+73 473

ORDER NO. AD9402040C1
A2

Service Manual

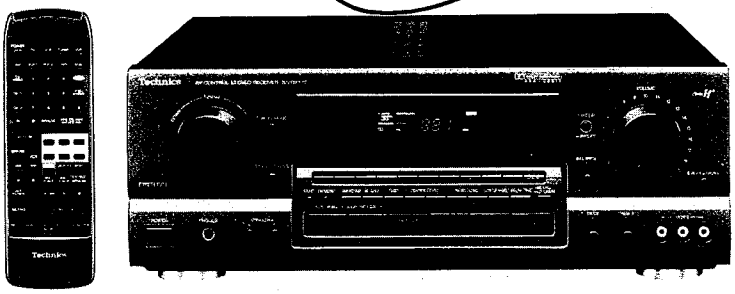
AV Control Stereo Receiver

2264

DOLBY SURROUND PRO • LOGIC *

Receiver

SA-GX770



Colour

(K) ... Black Type

Area

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

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SPECIFICATIONS (IHF'78)

■ AMPLIFIER SECTION

Rated minimum sine wave
RMS power output
20 Hz – 20 kHz both channels driven
0.05% total harmonic distortion
125 W per channel (8Ω)

1 kHz continuous power output both channels driven	
0.05% total harmonic distortion	130 W per channel (8Ω)
Total harmonic distortion	
rated power at 20 Hz – 20 kHz	0.05% (8Ω)
half power at 1 kHz	0.03% (8Ω)
Power output at the Dolby Pro Logic operation	
0.8% at 1 kHz, Front	2 × 100 W (8Ω)
Center	100 W (8Ω)
Rear	100 W (8Ω)
Low frequency damping factor	30 (8Ω)
Load impedance	
A or B	4 – 8Ω
A and B	8Ω
Dynamic headroom	2 dB (8Ω)
SMPTE intermodulation distortion	0.3% (8Ω)
Frequency response	
PHONO	RIAA standard curve ±0.8 dB
CD, VCR 1, VCR 2, TAPE/DCC	7 Hz – 70 kHz, ±3 dB
Input sensitivity	
PHONO	0.4 mV (3 mV, IHF '66)
CD, VCR 1, VCR 2, TAPE/DCC	27 mV (200 mV, IHF '66)
S/N (IHF A)	
PHONO	70 dB (80 dB, IHF '66)
CD, VCR 1, VCR 2, TAPE/DCC	75 dB (85 dB, IHF '66)
Input impedance	
PHONO	47 kΩ
CD, VCR 1, VCR 2, TAPE/DCC	22 kΩ
Tone controls	
BASS	50 Hz, +10 dB to −10 dB
TREBLE	20 kHz, +10 dB to −10 dB
Loudness control (volume at −30 dB)	50 Hz, +9 dB

■ FM TUNER SECTION

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

Technics

■ AM TUNER SECTION

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

■ VIDEO SECTION

Output voltage at 1V input (unbalanced)	1±0.1Vp-p
Maximum input voltage	1.5Vp-p

■ GENERAL

Power consumption	300W, 385VA
Power supply	AC 120V, 60Hz
Dimensions (W×H×D)	430×158×352mm (16-15/16″×6-7/32″×13-27/32″)
Weight	10.1kg (22.2lb.)

■ REMOTE CONTROL TRANSISMITTER

Control keys	56 keys
Dimensions (W×H×D)	70×28×215mm (2-3/4″×1-3/32″×8-15/32″)
Weight (including batteries)	160g (4.8 oz.)
Power source	Two "AAA" (R03/UM-4)

Notes:

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

■ CONTENTS

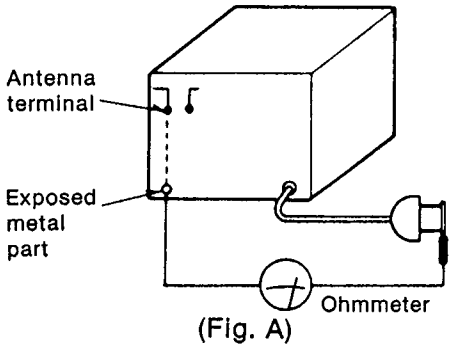
■ SAFETY PRECAUTION (This "safety precaution" is applied only in U.S.A.)

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.

• INSULATION RESISTANCE TEST

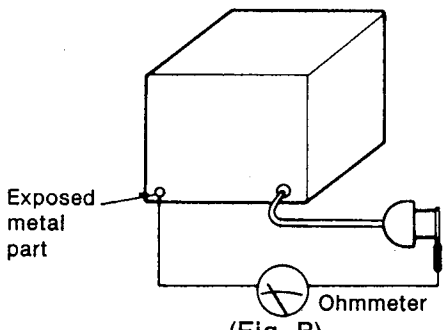
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, control shafts, handle brackets, etc. Equipment with exposed metal part terminals should read between 3MΩ and 5.2MΩ to all exposed parts. (Fig. A) Equipment without exposed metal part terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance=3MΩ−5.2MΩ

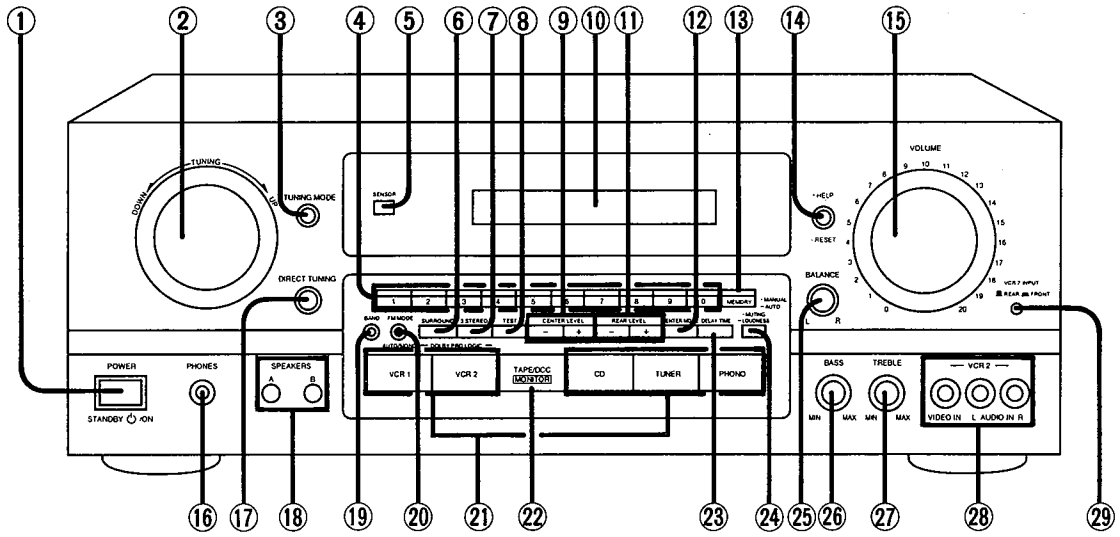


(Fig. B)

Resistance=Approx. ∞

4. If the measurement is outside the specified limits, there is a possibilty of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

■ FRONT PANEL CONTROLS

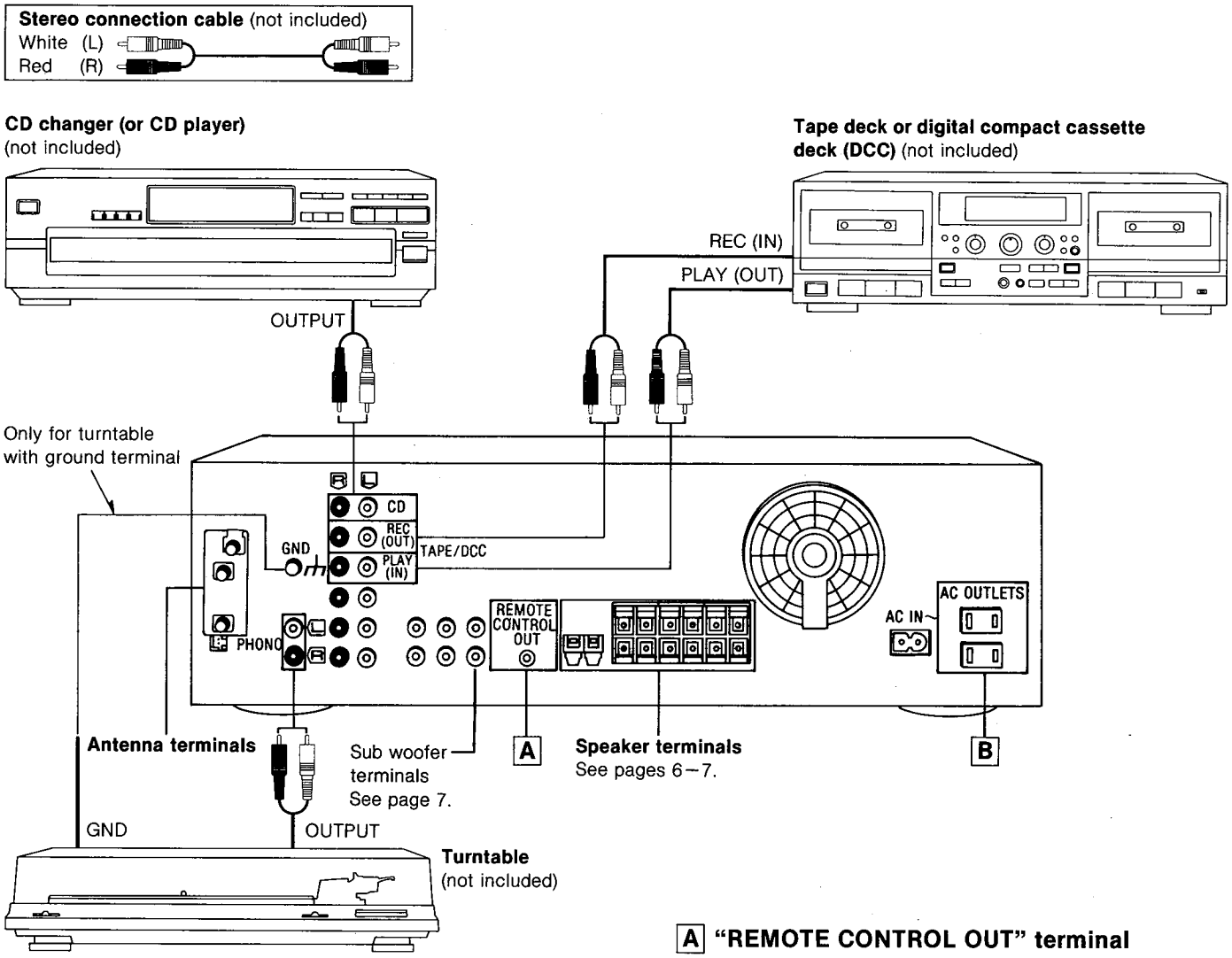


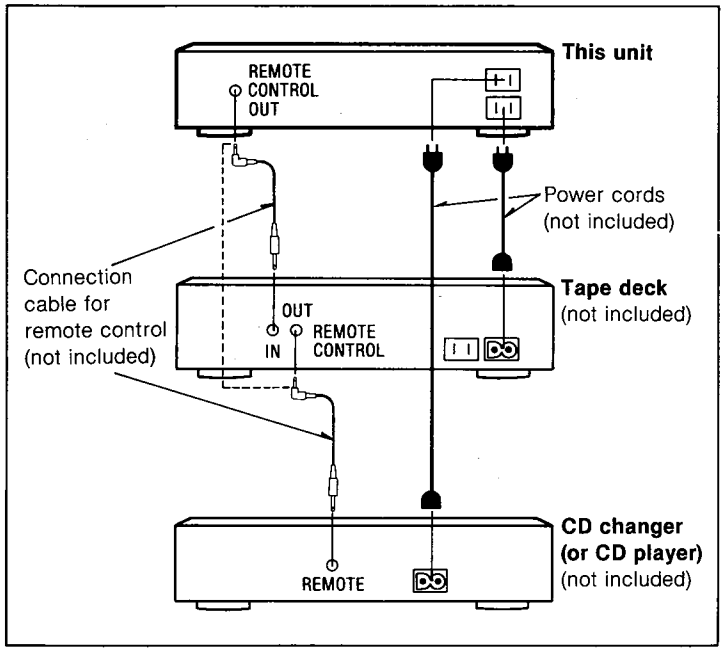
No.	Name
①	Power switch (POWER)
②	Tuning control (TUNING)
③	Tuning mode select button (TUNING MODE)
④	Numeric buttons (1 – 0)
⑤	Remote control signal receptor
⑥	DOLBY PRO LOGIC SURROUND ON/OFF button (SURROUND)
⑦	DOLBY PRO LOGIC 3 STEREO ON/OFF button (3 STEREO)
⑧	Test signal ON/OFF button (TEST)
⑨	Center level adjust button (CENTER LEVEL)
⑩	Display
⑪	Rear level adjust button (REAR LEVEL)
⑫	Center mode select button (CENTER MODE)
⑬	Memory button (MEMORY)
⑭	Help/reset button (-HELP – RESET)
⑮	Volume control (VOLUME)

No.	Name
⑯	Headphone jack (PHONES)
⑰	Direct tuning button (DIRECT TUNING)
⑱	Speaker select buttons (SPEAKERS)
⑲	Band select button (BAND)
⑳	FM mode select button (FM MODE)
㉑	Input select buttons
㉒	Tape/DCC monitor button (TAPE/DCC MONITOR)
㉓	Delay time adjust button (DELAY TIME)
㉔	Muting/loudness button (-MUTING – LOUDNESS)
㉕	Balance control (BALANCE)
㉖	Bass control (BASS)
㉗	Treble control (TREBLE)
㉘	VCR 2 front input terminals (VCR 2)
㉙	VCR 2 input select button (VCR 2 INPUT)

■ EQUIPMENT CONNECTIONS

Connecting audio equipment





A "REMOTE CONTROL OUT" terminal

Connect the connection cable for remote control to a Technics tape deck and/or CD changer (or CD player) which has the appropriate remote control terminal as shown at the left.

If a tape deck is not being used, the CD changer (or CD player) can be connected directly (dotted line).

Note

For a tape deck and/or CD changer (or CD player) with a remote control sensor, this connection is not necessary.

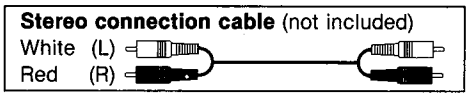
B "SWITCHED" AC outlet(s)

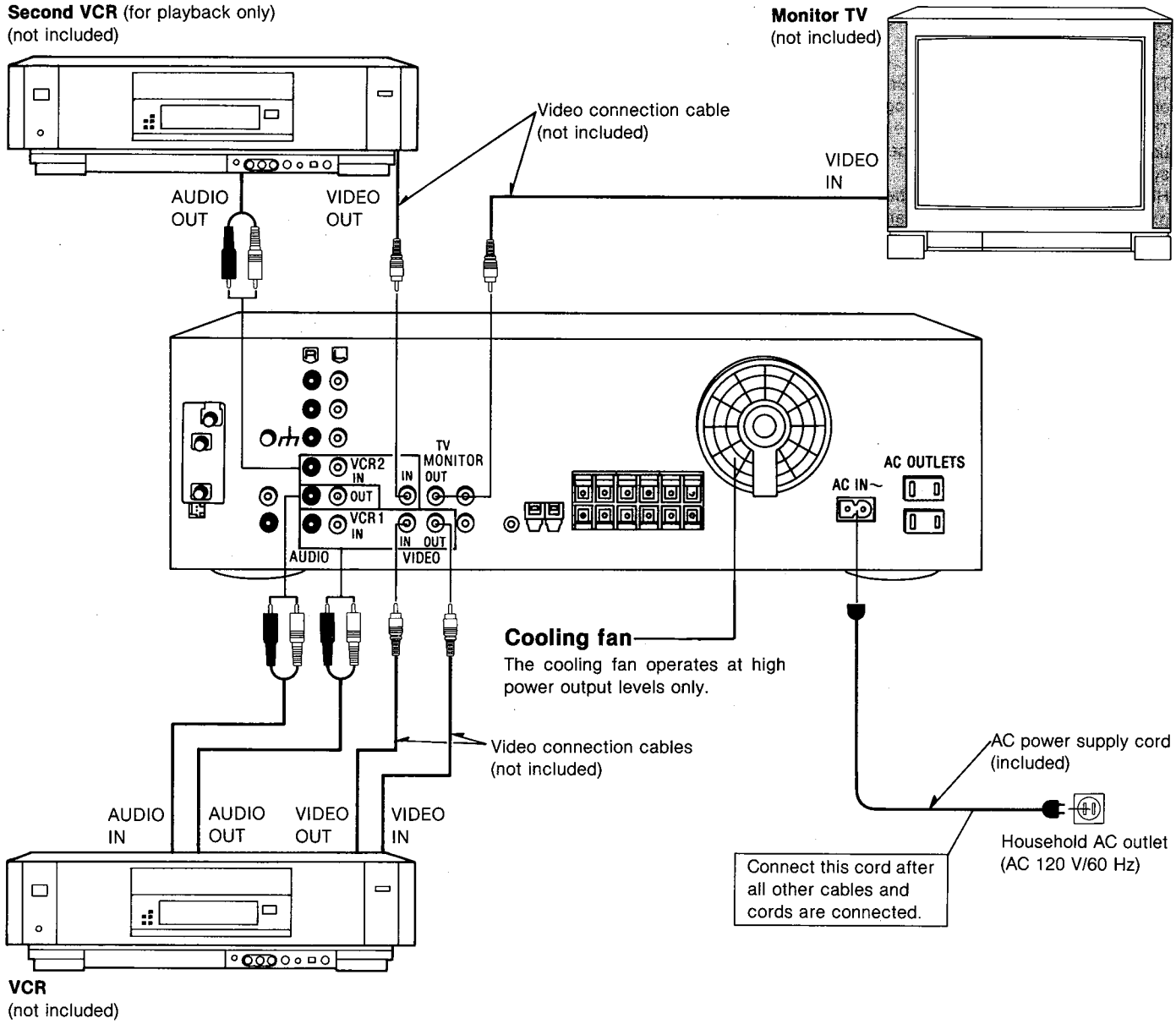
Power to these outlets is controlled by the power switch of this unit. Audio equipment rated up to the indicated power ratings can be connected here.

