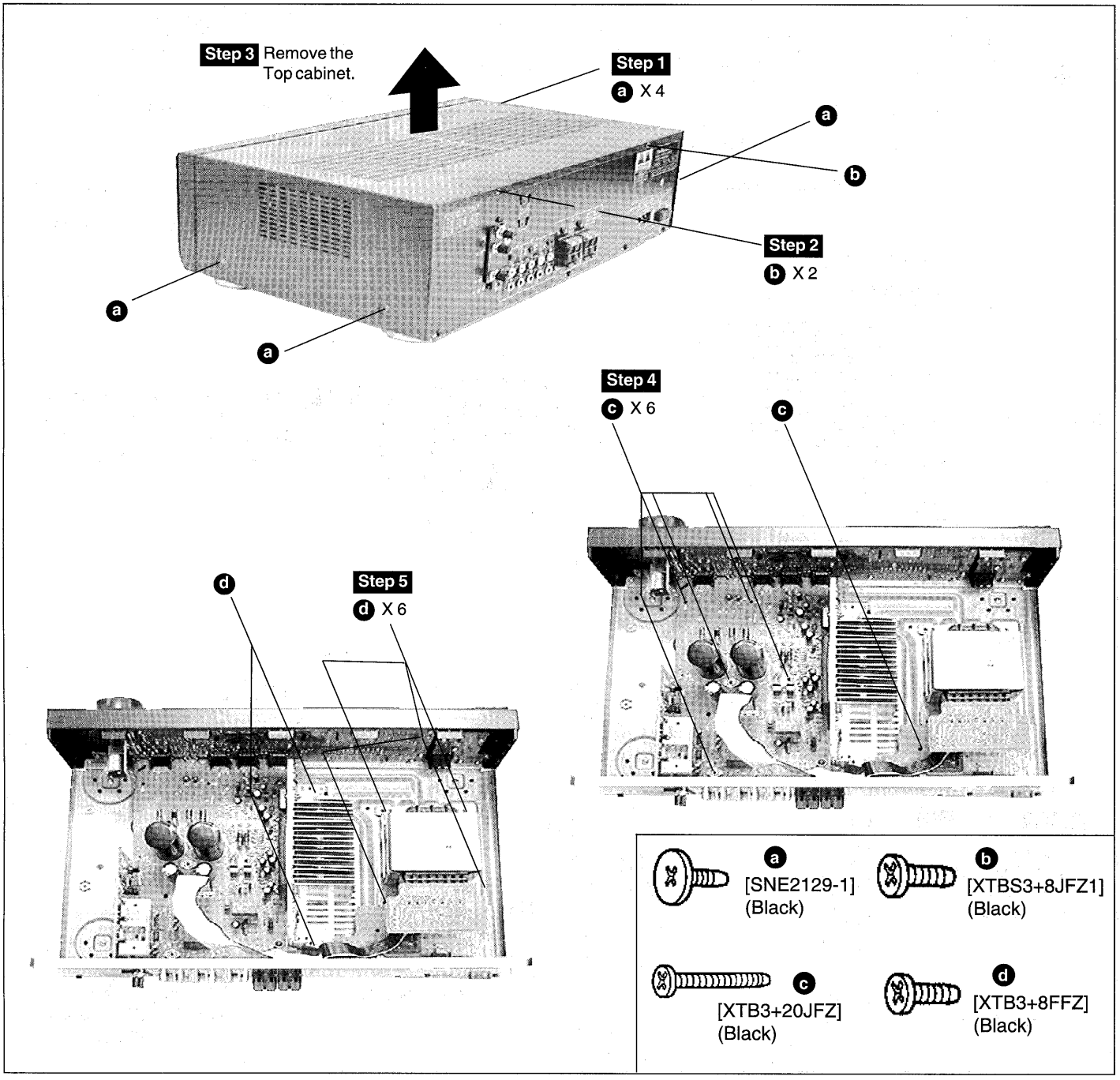
■ Operation Checks and Main Component Replacement Procedures

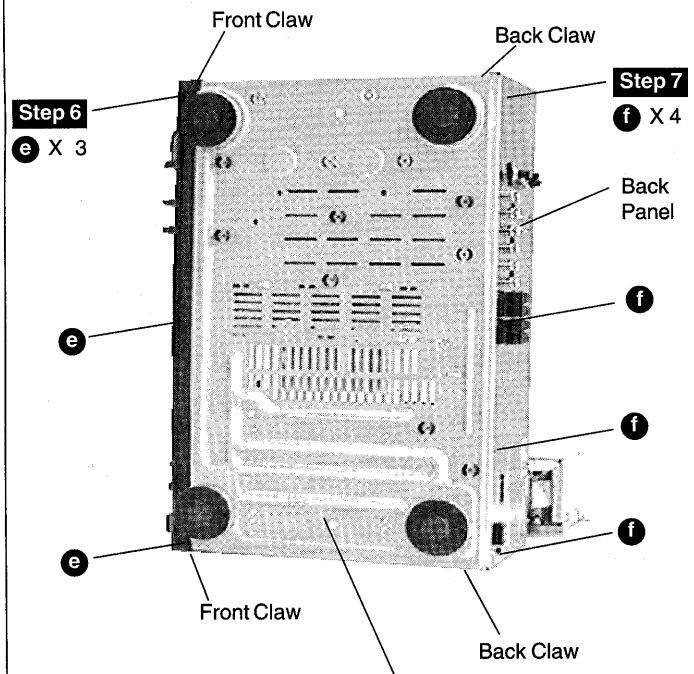
"ATTENTION SERVICER" Some chassis components may have sharpe edges. Be careful when disassembling and serving.

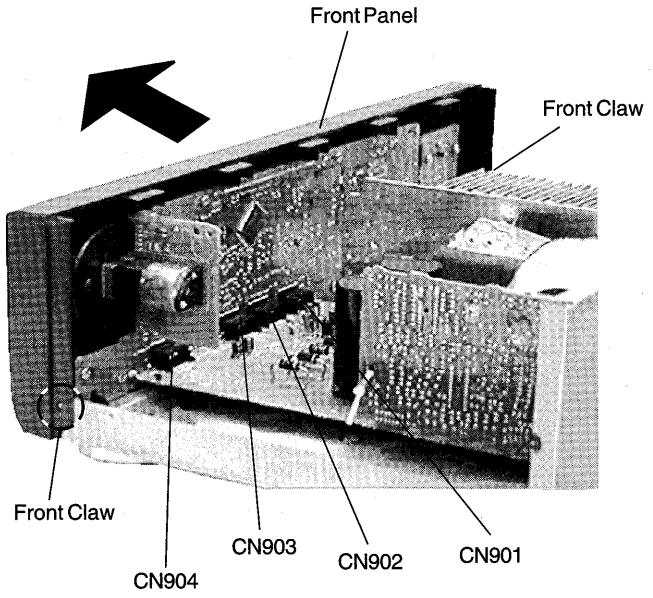
1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.**
3.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

• Contents

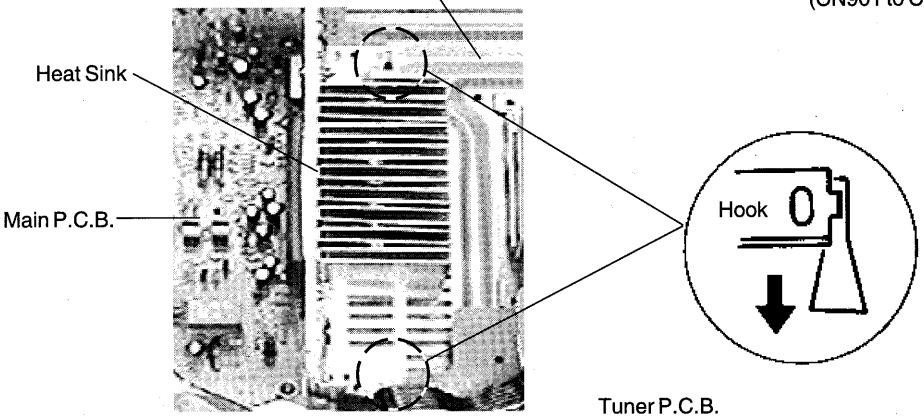
■ Checking Procedure for Major P.C.B.



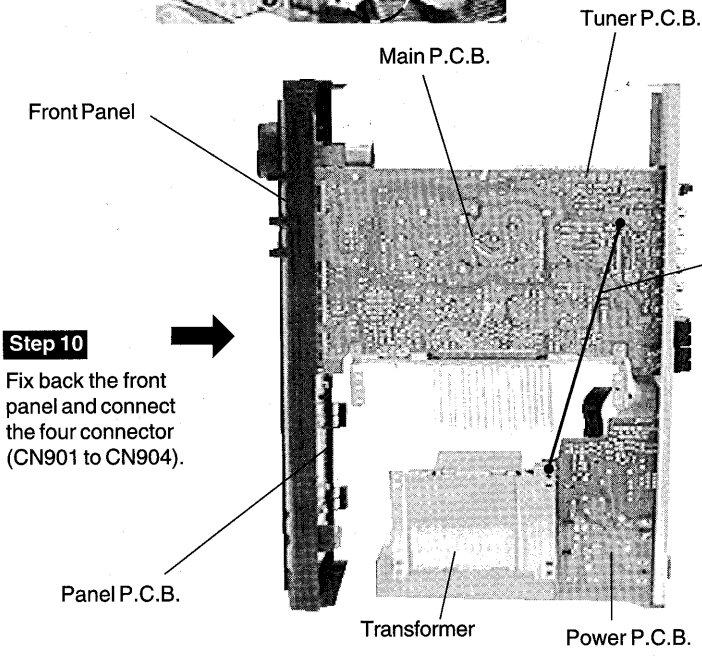




Step 8 Release the two front claws and pull out the front panel as shown above.
Take note of the connectors as you remove the front panel. (CN901 to CN904)



Step 9 Release the two back claws and the hooks of the heak sink.
Slide out the bottom chassis from the main P.C.B. and the back panel.



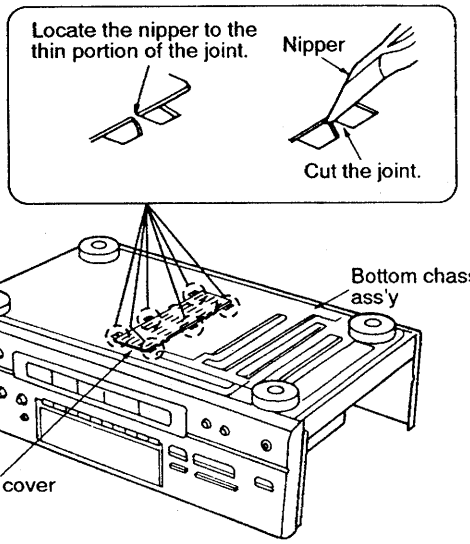
Step 10
Fix back the front panel and connect the four connector (CN901 to CN904).

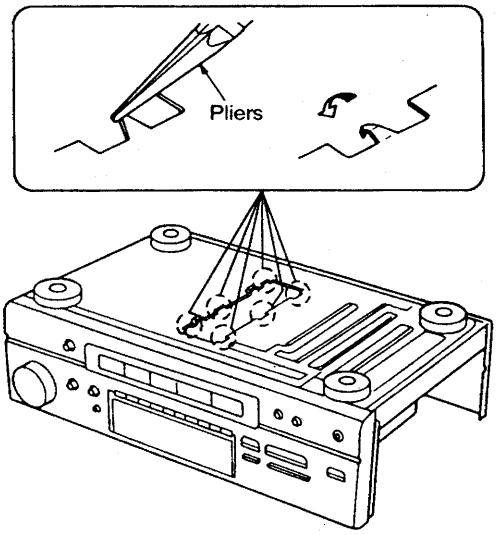
Step 11
Connect back the transformer to the power P.C.B. and connect a lead wire from the main P.C.B. ground to the transformer ground plate.

Step 12
Check the Main P.C.B., Panel P.C.B., Tuner P.C.B. and the Power P.C.B. as shown on the left.

e , f
[XTBS3+8JFZ1]
(Black)

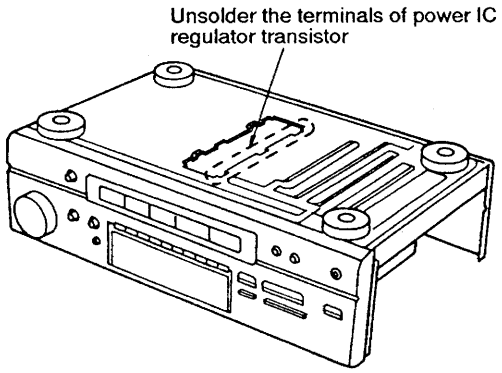
■ Replacement of Power IC and Regulator Transistor





1. Cut the joints(6 portions) between bottom cover and bottom chassis ass'y with nipper.

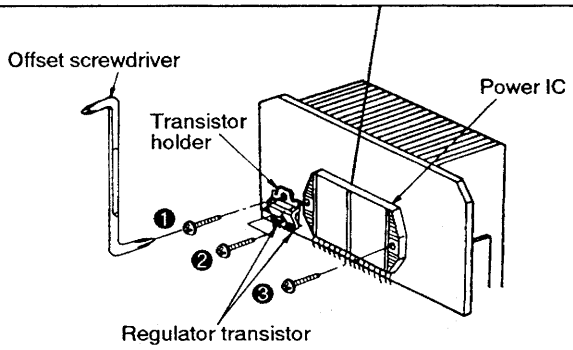
2. After cutting the joints(6 portions), bend the portions of the bottom chassis ass'y in the direction of arrow with pliers.



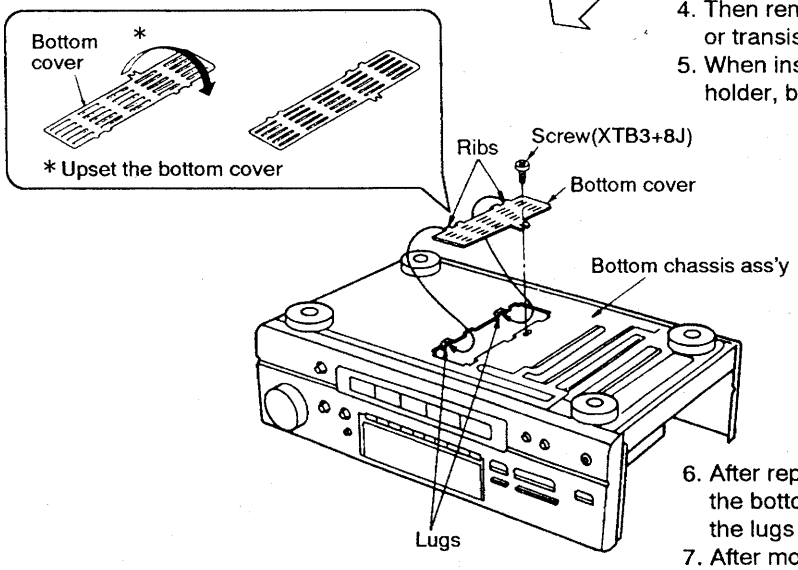
3. When replacing the power IC or regulator transistor, unsolder the terminals of power IC or regulator transistor on the soldered surface.

CAUTION

- After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002) between the heat sink and the power IC or regulator transistor. (Radiation of power IC & transistor)
- Tighten enough the screws (❶~❸)after replacing the power IC or regulator transistor. Otherwise, the heat radiation works little.



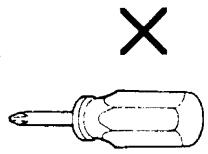
4. Then remove the 3 screws(❶~❸)fixed to the power IC or transistor holder.
5. When installing or removing the power IC or transistor holder, be sure to use an offset screwdriver.



6. After replacing the power IC or regulator transistor, upset the bottom cover and align the ribs of the bottom cover to the lugs on the bottom chassis ass'y.
7. After mounting the bottom cover on the bottom chassis ass'y, fix it with a screw(XTB3+8J).

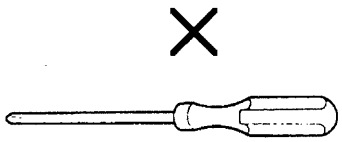
CAUTION

- 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)
- 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.



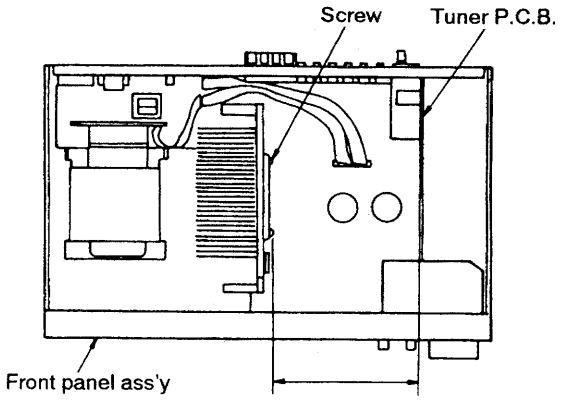
A short straight screwdriver

Fig.2



A long straight screwdriver

Fig.1

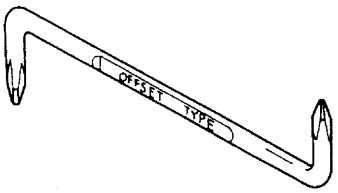


(A long straight screwdriver cannot be used.)

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.

International Sales

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Cory House The Rlng
Bracknell Berkshire
RG 12 1A2
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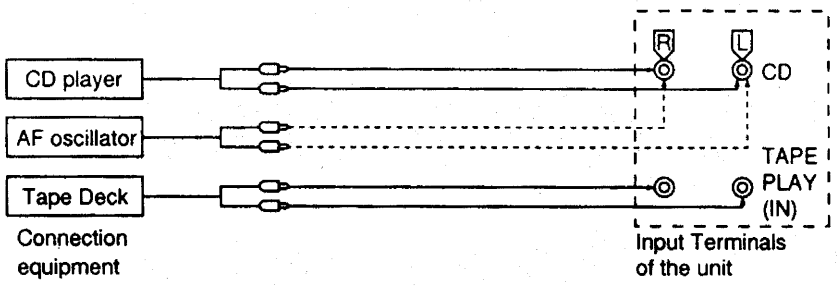
Fax: 44-344-485-526
Phone: 44-344-51813

■ 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 deck (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:

Power on the unit.
Set the input selector button of the unit to the "CD" postion.
Set the Speaker ON/OFF button of the unit to the SPEAKERS "ON" position.