For proper remote-control operation

Connect the power cords of the tape deck and CD changer (or CD player) to these outlets as shown at the left.

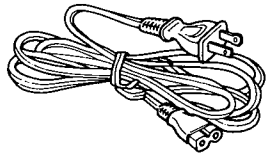
Connecting video equipment



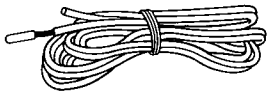


■ ACCESSORIES

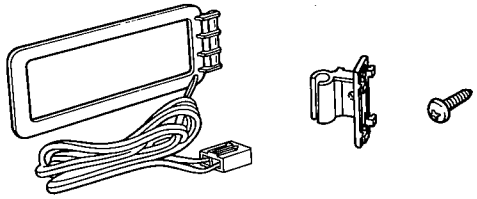
AC power supply cord ..... 1 pc.
(SJA172)



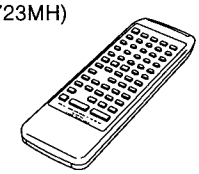
FM indoor antenna (RSA0006).... 1 pc.



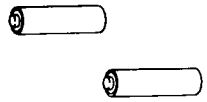
AM loop antenna set (RSA0010)
- AM antenna holder ..... 1 pc.
(RMN0244)
- Screw..... 1 pc.
(XTN3+10AFZ)



Remote control transmitter..... 1 pc.
(RAK-SA723MH)



Batteries (UM-4, "AAA", R03) ... 2 pcs.



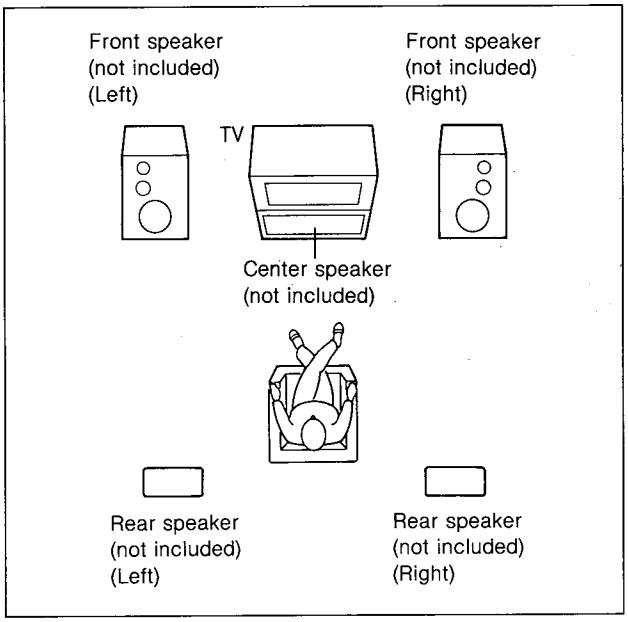
Note: There are available on route.

■ SPEAKER CONNECTIONS

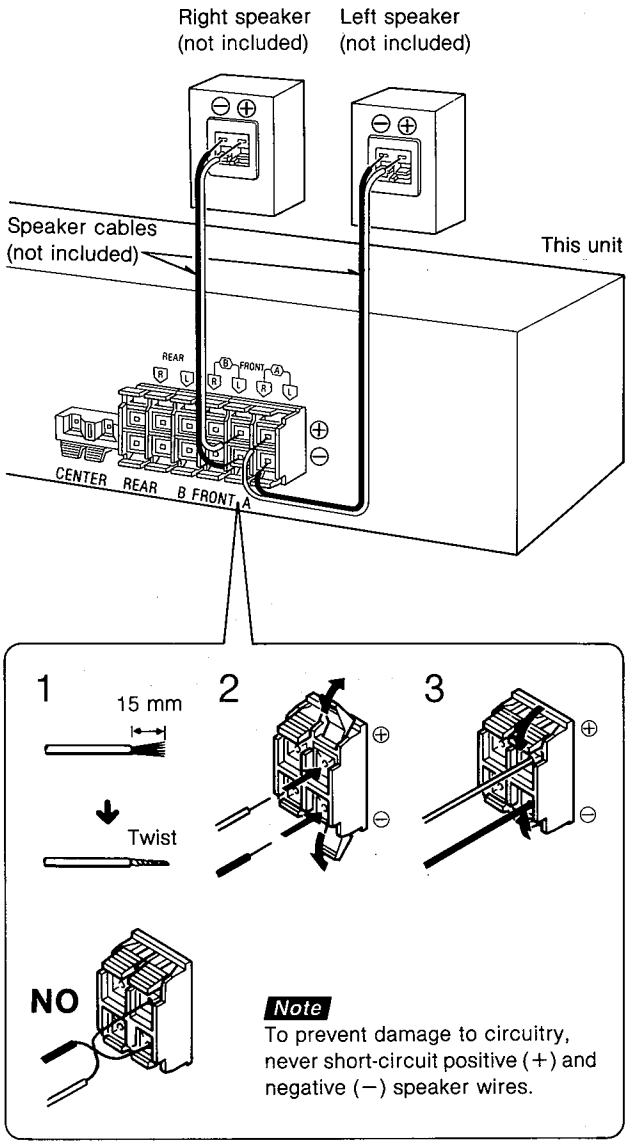
Placement of speakers

As well as enjoying normal stereo reproduction with both the left and right front speakers connected, a center speaker and rear speakers can also be connected to the main unit in order to enjoy playback with a feeling of presence using the Dolby Pro-Logic Systems.

The illustration below shows where to place the speakers when enjoying sound with Dolby Pro-Logic systems.
The listening position at which the effect is the greatest is a position slightly to the rear of a center position of five-speaker systems.
However the position should be adjusted to your personal preference, because the effect varies to some degree depending upon the type of music and the music source.



Connection of front speakers



■ "B" terminals

For connection to a second pair of speakers.

■ Speaker impedance

When only the "A" or only the "B" speakers are connected:

The impedance of the speaker used with this unit must be 4−8 Ω.

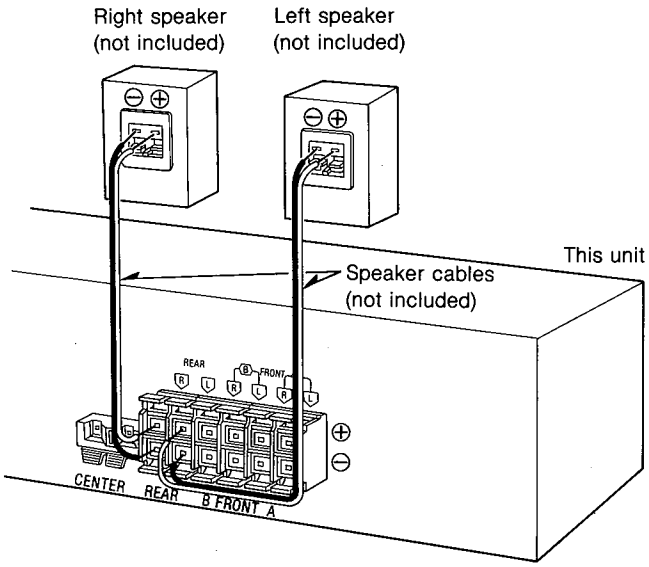
Note

If 4 Ω speakers are connected, be sure to set the impedance on the main unit to LOW according to step 2.

When both the "A" and the "B" speakers are connected simultaneously:

The impedance of the speaker used with this unit must be 8 Ω.

Connection of rear speakers



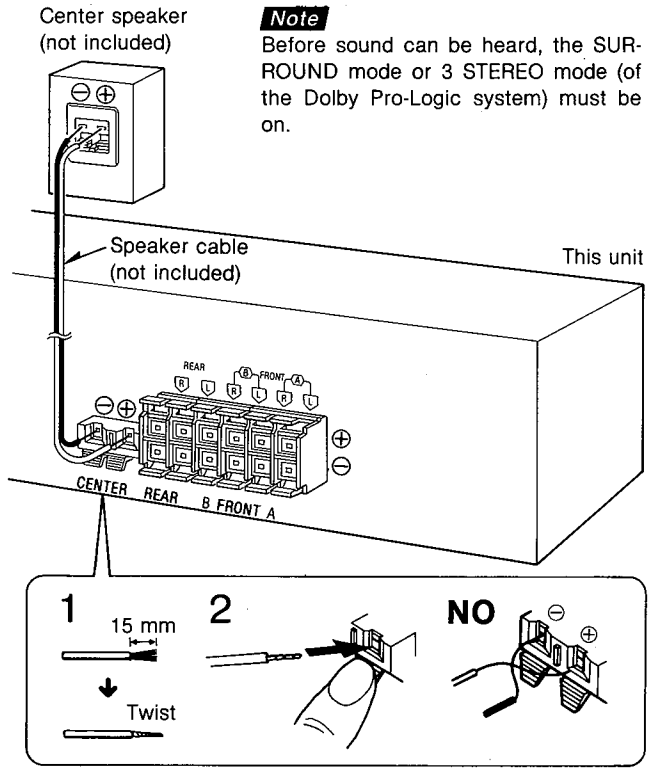
Note

Before sound can be heard, the SURROUND mode (of the Dolby Pro-Logic system) must be on and both rear speakers must be connected.

■ Speaker impedance

The impedance of any speaker used with this unit must be 8 Ω.

Connection of center speaker



Note

Before sound can be heard, the SURROUND mode or 3 STEREO mode (of the Dolby Pro-Logic system) must be on.

■ Speaker impedance

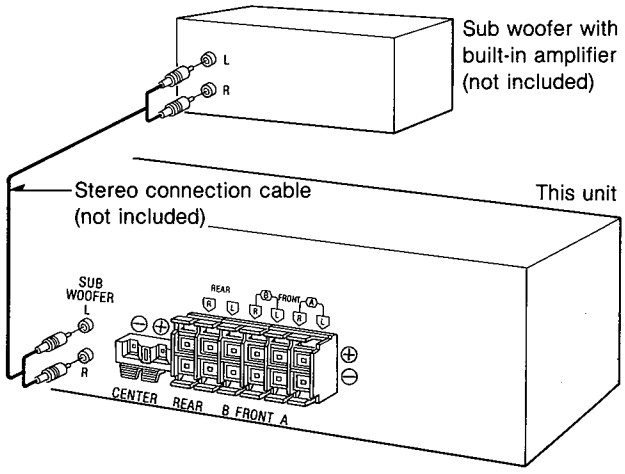
The impedance of any speaker used with this unit must be 8 Ω.

Connection of sub woofer

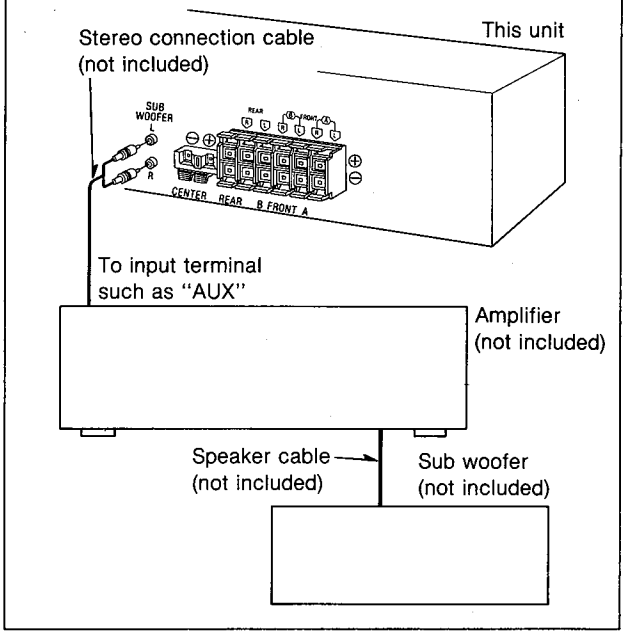
The sub woofer is connected when bass sounds are inadequately reproduced because front speakers are too small.
When connected, the sub woofer can be placed in any position.

Note

This unit has no amplifier section designed especially for the sub woofer, so it is necessary to purchase a sub woofer with a built in amplifier or buy the two separately.



Connecting a sub woofer which does not have a built-in amplifier



For your reference:

The level of sound output from the sub woofer will always be at 80 Hz or less, regardless of the settings of the speaker select buttons on this unit, thus the intensity of the low frequency range will be maintained.

When adjusting the volume of the sub woofer

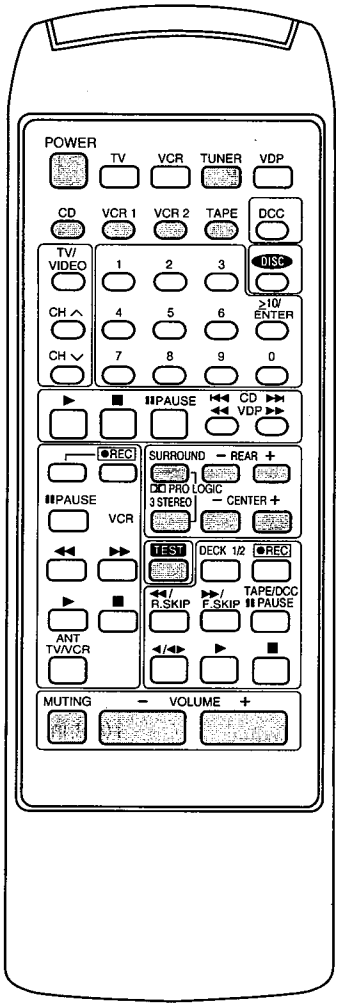
After setting the volume control on the sub woofer or on the amplifier which is connected to the sub woofer, make any further adjustments with the volume control on this unit.

■ REMOTE CONTROL OPERATION

This remote control transmitter can be used to operate other units manufactured by this company in addition to the system components you have purchased, including TVs and VCRs manufactured since 1985, DCC decks, laser disc players.

It is also possible to change over the remote control code so that the remote control transmitter can operate TVs, VCRs and laser disc players which have not been manufactured by this company.

Basic operations



To turn the power supply ON/OFF

TUNER → POWER

Once the power has been set to ON, it can be turned ON and OFF simply by pressing POWER. (See *Note* below.)

To use the graphic equalizer or digital sound processor

VCR 2 — Press once again to bypass the graphic equalizer or digital sound processor.

To select an input source

TUNER CD VCR 1 TAPE

To turn the Dolby Pro Logic SURROUND mode ON/OFF

SURROUND

To turn the Dolby Pro Logic 3 STEREO mode ON/OFF

3 STEREO

To adjust the output level of the rear speakers

SURROUND → − REAR +

To adjust the output level of the center speaker

SURROUND or 3 STEREO → − CENTER +

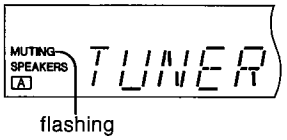
To output a test signal

TEST — Press once more to stop a test signal.

To mute the sound level
(The sound output is switched off.)

MUTING

On the amplifier's display



flashing

Press once more to return to the original volume.
The volume will return to its original level even if the volume has been adjusted while muted.

To adjust the volume level

− VOLUME +

Note

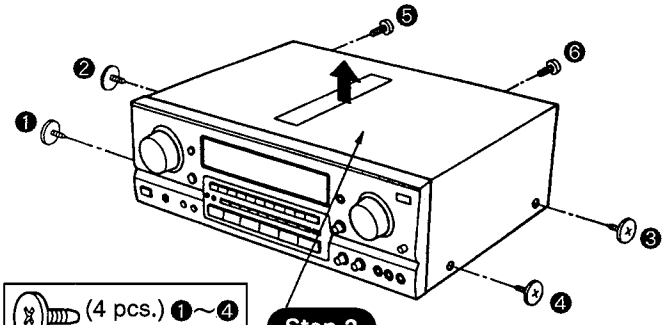
After carrying out the operations for turning the power of the TV or VCR ON or OFF, always press TUNER before pressing POWER when turning the power of the system components ON and OFF.

■ DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref.No. 1	Removal of the cabinet
Procedure 1	

Step 1
Remove the 6 screws.

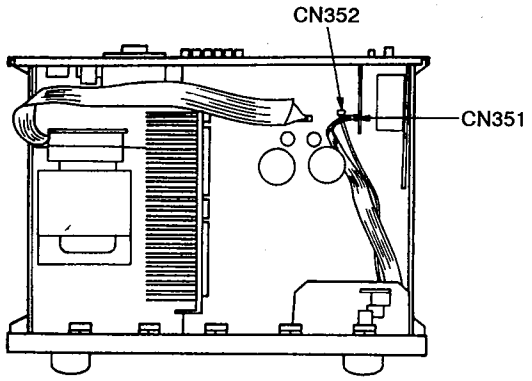


(4 pcs.) ❶~❹ (Black)
(2 pcs.) ❺, ❻ Tapping screw 3 × 8 (Black)

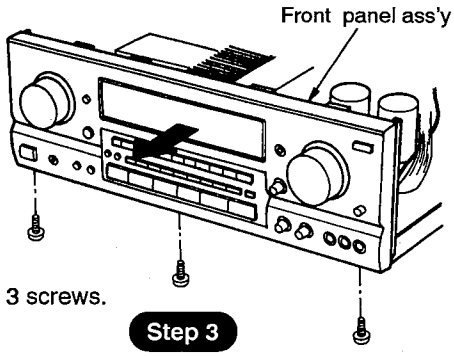
Step 2
Remove the cabinet in the direction of arrow.

Ref.No. 2	Removal of the front panel ass'y
Procedure 1→2	

Step 1
Remove the 2 connectors (CN351, CN352).