Run the CD player (SZZP1056C / first program 1kHz, 0dB) or Run the AF oscillator (Oscillator output at 500Hz, 200mV)

When the tape deck is connected:

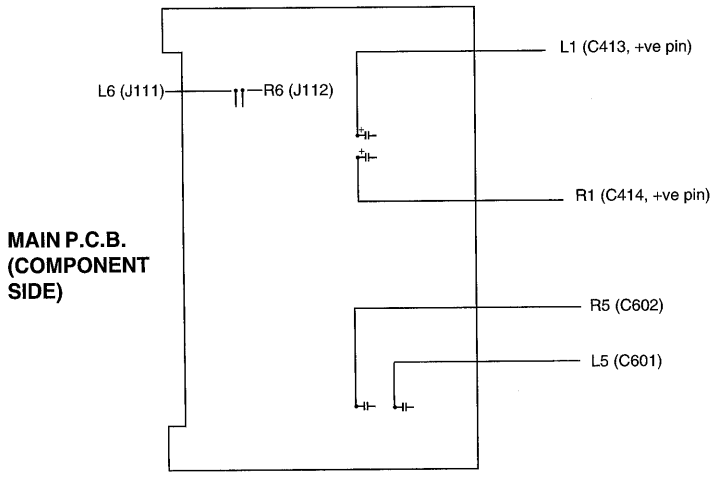
Power on the unit.
Set the input selector button of the unit to the "TAPE MONITOR" postion.
Set the Speaker ON/OFF button of the unit to the SPEAKERS "ON" position.

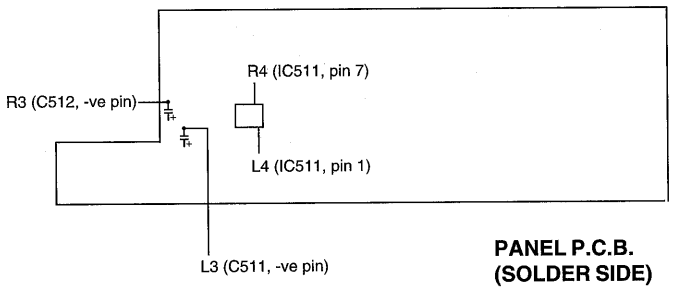
Run the tape deck (QZZCLA 315Hz, 0dB)

Using the Oscilloscope, check the output waveforms at the test points on the circuit boards of the unit in the following order:
(L1,R1)→(L3,R3)→(L4,R4)→(L5,R5)→(L6,R6).
Refer to page 8.

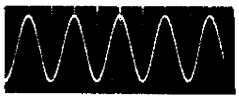
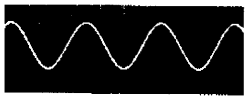
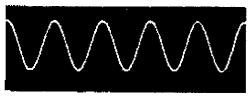
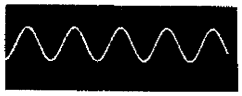
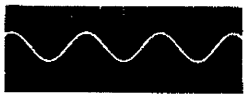
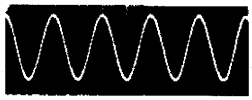
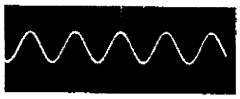
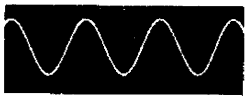
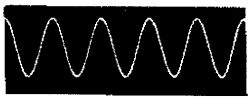
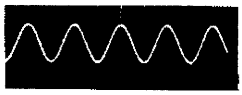
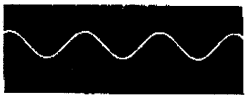
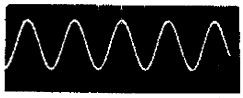
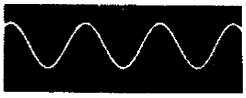
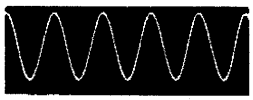
Note: Connect the '+' probe of the oscilloscope to each test point and the '–' probe to chassis ground.

TEST POINTS POSITIONS OF AMPLIFIER CIRCUIT





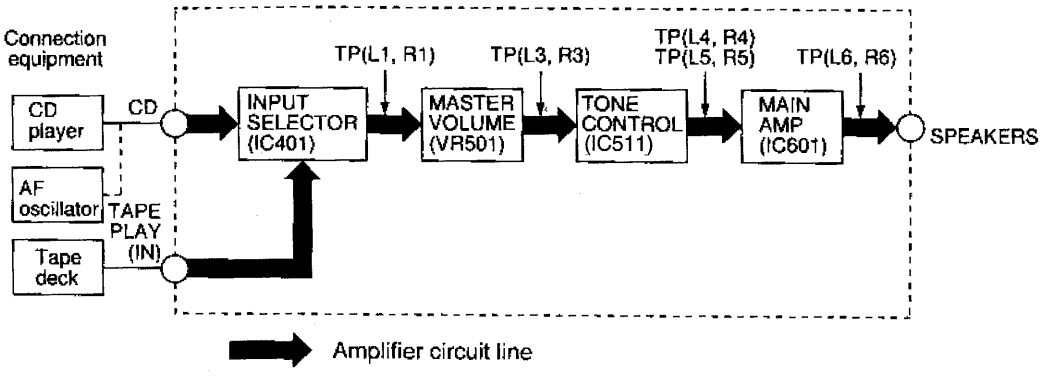
NORMAL WAVEFORMS OF AMPLIFIER CIRCUIT AND LIKELY FAULTY BLOCKS

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 IC401 & area
L3/R3	 0.5msec 0.5mV	 1msec 100mV	 1msec 500mV	Master volume block VR501 & area
L4/R4	 0.5msec 5V	 1msec 500mV	 1msec 500mV	Tone control block IC511 & area
L5/R5	 0.5msec 2V	 1msec 500mV	 1msec 200mV	
L6/R6	 0.5msec 5V*	 1msec 1V*	 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

CIRCUIT BLOCKS OF THE MAIN UNIT



■ Terminal Functions Of ICs

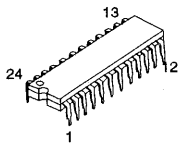
• IC901 (UPD78043A054) System Microprocessor

Pin No.	Mark	I/O	Function
1~7	D4~D10	O	Digit signal of FL display
8	VDD	I	Power supply terminal
9	SUR/OSD_CK	–	Not used
10	SUR/OSD_DT	–	Not used
11	VIDEO_DET	–	Not used
12	SUR_CE	–	Not used
13	VOL_UP	O	Rotate control terminal of
14	VOL_DWN	O	volume motor
15	LOUDNESS	–	Not used
16	FM_STEREO	I	Stereo signal detect terminal
17	RESET	I	Reset detect terminal
18	SD	I	Received signal detect terminal
19	OSD_ST	–	Not used
20	GND	–	GND terminal
21	VIDEO_B	–	Not used
22	VIDEO_A	–	Not used
23	IF_DATA	I	Serial data signal
24	THERMAL	O	Thermal mute control terminal
25~28	KEY1~KEY4	I	Key matrix detect terminal
29	AVDD	I	Power supply terminal
30	AVREF	I	Power supply terminal
31	OVERLOAD	I	Over load detect terminal
32	XT2	–	Not used
33	GND	–	GND terminal
34	XIN	I	Crystal oscillator terminal
35	XOUT	O	(4MHz)

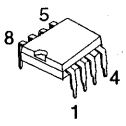
Pin No.	Mark	I/O	Function
36~40	SFC1~SFC5	–	Not used
41	TNR_CE	O	Chip enable signal
42	SEL/TNR_DT	O	Serial data signal
43	SEL/TNR_CK	O	Serial clock signal
44	TV/VCR2	–	Not used
45	ADAPTOR	–	Not used
46	HOLD	I	Hold signal input terminal
47	REMOTE	I	Remote control terminal
48	GND	–	Not used
49	SEL_ST	O	Level shift control terminal
50	HELP_LED	–	Not used
51	STANDBY_LED	–	Not used
52	VDD	I	Power supply terminal
53	REC_MUTE	–	Not used
54	S/C_SP	–	Not used
55	SP_B	O	Speaker select control terminal
56	SP_A	O	Speaker select control terminal
57	POWER_RLY	O	Relay control terminal
58	AF_MUTE	O	Muting control terminal
59	LIMITTER	–	Not used
60	INIT_IN	–	Not used, connect to resistor
61~70	S16~S7	O	Segment signal of FL display
71	VLOAD	I	Power supply terminal
72~77	S6~S1	O	Segment signal of FL display
78~80	D1~D3	O	Digit signal of FL display

■ Terminal Guide of ICs, Transistors and Diodes

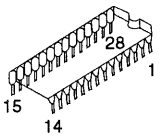
LA1832A
LC7218



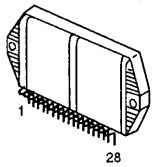
AN6558F
M5218AP
UPC4570C



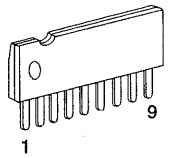
TC9163N



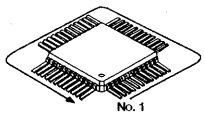
RSN3305-P



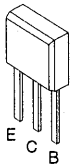
BA6218



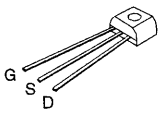
UPD78043A054 (80P)



2SC3311ARTA



2SK544F-AC



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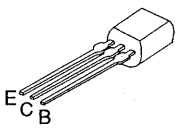
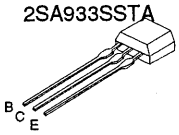
2SC3940AQSTA



RVTDTC144YST
RVTDTC143XST
2SA933SSTA



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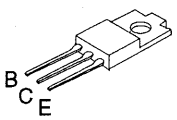
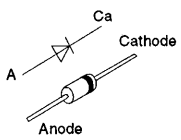
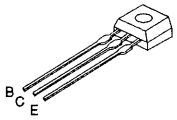
2SD2374PQAU



1N5402BM21
SB360L6508

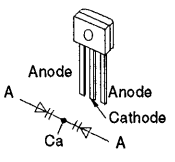


2SC2785FETA
2SC2786MTA

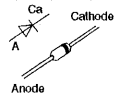


2SC2787FL1TA
2SC2787LTA
2SC3311AQSTA
2SD1915FTA
2SC1740SSTA

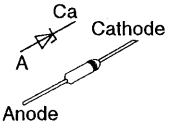
SVC211SPA-AL



RVD1SS133TA
MTZJ5R1BTA
1SR35200TB
MA700ATA
1SS291TA



MTZJ16CTA
MTZJ3R9ATA

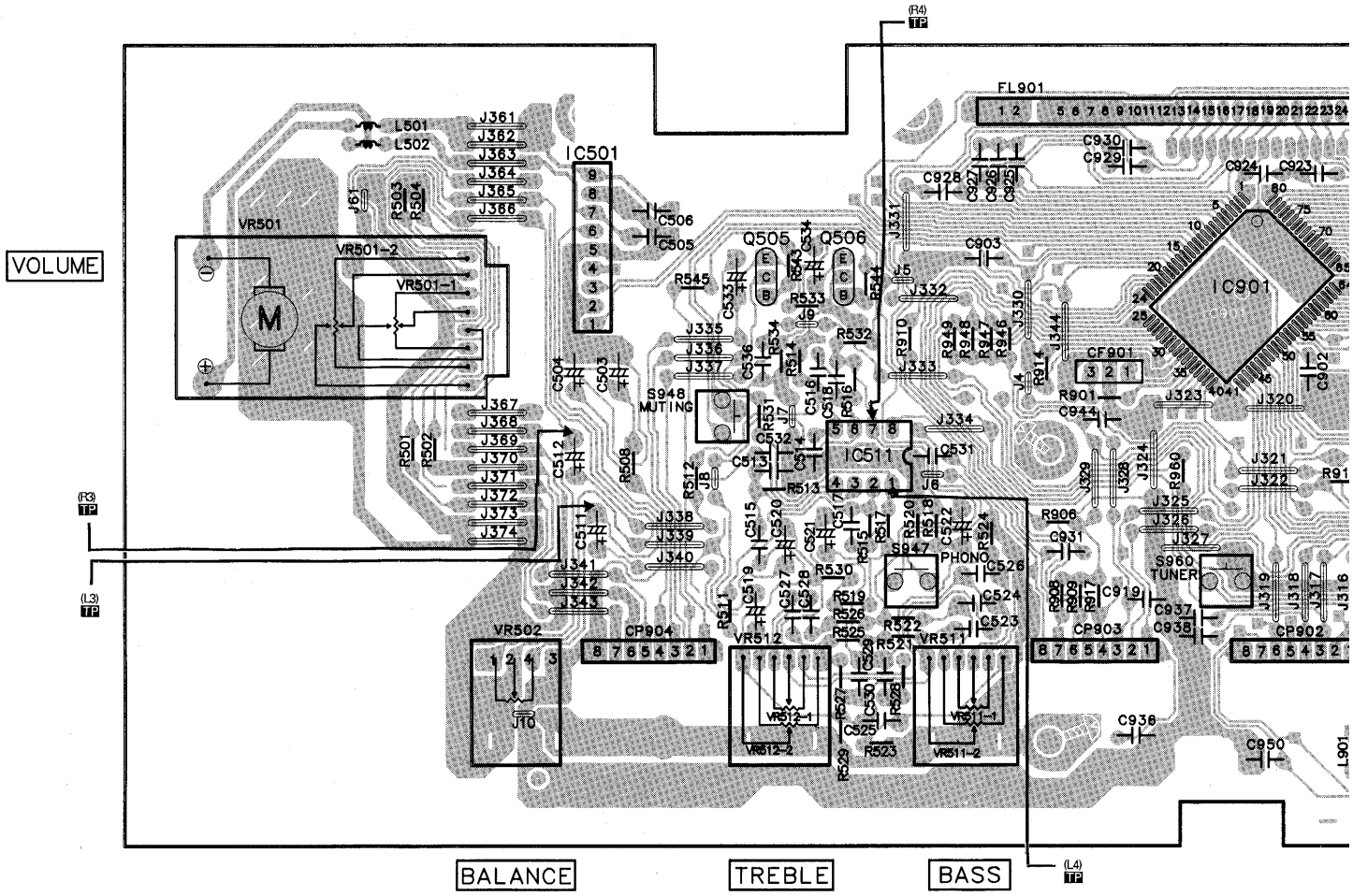


MTZJ4R7BTA
MTZJ6R2BTA
MTZJ6R8BTA
MTZJ7R5CTA
MTZJ27DTA

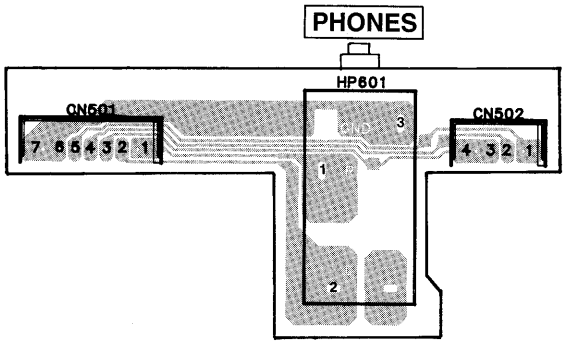
■ Printed Circuit Board

C VOLUME P.C.B. (REP2484A-S)

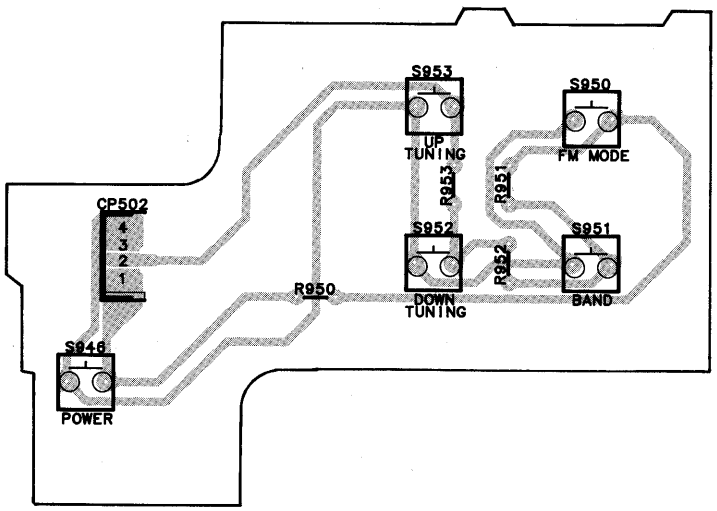
B PANEL P.C.B. (REP2484A-S)

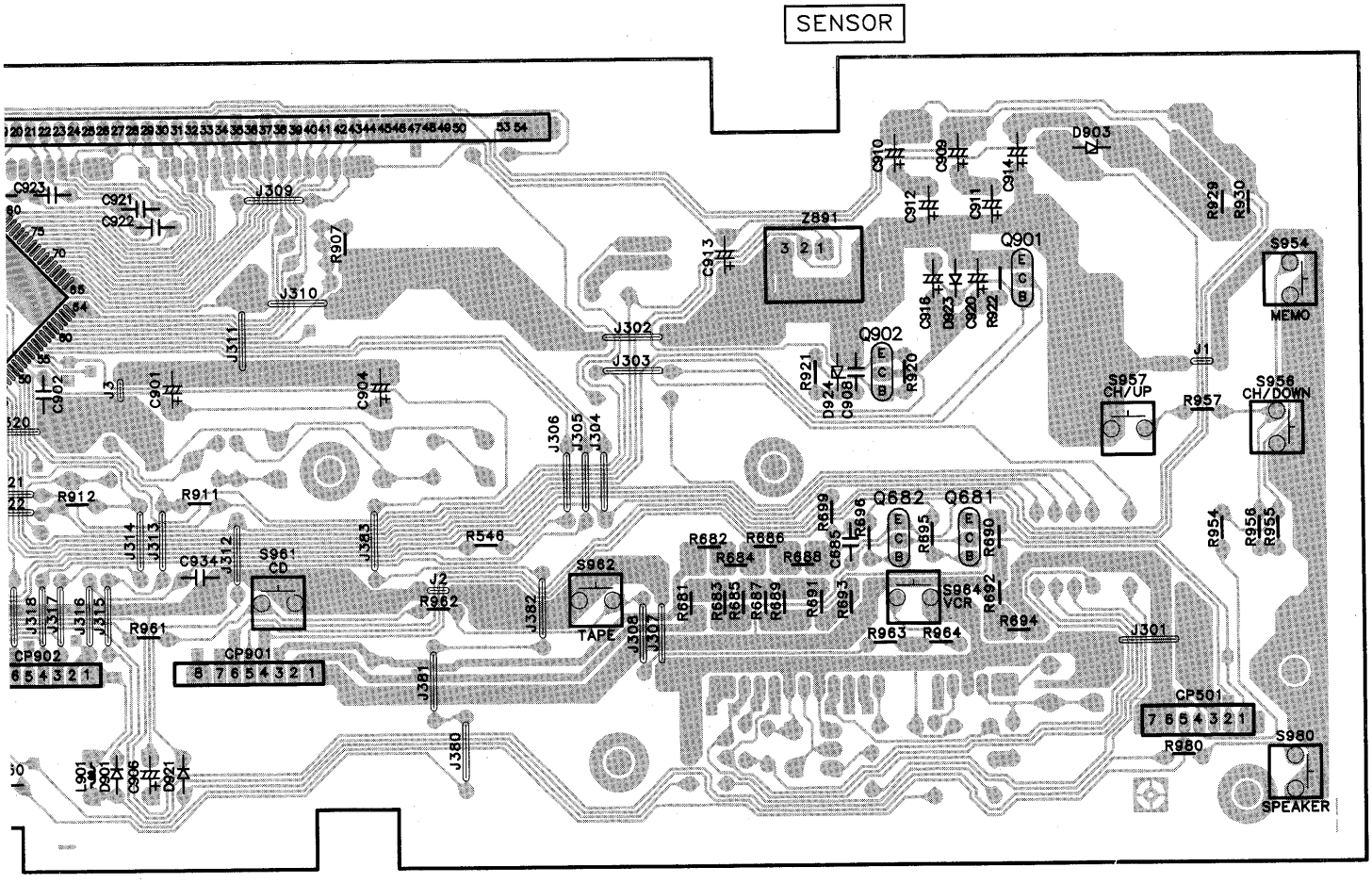


D HEADPHONES JACK P.C.B. (REP2484A-S)

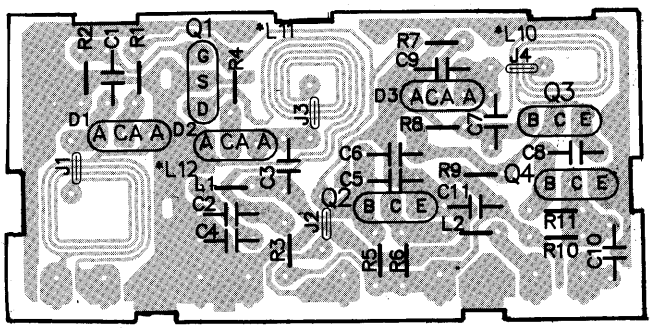


H OPERATION P.C.B. (REP2484A-S)

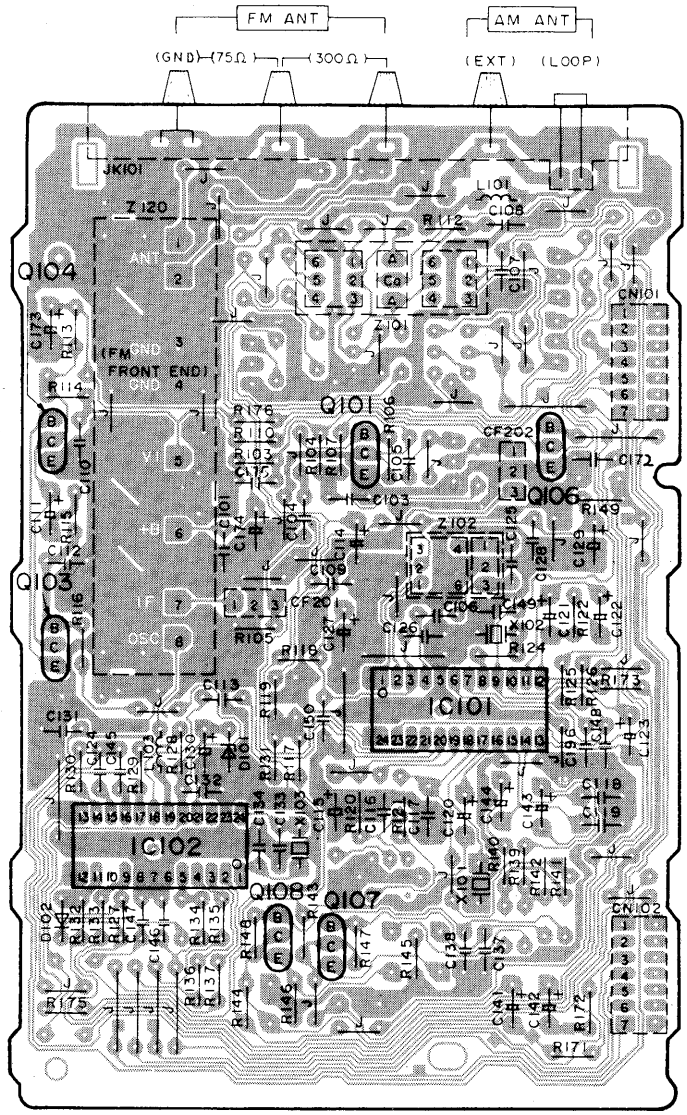




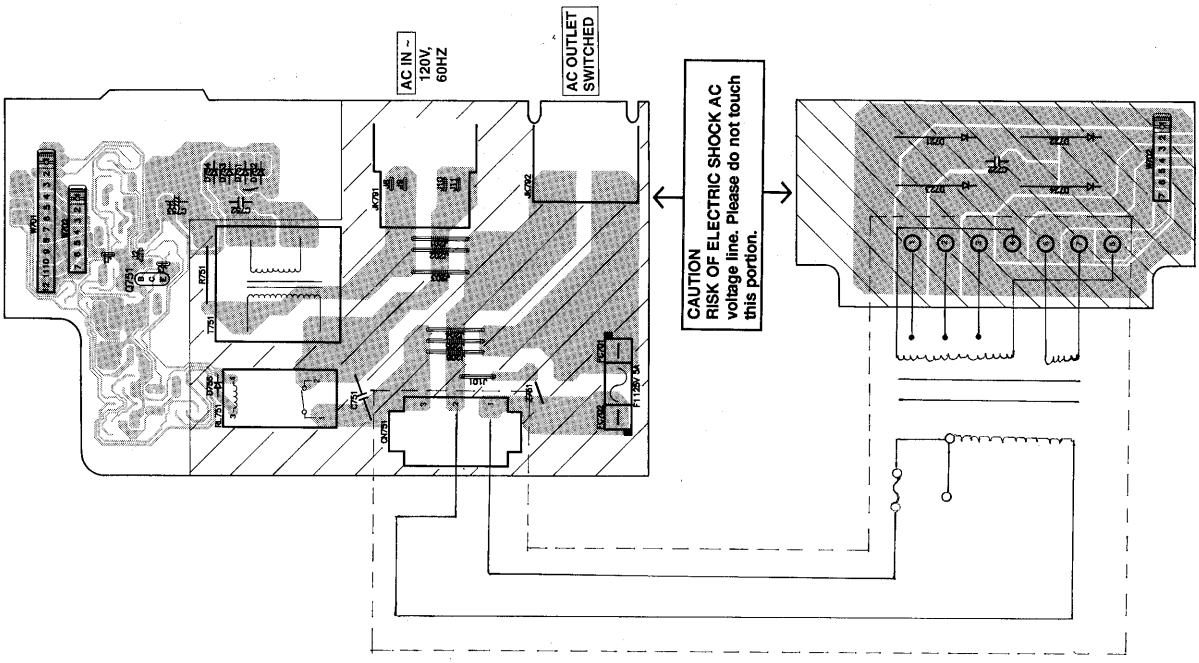
J TUNER PACK P.C.B. (REP1999B)



A TUNER P.C.B. (REP2254A-T)

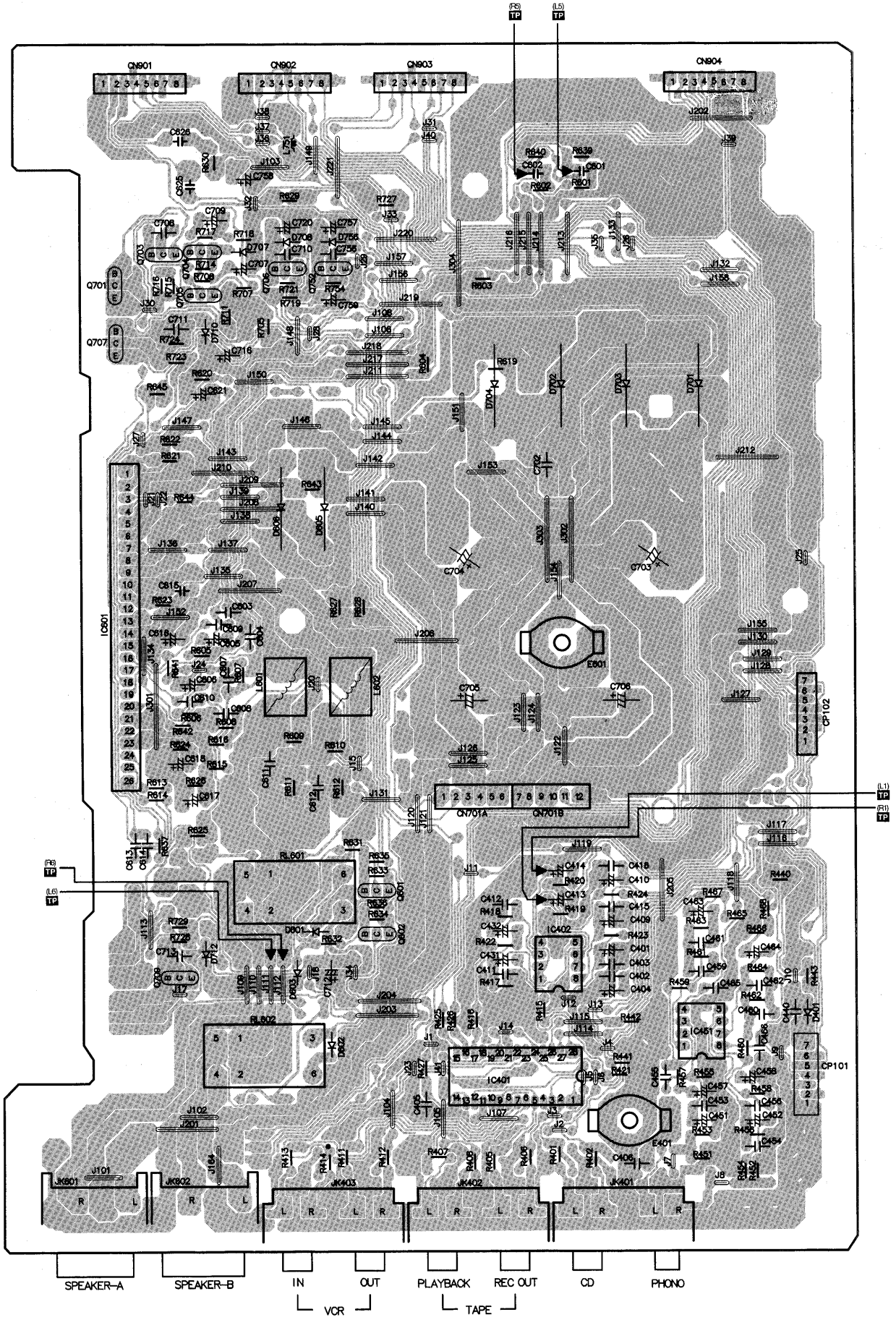


F POWER SUPPLY P.C.B. (REP2253A-P) (REP2253G-P)

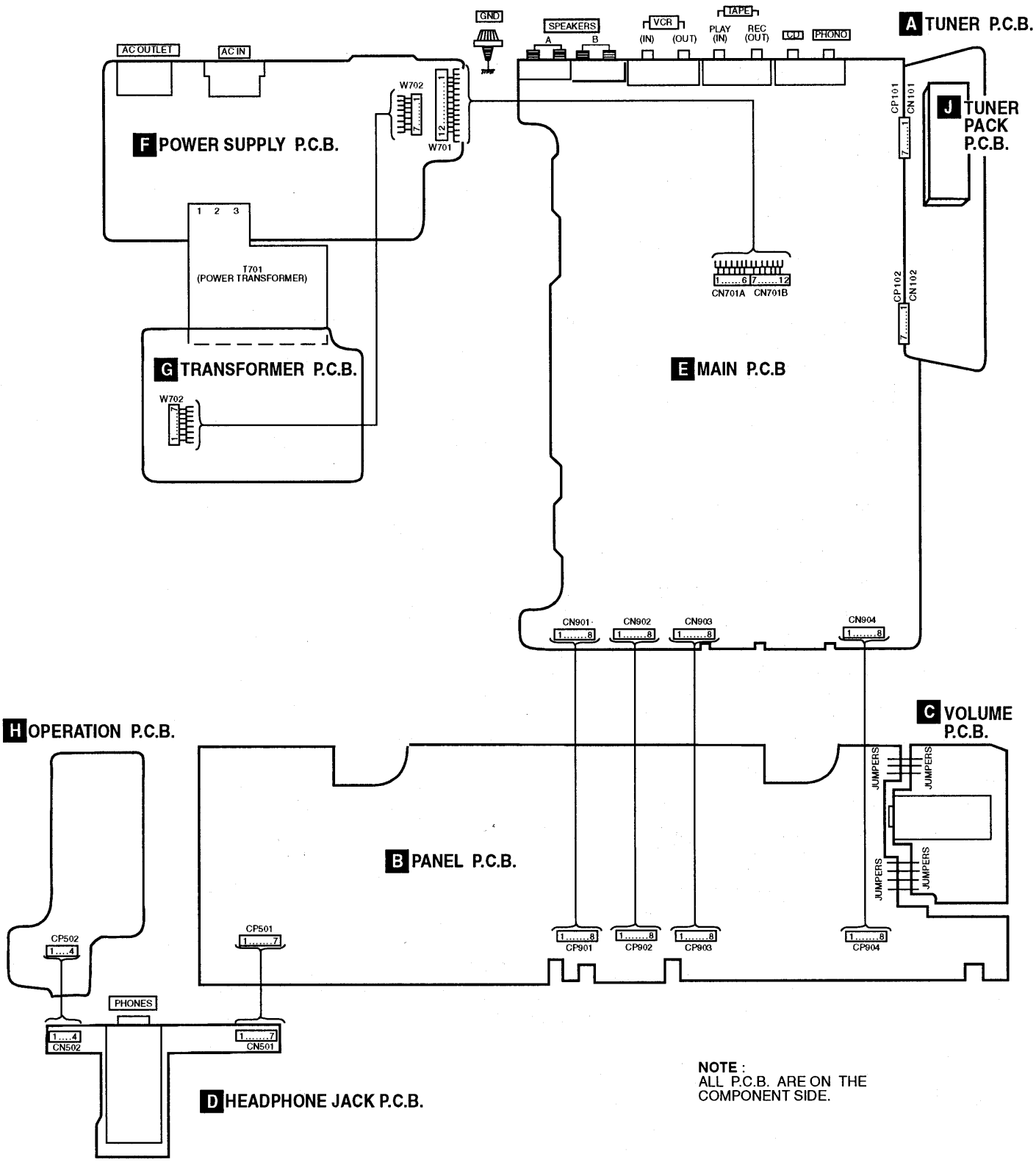


G TRANSFORMER P.C.B. (REP2253A-P) (REP2253G-P)

E MAIN P.C.B. (REP2483A-M)