(3 pcs.) Tapping screw 3 × 8 (Black)

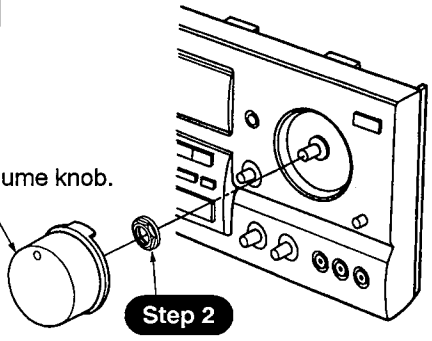


Step 2
Remove the 3 screws.

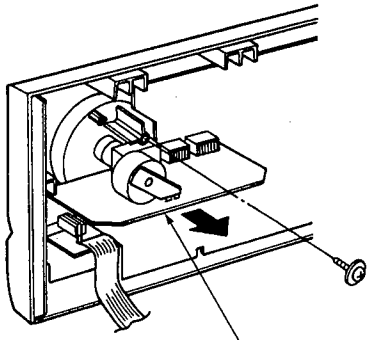
Step 3
Remove the front panel ass'y in the direction of arrow.

Ref.No. 3	Removal of the volume P.C.B.
Procedure 1→2→3	

Step 1
Pull out the volume knob.



Step 2
Remove the nut.



Step 3
Remove the 1 screw.

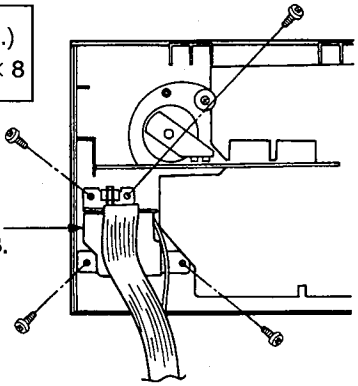
Step 4
Remove the volume P.C.B. in the direction of arrow.

(1 pcs.) Tapping screw 2.6 × 8

Ref.No. 4	Removal of the VCR2 P.C.B.
Procedure 1→2→4	

Step 1
Remove the 4 screws.

(4 pcs.) Tapping screw 2.6 × 8

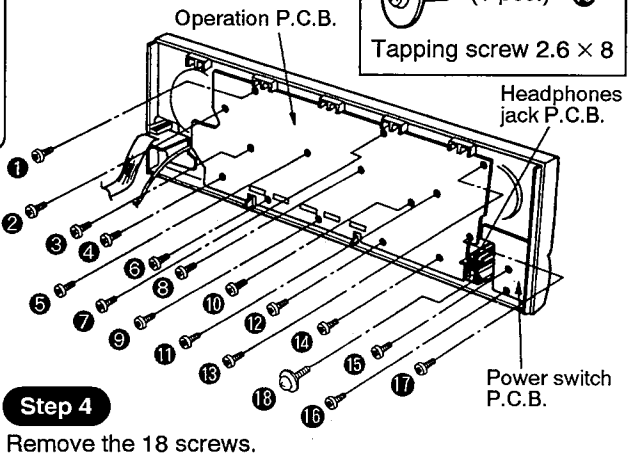


Step 2
Remove the VCR2 P.C.B.

Ref.No. 5 — **Removal of the operation P.C.B., power switch P.C.B. and headphones jack P.C.B.**

Procedure 1 → 2 → 3 → 5

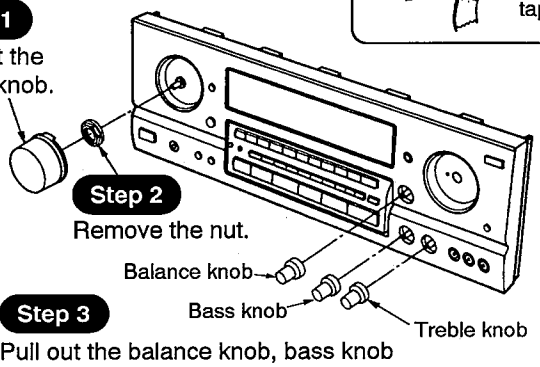
※ Pull out the knobs with using adhesive tape when removing the knobs.



Step 1 Pull out the tuning knob.

Step 2 Remove the nut.

Step 3 Pull out the balance knob, bass knob and treble knob.

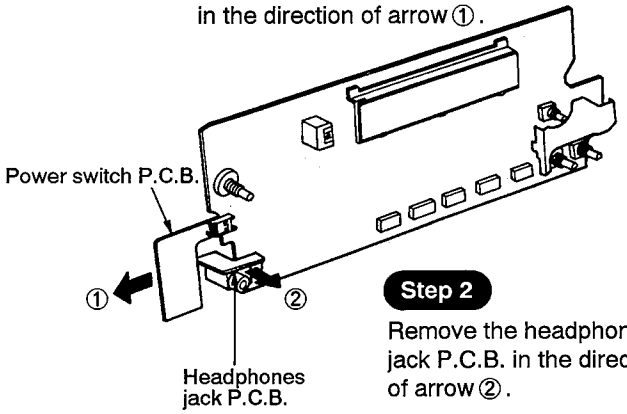


Step 4 Remove the 18 screws.

Ref.No. 6 — **Removal of the power switch P.C.B. and headphones jack P.C.B.**

Procedure 1 → 2 → 3 → 5 → 6

Step 1 Remove the power switch P.C.B. in the direction of arrow ①.

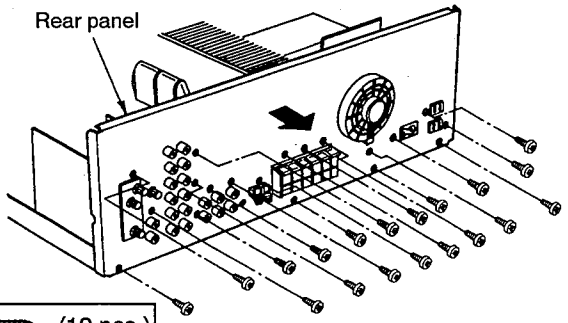


Step 2 Remove the headphones jack P.C.B. in the direction of arrow ②.

Ref.No. 7 — **Removal of the rear panel**

Procedure 1 → 7

Step 2 Remove the rear panel in the direction of arrow.



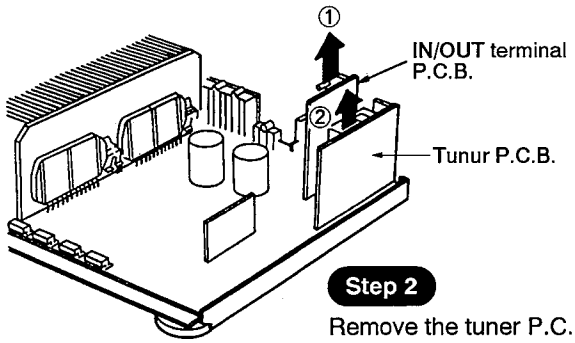
(19 pcs.) Tapping screw 3 × 8 (Black)

Step 1 Remove the 19 screws.

Ref.No. 8 — **Removal of the tuner P.C.B. and IN/OUT terminal P.C.B.**

Procedure 1 → 7 → 8

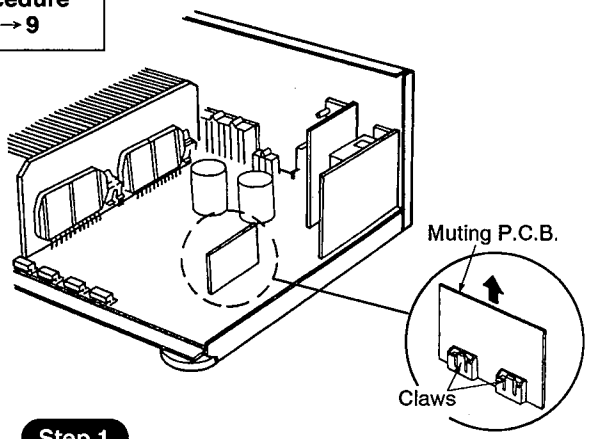
Step 1 Remove the IN/OUT terminal P.C.B. in the direction of arrow ①.



Step 2 Remove the tuner P.C.B. in the direction of arrow ②.

Ref.No. 9 — **Removal of the muting P.C.B.**

Procedure 1 → 9

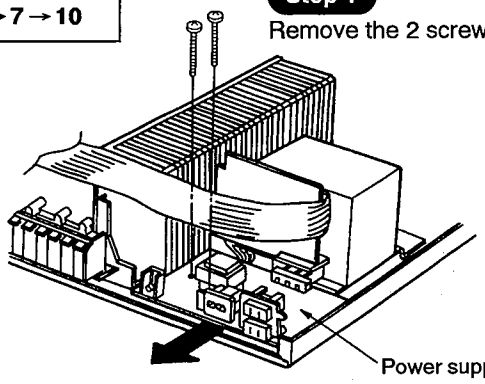


Step 1 Release the 2 claws, and then remove the muting P.C.B. in the direction of arrow.

Ref.No. 10 — **Removal of the power supply P.C.B.**

Procedure 1→7→10

Step 1
Remove the 2 screws.

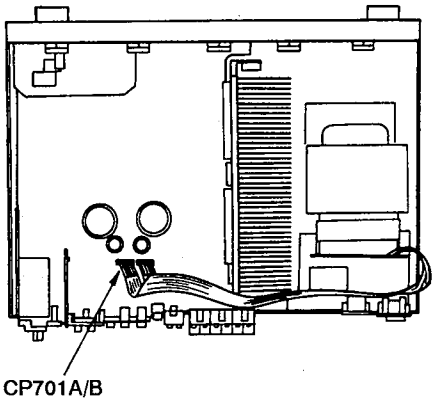


(2 pcs.)
Tapping screw 3 × 20
(Black)

Step 2
Remove the power supply P.C.B. in the direction of arrow.

Ref.No. 11 — **Removal of the power transformer P.C.B.**

Procedure 1→7→11

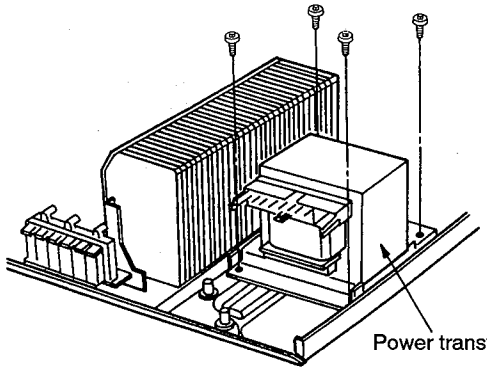


Step 1
Remove the 1 flat cable(CP701A/B).

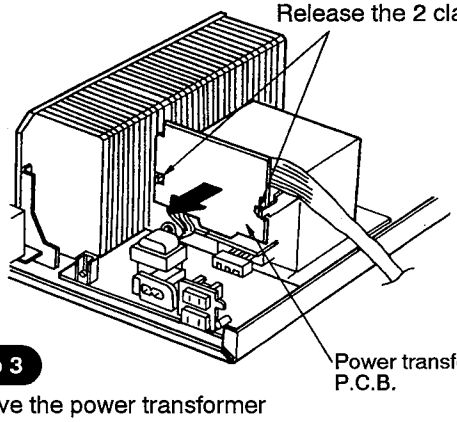
Ref.No. 12 — **Removal of the power transformer**

Procedure 1→7→10→11→12

Step 1
Remove the 4 screws.



Step 2
Release the 2 claws.

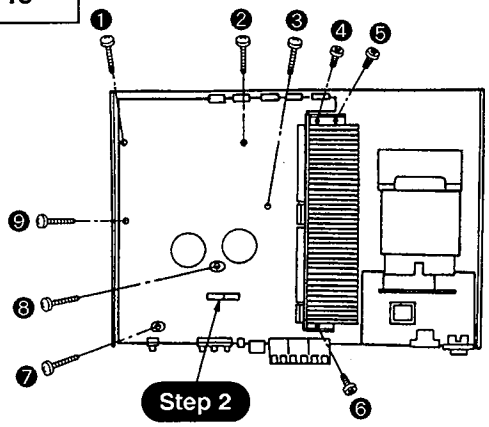


Step 3
Remove the power transformer P.C.B. in the direction of arrow.

Ref.No. 13 — **Removal of the main P.C.B.**

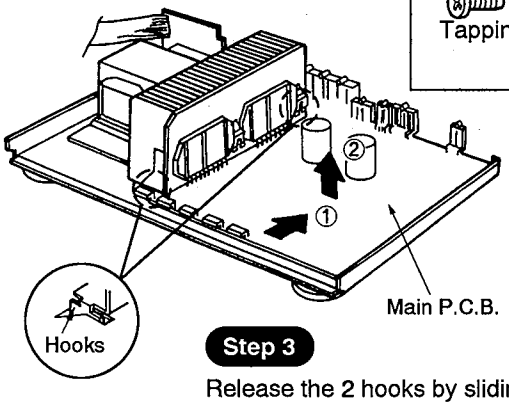
Procedure 1→2→7→8→9→13

Step 1
Remove the 9 screws.



Step 2
Remove the 1 flat cable. (CP701A/B)

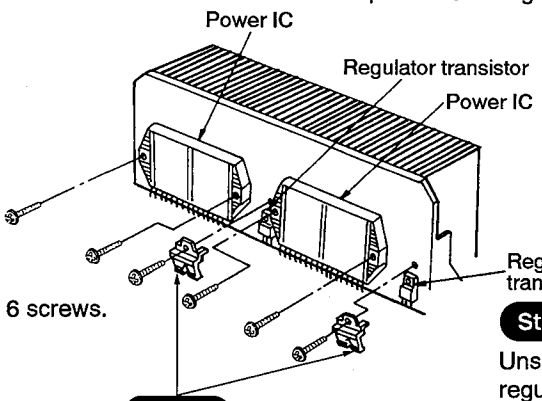
(6 pcs.) ❶~❸ ❼~❾
Tapping screw 3 × 20
(Black)
(3 pcs.) ❹~❻
Tapping screw 3 × 8
(Black)



Step 3
Release the 2 hooks by sliding the main P.C.B. in the direction of arrow ①, and then remove the main P.C.B. in the direction of arrow ②.

Ref.No. 14	Removal of the power IC and regulator transistor
Procedure 1→2→7→8 →9→13→14	

- **When mounting the power IC or regulator transistor.** Apply silicone compound(RFKX0002) to the rear side of power IC or regulator transistor.



Step 1
Remove the 6 screws.

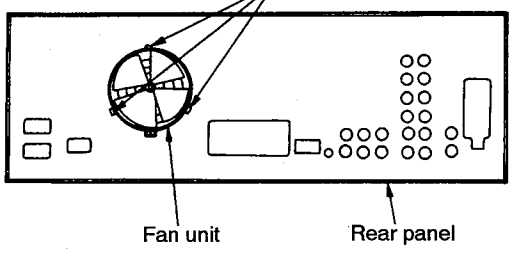
Step 2
Remove the transistor holder.

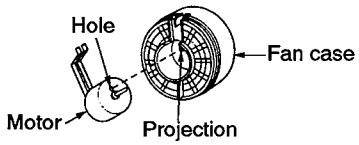
Step 3
Unsolder the terminals of power IC or regulator transistor.

(6 pcs.)
Tapping screw 3 × 15

Ref.No. 15	Removal of the cooling fan motor
Procedure 1→7→15	

Step 1
Release the 3 claws.

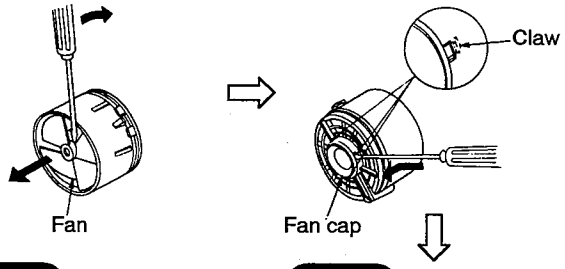




Note: When mounting the motor, align the fan casing's projection with the hole of the motor.

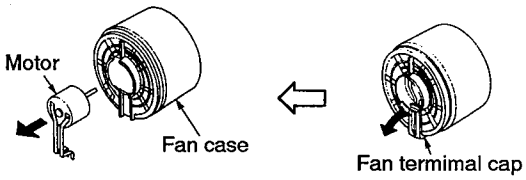
Step 2
Insert a screwdriver at the foot of the fan. Force it out of the moror shaft.

Step 3
Remove the fan cap by used ⊖ screwdriver.



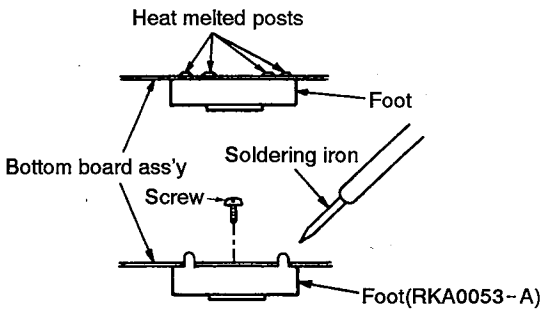
Step 5
Remove the motor from the fan case.

Step 4
Remove the fan terminal cap in the direction of arrow.



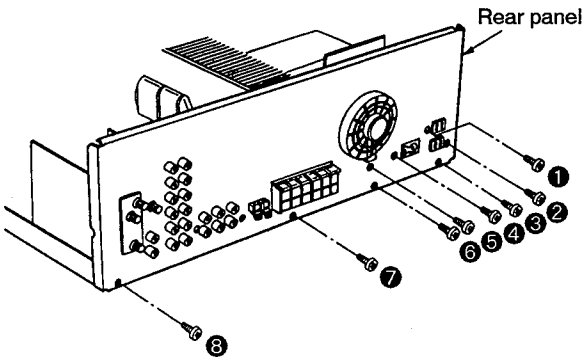
■ REPLACEMENT OF THE FOOT

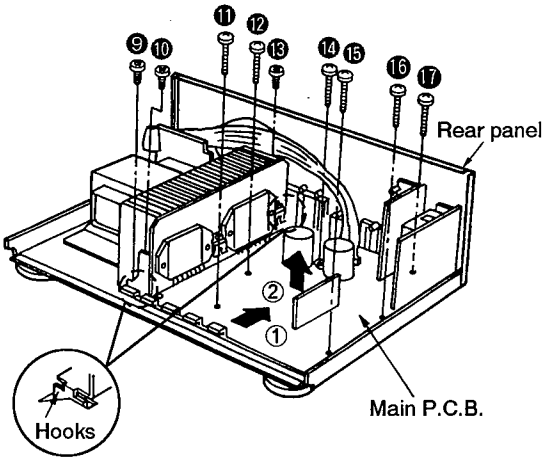
1. Remove the 4 heat melted posts on the Bottom board ass'y with a pair of nippers or similar tool.
2. To replace the foot(RKA0053-A) on the Bottom board ass'y melt the 4 posts with a soldering iron or install it with a screw (XTB3+6J).