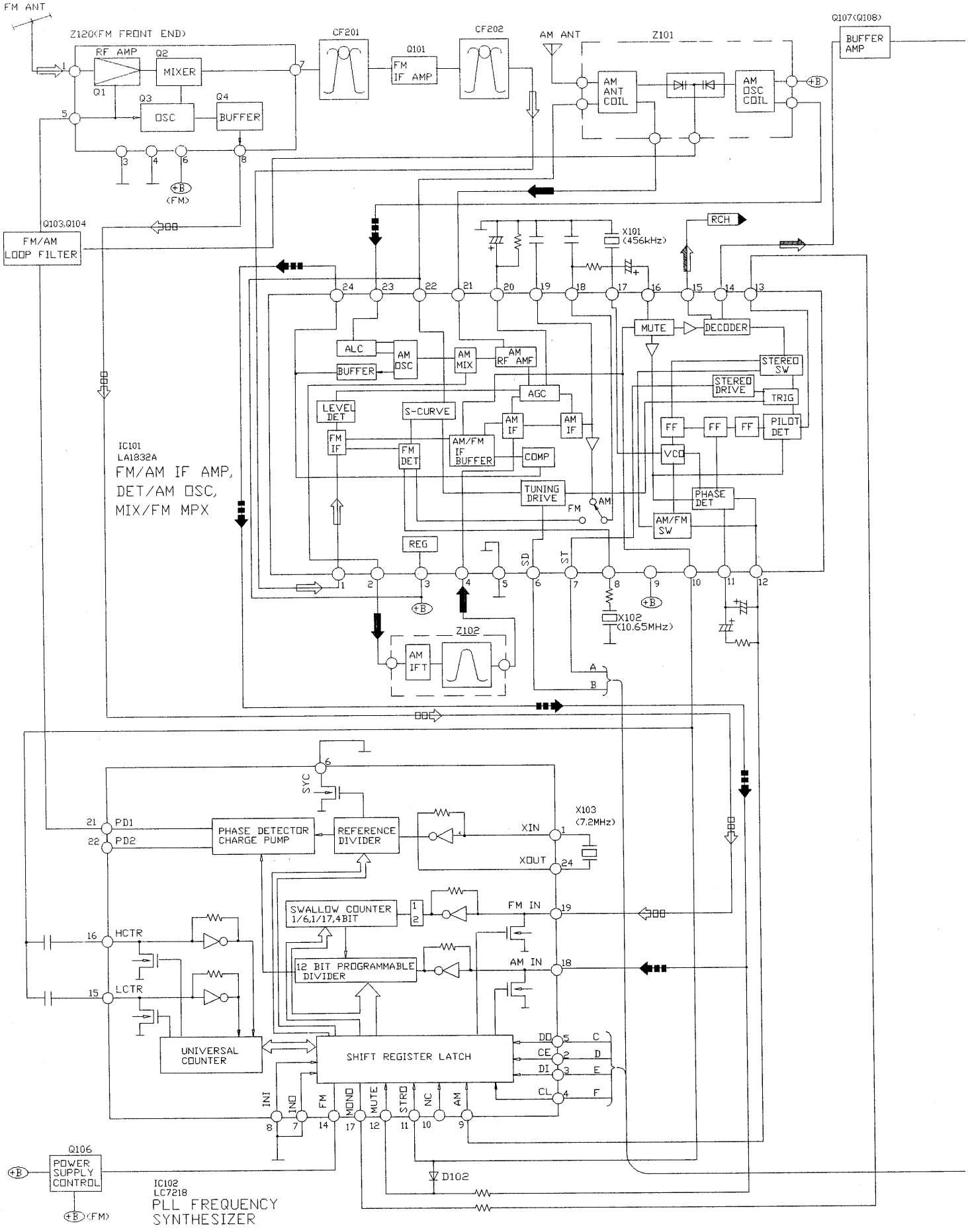


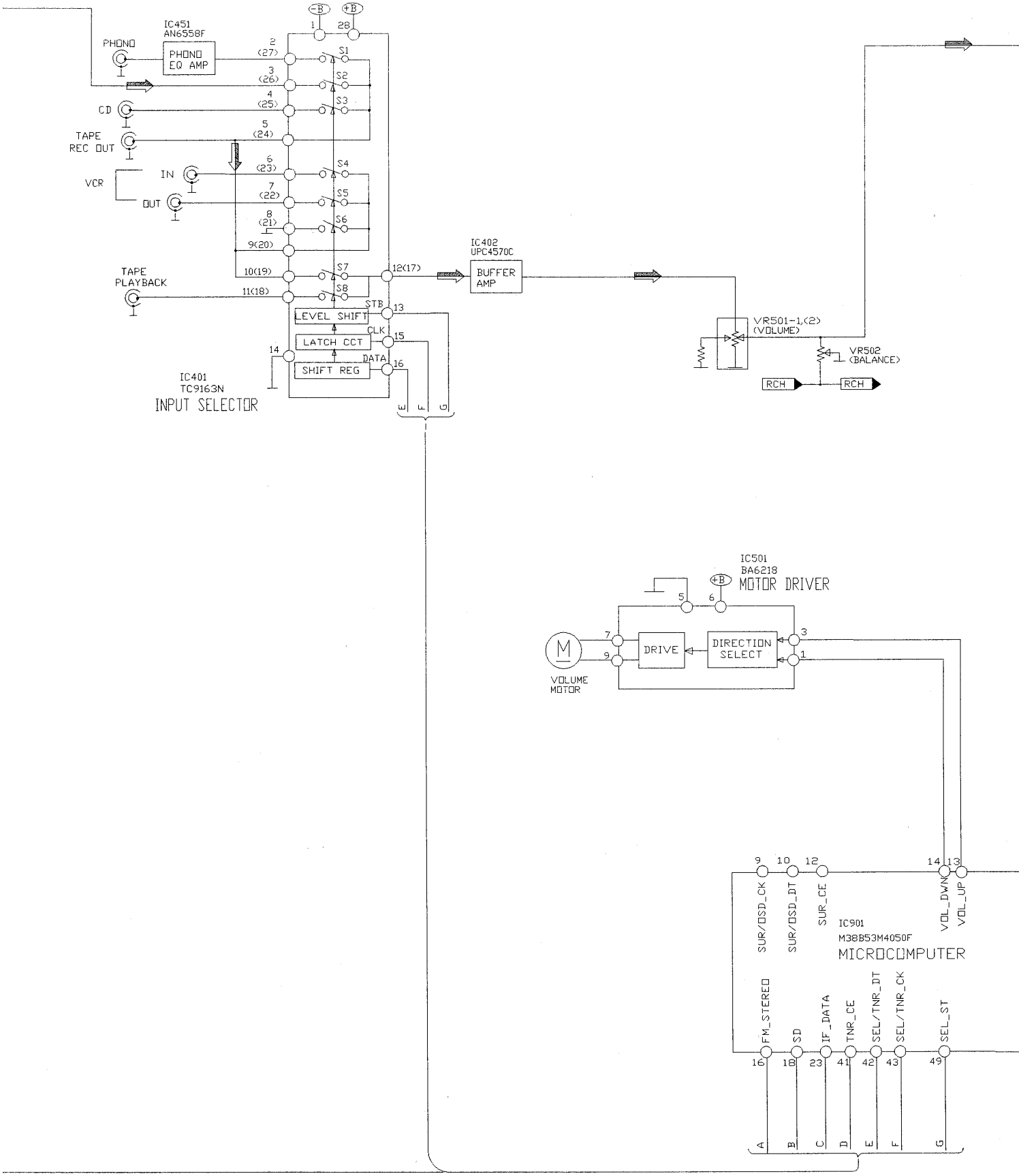
■ Wiring Connection Diagram

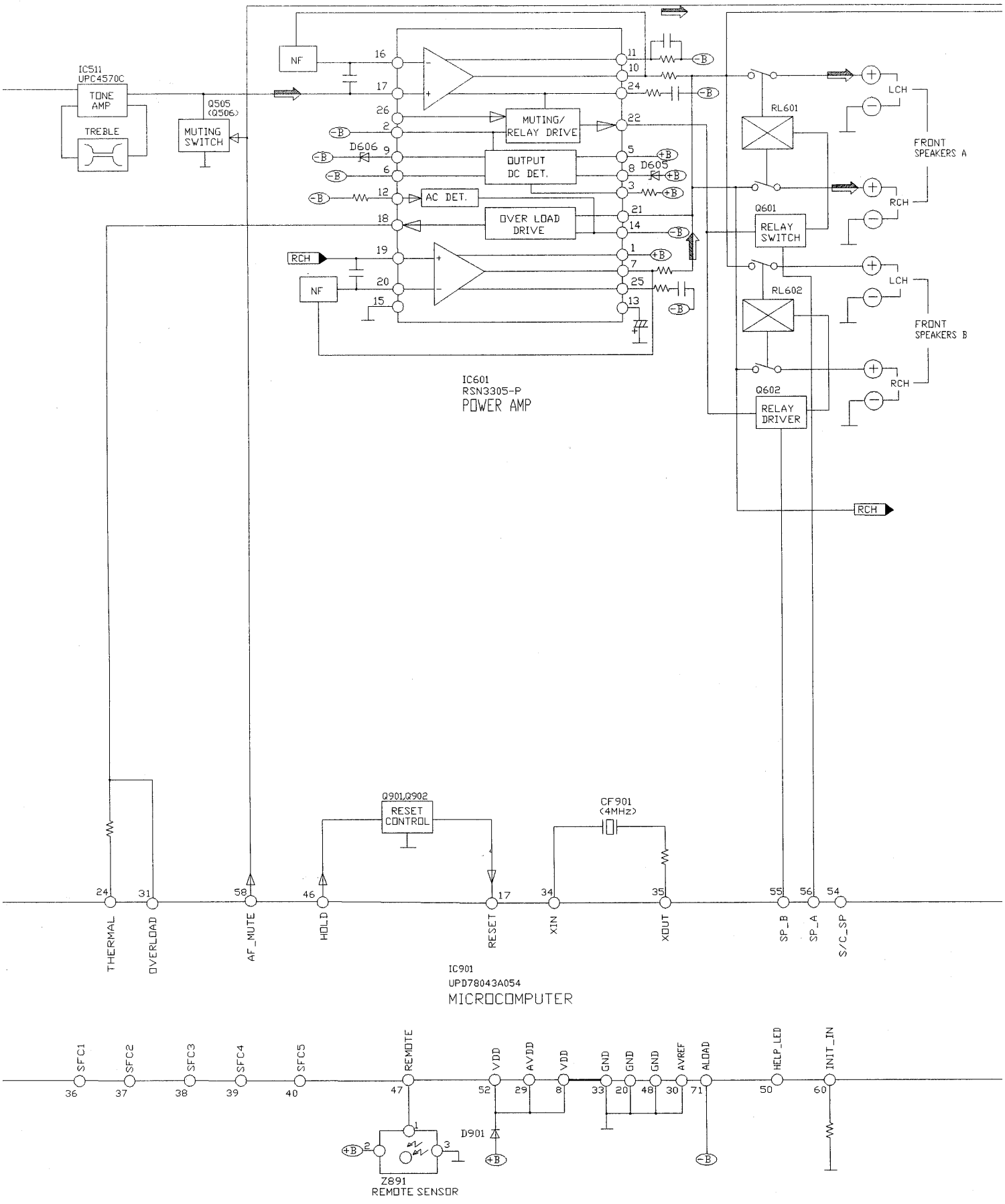


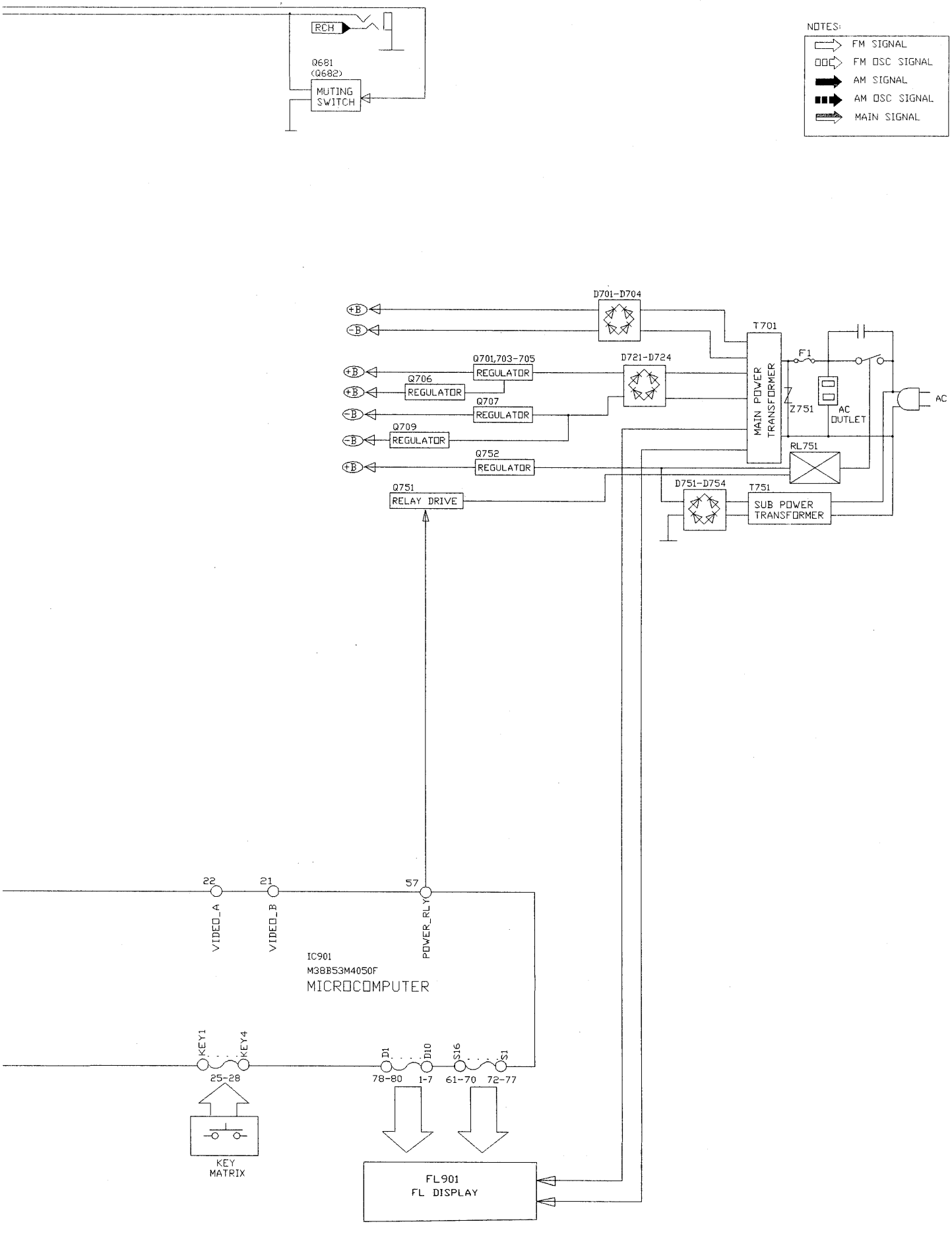
NOTE :
ALL P.C.B. ARE ON THE COMPONENT SIDE.

■ Block Diagram




IC451
AN6558F
PHONO
PHONO EQ AMP
CD
TAPE REC OUT
VCR
IN
OUT
TAPE PLAYBACK
-B
+B
S1
S2
S3
S4
S5
S6
S7
S8
STB
CLK
DATA
LEVEL SHIFT
LATCH CCT
SHIFT REG
IC401
TC9163N
INPUT SELECTOR
IC402
UPC4570C
BUFFER AMP
VR501-1,(2)
(VOLUME)
VR502
(BALANCE)
RCH
RCH
IC501
BA6218
MOTOR DRIVER
DRIVE
DIRECTION SELECT
VOLUME MOTOR
IC901
M38B53M4050F
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


IC511
UPC4570C
TONE AMP
TREBLE
Q505 (Q506)
MUTING SWITCH
NF
MUTING/ RELAY DRIVE
OUTPUT DC DET.
AC DET.
OVER LOAD DRIVE
D606
D605
RCH
IC601
RSN3305-P
POWER AMP
RL601
RL602
Q601
RELAY SWITCH
Q602
RELAY DRIVER
LCH
RCH
FRONT SPEAKERS A
FRONT SPEAKERS B
Q901,Q902
RESET CONTROL
CF901
(4MHz)
THERMAL
OVERLOAD
AF_MUTE
HOLD
RESET
XIN
XOUT
SP_B
SP_A
S/C_SP
IC901
UPD78043A054
MICROCOMPUTER
SFC1
SFC2
SFC3
SFC4
SFC5
REMOTE
VDD
AVDD
VDD
GND
GND
GND
AVREF
ALOAD
HELP_LED
INIT_IN
D901
Z891
REMOTE SENSOR


RCH
Q681
(Q682)
MUTING SWITCH
NOTES:
FM SIGNAL
FM OSC SIGNAL
AM SIGNAL
AM OSC SIGNAL
MAIN SIGNAL
D701-D704
T701
+B
-B
Q701,703-705
REGULATOR
Q706
REGULATOR
Q707
REGULATOR
Q709
REGULATOR
Q752
REGULATOR
D721-D724
MAIN POWER TRANSFORMER
F1
Z751
AC OUTLET
AC IN
RL751
Q751
RELAY DRIVE
D751-D754
T751
SUB POWER TRANSFORMER
22
21
57
VIDEO_A
VIDEO_B
POWER_RLY
IC901
M38B53M4050F
MICROCOMPUTER
KEY1
KEY4
25-28
D1
D10
S16
S1
78-80
1-7
61-70
72-77
KEY MATRIX
FL901
FL DISPLAY

■ Schematic Diagram

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

Note :

< for Power Supply circuit, Transformer circuit, Headphone Jack circuit and Operation circuit >

- **S946** : Power switch
- **S950** : FM Auto/ Mono switch
- **S951** : Band select switch
- **S952** : Tuning decrease switch
- **S953** : Tuning increase switch

< for Panel circuit and Volume circuit >

- **S947** : Phono select switch
- **S948** : Muting switch
- **S954** : Memory manual/auto switch
- **S956** : Preset decrease switch
- **S957** : Preset increase switch
- **S960** : Tuner select switch
- **S961** : CD select switch
- **S962** : Tape select switch
- **S964** : VCR select switch
- **S980** : Speakers A/B/off switch
- **VR501-1 ~ VR501-2** : Volume control
- **VR502** : Balance control
- **VR511-1 ~ VR511-2** : Bass control
- **VR512-1 ~ VR512-2** : Treble control

• Signal line

: +B line
: Main signal line
: FM signal line
: AM signal line
: AM OSC 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 or the 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.

CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE **F1 5.0A 125V FUSE.**

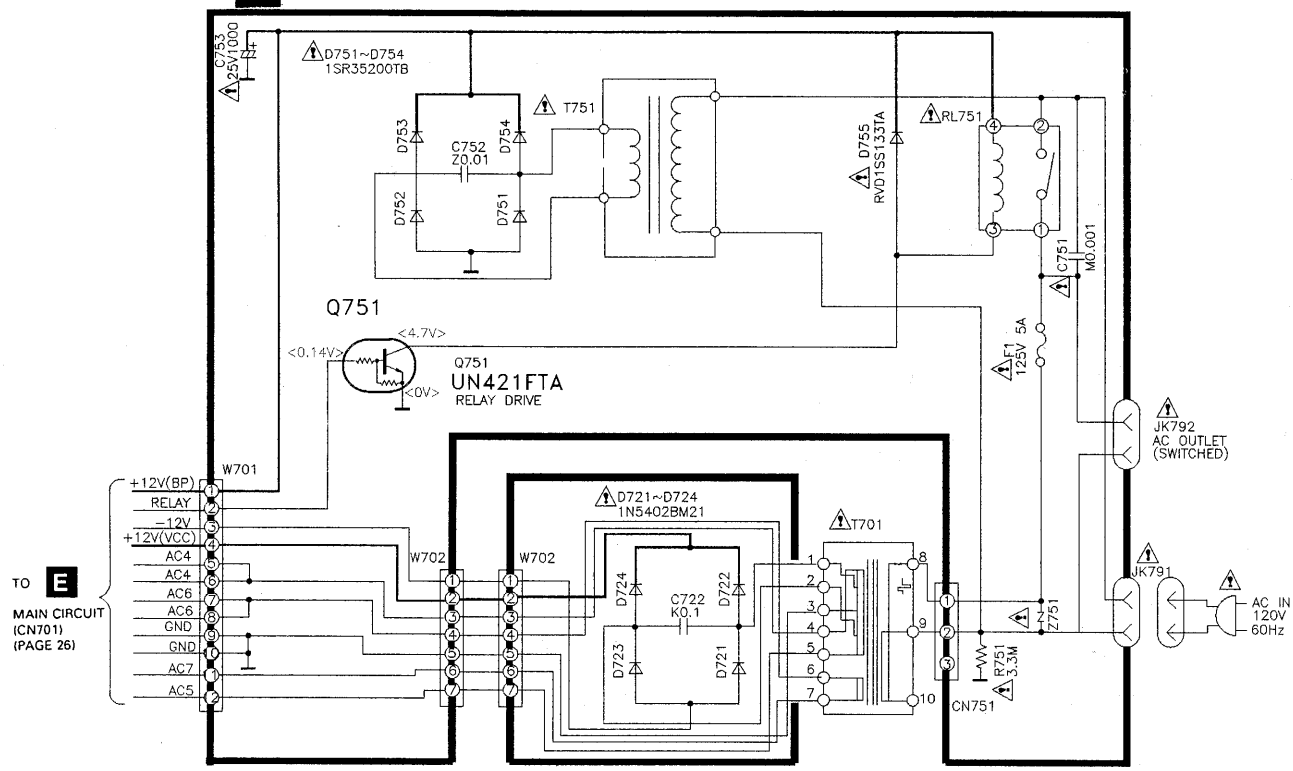
RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

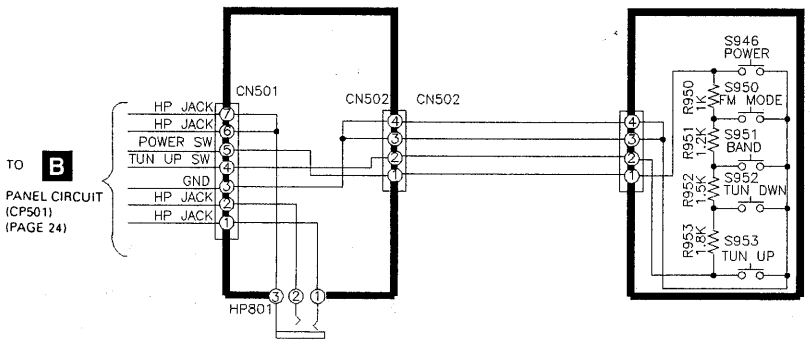
F POWER SUPPLY CIRCUIT

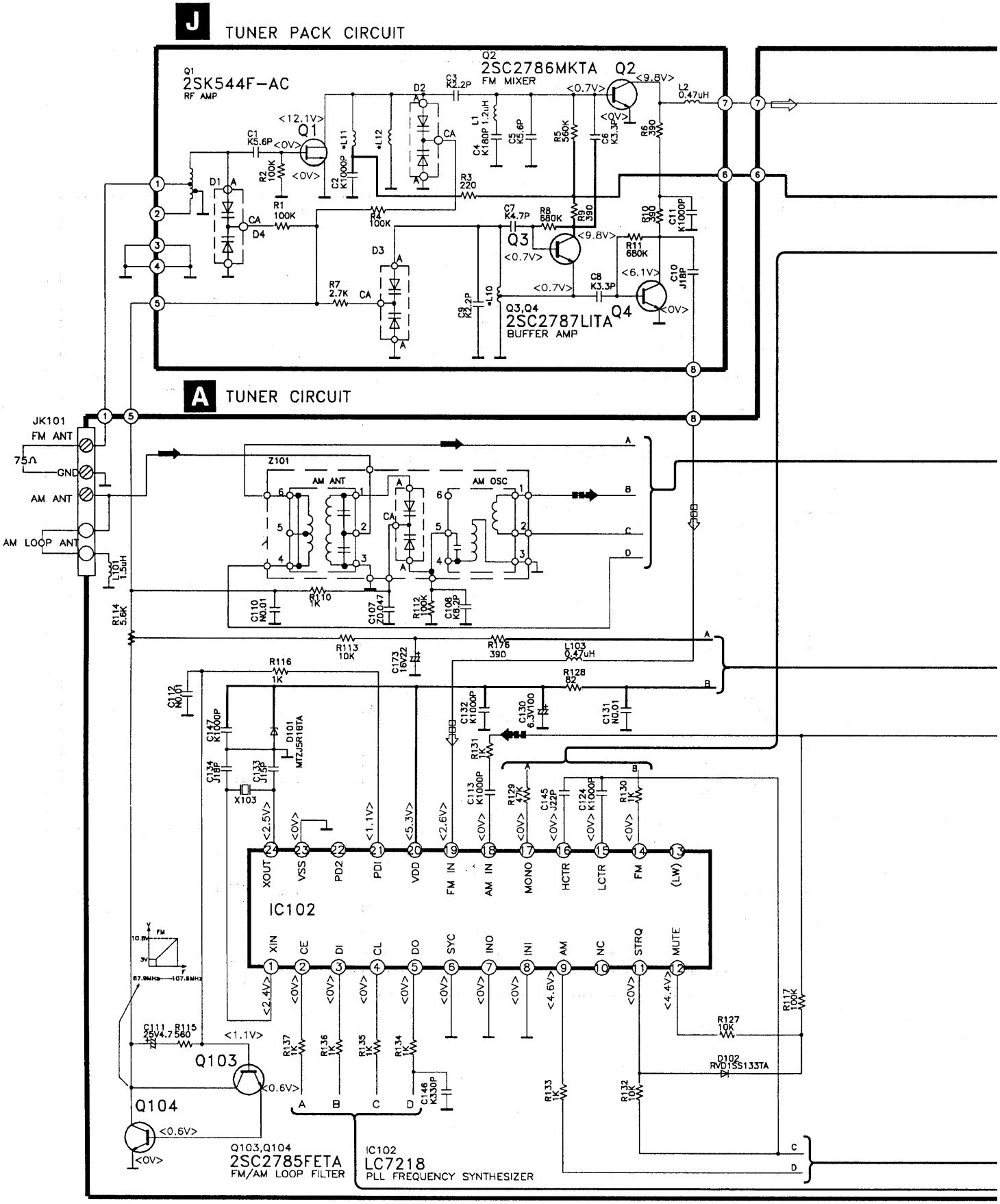


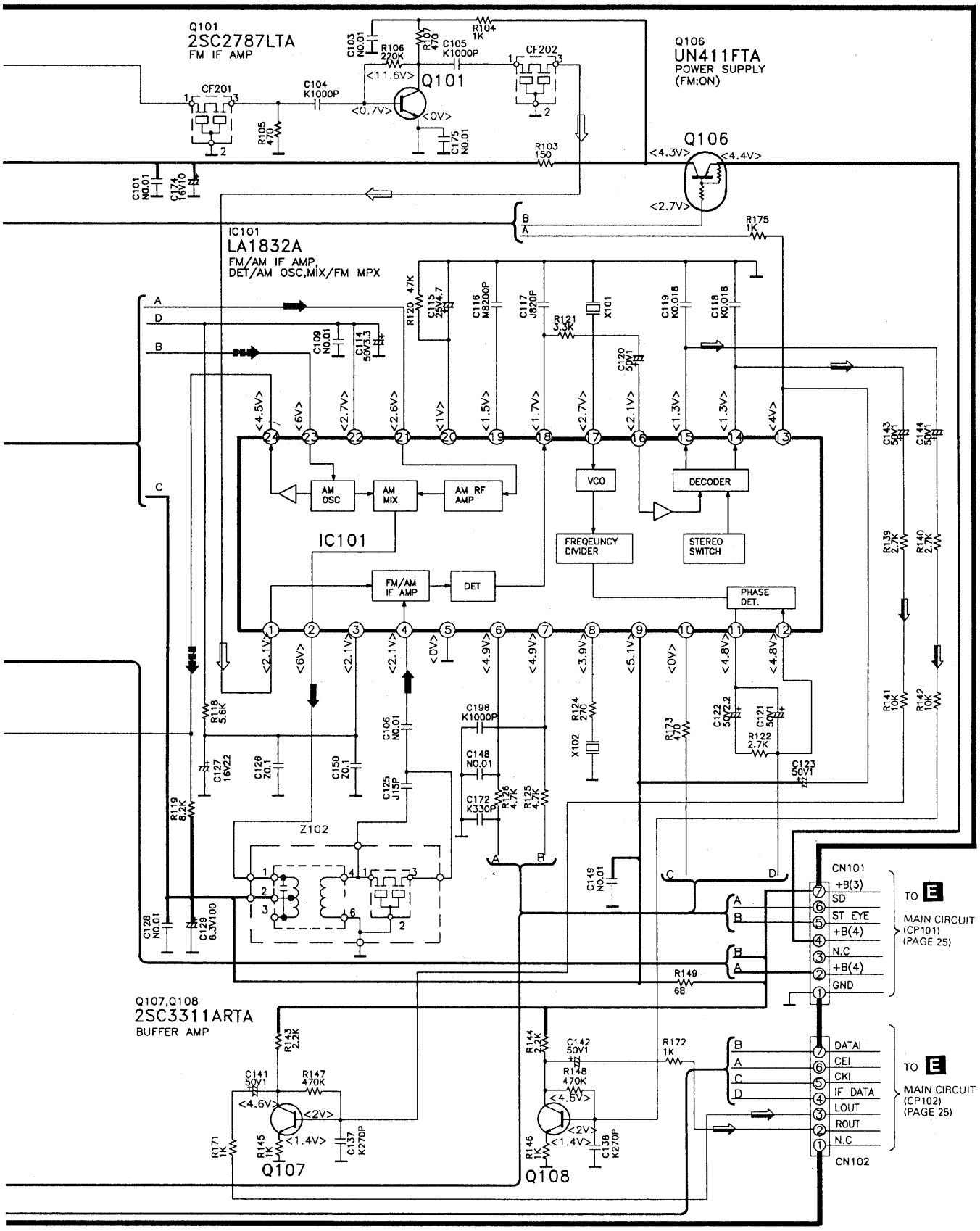
G TRANSFORMER CIRCUIT

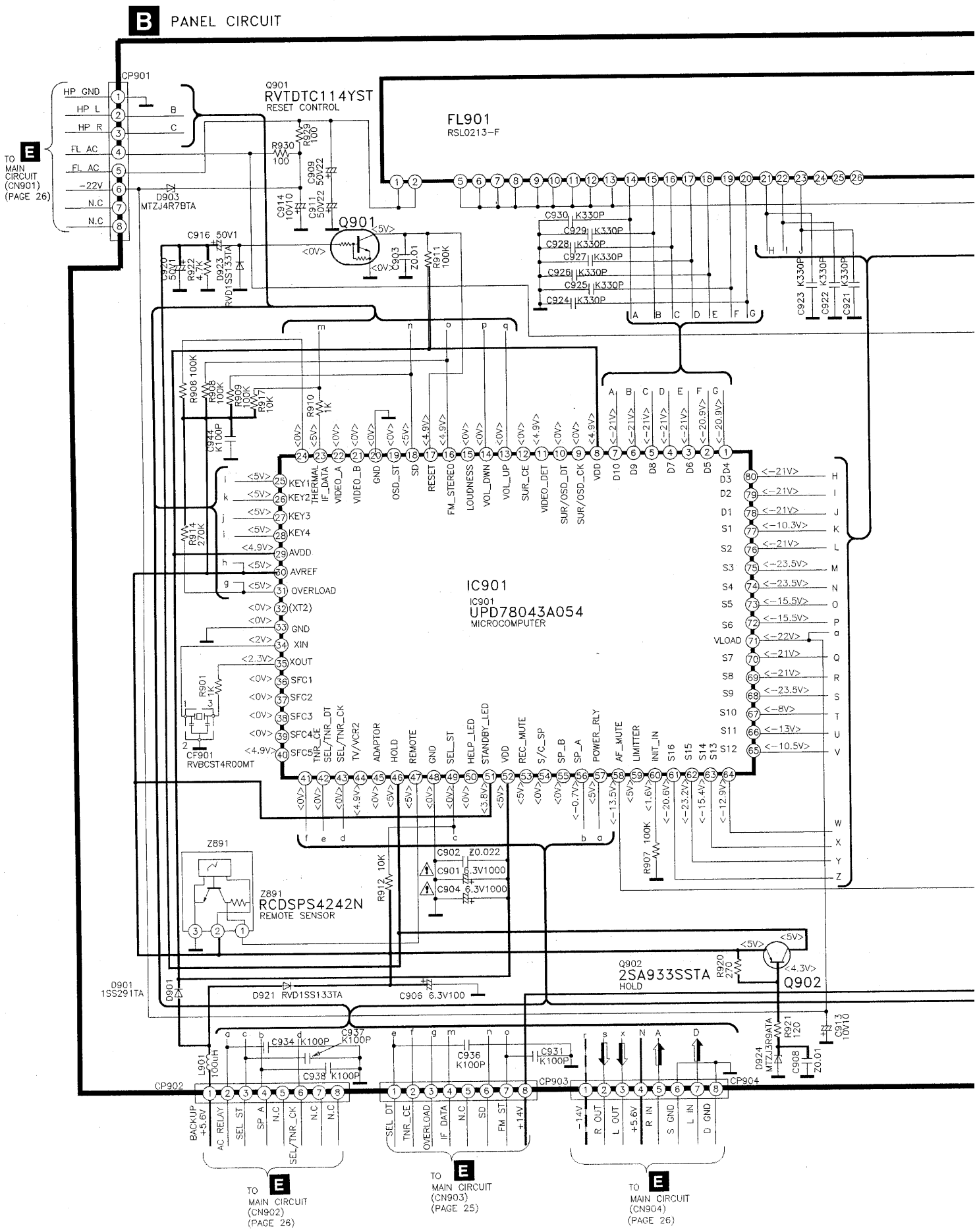
D HEADPHONE JACK CIRCUIT

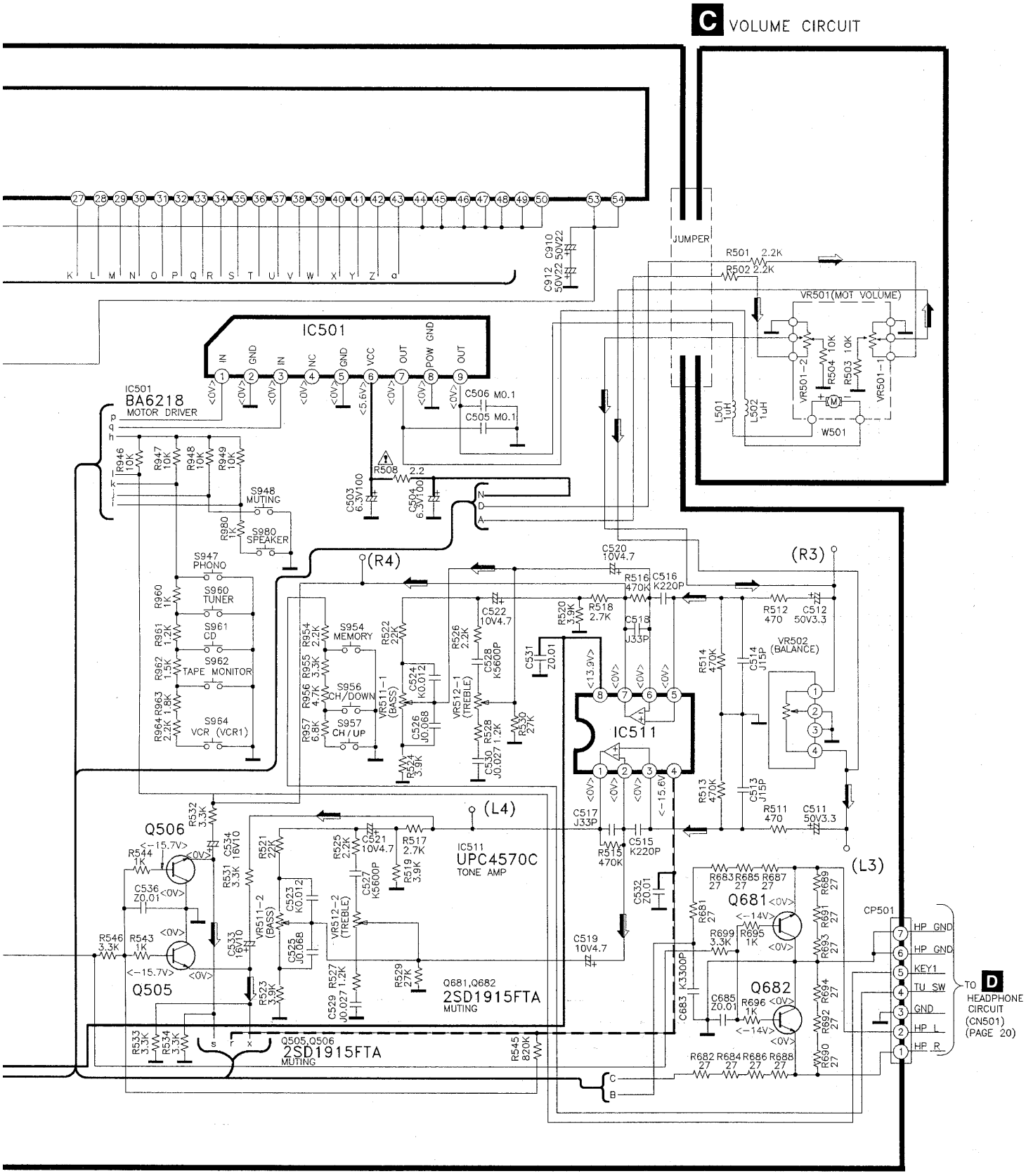
H OPERATION CIRCUIT



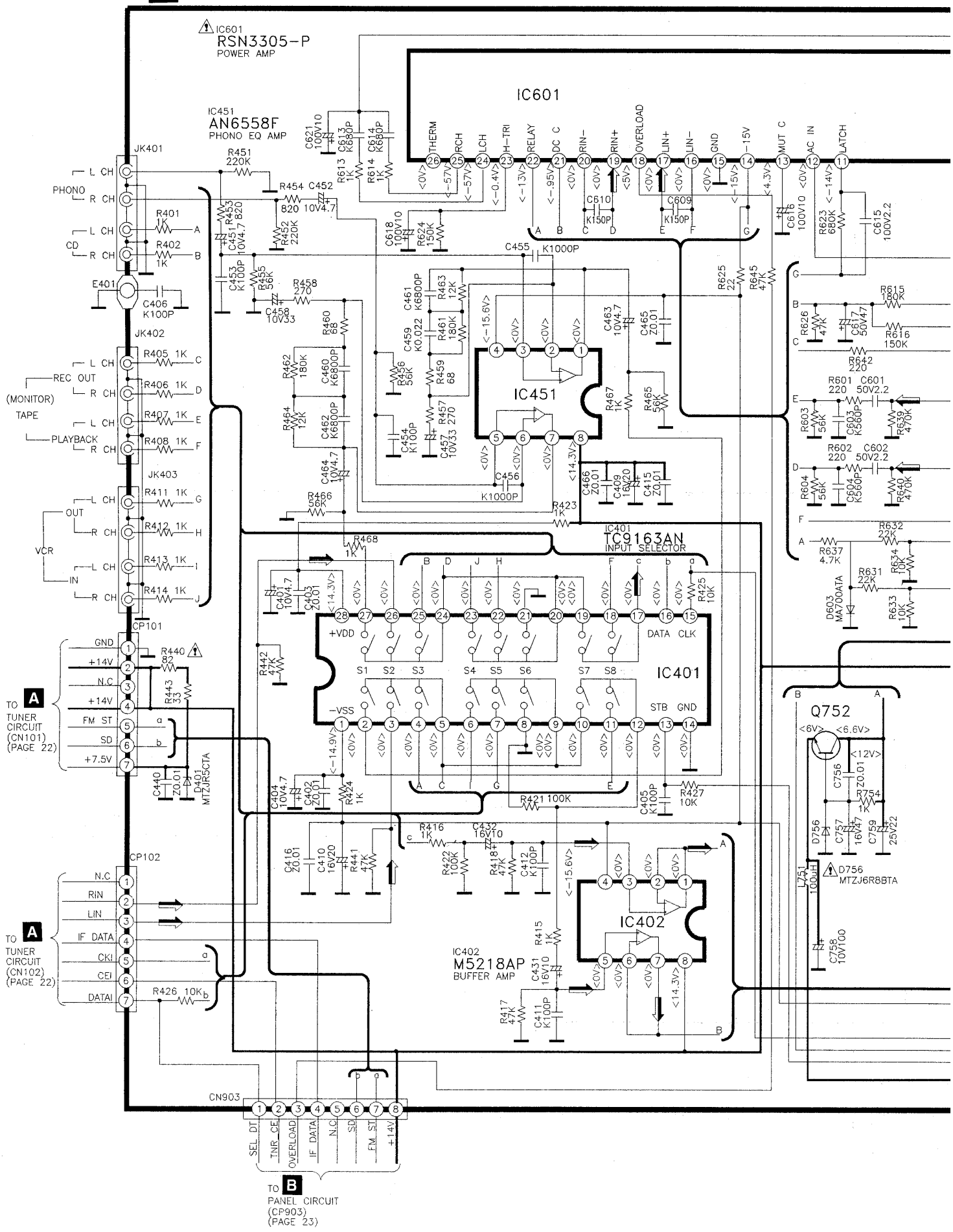

J TUNER PACK CIRCUIT
Q1 2SK544F-AC RF AMP
Q2 2SC2786MKTA FM MIXER
Q3,Q4 2SC2787LITA BUFFER AMP
A TUNER CIRCUIT
JK101
FM ANT
75Ω
GND
AM ANT
AM LOOP ANT
Z101
AM ANT
AM OSC
IC102
XOUT VSS PD2 PDI VDD FM IN AM IN MONO HCTR LCTR FM (LW)
XIN CE DI CL DO SYC INO INI AM NC STRQ MUTE
Q103
Q104
Q103,Q104 2SC2785FETA FM/AM LOOP FILTER
IC102 LC7218 PLL FREQUENCY SYNTHESIZER
D101 MTZJSR18TA
D102 RVD1SS133TA
X103

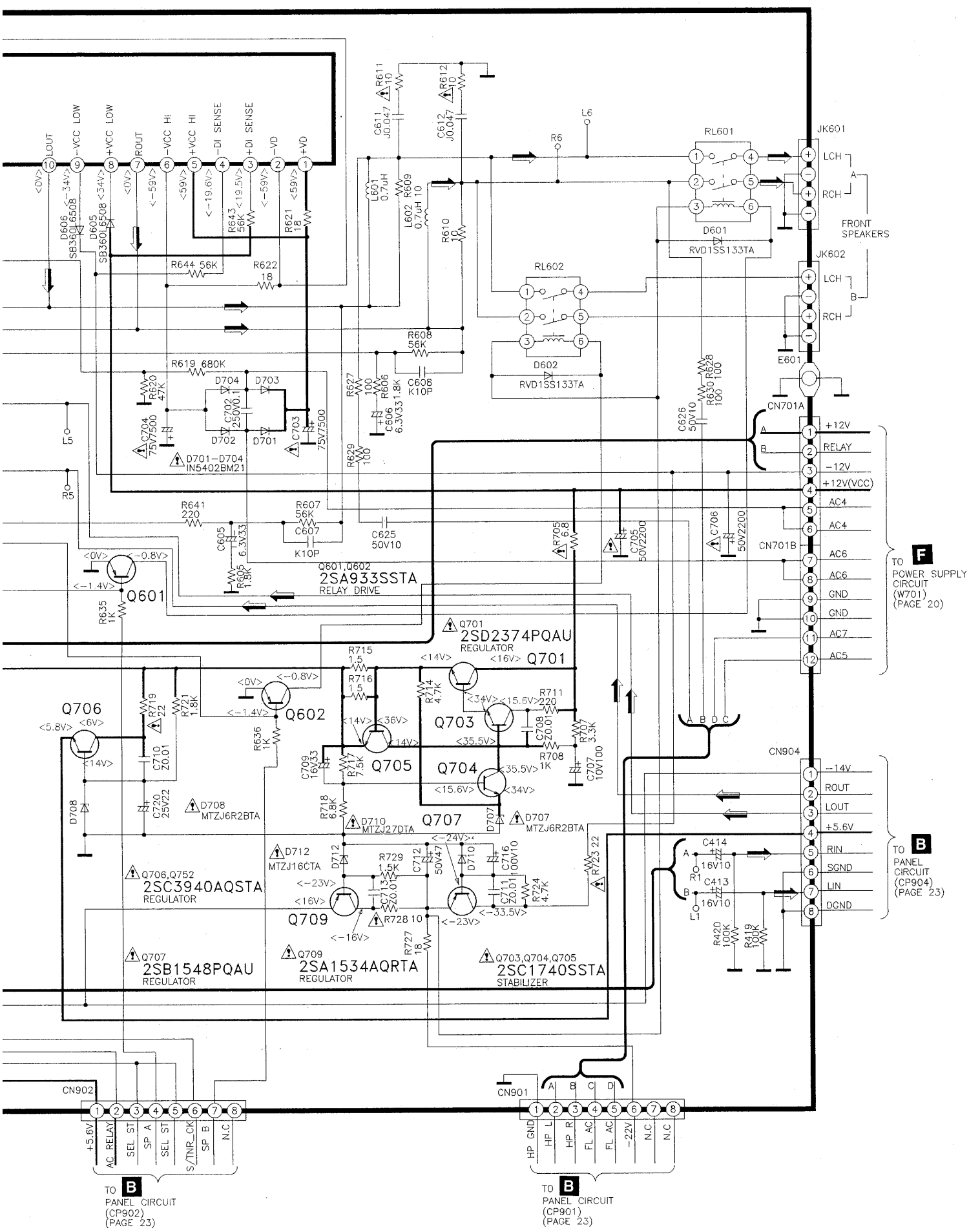

Q101
2SC2787LTA
FM IF AMP
Q106
UN411FTA
POWER SUPPLY
(FM:ON)
IC101
LA1832A
FM/AM IF AMP,
DET/AM OSC,MIX/FM MPX
AM OSC
AM MIX
AM RF AMP
VCO
DECODER
FREQEUNCY DIVIDER
STEREO SWITCH
FM/AM IF AMP
DET
PHASE DET.
Z102
Q107,Q108
2SC3311ARTA
BUFFER AMP
Q107
Q108
CN101
+B(3)
SD
ST EYE
+B(4)
N.C
+B(4)
GND
TO E
MAIN CIRCUIT
(CP101)
(PAGE 25)
CN102
DATAI
CEI
CKI
IF DATA
LOUT
ROUT
N.C
TO E
MAIN CIRCUIT
(CP102)
(PAGE 25)


B PANEL CIRCUIT
CP901
HP GND
HP L
HP R
FL AC
FL AC
-22V
N.C
N.C
TO E MAIN CIRCUIT (CN901) (PAGE 26)
Q901
RVTDTC114YST
RESET CONTROL
FL901
RSL0213-F
D903
MTZJ4R7BTA
C916 50V1
D923 1SS133TA
RVD1SS133TA
Q901
C903 Z0.01
R911 100K
C930 K330P
C929 K330P
C928 K330P
C927 K330P
C926 K330P
C925 K330P
C924 K330P
C923 K330P
C922 K330P
C921 K330P
R906 100K
R908 100K
R909 100K
R917 10K
R910 1K
C944 K100P
R914 270K
IC901
IC901
UPD78043A054
MICROCOMPUTER
KEY1
KEY2
KEY3
KEY4
AVDD
AVREF
OVERLOAD
(XT2)
GND
XIN
XOUT
SFC1
SFC2
SFC3
SFC4
SFC5
R901 1K
CF901
RVBCST4R00MT
THERMAL
IF_DATA
VIDEO_A
VIDEO_B
GND
OSD_ST
SD
RESET
FM_STEREO
LOUDNESS
VOL_DWN
VOL_UP
SUR_CE
VIDEO_DET
SUR/OSD_DT
SUR/OSD_CK
VDD
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
S1
S2
S3
S4
S5
S6
VLOAD
S7
S8
S9
S10
S11
S12
TNR_CE
SEL/TNR_DT
SEL/TNR_CK
TV/VCR2
ADAPTOR
HOLD
REMOTE
GND
SEL_ST
HELP_LED
STANDBY_LED
VDD
REC_MUTE
S/C_SP
SP_B
SP_A
POWER_RLY
AF_MUTE
LIMITTER
INIT_IN
S16
S15
S14
S13
R907 100K
Z891
Z891
RCDSPS4242N
REMOTE SENSOR
R912 10K
C902 Z0.022
C901 6.3V1000
C904 6.3V1000
Q902
2SA933SSTA
HOLD
R920 270
Q902
D901
1SS291TA
D921 RVD1SS133TA
C906 6.3V100
C934 K100P
C937 K100P
C938 K100P
C936 K100P
C931 K100P
L901 100uH
D924 MTZJ3R9ATA
R921 120
C908 Z0.01
C913 10V10
CP902
CP903
CP904
BACKUP +5.6V
AC RELAY
SEL_ST
SP_A
N.C
SEL/TNR_CK
N.C
N.C
SEL_DT
TNR_CE
OVERLOAD
IF_DATA
N.C
SD
FM_ST
+14V
-14V
R_OUT
L_OUT
+5.6V
R_IN
S_GND
L_IN
D_GND
TO E MAIN CIRCUIT (CN902) (PAGE 26)
TO E MAIN CIRCUIT (CN903) (PAGE 25)
TO E MAIN CIRCUIT (CN904) (PAGE 26)

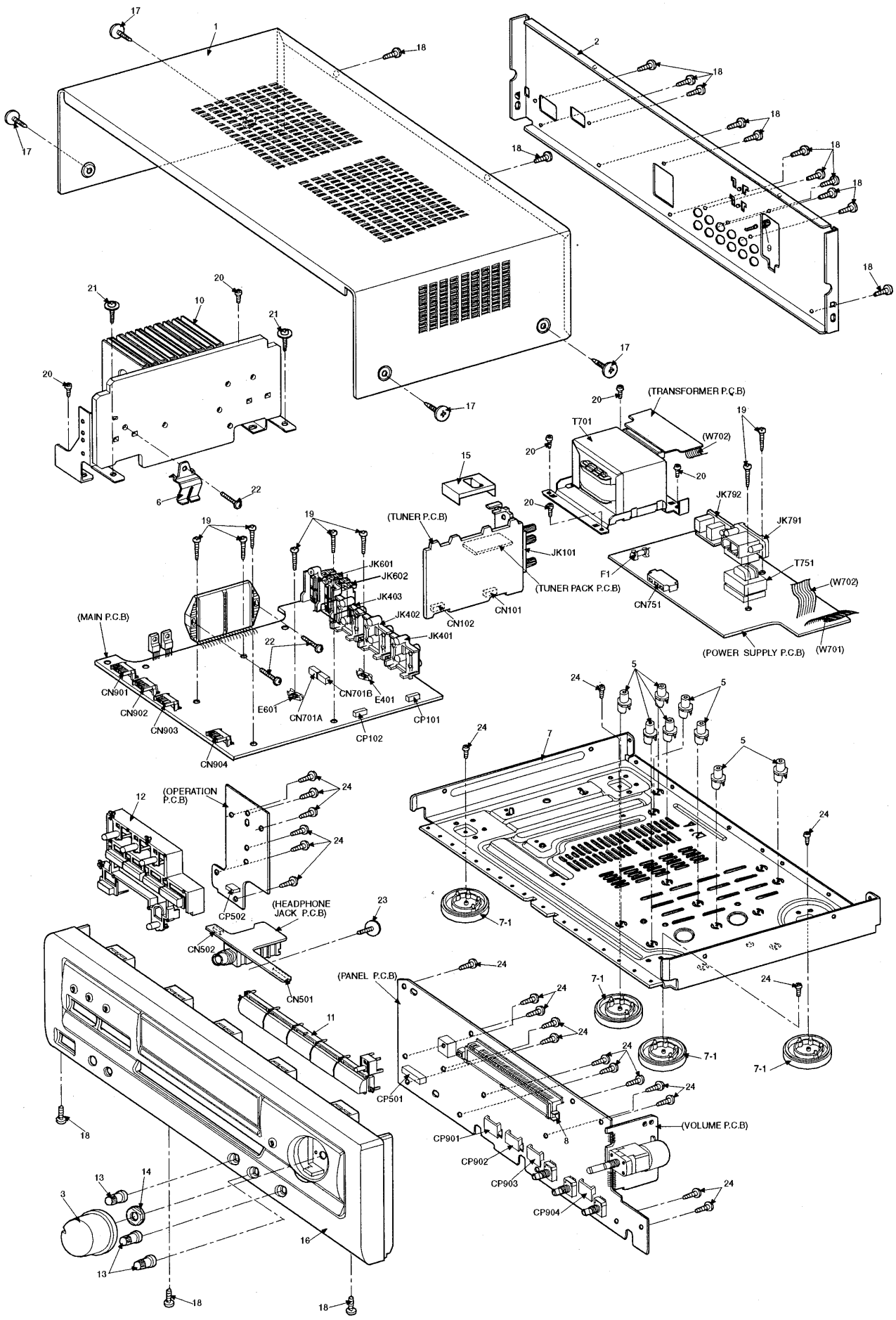

C VOLUME CIRCUIT
IC501
BA6218
MOTOR DRIVER
IN
GND
IN
NC
GND
VCC
OUT
POW GND
OUT
JUMPER
R501 2.2K
R502 2.2K
VR501(MOT VOLUME)
VR501-2
VR501-1
R504 10K
R503 10K
L501 1uH
L502 1uH
W501
C910 50V22
C912 50V22
C506 M0.1
C505 M0.1
R508 2.2
C503 6.3V100
C504 6.3V100
R946 10K
R947 10K
R948 10K
R949 10K
S948 MUTING
R980 1K
S980 SPEAKER
S947 PHONO
S960 TUNER
S961 CD
S962 TAPE MONITOR
S964 VCR (VCR1)
R960 1K
R961 1.2K
R962 1.5K
R963 1.8K
R964 2.2K
S954 MEMORY
S956 CH/DOWN
S957 CH/UP
R954 2.2K
R955 3.3K
R956 4.7K
R957 6.8K
R522 22K
R526 2.2K
C522 10V4.7
C528 K5600P
C524 K0.012
C526 J0.068
C530 J0.027
R528 1.2K
R529 27K
R524 3.9K
VR511-1 (BASS)
VR512-1 (TREBLE)
C531 Z0.01
R520 3.9K
R518 2.7K
C518 J33P
C520 10V4.7
R516 470K
C516 K220P
R512 470
C512 50V3.3
VR502 (BALANCE)
C514 J15P
R514 470K
C513 J15P
R513 470K
R511 470
C511 50V3.3
IC511
UPC4570C
TONE AMP
C517 J33P
R515 470K
C515 K220P
C532 Z0.01
C519 10V4.7
(R4)
(R3)
(L4)
(L3)
Q506
Q505
R544 1K
R546 3.3K
R543 1K
R532 3.3K
R531 3.3K
C534 16V10
C536 Z0.01
C533 16V10
R521 22K
R525 2.2K
C521 10V4.7
R517 2.7K
R519 3.9K
C527 K5600P
C523 K0.012
C525 J0.068
R527 1.2K
R523 3.9K
VR511-2 (BASS)
VR512-2 (TREBLE)
Q505,Q506
2SD1915FTA
MUTING
Q681,Q682
2SD1915FTA
MUTING
Q681
Q682
R683 27
R685 27
R687 27
R681 27
R699 3.3K
R695 1K
R696 1K
R698 27
R693 27
R691 27
R694 27
R692 27
R690 27
C683 K3300P
C685 Z0.01
R682 27
R684 27
R686 27
R688 27
R545 820K
CP501
HP GND
HP GND
KEY1
TU SW
GND
HP L
HP R
TO D HEADPHONE CIRCUIT (CN501) (PAGE 20)