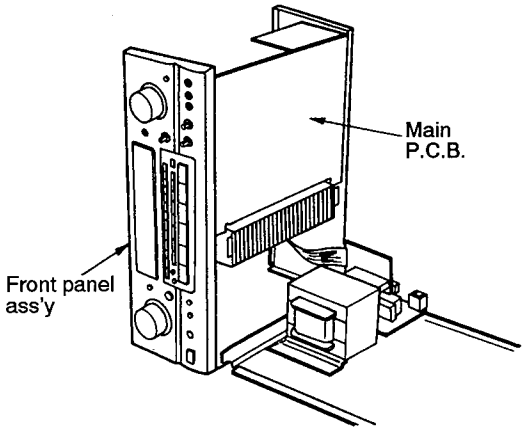
■ HOW TO CHECK THE MAIN P.C.B.

1. Remove the cabinet according to the disassembly instructions, procedure 1 " Removal of the cabinet " on page 9.
2. Remove the front panel ass'y according to the disassembly instructions, procedure 2 " Removal of the front panel ass'y " on page 9.



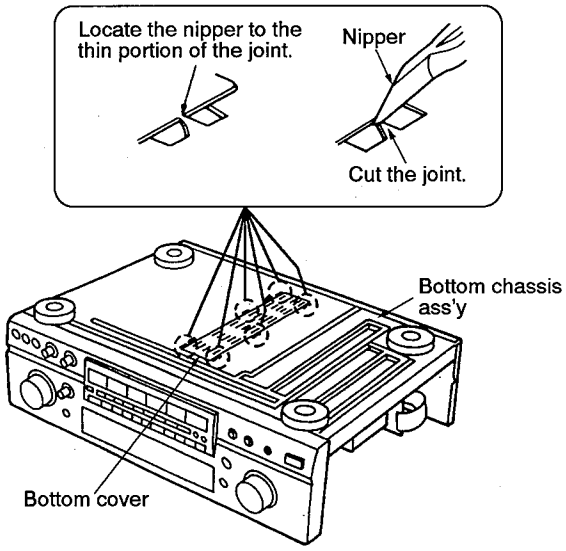


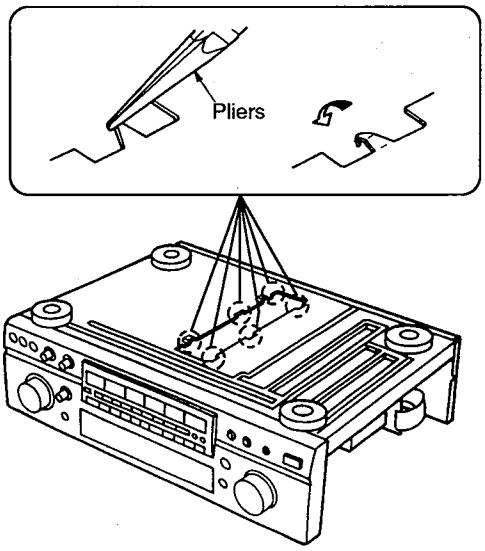
3. Remove the 8 screws(❶~❽).



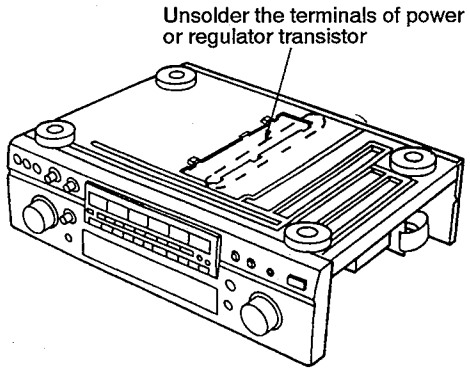
4. Remove the 9 screws(❾~⓱).
5. Release the 2 hooks by sliding the main P.C.B. in the direction of arrow ①, and then remove the main P.C.B. equipped with rear panel in the direction of arrow ②.
6. Reinstall the front panel ass'y to the main P.C.B.
7. When checking the soldered surface of the main P.C.B. and replacing the parts, do as shown in above.

■ HOW TO REPLACEMENT THE POWER IC'S AND REGULATOR TRANSISTOR

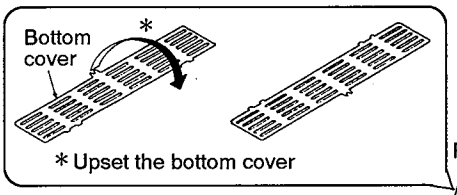


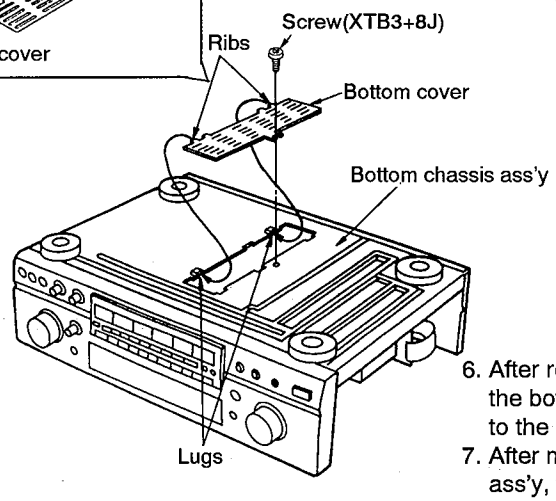


1. Cut the joints(6 portions) between bottom cover and bottom chassis ass'y with nipper.
2. After cutting the joints(6 portions), bend the portions of the bottom chassis ass'y in the direction of arrow with pliers.



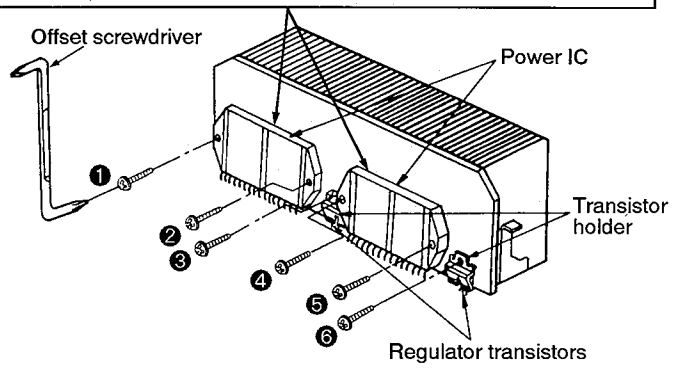
3. When replacing the power IC or regulator transistor, unsolder the terminals of power IC or regulator transistor on the soldered surface.





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 (❶~❻) after replacing the power IC or regulator transistor. Otherwise, the heat radiation works little.



4. Then remove the 6 screws(❶~❻) 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:

1. A long straight screwdriver cannot be used for removal or mounting since its long grip interferes with the neighboring P.C.B.(See Fig.1)
2. 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)

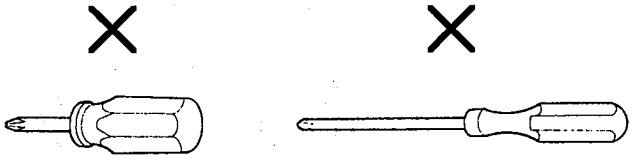


Fig.2

3. Insufficient tightening will cause poor heat dissipation from the power IC and regulator transistor and, in the worst case, may lead their thermal breakdown. (See Fig.2)

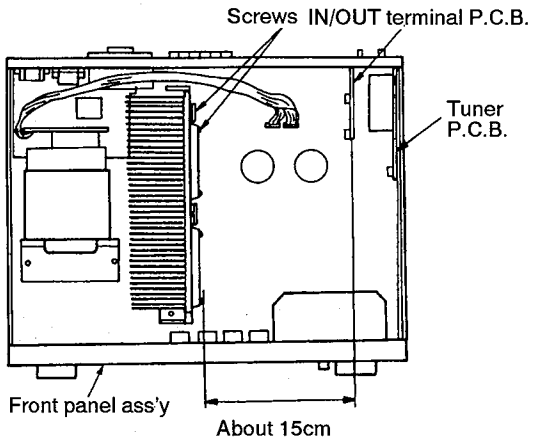
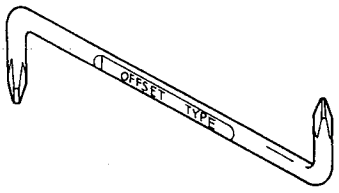


Fig.1

——OFFSET SCREWDRIVER——

• The PROTO offset screwdriver No.34-¼ is recommended for use in the application above.



No.	⊕	⟵ L ⟶
34¼	1 & 2	4¾″

• The address of PROTO International Sales is as follows.

Internatiotal Sales

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

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

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

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

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

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

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

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

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

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

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is 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.

■ BEFORE REPAIR AND ADJUSTMENT

Disconnect AC power, Discharge both Power Supply Capacitors C703 and C704 (80V 12000μF) C705 and C706 (50V 3300μF) through a 10Ω, 5W resistor to ground. DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdrive 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, 60Hz in NO SIGNAL mode should be 400~1000mA.

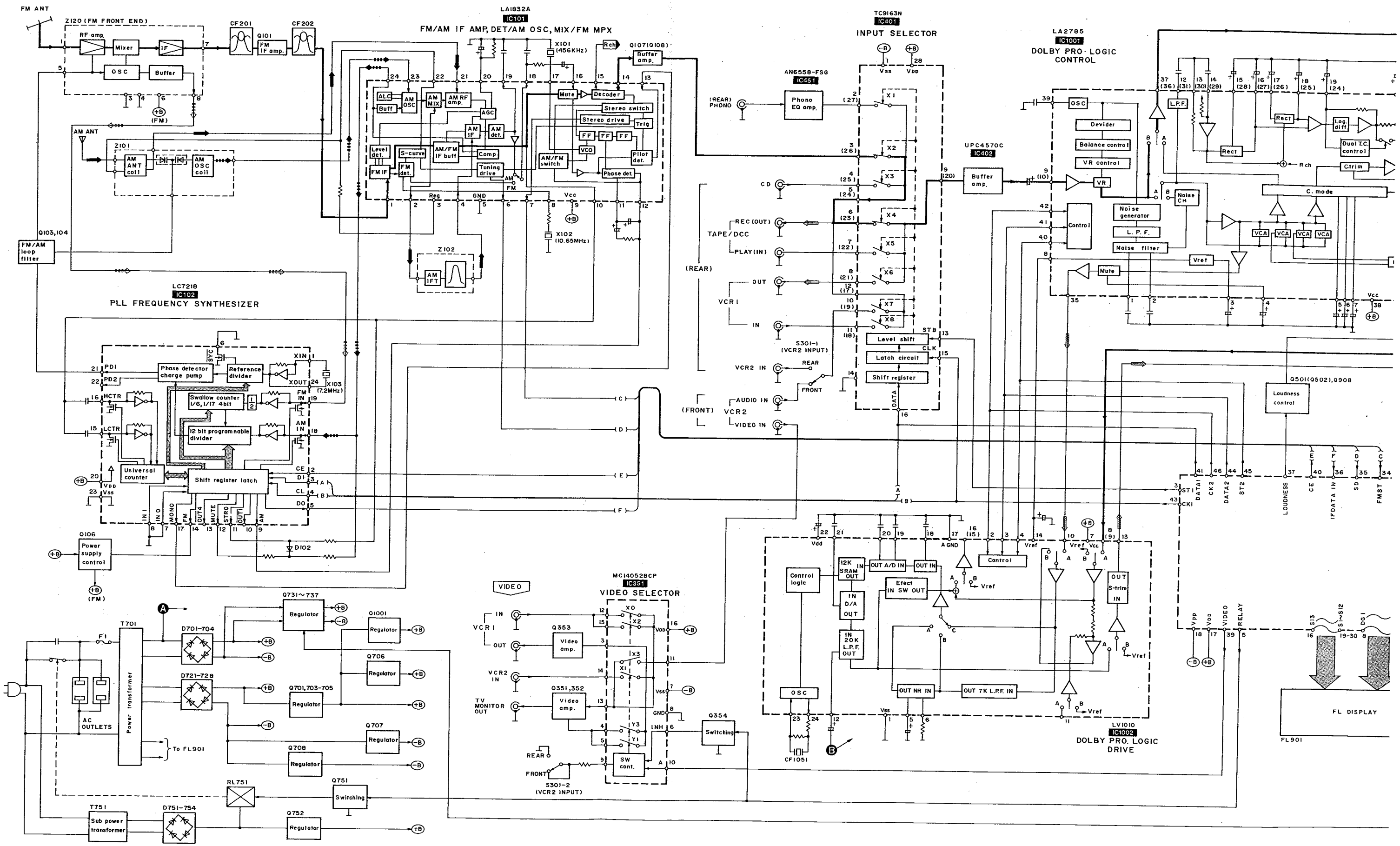
■ TERMINAL FUNCTION OF IC

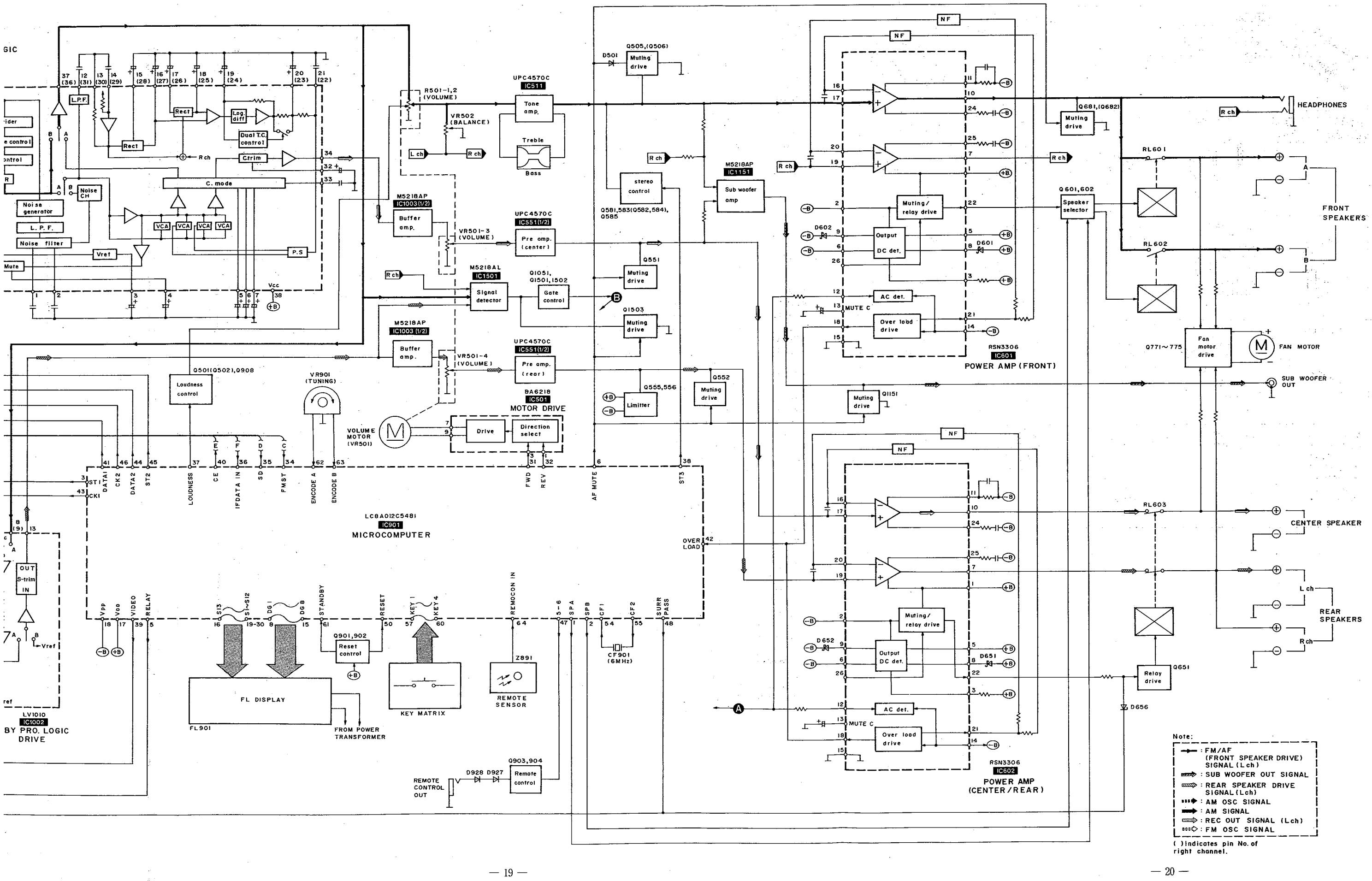
• IC901 (LC8A012C5481): Microcomputer

Pin No.	Mark	I/O Division	Function
1 • 2	SPA • SPB	O	Speaker select control terminal
3	ST1	O	Level shift control terminal
4	NC	—	Not used, open
5	RELAY	O	Relay control terminal
6	AF MUTE	O	Muting control terminal
7	LIMIT	O	Muting control (−20dB) terminal
8 ∫ 15	DG1 ∫ DG8	O	Digit signal of FL display
16	S13	O	Segment signal of FL display
17	VDD	I	Power supply terminal
18	VPP	I	Power supply terminal of FL display
19 ∫ 30	S12 ∫ S1	O	Segment signal of FL display
31 • 32	FWD • REV	O	Rotation control terminal of volume motor
33	IN1	—	Not used, connected to resistor
34	FM STEREO	I	Stereo signal detect terminal
35	SD	I	Received signal detect terminal
36	IFDATAIN	I	Serial data signal
37	LOUDNESS	—	Not used, open
38	ST3	O	Level shift control terminal
39	VIDEO	O	Video selector control terminal
40	CE	O	Chip enable terminal

Pin No.	Mark	I/O Division	Function
41	DATA1	O	Serial data signal
42	OVER LOAD	I	Over load detect terminal
43	CK1	O	Serial clock signal
44	DATA2	O	Serial data signal
45	ST2	O	Level shift control terminal
46	CK2	O	Serial clock signal
47	5−6	O	Remote control terminal
48	SURR. PASS	O	Level shift control terminal
49	NC	—	Test terminal
50	RESET	I	Reset detect terminal
51	XT1	—	Not used, connected to power supply
52	XT2	—	Not used, open
53	VSS	—	GND terminal
54	CF1	I	Crystal oscillator
55	CF2	O	Terminal (6MHz)
56	VDD	I	Power supply terminal
57 ∫ 60	KEY1 ∫ KEY4	I	Key matrix detect terminal
61	STANDBY	I	Power detect terminal
62 • 63	ENCODE A • ENCODE B	I	Not used, connected to power supply
64	REMOCON IN	I	Remote control terminal

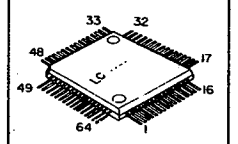
■ BLOCK DIAGRAM

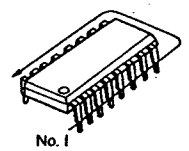



GIC
L.P.F.
Rect
Log. diff
Dual T.C. control
Rect
Ctrim
C. mode
Noise CH
Noise generator
L. P. F.
Noise filter
Vref
P.S
VCA
Mute
Vcc
R ch
L ch
R501-1,2 (VOLUME)
VR502 (BALANCE)
UPC4570C IC511
Tone amp.
Treble
Bass
M5218AP IC1003(1/2)
Buffer amp.
VR501-3 (VOLUME)
UPC4570C IC551(1/2)
Pre amp. (center)
M5218AL IC1501
Signal detector
Q1051, Q1501,1502
Gate control
M5218AP IC1003 (1/2)
VR501-4 (VOLUME)
Pre amp. (rear)
BA6218 IC501
MOTOR DRIVE
Drive
Direction select
VOLUME MOTOR (VR501)
VR901 (TUNING)
Q501(Q502),Q908
Loudness control
LC8A012C5481 IC901
MICROCOMPUTER
LV1010 IC1002
BY PRO. LOGIC DRIVE
OUT S-trim IN
Vref
FL DISPLAY
FL901
FROM POWER TRANSFORMER
Q901,902
Reset control
KEY MATRIX
Z891
REMOTE SENSOR
Q903,904
Remote control
D928 D927
REMOTE CONTROL OUT
CF901 (6MHz)
D501
Q505,(Q506)
Muting drive
stereo control
Q581,583(Q582,584), Q585
Q551
Muting drive
Q1051, Q1501,1502
Gate control
Q1503
Muting drive
Q555,556
Limitter
Q552
Muting drive
M5218AP IC1151
Sub woofer amp
NF
Muting/ relay drive
Output DC det.
D602
D601
AC det.
MUTE C
Over load drive
RSN3306 IC601
POWER AMP (FRONT)
Muting drive
Q1151
Q681,(Q682)
Muting drive
Q601,602
Speaker selector
RL601
RL602
HEADPHONES
FRONT SPEAKERS
Q771~775
Fan motor drive
FAN MOTOR
SUB WOOFER OUT
RL603
CENTER SPEAKER
REAR SPEAKERS
L ch
R ch
Relay drive
Q651
D656
D652
D651
RSN3306 IC602
POWER AMP (CENTER/REAR)
OVER LOAD
AF MUTE
FWD
REV
ENCODE A
ENCODE B
FMST
SD
IFDATA IN
CE
LOUDNESS
DATA2
CK2
DATA1
ST1
ST2
ST3
CKI
VPP
VDD
VIDEO
RELAY
STANDBY
RESET
REMOCON IN
SPA
SPB
CF1
CF2
SURR PASS
KEY1
KEY4
DG1
DG8
SI3
SI-SI2
Note:
: FM/AF (FRONT SPEAKER DRIVE) SIGNAL (Lch)
: SUB WOOFER OUT SIGNAL
: REAR SPEAKER DRIVE SIGNAL (Lch)
: AM OSC SIGNAL
: AM SIGNAL
: REC OUT SIGNAL (Lch)
: FM OSC SIGNAL
( ) indicates pin No. of right channel.

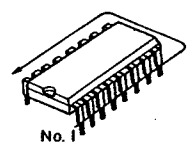
■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

LC8A012C5481



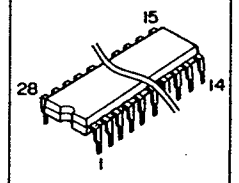


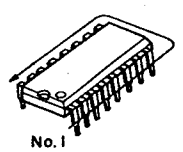
M5218AP	8 Pin
LV1010	24 Pin
LA1832A	24 Pin
LC7218	24 Pin



AN6558-FSG	8 Pin
LA2785	42 Pin

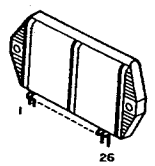
TC9163N



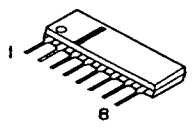


UPC4570C	8 Pin
MC14052BCP	16 Pin

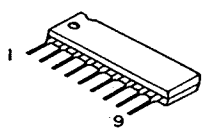
RSN3306



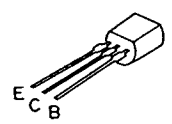
M5218AL



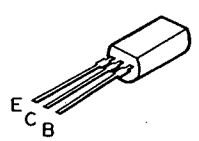
BA6218

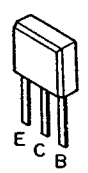


2SA992EFTA
2SB621AQSTA



2SC3940AQSTA

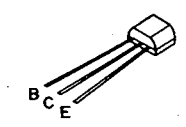




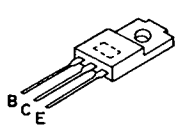
2SA1309AIRTA
2SC2785FETA
2SC2787LTA
2SC3311AIRTA
2SC3311ARSTA
UN411FTA
UN4113TA

UN421FTA
UN4211TA
UN4213TA
UN4214TA

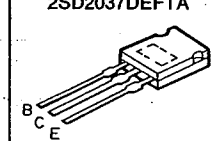
2SC3327ABTP



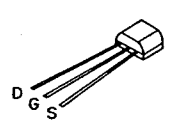
2SB1187DEF
2SD1761DEF

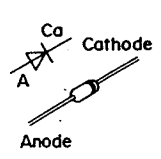


2SB1357DEFTA
2SD2037DEFTA

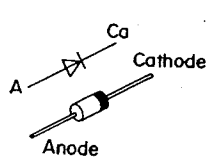


2SJ40CDTA

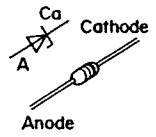




MA165TA
MA700ATA
1SS291TA
1SR35200TB

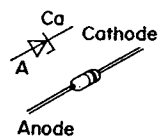


P300DLF
P300D5002T
SB3606501T



MA4030MTA
MA4039MTA
MA4047MTA
MA4056MTA
MA4062MTA
MA4068MTA
MA4075MTA

MA4051MTA
MA4082MTA



MA4100MTA
MA4150MTA
MA4220MTA
MA4360MTA

■ SCHEMATIC DIAGRAM (Parts list on pages 44~50.)

(This schematic diagram may be modified at any time with the development of new technology.)

Note 1:

- **S946** : Numeric (5) switch.
- **S947** : Center level adjust (CENTER LEVEL (−)) switch.
- **S948** : Test signal ON/OFF (TEST) switch.
- **S949** : Numeric (4) switch.
- **S950** : Numeric (6) switch.
- **S951** : Center level adjust (CENTER LEVEL (+)) switch.
- **S952** : Numeric (7) switch.
- **S953** : Rear level adjust (REAR LEVEL (−)) switch.
- **S954, 955** : Input select switches. (S954: CD, S955: TUNER)
- **S956** : Center mode select (CENTER MODE) switch.
- **S957** : Numeric (9) switch.
- **S958** : Muting/Loudness (-MUTING−LOUDNESS) switch.
- **S960** : Rear level adjust (REAR LEVEL (+)) switch.
- **S961** : Numeric (8) switch.
- **S962** : Numeric (0) switch.
- **S963** : Delay time adjust (DELAY TIME) switch.
- **S964** : Input select (PHONO) switch.
- **S966** : Memory (MEMORY) switch.
- **S968** : Help/reset (-HELP−RESET) switch.
- **S970** : Tape/DCC monitor (TAPE/DCC MONITOR) switch.
- **S971, 972** : Input select switch. (S971: VCR 2, S972: VCR 1)
- **S973** : Speaker select (SPEAKERS B) switch.
- **S974** : FM mode select (FM MODE) switch.
- **S975** : Band select (BAND) switch.
- **S976** : Direct tuning (DIRECT TUNING) switch.
- **S978** : Power (POWER) switch.
- **S980** : DOLYB PRO LOGIC 3 STEREO ON/OFF (3 STEREO) switch.
- **S981** : Speaker select (SPEAKERS A) switch.
- **S982** : Dolby pro logic surround ON/OFF (SURROUND) switch.
- **S983** : Numeric (3) switch.
- **S984** : Numeric (2) switch.
- **S986** : Tuning mode select (TUNING MODE) switch.

- Signal line
  - : FM OSC signal
  - : AM OSC signal
  - : Rec out signal (Lch)
  - : Rear speaker drive signal (Lch)
  - : Positive voltage lines
  - : Negative voltage lines
  - : FM signal
  - : AM signal
  - : AF signal (Lch)
  - : Center speaker drive signal (Lch)
  - : Sub woofer drive signal

- 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 as occation calls. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
- The supply part number is described alone in the replacement parts.

Part No.	Production Part No.	Supply Part No.
IC1501	M5218AL	M5218L

- All voltage values shown in circuitry are DC voltage in FM signal (Stereo signal) reception mode.

∗Figures in ( ) Stand for DC-voltage in AM signal reception mode.

Note 2:

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE 8A 125V FUSE.

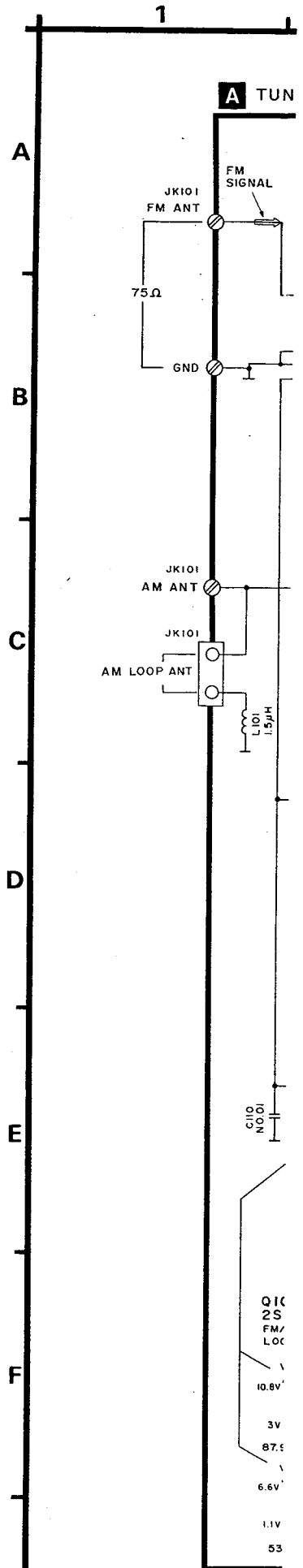
RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

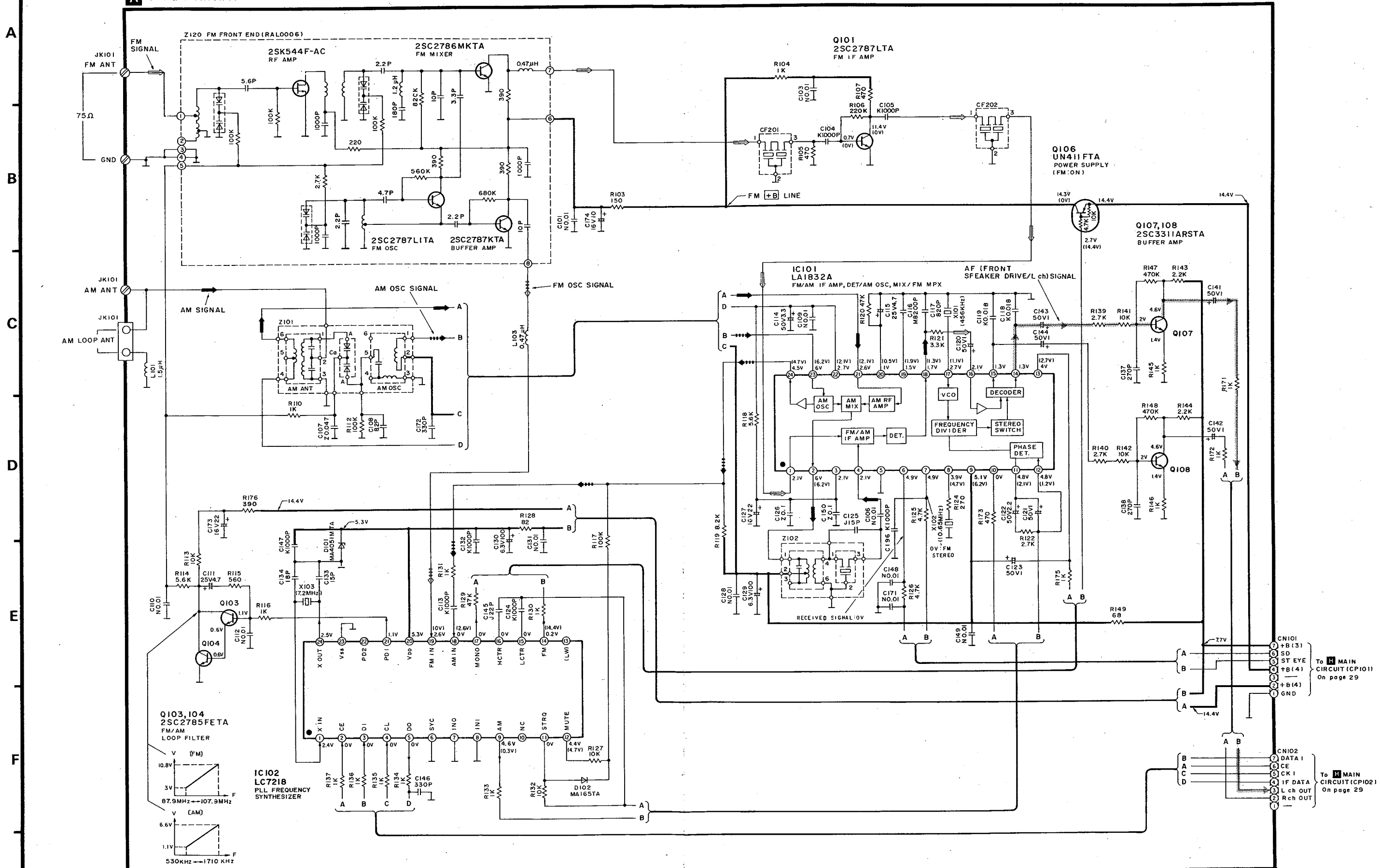
This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

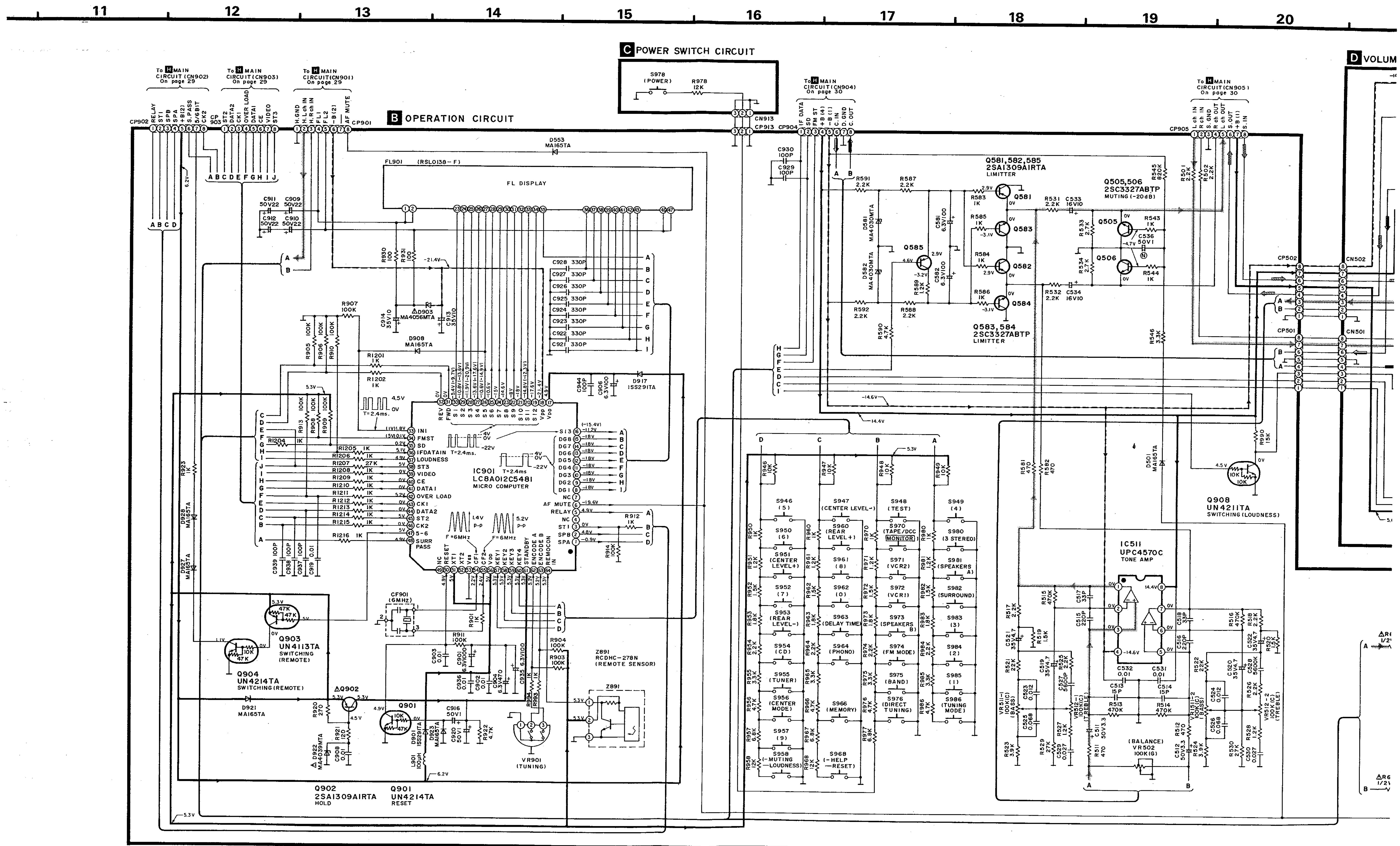
Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé.