E MAIN CIRCUIT




LOUT
-VCC LOW
+VCC LOW
ROUT
-VCC HI
+VCC HI
-DI SENSE
+DI SENSE
-VD
+VD
D606 SB360I 6508
D605 SB360I 6508
R644 56K
R622 18
R619 680K
R620 47K
D704
D703
D702
D701
C702 250V0.1
C703
C704 75V7500
C703 75V7500
D701-D704 IN5402BM21
R643 56K
R621 18
L601 0.7uH
L602 0.7uH
R609 10
R610 10
R611 10
R612 10
C611 J0.047
C612 J0.047
R608 56K
C608 K10P
R627 100
R606 6.3V33 1.8K
C606 6.3V33
R629 100
RL601
RL602
D601 RVD1SS133TA
D602 RVD1SS133TA
JK601
JK602
LCH
RCH
FRONT SPEAKERS
E601
R628 100
R630 100
C626 50V10
CN701A
CN701B
+12V
RELAY
-12V
+12V(VCC)
AC4
AC4
AC6
AC6
GND
GND
AC7
AC5
TO F POWER SUPPLY CIRCUIT (W701) (PAGE 20)
R641 220
R607 56K
C607 K10P
C605 6.3V33
R605 1.8K
C625 50V10
R705 6.8
C705 50V2200
C706 50V2200
Q601,Q602 2SA933SSTA RELAY DRIVE
Q601
R635 1K
Q701 2SD2374PQAU REGULATOR
Q701
R715 1.5
R716 1.5
R714 4.7K
R711 220
Q703
C708 Z0.01
R707 3.3K
R708 1K
C707 10V100
Q705
R717 7.5K
C709 16V33
Q704
Q706
R719 22
R721 1.8K
C710 Z0.01
C720 25V22
D708
D708 MTZJ6R2BTA
Q602
R636 1K
R718 6.8K
D710 MTZJ27DTA
Q707
D707
D707 MTZJ6R2BTA
D712 MTZJ16CTA
R729 1.5K
C712 50V47
C713 Z0.01
Q709
R728 10
R727 18
C711 Z0.01
C716 100V10
R724 4.7K
R723 22
Q706,Q752 2SC3940AQSTA REGULATOR
Q707 2SB1548PQAU REGULATOR
Q709 2SA1534AQRTA REGULATOR
Q703,Q704,Q705 2SC1740SSTA STABILIZER
C414 16V10
C413 16V10
R420 100K
R419 100K
CN904
-14V
ROUT
LOUT
+5.6V
RIN
SGND
LIN
DGND
TO B PANEL CIRCUIT (CP904) (PAGE 23)
CN902
+5.6V
AC RELAY
SEL ST
SP A
SEL ST
S/TNR_CK
SP B
N.C
TO B PANEL CIRCUIT (CP902) (PAGE 23)
CN901
HP GND
HP L
HP R
FL AC
FL AC
-22V
N.C
N.C
TO B PANEL CIRCUIT (CP901) (PAGE 23)

■ 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
		CABINET AND CHASSIS	
1	RKM0260C-K	CABINET	[M]
2	RGR0178J-A	REAR PANEL	[M](P)
2	RGR0178J-B	REAR PANEL	[M](PC)
3	RGW0243A-K	VOLUME KNOB	[M]
5	RKQ0089	PCB HOLDER	[M]
6	RMC0158	TRANSISTOR HOLDER	[M]
7	RFKJEX110PK	BOTTOM CHASSIS ASS'Y	[M]
7-1	RKA0079-A	FOOT	[M]
8	RMN0372	FL HOLDER	[M]
9	SNE2123	EARTH TERMINAL	[M]
10	RXX0169	HEAT SINK UNIT	[M]
11	RGU1349-K	SELECTOR BUTTON	[M]
12	RGU1350-K	MODE BUTTON	[M]
13	RGW0244-K1	BASS TREBLE KNOB	[M]
14	RHN90001	M9 NUT	[M]
15	RSC0027-1	SHIELD CASE	[M]
16	RFKGEX110PK	FRONT PANEL ASS'Y	[M]
17	SNE2129-1	SCREW (CABINET)	[M]
18	XTBS3+8JFZ1	SCREW	[M]
19	XTB3+20JFZ	SCREW	[M]
20	XTB3+8FFZ	SCREW	[M]
21	XTWS3+8T	SCREW	[M]
22	XTW3+15T	SCREW	[M]
23	RHD26016	SCREW	[M]
24	XTBS26+10J	SCREW (FRONT)	[M]
		INTEGRATED CIRCUITS	
IC101	LA1832A	IF/MPX IC	[M]
IC102	LC7218	PLL IC	[M]
IC401	TC9163AN	SELECTOR IC	[M]
IC402	M5218AP	BUFFER AMP	[M]
IC451	AN6558F	OP AMP IC	[M]
IC501	BA6218	MOTOR DRIVER IC	[M]
IC511	UPC4570C	TONE CONTROL IC	[M]
IC601	RSN3305-P	HIC	[M]⚠
IC901	UPD78043A054	MICROCOMPUTER	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		TRANSISTORS	
Q1	2SK544F-AC	TRANSISTOR	[M]
Q2	2SC2786MTA	TRANSISTOR	[M]
Q3	2SC2787FL1TA	TRANSISTOR	[M]
Q4	2SC2787FL1TA	TRANSISTOR	[M]
Q101	2SC2787LTA	TRANSISTOR	[M]
Q103	2SC2785FETA	TRANSISTOR	[M]
Q104	2SC2785FETA	TRANSISTOR	[M]
Q107	2SC3311ARTA	TRANSISTOR	[M]
Q108	2SC3311ARTA	TRANSISTOR	[M]
Q505	2SD1915FTA	TRANSISTOR	[M]
Q506	2SD1915FTA	TRANSISTOR	[M]
Q601	2SA933SSTA	TRANSISTOR	[M]
Q602	2SA933SSTA	TRANSISTOR	[M]
Q681	2SD1915FTA	TRANSISTOR	[M]
Q682	2SD1915FTA	TRANSISTOR	[M]
Q701	2SD2374PQAU	TRANSISTOR	[M]⚠
Q703	2SC1740SSTA	TRANSISTOR	[M]⚠
Q704	2SC1740SSTA	TRANSISTOR	[M]⚠
Q705	2SC3311AQSTA	TRANSISTOR	[M]⚠
Q706	2SC3940AQSTA	TRANSISTOR	[M]⚠
Q707	2SB1548PQAU	TRANSISTOR	[M]⚠
Q709	2SA1534AQRTA	TRANSISTOR	[M]⚠
Q751	RVTDTC143XST	TRANSISTOR	[M]
Q752	2SC3940AQSTA	TRANSISTOR	[M]⚠
Q901	RVTDTC114YST	TRANSISTOR	[M]
Q902	2SA933SSTA	TRANSISTOR	[M]
		DIODES	
D1	SVC211SPA-AL	DIODE	[M]
D2	SVC211SPA-AL	DIODE	[M]
D3	SVC211SPA-AL	DIODE	[M]
D101	MTZJ5R1BTA	DIODE	[M]
D102	RVD1SS133TA	DIODE	[M]
D401	MTZJ7R5CTA	DIODE	[M]
D601	RVD1SS133TA	DIODE	[M]
D602	RVD1SS133TA	DIODE	[M]

Ref No.	Part No.	Part Name & Description	Remarks
D603	MA700ATA	DIODE	[M]
D605	SB360L6508	DIODE	[M]
D606	SB360L6508	DIODE	[M]
D701	1N5402BM21	DIODE	[M]⚠
D702	1N5402BM21	DIODE	[M]⚠
D703	1N5402BM21	DIODE	[M]⚠
D704	1N5402BM21	DIODE	[M]⚠
D707	MTZJ6R2BTA	DIODE	[M]⚠
D708	MTZJ6R2BTA	DIODE	[M]⚠
D710	MTZJ27DTA	DIODE	[M]⚠
D712	MTZJ16CTA	DIODE	[M]⚠
D721	1N5402BM21	DIODE	[M]⚠
D722	1N5402BM21	DIODE	[M]⚠
D723	1N5402BM21	DIODE	[M]⚠
D724	1N5402BM21	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]⚠
D901	1SS291TA	DIODE	[M]
D903	MTZJ4R7BTA	DIODE	[M]
D921	RVD1SS133TA	DIODE	[M]
D923	RVD1SS133TA	DIODE	[M]
D924	MTZJ3R9ATA	DIODE	[M]
		VARIABLE RESISTORS	
VR501	EUWMGB026B15	MOTOR VOLUME	[M]
VR502	EVJ02QF01G15	BALANCE CONTROL VR	[M]
VR511	EVJYA1F01C15	TONE CONTROL VR	[M]
VR512	EVJYA1F01C15	TONE CONTROL VR	[M]
		SWITCHES	
S946	EVQ21405R	TACK SWITCH	[M]
S947	EVQ21405R	TACK SWITCH	[M]
S948	EVQ21405R	TACK SWITCH	[M]

Ref No.	Part No.	Part Name & Description	Remarks
S950	EVQ21405R	TACK SWITCH	[M]
S951	EVQ21405R	TACK SWITCH	[M]
S952	EVQ21405R	TACK SWITCH	[M]
S953	EVQ21405R	TACK SWITCH	[M]
S954	EVQ21405R	TACK SWITCH	[M]
S956	EVQ21405R	TACK SWITCH	[M]
S957	EVQ21405R	TACK SWITCH	[M]
S960	EVQ21405R	TACK SWITCH	[M]
S961	EVQ21405R	TACK SWITCH	[M]
S962	EVQ21405R	TACK SWITCH	[M]
S964	EVQ21405R	TACK SWITCH	[M]
S980	EVQ21405R	TACK SWITCH	[M]
		CONNECTORS	
CN101	RJU057W007	7P CONNECTOR	[M]
CN102	RJU057W007	7P CONNECTOR	[M]
CN501	RJU100W07	7P CONNECTOR	[M]
CN502	RJU100W04	4P CONNECTOR	[M]
CN701A	RJS1A6606	6PINS STAPING CONNEC	[M]
CN751	SJS305-1	3P CONNECTOR	[M]
CN901	RJU003K008M1	BOAD IN CONNECTOR	[M]
CN902	RJU003K008M1	BOAD IN CONNECTOR	[M]
CN903	RJU003K008M1	BOAD IN CONNECTOR	[M]
CN904	RJU003K008M1	BOAD IN CONNECTOR	[M]
CP101	RJT057W007-1	7P CONNECTOR	[M]
CP102	RJT057W007-1	7P CONNECTOR	[M]
CP501	RJT100W07	7P CONNECTOR	[M]
CP502	RJT100W04	4P CONNECTOR	[M]
CP901	RJT003K008M1	8P CONNECTOR	[M]
CP902	RJT003K008M1	8P CONNECTOR	[M]
CP903	RJT003K008M1	8P CONNECTOR	[M]
CP904	RJT003K008M1	8P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L1	RLQZP1R2JT-Y	RF CHOKE COIL	[M]
L2	RLQZPR47KT-Y	RF CHOKE COIL	[M]
L101	ELESN1R5MA	CHOKE COIL	[M]
L103	ELEXTR47MA9	CHOKE COIL	[M]
L501	RLQZP1R0KT-Y	AXIAL COIL	[M]
L502	RLQZP1R0KT-Y	AXIAL COIL	[M]
L601	RLQYR73MW-E	CHOKE COIL	[M]
L602	RLQYR73MW-E	CHOKE COIL	[M]
L751	ELESN101KA	CHOKE COIL	[M]
L901	RLQB101KTA-Y	CHOKE COIL	[M]
T701	RTP1N5C015-X	TRANSFORMER	[M]⚠
T751	RTP1H5C001-V	TRANSFORMER	[M]⚠

Ref No.	Part No.	Part Name & Description	Remarks
		COMPONENT COMBINATION	
Z101	RLA2Z002M-T	AM ANT. COIL	[M]
Z102	RLI2Z006M-T	AM IFT	[M]
Z751	ERZV10V511CS	ZNR	[M]⚠
Z891	RCDSPS4242N	REMOTE SENSOR	[M]
		CERAMIC FILTERS	
CF201	RLFFETMGD01L	CERAMIC FILTER	[M]
CF202	RLFFETMGD01L	CERAMIC FILTER	[M]
CF901	RVBCST4R00MT	CERAMIC OSCILLATOR	[M]
		OSCILLATORS	
X101	RSXZ456KM07M	CERAMIC OSCILLATOR	[M]
X102	RLFDGTD01I	FM REZONATOR	[M]
X103	SVQ49U722T-S	CRYSTAL 7.2MHZ	[M]
		DISPLAY TUBE	
FL901	RSL0213-F	FL	[M]
		FUSES	
F1	XBA1C50NBAL	FUSE	[M]⚠
		FUSE CLIPS	
FC701	EYF52BC	FUSE HOLDER	[M]
FC702	EYF52BC	FUSE HOLDER	[M]
		JACKS	
JK101	RJH4405	ANT TERMINAL	[M]
JK401	SJF3069N	LINE IN JACK	[M]
JK402	SJF3069N	LINE IN JACK	[M]
JK403	SJF3069N	LINE IN JACK	[M]
JK601	RJR0054	SP TERMINAL	[M]
JK602	RJR0054	SP TERMINAL	[M]
JK791	SJSD16-1	AC INLET	[M]⚠
JK792	RJS1A1602-2S	AC OUTLET	[M]⚠
		RELAYS	
RL601	RSY0013M-0	RELAY	[M]
RL602	RSY0013M-0	RELAY	[M]
RL751	RSY0019M-0	12V TV-5 RELAY	[M]⚠

Ref No.	Part No.	Part Name & Description	Remarks
		HEADPHONES	
HP601	RJJ63TS01	HEADPHONES JACK	[M]
		EARTH TERMINALS	
E401	SNE1004-2	EARTH TERMINAL	[M]
E601	SNE1004-2	EARTH TERMINAL	[M]
		PACKING MATERIALS	
P1	SPSD152	ACCESSORY BOX	[M]
P2	RPG3289	PACKING CASE	[M]
P3	RPN0865	POLYFOAM	[M]
P4	RPFX0005	MIRAMAT BAG	[M]
P5	SPB1061	BAG	[M]
		ACCESSORIES	
A1	EUR644346	REMOTE CONTROL	[M]
A1-1	UR64EC1822	REM CON. BATT/COVER	[M]
A2	RSA0010	LOOP ANT UNIT	[M]
A3	SJA172	AC CORD	[M]⚠(SF)
A4	RSA0006	FM ANTENNA WIRE	[M]
A5	RFKSEX110PK	O/I BOOK ASS'Y	[M](P)
A5	RFKSEX110PCK	O/I BOOK ASS'Y	[M](PC)