- **Caution!**
  IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with alminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.



A TUNER CIRCUIT





B OPERATION CIRCUIT
C POWER SWITCH CIRCUIT
D VOLUM
IC901
LC8A012C5481
MICRO COMPUTER
FL901 (RSL0138-F)
FL DISPLAY
IC511
UPC4570C
TONE AMP
Q581,582,585
2SA1309AIRTA
LIMITTER
Q583,584
2SC3327ABTP
LIMITTER
Q505,506
2SC3327ABTP
MUTING(-20dB)
Q908
UN4211TA
SWITCHING(LOUDNESS)
Q903
UN4113TA
SWITCHING (REMOTE)
Q904
UN4214TA
SWITCHING(REMOTE)
Q902
2SA1309AIRTA
HOLD
Q901
UN4214TA
RESET
Z891
RCDHC-278N
(REMOTE SENSOR)
VR901
(TUNING)

15 16 17 18 19 20 21 22 23 24

C POWER SWITCH CIRCUIT

D VOLUME CIRCUIT

S978 (POWER) R978 12K

CN913 CP913 CP904

To H MAIN CIRCUIT (CN904) On page 30

To H MAIN CIRCUIT (CN905) On page 30

CP905

D553 MA165TA

FL DISPLAY

C928 330P
C927 330P
C926 330P
C925 330P
C924 330P
C923 330P
C922 330P
C921 330P

C944 100P
C906 6.3V100
D917 ISS291TA

2C5481 MPUTER

S13 DG8 DG7 DG6 DG5 DG4 DG3 DG2 DG1 NC AF MUTE RELAY NC STI SPB SPA

R912 1K
R914 100K

KEY4 KEY3 KEY4 STANDBY ENCODE A ENCODE B REMOCON IN

R904 100K
R903 100K
C935 6.3V100
R994 1K
R995 1K

Z891 RCDHC-278N (REMOTE SENSOR)

Z891

VR901 (TUNING)

C930 100P
C929 100P

Q581,582,585 2SA1309AIRTA LIMITER

Q583,584 2SC3327ABTP LIMITER

Q505,506 2SC3327ABTP MUTING (-20dB)

D581 MA4030MTA
D582 MA4030MTA

C581 6.3V100
C582 6.3V100

R591 2.2K
R587 2.2K
R592 2.2K
R588 2.2K
R589 12K
R590 4.7K
R531 2.2K
R532 2.2K
R533 2.7K
R534 2.7K
R543 1K
R544 1K
C536 50V1
C533 16V10
C534 16V10
R545 820K
R546 330K

R583 1K
R585 1K
R584 1K
R586 1K

R501 2.2K
R502 2.2K

CP502 CN502 CP501 CN501

R990 15K

Q908 UN4211TA SWITCHING (LOUDNESS)

D501 MA165TA

R581 470
R582 470

IC511 UPC4570C TONE AMP

R515 470K
R516 470K
R517 2.2K
R518 2.2K
R519 1.5K
R520 1.5K
R521 22K
R522 22K
R523 3.9K
R524 3.9K
R525 2.2K
R526 2.2K
R527 12K
R528 12K
R529 27K
R530 27K

C515 220P
C516 220P
C517 33P
C518 33P
C519 35V4.7
C520 35V4.7
C521 35V4.7
C522 35V4.7
C523 0.012
C524 0.012
C525 0.068
C526 0.068
C527 560P
C528 560P
C529 0.027
C530 0.027
C531 0.01
C532 0.01
C513 15P
C514 15P
C511 50V3.3
C512 50V3.3

VR511-1 100K(C) (BASS)
VR512-1 100K(C) (TREBLE)
VR511-2 100K(C) (BASS)
VR512-2 100K(C) (TREBLE)
R513 470K
R514 470K
R511 470
R512 470

(BALANCE) VR502 100K(G)

IC551 UPC4570C PRE AMP (CENTER / REAR)

R556 27K
R558 1.2K
C556 100P
C554 100P
C558 0.1
C552 50V3.3
R552 1K
C560 16V10
R554 10K
C559 16V10
R553 10K
C551 50V3.3
R551 1K
C555 220P
C553 100P
R555 3.3K
R557 470
C557 0.1

VR501-4 100K(B)
VR501-3 100K(B)
VR501-2 100K(B)
VR501-1 (VOLUME) 100K(B)

R506 10K
R505 10K
R503 10K
R504 10K

R507 15K

Q501 Q502 2SJ40CDTA SWITCHING (LOUDNESS)

C501 0.033
C502 0.033

IC501 BA6218 MOTOR DRIVE

DIRECTION SELECT
DRIVE

L501 1μH
L502 1μH

R508 1/2W2.2
C503 6.3V100
C504 6.3V100
C506 0.1
C505 0.1

Q681,682 2SC3327ABTP MUTING

R681 1/2W56
R683 1/2W56
C681 50V10
R682 1/2W56
R684 1/2W56
C682 50V10

Q681
Q682

R695 1K
R696 1K

R689 27
R691 27
R693 27
R694 27
R692 27
R690 27

R699 3.3K
C685 0.01

E HEADPHONES JACK CIRCUIT

CP601 CN601 HP601 HEADPHONES

C940 100P
C941 100P
C942 100P
E501

F IN/OUT TERMINAL CIRCUIT

G VCR2 CIRCUIT

H MAIN CIRCUIT

IC401 TC9163N INPUT SELECTOR

IC402 UPC4570C BUFFER AMP

IC451 AN6558-FSG PHONO EQ AMP

IC1001 LA2785 DOLBY PRO LOGIC CONTROL

IC1002 LV1010 DOLBY PRO LOGIC DRIVE

IC351 MC14052BCP VIDEO SELECTOR

Q352,353 2SA1309AIRTA VIDEO AMP

Q351 2SC3311AIRTA VIDEO AMP

Q354 UN4213TA SWITCHING

Q1051 2SJ40CDTA GAIN ADJ

ΔQ1001 2SC3940AQSTA REGULATOR

To A TUNER CIRCUIT(CN101) On page 24

To A TUNER CIRCUIT(CN102) On page 24

To B OPERATION CIRCUIT(CP902) On page 25

To B OPERATION CIRCUIT(CP903) On page 25

To B OPERATION CIRCUIT(CP901) On page 25

5 6 7 8 9 10 11 12 13 14

G VCR2 CIRCUIT

H MAIN CIRCUIT

IC451 AN6558-FSG PHONO EQ AMP

Q1051 2SJ40CDTA GAIN ADJ

IC1003 M5218AP BUFFER AMP

IC1001 LA2785 DOLBY PRO LOGIC CONTROL

IC1002 LV1010 DOLBY PRO LOGIC DRIVE

CENTER SPEAKER DRIVE SIGNAL

REAR SPEAKER DRIVE SIGNAL (L ch)

(DOLBY TEST POINT)

Q1001 2SC3940AQSTA REGULATOR

To A TUNER CIRCUIT(CN101) On page 24

To A TUNER CIRCUIT(CN102) On page 24

To B OPERATION CIRCUIT(CP902) On page 25

To B OPERATION CIRCUIT(CP903) On page 25

To B OPERATION CIRCUIT(CP901) On page 25

To B OPERATION CIRCUIT(CP904) On page 26

To B OPERATION CIRCUIT(CP905) On page 26

1 MUTING CIRCUIT

IC1501
M5218AL
SIGNAL DET.

Q1501
2SC3311AIRTA
SWITCHING

Q1502
2SC3311AIRTA
SWITCHING

Q1503
UN421ITA
MUTING

Q1151
2SC3327ABTP
MUTING

IC1151
M5218AP
SUB WOOFER AMP

SUB WOOFER OUT SIGNAL

△IC601
RSN3306
POWER AMP (FRONT)

△IC602
RSN3306
POWER AMP (CENTER/REAR)

Q601,602
2SA1309AIRTA
RELAY DRIVE

Q555
2SA1319AIRTA
LIMITTER

Q556
2SC3311AIRTA
LIMITTER

Q551
Q552

Q551,552
2SC3311AIRTA
MUTING

Q651
2SA1309AIRTA
RELAY DRIVE

JK405
Lch Rch
SUB WOOFER

24 25 26 27 28 29 30 31 32 33 34

Note 3:

- **S301** : VCR 2 input select (VCR 2 INPUT) switch.

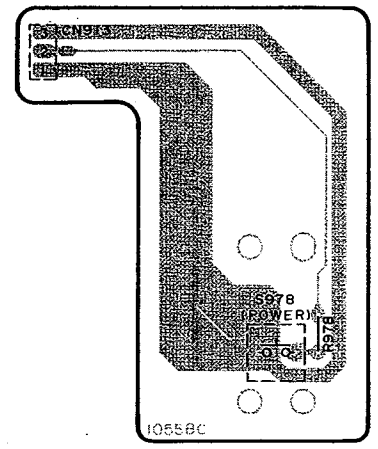
J POWER SUPPLY CIRCUIT

K POWER TRANSFORMER CIRCUIT

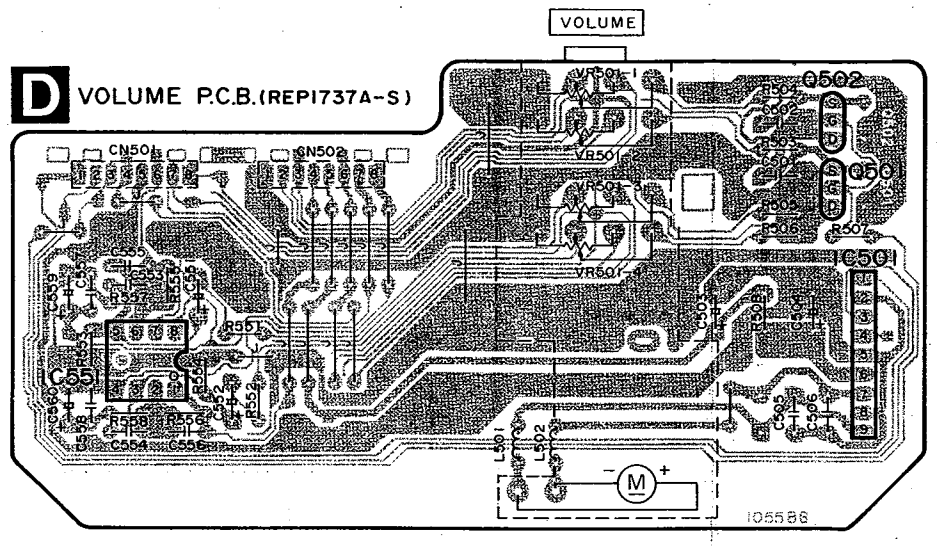
■PRINTED CIRCUIT BOARDS

(This printed circuit board diagram may be modified at any time with the development of new technology)

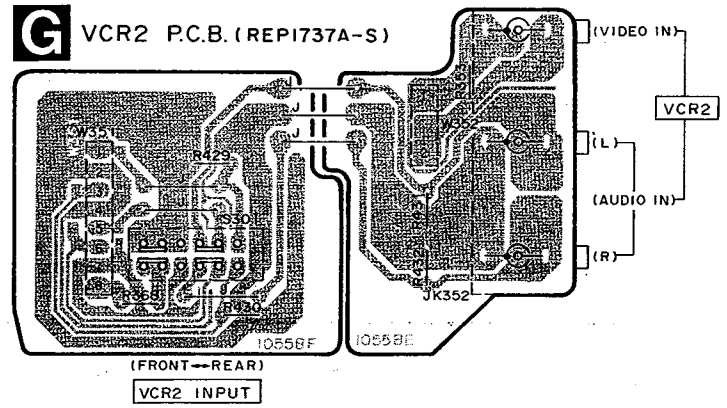
C POWER SWITCH P.C.B. (REPI737A-S)



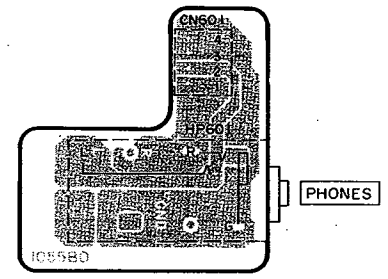
D VOLUME P.C.B.(REPI737A-S)



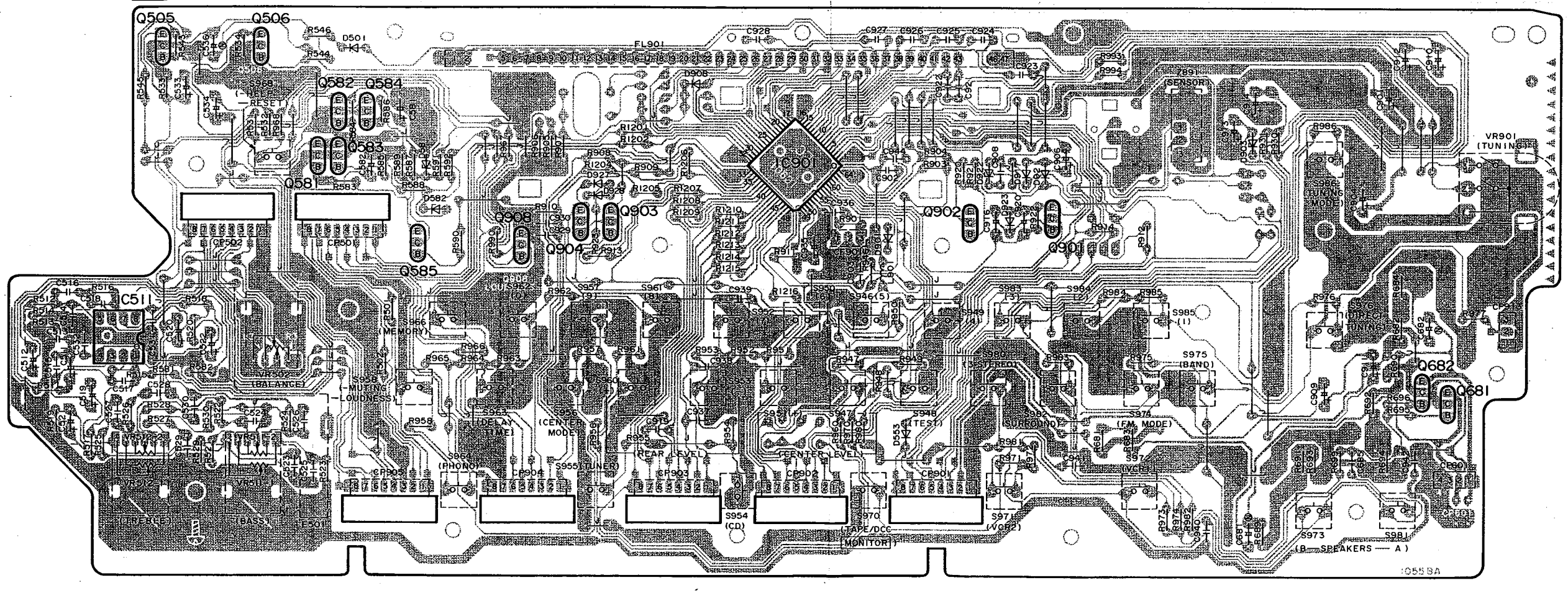
G VCR2 P.C.B. (REPI737A-S)



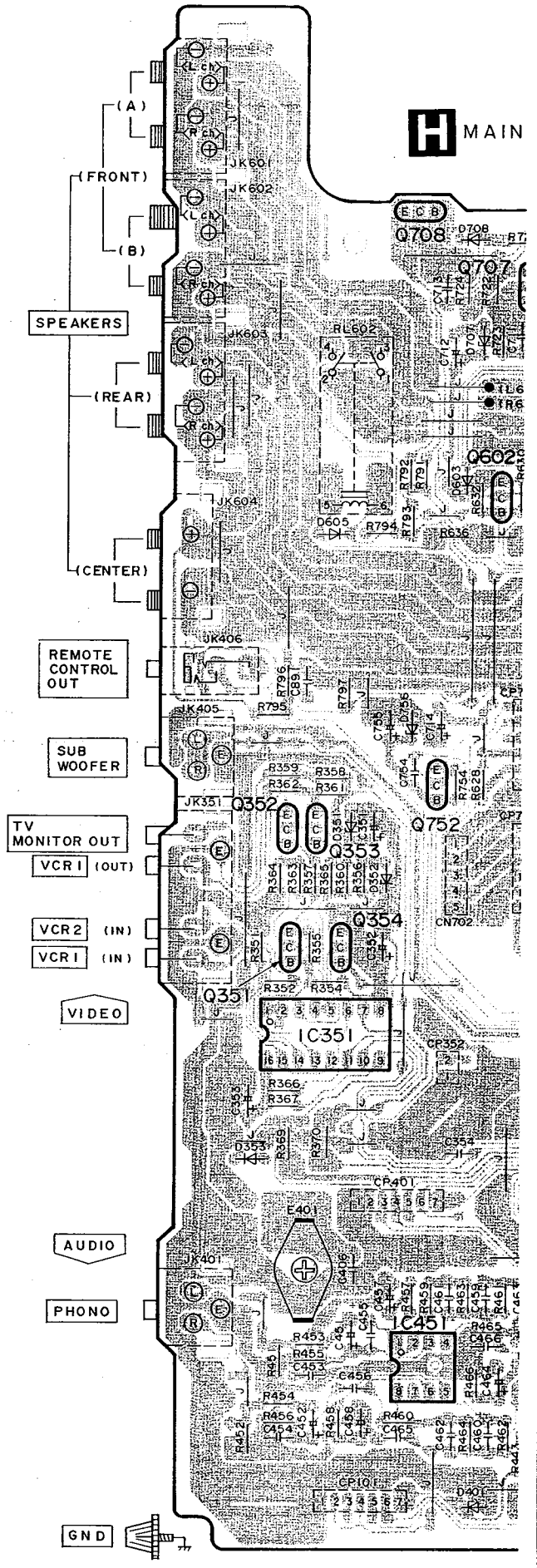
E HEADPHONES JACK P.C.B (REPI737A-S)



B OPERATION P.C.B. (REPI737A-S)

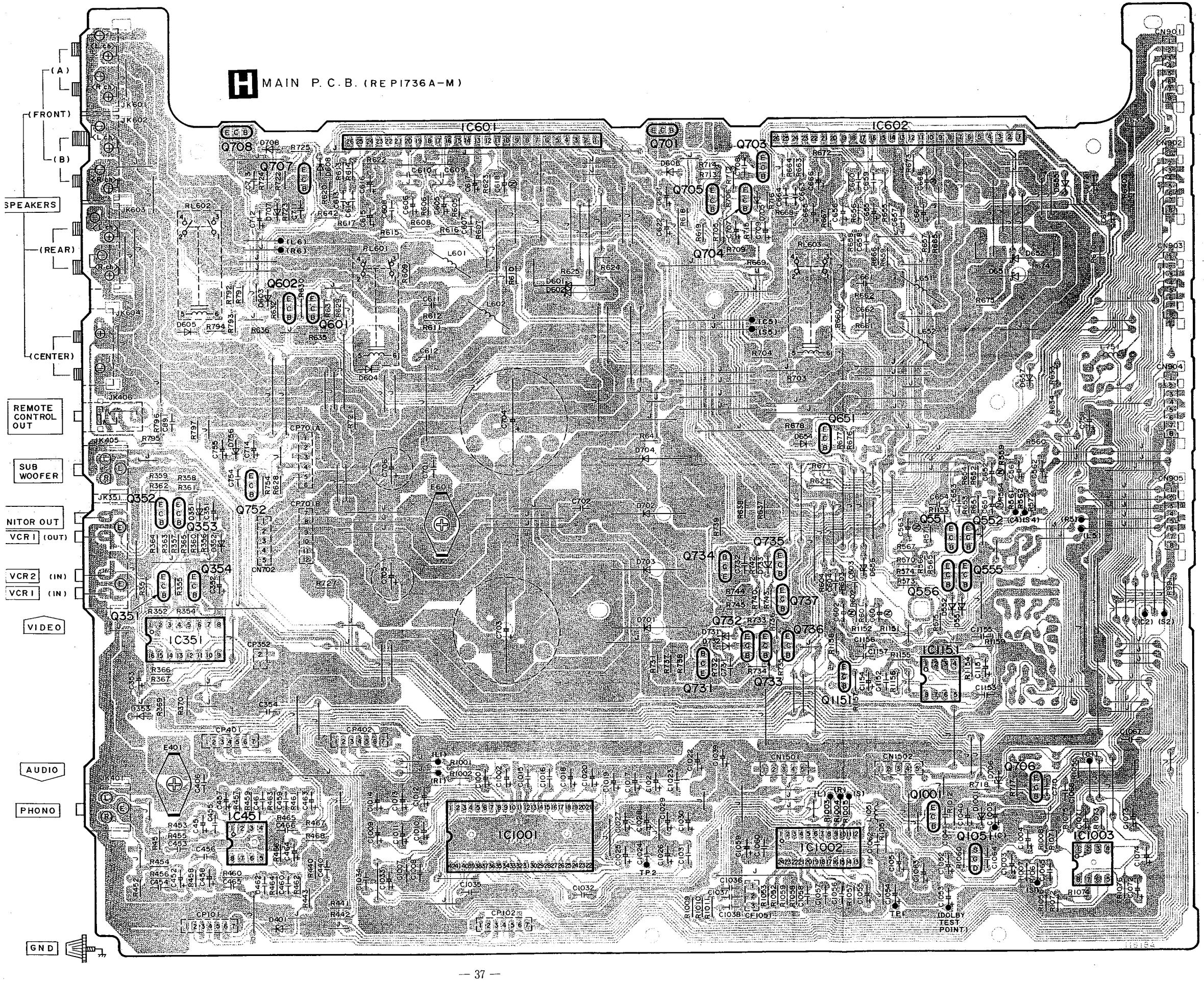


H MAIN



10 11 12 13 14 15 16 17 18 19

H MAIN P.C.B. (REPI736A-M)



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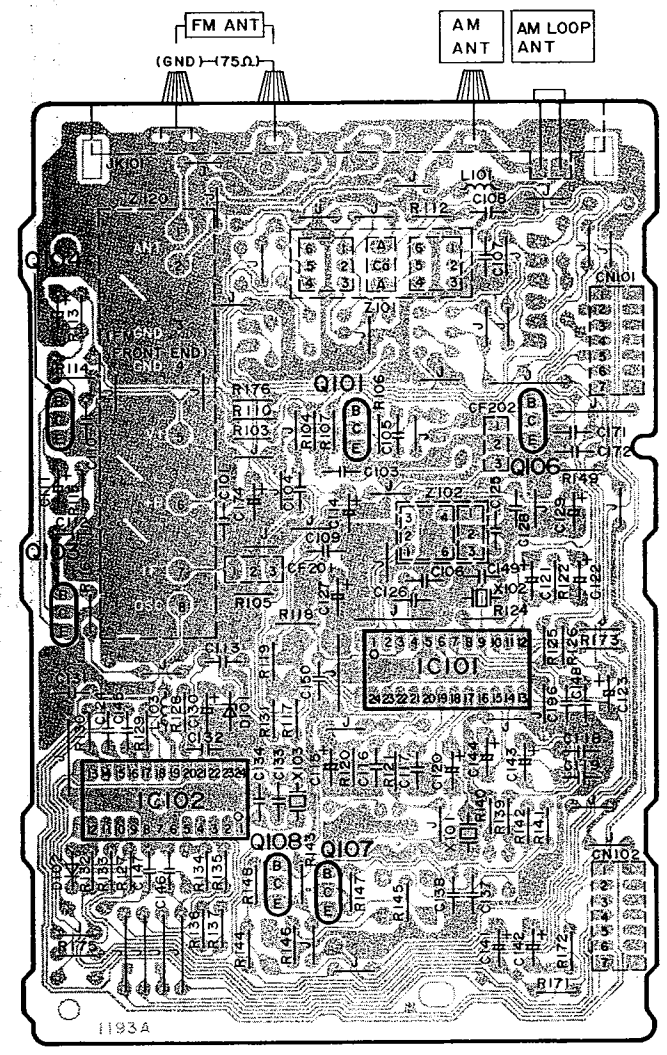
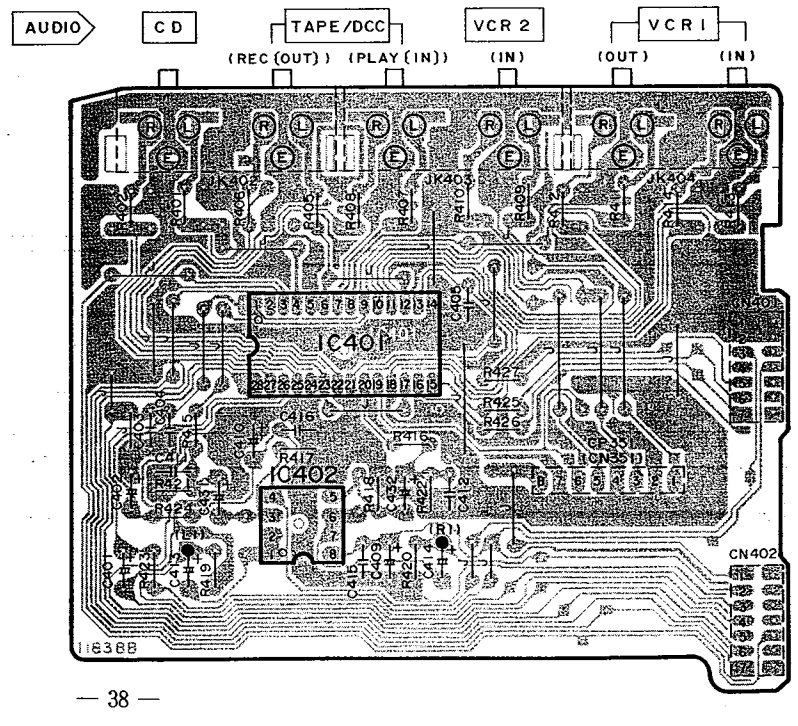
A TUNER P.C.B. (REPI750A-T)



F IN/OUT TERMINAL P.C.B. (REPI738A-P)



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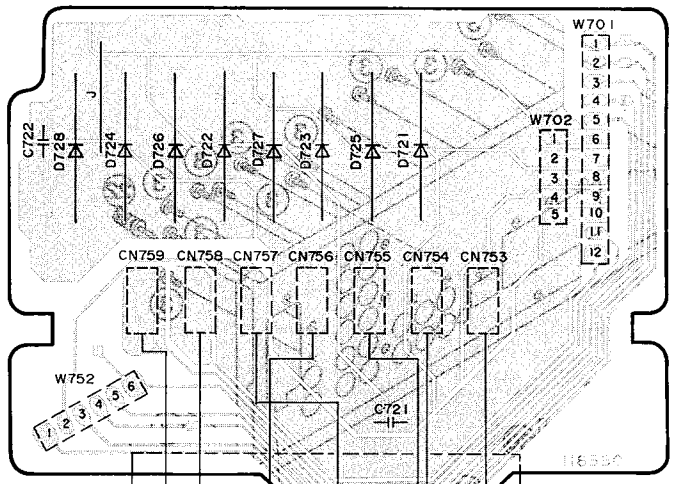
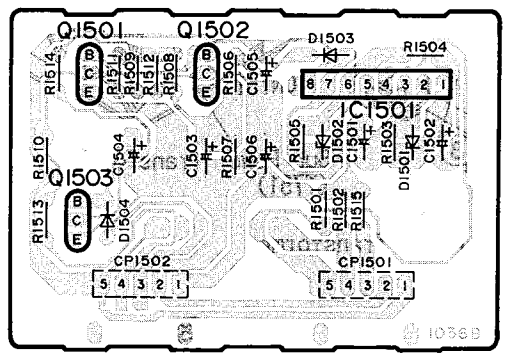
K POWER TRANSFORMER P.C.B.(REPI738A-P)

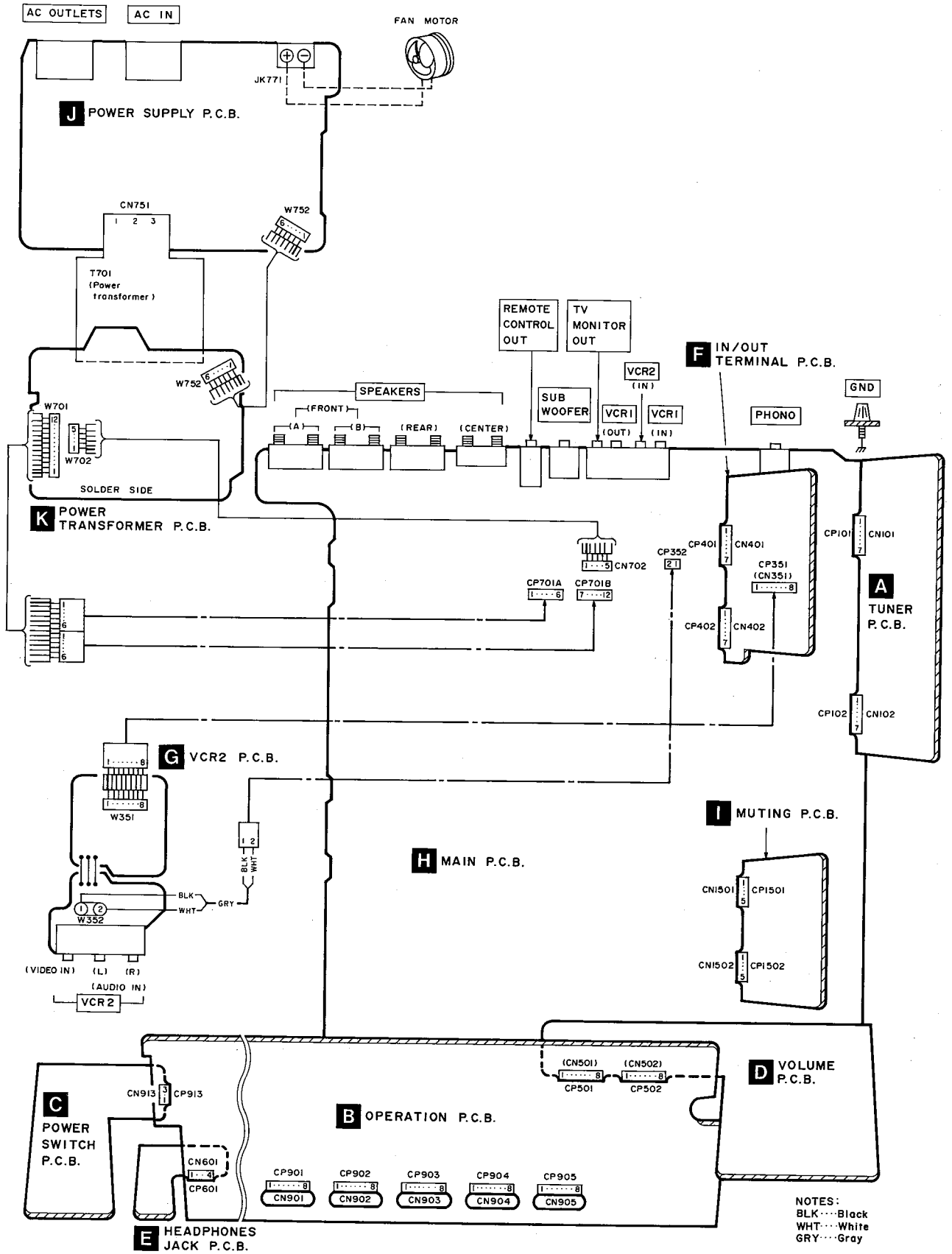


I MUTING P.C.B.(REPI565B-T)

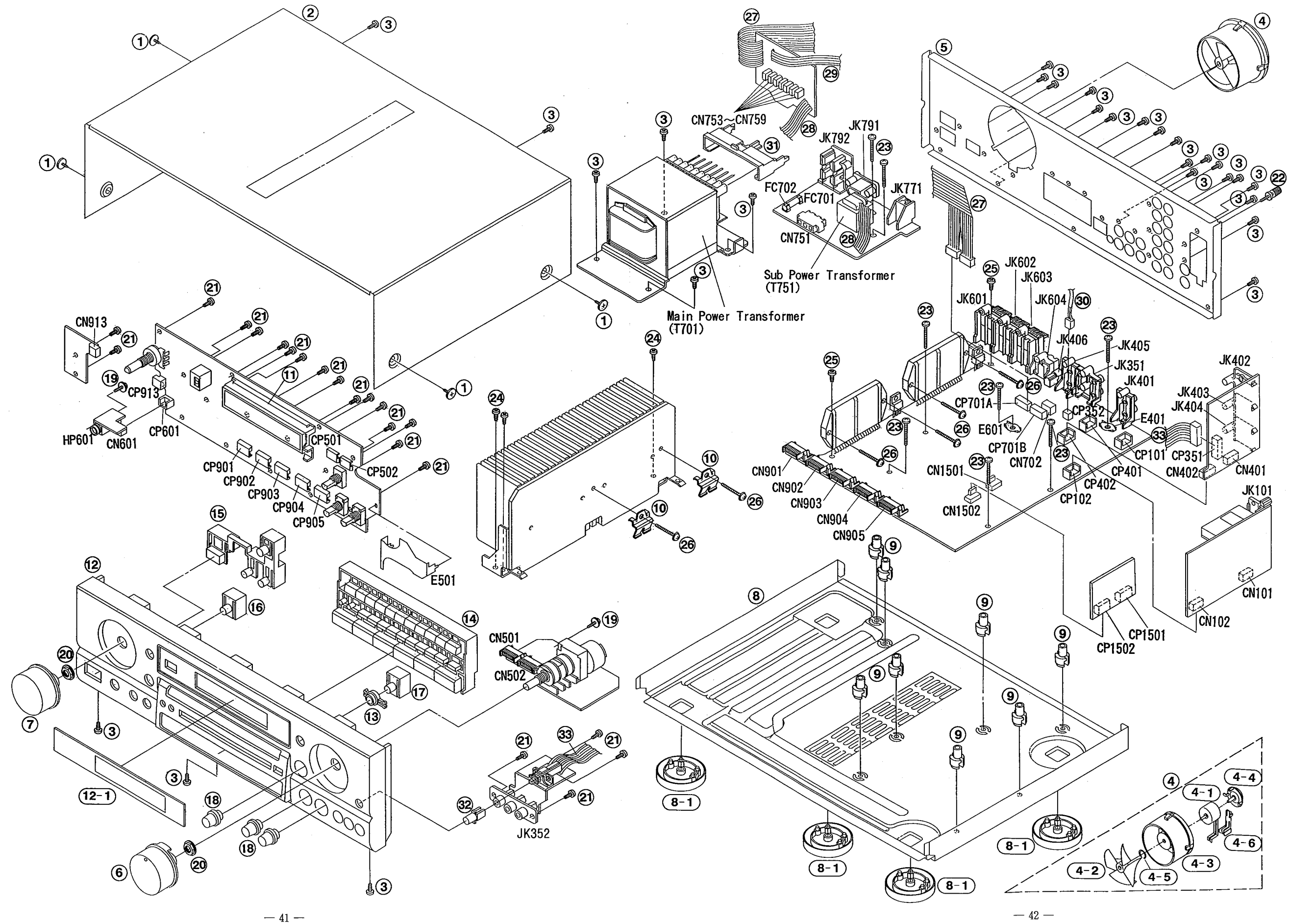


J POWER SUPPLY P.C.B.(REPI738A-P)