■ 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
R1	ERDS2TJ104T	100K 1/4W [M]
R2	ERDS2TJ104T	100K 1/4W [M]
R3	ERDS2TJ221T	220 1/4W [M]
R4	ERDS2TJ104T	100K 1/4W [M]
R5	ERDS2TJ564T	560K 1/4W [M]
R6	ERDS2TJ391T	390 1/4W [M]
R7	ERDS2TJ272T	2.7K 1/4W [M]
R8	ERDS2TJ684T	680K 1/4W [M]
R9	ERDS2TJ391T	390 1/4W [M]
R10	ERDS2TJ391T	390 1/4W [M]
R11	ERDS2TJ684T	680K 1/4W [M]
R103	ERDS2TJ151T	150 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	ERDS2TJ104T	100K 1/4W [M]
R118	ERDS2TJ562T	5.6K 1/4W [M]
R119	ERDS2TJ822T	8.2K 1/4W [M]
R120	ERDS2TJ473T	47K 1/4W [M]
R121	ERDS2TJ332T	3.3K 1/4W [M]
R122	ERDS2TJ272T	2.7K 1/4W [M]
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	ERDS2TJ103T	10K 1/4W [M]
R142	ERDS2TJ103T	10K 1/4W [M]
R143	ERDS2TJ222T	2.2K 1/4W [M]
R144	ERDS2TJ222T	2.2K 1/4W [M]
R145	ERDS2TJ102T	1K 1/4W [M]
R146	ERDS2TJ102T	1K 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]
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]
R411	ERDS2TJ102T	1K 1/4W [M]
R412	ERDS2TJ102T	1K 1/4W [M]
R413	ERDS2TJ102T	1K 1/4W [M]
R414	ERDS2TJ102T	1K 1/4W [M]
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	ERDS2TJ821T	820 1/4W [M]
R454	ERDS2TJ821T	820 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]
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]
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]
R515	ERDS2TJ474T	470K 1/4W [M]
R516	ERDS2TJ474T	470K 1/4W [M]
R517	ERDS2TJ272T	2.7K 1/4W [M]
R518	ERDS2TJ272T	2.7K 1/4W [M]
R519	ERDS2TJ392T	3.9K 1/4W [M]
R520	ERDS2TJ392T	3.9K 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	ERDS2TJ332T	3.3K 1/4W [M]
R534	ERDS2TJ332T	3.3K 1/4W [M]
R543	ERDS2TJ102T	1K 1/4W [M]
R544	ERDS2TJ102T	1K 1/4W [M]
R545	ERDS2TJ824T	820K 1/4W [M]
R546	ERDS2TJ332T	3.3K 1/4W [M]
R601	ERDS2TJ221T	220 1/4W [M]
R602	ERDS2TJ221T	220 1/4W [M]
R603	ERDS2TJ563T	56K 1/4W [M]
R604	ERDS2TJ563T	56K 1/4W [M]
R605	ERDS2TJ182T	1.8K 1/4W [M]
R606	ERDS2TJ182T	1.8K 1/4W [M]
R607	ERDS2TJ563T	56K 1/4W [M]
R608	ERDS2TJ563T	56K 1/4W [M]
R609	ERDS2TJ100T	10 1/4W [M]
R610	ERDS2TJ100T	10 1/4W [M]
R611	ERDS1FVJ100T ⚠	10 1/2W [M]
R612	ERDS1FVJ100T ⚠	10 1/2W [M]
R613	ERDS2TJ102T	1K 1/4W [M]
R614	ERDS2TJ102T	1K 1/4W [M]
R615	ERDS2TJ184T	180K 1/4W [M]
R616	ERDS2TJ154T	150K 1/4W [M]
R619	ERDS2TJ684T	680K 1/4W [M]
R620	ERDS2TJ473T	47K 1/4W [M]
R621	ERD25FVJ180T	18 1/4W [M]
R622	ERD25FVJ180T	18 1/4W [M]
R623	ERDS2TJ684T	680K 1/4W [M]
R624	ERDS2TJ154T	150K 1/4W [M]
R625	ERD25FVJ220T	22 1/4W [M]
R626	ERDS2TJ473T	47K 1/4W [M]
R627	ERG1SJ101E	100 1W [M]
R628	ERG1SJ101E	100 1W [M]
R629	ERG1SJ101E	100 1W [M]
R630	ERG1SJ101E	100 1W [M]
R631	ERDS2TJ223T	22K 1/4W [M]
R632	ERDS2TJ223T	22K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R633	ERDS2TJ103T	10K 1/4W [M]
R634	ERDS2TJ103T	10K 1/4W [M]
R635	ERDS2TJ102T	1K 1/4W [M]
R636	ERDS2TJ102T	1K 1/4W [M]
R637	ERDS2TJ472T	4.7K 1/4W [M]
R639	ERDS2TJ474T	470K 1/4W [M]
R640	ERDS2TJ474T	470K 1/4W [M]
R641	ERDS2TJ221T	220 1/4W [M]
R642	ERDS2TJ221T	220 1/4W [M]
R643	ERDS2TJ563T	56K 1/4W [M]
R644	ERDS2TJ563T	56K 1/4W [M]
R645	ERDS2TJ473T	47K 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]
R705	ERDS1FVJ6R8T ⚠	6.8 1/2W [M]
R707	ERDS2TJ332T	3.3K 1/4W [M]
R708	ERDS2TJ102T	1K 1/4W [M]
R711	ERD25FVJ221T	220 1/4W [M]
R714	ERDS2TJ472T	4.7K 1/4W [M]
R715	ERDS2TJ1R5T	1.5 1/4W [M]
R716	ERDS2TJ1R5T	1.5 1/4W [M]
R717	ERDS2TJ752T	7.5K 1/4W [M]
R718	ERDS2TJ682T	6.8K 1/4W [M]
R719	ERDS1FVJ220T ⚠	22 1/2W [M]
R721	ERDS2TJ182T	1.8K 1/4W [M]
R723	ERDS1FVJ220T ⚠	22 1/2W [M]
R724	ERDS2TJ472T	4.7K 1/4W [M]
R727	ERD25FVJ180T	18 1/4W [M]
R728	ERDS1FVJ100T ⚠	10 1/2W [M]
R729	ERDS2TJ152T	1.5K 1/4W [M]
R751	ERC12UGK335D ⚠	3.3M 1/2W[M](PC)
R751	ERC12ZGK335D ⚠	3.3M 1/2W[M](P)
R754	ERDS2TJ102T	1K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R901	ERDS2TJ102T	1K 1/4W [M]
R906	ERDS2TJ104T	100K 1/4W [M]
R907	ERDS2TJ104T	100K 1/4W [M]
R908	ERDS2TJ104T	100K 1/4W [M]
R909	ERDS2TJ104T	100K 1/4W [M]
R910	ERDS2TJ102T	1K 1/4W [M]
R911	ERDS2TJ104T	100K 1/4W [M]
R912	ERDS2TJ103T	10K 1/4W [M]
R914	ERDS2TJ274T	270K 1/4W [M]
R917	ERDS2TJ103T	10K 1/4W [M]
R920	ERDS2TJ271T	270 1/4W [M]
R921	ERDS2TJ121T	120 1/4W [M]
R922	ERDS2TJ472T	4.7K 1/4W [M]
R929	ERDS2TJ101T	100 1/4W [M]
R930	ERDS2TJ101T	100 1/4W [M]
R946	ERDS2TJ103T	10K 1/4W [M]
R947	ERDS2TJ103T	10K 1/4W [M]
R948	ERDS2TJ103T	10K 1/4W [M]
R949	ERDS2TJ103T	10K 1/4W [M]
R950	ERDS2TJ102T	1K 1/4W [M]
R951	ERDS2TJ122T	1.2K 1/4W [M]
R952	ERDS2TJ152T	1.5K 1/4W [M]
R953	ERDS2TJ182T	1.8K 1/4W [M]
R954	ERDS2TJ222T	2.2K 1/4W [M]
R955	ERDS2TJ332T	3.3K 1/4W [M]
R956	ERDS2TJ472T	4.7K 1/4W [M]
R957	ERDS2TJ682T	6.8K 1/4W [M]
R960	ERDS2TJ102T	1K 1/4W [M]
R961	ERDS2TJ122T	1.2K 1/4W [M]
R962	ERDS2TJ152T	1.5K 1/4W [M]
R963	ERDS2TJ182T	1.8K 1/4W [M]
R964	ERDS2TJ222T	2.2K 1/4W [M]
R980	ERDS2TJ102T	1K 1/4W [M]
		CAPACITORS
C1	ECBT1H5R6KC5	5.6P 50V [M]
C2	RCBS1H102KBY	1000P 50V [M]
C3	ECBT1H2R2KC5	2.2P 50V [M]
C4	ECBT1H181KB5	180P 50V [M]
C5	ECBT1H5R6KC5	5.6P 50V [M]
C6	ECBT1H3R3KC5	3.3P 50V [M]
C7	ECBT1H4R7KC5	4.7P 50V [M]
C8	ECBT1H3R3KC5	3.3P 50V [M]
C9	ECBT1H2R2KC5	2.2P 50V [M]
C10	ECBT1H180JC5	18P 50V [M]
C11	RCBS1H102KBY	1000P 50V [M]
C101	ECBT1C103NS5	0.01 16V [M]

Ref No.	Part No.	Values & Remarks
C103	ECBT1C103NS5	0.01 16V [M]
C104	ECBT1H102KB5	1000P 50V [M]
C105	ECBT1H102KB5	1000P 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	ECQB1H821JF3	820P 50V [M]
C118	ECFR1E183KR	0.018 25V [M]
C119	ECFR1E183KR	0.018 25V [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]
C137	ECBT1H271KB5	270P 50V [M]
C138	ECBT1H271KB5	270P 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]
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	ECEA1CKA100B	10 16V [M]
C175	ECBT1C103NS5	0.01 16V [M]

Ref No.	Part No.	Values & Remarks
C196	ECBT1H102KB5	1000P 50V [M]
C401	ECEA1VKA4R7B	4.7 10V [M]
C402	ECBT1E103ZF5	0.01 25V [M]
C403	ECBT1E103ZF5	0.01 25V [M]
C404	ECEA1VKA4R7B	4.7 10V [M]
C405	ECBT1H101KB5	100P 50V [M]
C406	ECBT1H101KB5	100P 50V [M]
C409	ECA1CM220B	20 16V [M]
C410	ECA1CM220B	20 16V [M]
C411	ECBT1H101KB5	100P 50V [M]
C412	ECBT1H101KB5	100P 50V [M]
C413	ECA1CM100B	10 16V [M]
C414	ECA1CM100B	10 16V [M]
C415	ECBT1E103ZF5	0.01 25V [M]
C416	ECBT1E103ZF5	0.01 25V [M]
C431	ECA1CM100B	10 16V [M]
C432	ECA1CM100B	10 16V [M]
C440	ECBT1E103ZF5	0.01 25V [M]
C451	ECEA1VKA4R7B	4.7 10V [M]
C452	ECEA1VKA4R7B	4.7 10V [M]
C453	ECBT1H101KB5	100P 50V [M]
C454	ECBT1H101KB5	100P 50V [M]
C455	ECBT1H102KB5	1000P 50V [M]
C456	ECBT1H102KB5	1000P 50V [M]
C457	ECEA1AU330B	33 10V [M]
C458	ECEA1AU330B	33 10V [M]
C459	ECFR1E223KR	0.022 25V [M]
C460	ECFR1E223KR	0.022 25V [M]
C461	ECFR1E682KR	6800P 25V [M]
C462	ECFR1E682KR	6800P 25V [M]
C463	ECEA1VKA4R7B	4.7 10V [M]
C464	ECEA1VKA4R7B	4.7 10V [M]
C465	ECBT1E103ZF5	0.01 25V [M]
C466	ECBT1E103ZF5	0.01 25V [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 10V [M]
C520	ECEA1VKA4R7B	4.7 10V [M]

Ref No	Part No.	Values & Remarks
C521	ECEA1VKA4R7B	4.7 10V [M]
C522	ECEA1VKA4R7B	4.7 10V [M]
C523	ECFR1E123KR	0.012 25V [M]
C524	ECFR1E123KR	0.012 25V [M]
C525	ECQV1H683JZ3	0.068 50V [M]
C526	ECQV1H683JZ3	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	ECEA1CKA100B	10 16V [M]
C534	ECEA1CKA100B	10 16V [M]
C536	ECBT1E103ZF5	0.01 25V [M]
C601	ECEA1HN2R2SB	2.2 50V [M]
C602	ECEA1HN2R2SB	2.2 50V [M]
C603	ECBT1H561KB5	560P 50V [M]
C604	ECBT1H561KB5	560P 50V [M]
C605	ECA1JM330B	33 6.3V [M]
C606	ECA1JM330B	33 6.3V [M]
C607	ECCR1H100K5	10P 50V [M]

Ref No.	Part No.	Values & Remarks
C608	ECCR1H100K5	10P 50V [M]
C609	ECBT1H151KB5	150P 50V [M]
C610	ECBT1H151KB5	150P 50V [M]
C611	ECQV1H473JM3	0.047 50V [M]
C612	ECQV1H473JM3	0.047 50V [M]
C613	ECBT1H681KB5	680P 50V [M]
C614	ECBT1H681KB5	680P 50V [M]
C615	ECEA2AN2R2SB	2.2 100V [M]
C616	ECEA2AU100B	10 100V [M]
C617	ECA1HM470B	47 50V [M]
C618	ECEA2AU100B	10 100V [M]
C621	ECEA2AU100B	10 100V [M]
C625	ECEA1HN100SB	10 50V [M]
C626	ECEA1HN100SB	10 50V [M]
C685	ECBT1E103ZF5	0.01 25V [M]
C702	ECQE2104KF3	0.1 250V [M]
C703	ECES75V752UX ⚠	7500 75V [M]
C704	ECES75V752UX ⚠	7500 75V [M]
C705	ECEA1HU222E ⚠	2200 50V [M]
C706	ECEA1HU222E ⚠	2200 50V [M]
C707	ECA1VM101B	100 10V [M]
C708	ECKR1H103ZF5	0.01 50V [M]

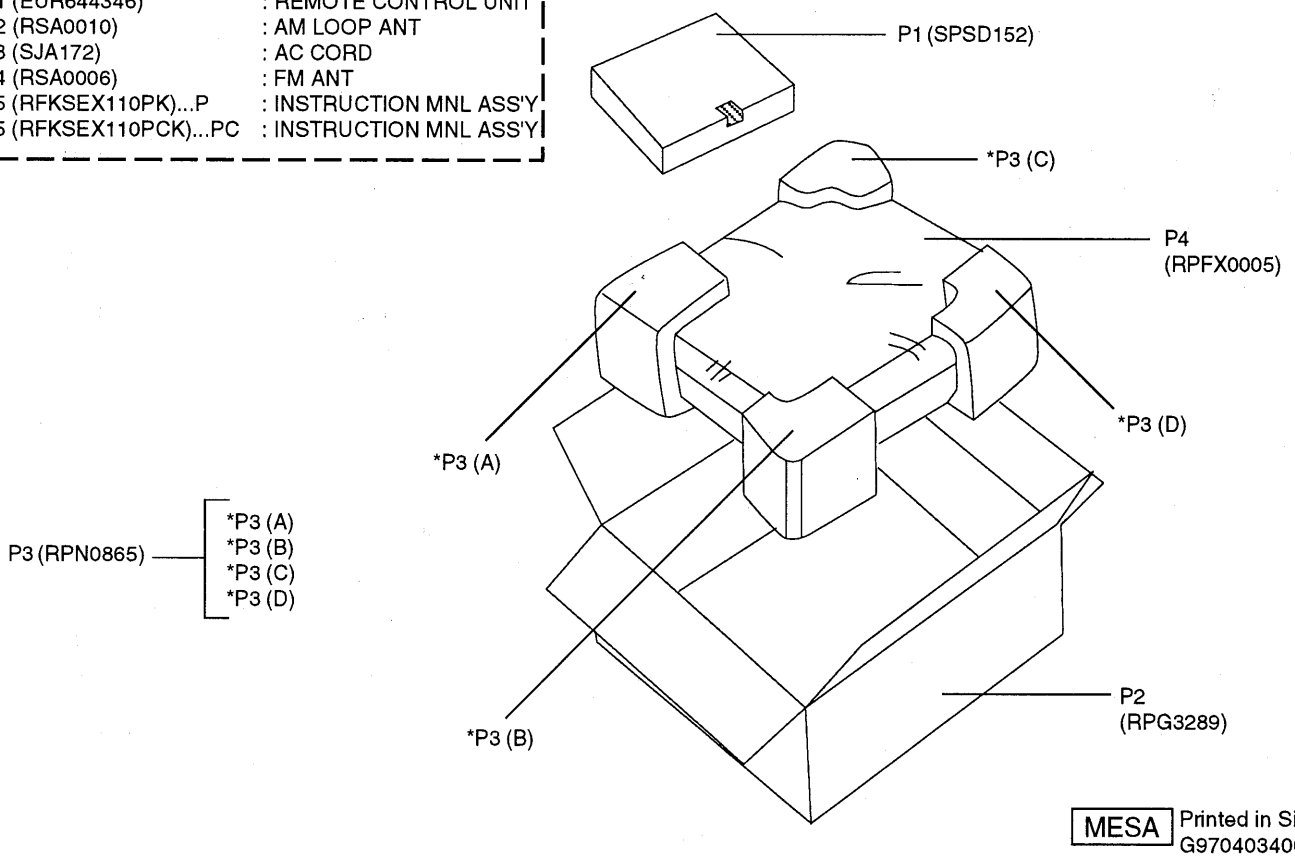
Ref No.	Part No.	Values & Remarks
C709	ECA1CM330B	33 16V [M]
C710	ECBT1E103ZF5	0.01 25V [M]
C711	ECKR1H103ZF5	0.01 50V [M]
C712	ECA1HM470B	47 50V [M]
C713	ECKR1H103ZF5	0.01 50V [M]
C716	ECEA2AU100B	10 100V [M]
C720	ECA1EM220B	22 25V [M]
C722	ECQE2104KF3	0.1 250V [M]
C751	ECKWNS102MBM ⚠	1000P 400V [M]
C752	ECKR1H103ZF5	0.01 50V [M]
C753	ECA1EM102EV ⚠	1000 25V [M]
C756	ECBT1E103ZF5	0.01 25V [M]
C757	ECA1CM470B	47 16V [M]
C758	ECA1AM101B	100 10V [M]
C759	ECA1EM220B	22 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]

Ref No	Part No.	Values & Remarks
C910	ECEA1HKA220B	22 50V [M]
C911	ECEA1HKA220B	22 50V [M]
C912	ECEA1HKA220B	22 50V [M]
C913	ECEA1VKA100B	10 10V [M]
C914	ECEA1VKA100B	10 10V [M]
C916	ECEA1HKA010B	1 50V [M]
C919	ECBT1H101KB5	100P 50V [M]
C920	ECEA1HKA010B	1 50V [M]
C921	ECBT1H331KB5	330P 50V [M]
C922	ECBT1H331KB5	330P 50V [M]
C923	ECBT1H331KB5	330P 50V [M]
C924	ECBT1H331KB5	330P 50V [M]
C925	ECBT1H331KB5	330P 50V [M]
C926	ECBT1H331KB5	330P 50V [M]
C927	ECBT1H331KB5	330P 50V [M]
C928	ECBT1H331KB5	330P 50V [M]
C929	ECBT1H331KB5	330P 50V [M]
C930	ECBT1H331KB5	330P 50V [M]
C934	ECBT1H101KB5	100P 50V [M]
C938	ECBT1H101KB5	100P 50V [M]
C944	ECBT1H101KB5	100P 50V [M]
C950	ECBT1H101KB5	100P 50V [M]

■ Packaging

ACCESSORIES

A1 (EUR644346)	: REMOTE CONTROL UNIT
A2 (RSA0010)	: AM LOOP ANT
A3 (SJA172)	: AC CORD
A4 (RSA0006)	: FM ANT
A5 (RFKSEX110PK)...P	: INSTRUCTION MNL ASS'Y
A5 (RFKSEX110PCK)...PC	: INSTRUCTION MNL ASS'Y



MESA Printed in Singapore
G970403400 J/T/L