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 indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*Remote Control Ass'y: Supply period for three years from termination of production.
*The "(SF)" mark denotes the standard part.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RHD30035-K	SCREW	
2	RKM0041A-K	CABINET	
3	XTBS3+8JFZ1	SCREW	
4	REM0020-1	FAN MOTOR UNIT	
4-1	MDN-4RB4MRC	MOTOR	
4-2	SHE232-1	FAN	
4-3	RMQ0209-K	FAN CASE	
4-4	RMQ0208-K	FAN CAP	
4-5	SUS271	SPRING	
4-6	RMQ0212-K	FAN TERMINAL CAP	
5	RGR0168F-A	REAR PANEL	
6	RGW0163-K	VOLUME KNOB	
7	RGW0171-K	TUNING KNOB	
8	RFKJAGX470PK	BOTTOM CHASSIS ASS'Y	
8-1	RKA0053-A	FOOT	
9	RKQ0089	P. C. B. SUPPORT	
10	RMC0158	TRANSISTOR HOLDER	
11	RMN0205	FL HOLDER	
12	RFKGAGX770PK	FRONT PANEL ASS'Y	
12-1	RKW0268B-Q	TRANSPARENT PLATE	
13	RGK0604-N	ORNAMENT BUTTON	
14	RGU0837B-K	SELECTOR BUTTON	
15	RFKNAGX550PA	POWER BUTTON ASS'Y	
16	RFKNAGX550PB	MODE BUTTON ASS'Y	
17	RFKNAGX350PB	MUTING BUTTON ASS'Y	
18	RGW0175-1K	BALANCE/TREBLE/BASS KNOB	
19	RHD26016	SCREW	
20	RHN90001	NUT	
21	XTBS26+8J	SCREW	
22	SNE2123	GND TERMINAL	
23	XTB3+20JFZ	SCREW	
24	XTB3+8JFZ	SCREW	
25	XTWS3+8T	SCREW	
26	XTW3+15T	SCREW	
27	RFKEUG75PP-K	CONNECTOR ASS'Y(12P) (W701)	
28	RWJ1806110KK	FLAT CABLE(6P) (W752)	
29	REZ0684	FLAT CABLE(5P) (W702)	
30	REX0500	FLAT CABLE(2P) (W352)	
31	RMN0217	SUB2 P. C. B. HOLDER	
32	RGU0609-K	VCR2 BUTTON	
33	REX0503	FLAT CABLE(8P) (W351)	

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIAL	
P1	RPG1890	PACKING CASE	
P2	RPN0682-2	CUSHION	
P3	RPQ0164	PAD(ACCESSORIES)	
P4	XZB60X65A01Z	PROTECTION BAG(UNIT)	
		ACCESSORIES	
A1	RFKSAGX670P	INSTRUCTION MANUAL ASS'Y	(P)
A1	RFKSAGX670PC	INSTRUCTION MANUAL ASS'Y	(PC)
A2	SJA172	AC POWER SUPPLY CORD	⚠(SF)
A3	RSA0006	FM INDOOR ANTENNA	
A4	RSA0010	AM LOOP ANTENNA SET	
A4-1	RMN0244	AM ANTENNA HOLDER	
A4-2	XTN3+10AFZ	SCREW	
A5	RQCB0391	SERVICENTER LIST	(P)
A5	SQX9131	SEVICENTER LIST	(PC)
A6	RQA0085	WARRANTY CARD	(P)
A6	SQX7183	WARRANTY CARD	(PC)
A7	RAK-SA723MH	REMOTE CONTROL TRANSMITTER	
A7-1	RKK0020-K	BATTERY COVER	FOR R/C TRANSMITTER

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC101	LA1832A	FM/AM IF AMP./AM OSC	
IC102	LC7218	PLL FREQ. SYNTHESIZER	
IC351	MC14052BCP	VIDEO SELECTOR	
IC401	TC9163N	INPUT SELECTOR	
IC402	UPC4570C	BUFFER AMP.	
IC451	AN6558-FSG	PHONO EQ AMP.	
IC501	BA6218	MOTOR DRIVE	
IC511	UPC4570C	TONE AMP.	
IC551	UPC4570C	PRE AMP.	
IC601, 602	RSN3306	POWER AMP(FRONT/REAR)	⚠
IC901	LC8A012C5481	MICROCOMPUTER	
IC1001	LA2785	DOLBY PRO-LOGIC CONTROL	
IC1002	LV1010	DOLBY PRO-LOGIC DRIVE	
IC1003	M5218AP	BUFFER AMP	
IC1151	M5218AP	SUB WOOFER AMP	
IC1501	M5218L	SIGNAL DETECTOR	
		TRANSISTOR(S)	
Q101	2SC2787L	TRANSISTOR	
Q103, 104	2SC2785FE	TRANSISTOR	
Q106	UN411FTA	TRANSISTOR	
Q107, 108	2SC3311ARSTA	TRANSISTOR	
Q351	2SC3311AIRTA	TRANSISTOR	
Q352, 353	2SA1309AIRTA	TRANSISTOR	
Q354	UN4213	TRANSISTOR	
Q501, 502	2SJ40CDTA	TRANSISTOR	
Q505, 506	2SC3327-A	TRANSISTOR	
Q551, 552	2SC3311AIRTA	TRANSISTOR	
Q555	2SA1309AIRTA	TRANSISTOR	
Q556	2SC3311AIRTA	TRANSISTOR	
Q581, 582	2SA1309AIRTA	TRANSISTOR	
Q583, 584	2SC3327-A	TRANSISTOR	
Q585	2SA1309AIRTA	TRANSISTOR	
Q601, 602	2SA1309AIRTA	TRANSISTOR	
Q651	2SA1309AIRTA	TRANSISTOR	
Q681, 682	2SC3327-A	TRANSISTOR	
Q701	2SD1761DEF	TRANSISTOR	⚠
Q703-705	2SC3311AIRTA	TRANSISTOR	⚠
Q706	2SC3940AQSTA	TRANSISTOR	⚠
Q707	2SB621AQSTA	TRANSISTOR	⚠
Q708	2SB1187DEF	TRANSISTOR	⚠
Q731	2SB1357DEFTA	TRANSISTOR	⚠
Q732, 733	2SC3311AIRTA	TRANSISTOR	⚠
Q734	2SD2037DEFTA	TRANSISTOR	⚠
Q735	2SA992EFTA	TRANSISTOR	⚠
Q736	UN4213	TRANSISTOR	
Q737	2SA992EFTA	TRANSISTOR	⚠
Q751	UN421FTA	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q752	2SC3940AQSTA	TRANSISTOR	⚠
Q771, 772	2SA1309AIRTA	TRANSISTOR	
Q773	2SB621AQSTA	TRANSISTOR	⚠
Q774, 775	2SA1309AIRTA	TRANSISTOR	
Q901	UN4214TA	TRANSISTOR	
Q902	2SA1309AIRTA	TRANSISTOR	⚠
Q903	UN4113TA	TRANSISTOR	
Q904	UN4214TA	TRANSISTOR	
Q908	UN4211	TRANSISTOR	
Q1001	2SC3940AQSTA	TRANSISTOR	⚠
Q1051	2SJ40CDTA	TRANSISTOR	
Q1151	2SC3327-A	TRANSISTOR	
Q1501, 1502	2SC3311AIRTA	TRANSISTOR	
Q1503	UN4211	TRANSISTOR	
		DIODE(S)	
D101	MA4051MTA	DIODE	
D102	MA165	DIODE	
D351, 352	MA4056MTA	DIODE	⚠
D353	MA165	DIODE	
D401	MA4075MTA	DIODE	⚠
D501	MA165	DIODE	
D551, 552	MA4030MTA	DIODE	
D553	MA165	DIODE	
D581, 582	MA4030MTA	DIODE	
D601, 602	SB3606501T	DIODE	
D603	MA700	DIODE	
D604-606	MA165	DIODE	
D608	MA165	DIODE	
D651, 652	SB3606501T	DIODE	
D654, 655	MA165	DIODE	
D656	MA4047MTA	DIODE	
D657	MA165	DIODE	
D701-704	P300D5002T	DIODE	⚠
D705, 706	MA4062MTA	DIODE	⚠
D707	MA4220MTA	DIODE	⚠
D708	MA4150M	DIODE	⚠
D721-728	P300DLF	DIODE	⚠
D731	MA4360MTA	DIODE	⚠
D732, 733	MA165	DIODE	
D751-754	1SR35200TB	DIODE	⚠
D755	MA165	DIODE	
D756	MA4068M	DIODE	⚠
D771	MA165	DIODE	
D772	MA4082MTA	DIODE	⚠
D773	MA165	DIODE	
D901	1SS291TA	DIODE	
D903	MA4056MTA	DIODE	⚠
D908	MA165	DIODE	
D917	1SS291TA	DIODE	
D921	MA165	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D922	MA4039MTA	DIODE	⚠
D923	MA165	DIODE	
D927, 928	MA165	DIODE	
D1001	MA4100MTA	DIODE	⚠
D1501, 1502	MA4068M	DIODE	
D1503	MA700	DIODE	
D1504	MA165	DIODE	
		VARIABLE RESISTOR(S)	
VR501	EUWMK3002B15	VOLUME CONTROL	
VR502	EVJ02SFA5G15	BALANCE CONTROL	
VR511, 512	EVJYA1F02C15	TONE CONTROL	
VR901	EVQWP0F2024B	TUNING CONTROL	
		COIL(S)	
L101	ELESN1R5MA	COIL	
L103	ELEXTR47MA9	COIL	
L501, 502	RLQZP1R0KT-Y	COIL	
L601, 602	RLQYR73M	COIL	
L651, 652	RLQYR73M	COIL	
L751	ELEPK101KA	COIL	
L901	RLQZP101KT-Y	COIL	
L1051	ELEPK101KA	COIL	
		TRANSFORMER(S)	
T701	RTP1Q5C007-W	POWER TRANSFORMER(MAIN)	⚠
T751	RTP1H5C001-V	POWER TRANSFORMER(SUB)	⚠
		COMPONENT COMBINATION(S)	
Z101	RLA2Z002M-T	COMPONENT COMBINATION	
Z102	RLI2Z006M-T	COMPONENT COMBINATION	
Z891	RCDHC-278N	REMOTE SENSOR	
		FILTER(S) AND OSCILLATOR(S)	
CF201, 202	RLFFETMGD01L	FILTER	
CF901	EF0EC6004T4	OSCILLATOR(6MHz)	
CF1051	EF0EC8004T4	OSCILLATOR(8MHz)	
X101	RSXZ456KM07M	OSCILLATOR(456KHz)	
X102	RLFDGTD01I	OSCILLATOR(10.65MHz)	
X103	SVQ49U722-S	OSCILLATOR(7.2MHz)	
		DISPLAY TUBE(S)	
FL901	RSL0138-F	DISPLAY TUBE	
		FM FRONT END PACK ASS'Y(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
Z120	RAL0006	FM FRONT END	
		FUSE(S)	
F1	XBA1C80NBAU	FUSE 125V 8A	⚠
		SWITCH(ES)	
S301	RSP2D009-J	VCR2 SELECTOR	
S946	EVQ21405R	PRESET TUNING 5	
S947	EVQ21405R	CENTER DOWN	
S948	EVQ21405R	TEST	
S949	EVQ21405R	PRESET TUNING 4	
S950	EVQ21405R	PRESET TUNING 6	
S951	EVQ21405R	CENTER UP	
S952	EVQ21405R	PRESET TUNING 7	
S953	EVQ21405R	REAR DOWN	
S954	EVQ21405R	CD	
S955	EVQ21405R	TUNER	
S956	EVQ21405R	CENTER MODE	
S957	EVQ21405R	PRESET TUNING 9	
S958	EVQ21405R	MUTE/LOUDNESS	
S960	EVQ21405R	REAR UP	
S961	EVQ21405R	PRESET TUNING 8	
S962	EVQ21405R	PRESET TUNING 0	
S963	EVQ21405R	DELAY TIME	
S964	EVQ21405R	PHONO	
S966	EVQ21405R	MEMORY	
S968	EVQ21405R	HELP/RESET	
S970	EVQ21405R	TAPE	
S971	EVQ21405R	VCR2	
S972	EVQ21405R	VCR1	
S973	EVQ21405R	SPEAKERS B	
S974	EVQ21405R	FM MODE	
S975	EVQ21405R	BAND	
S976	EVQ21405R	DIRECT TUNING	
S978	EVQ21405R	POWER	
S980	EVQ21405R	3 STEREO	
S981	EVQ21405R	SPEAKERS A	
S982	EVQ21405R	SURROUND	
S983	EVQ21405R	PRESET TUNING 3	
S984	EVQ21405R	PRESET TUNING 2	
S985	EVQ21405R	PRESET TUNING 1	
S986	EVQ21405R	TUNING MODE	
		RELAY(S)	
RL601-603	RSY0013M-0	RELAY	⚠
RL751	RSY0019-0	RELAY	⚠
		CONNECTOR(S) AND SOCKET(S)	

Ref. No.	Part No.	Part Name & Description	Remarks
CN101, 102	RJU057W007	SOCKET (7P)	
CN401, 402	RJU057W007	SOCKET (7P)	
CN501, 502	RJU003K008M1	SOCKET (8P)	
CN601	RJU057W004	SOCKET (4P)	
CN702	RJS1A6605	CONNECTOR (5P)	
CN751	SJS305-1	CONNECTOR (3P)	
CN753-759	RJS1A1101T1	CONNECTOR (1P)	
CN901	RJU003K008M1	SOCKET (8P)	
CN902	RJU003K008M1	SOCKET (8P)	
CN903	RJU003K008M1	SOCKET (8P)	
CN904	RJU003K008M1	SOCKET (8P)	
CN905	RJU003K008M1	SOCKET (8P)	
CN913	SJS50382JQH	SOCKET (3P)	
CN1501	RJU060G05T	SOCKET (5P)	
CN1502	RJU060G05T	SOCKET (5P)	
CP101, 102	RJT057W007-1	CONNECTOR (7P)	
CP351	SJT3809	CONNECTOR (8P)	
CP352	SJT3213	CONNECTOR (2P)	
CP401, 402	RJT057W007-1	CONNECTOR (7P)	
CP501, 502	RJT003K008-1	CONNECTOR (8P)	
CP601	RJT057W004-1	CONNECTOR (4P)	
CP701A	RJT039W06T	CONNECTOR (6P)	
CP701B	RJT039W06T	CONNECTOR (6P)	
CP901	RJT003K008-1	CONNECTOR (8P)	
CP902	RJT003K008-1	CONNECTOR (8P)	
CP903	RJT003K008-1	CONNECTOR (8P)	
CP904	RJT003K008-1	CONNECTOR (8P)	
CP905	RJT003K008-1	CONNECTOR (8P)	
CP913	SJT30345JQ	CONNECTOR (3P)	
CP1501	RJT060R05	CONNECTOR (5P)	
CP1502	RJT060R05	CONNECTOR (5P)	
		JACK (S) AND TERMINAL (S)	
JK101	RJH4405-1M	ANT TERMINAL	
JK351	SJF3069-3N	TV MONITOR OUT/VIDEO	
JK352	SJFK5-1A	FRONT VCR2 IN TERMINAL	
JK401	SJF3068-7N	PHONO TERMINAL	
JK402	SJF3069N	CD IN/REC OUT TERMINAL	
JK403	SJF3069N	PLAY IN/VCR2 IN TERMINAL	
JK404	SJF3069N	VCR1 OUT/VCR1 IN TERMINAL	
JK405	SJF3068-7N	SUB WOOFER OUT TERMINAL	
JK406	RJJ33TR01	REMOTE CONTROL OUT TERMINAL	
JK601	RJR0054	FRONT SPEAKERS (A) TERMINAL	
JK602	RJR0054	FRONT SPEAKERS (B) TERMINAL	
JK603	RJR0054	REAR SPEAKERS TERMINAL	
JK604	SJF5201M-1	CENTER SPEAKERS TERMINAL	
JK771	RJS1A7402-1	FAN MOTOR TERMINAL	
JK791	SJSD16	AC INLET	⚠
JK792	RJS2A0102-S	AC OUTLET	⚠
HP601	RJJ63TA01	HEADPHONES JACK	

Ref. No.	Part No.	Part Name & Description	Remarks
		GND PLATE (S)	
E401	SNE1004-2	GND PLATE	
E501	RSC0370	GND PLATE	
E601	SNE1004-2	GND PLATE	
		FUSE HOLDER (S)	
FC701, 702	EYF52BC	FUSE HOLDER	

■ RESISTORS AND CAPACITORS

Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R103	ERDS2TJ151	1/4W 150
R104	ERDS2TJ102	1/4W 1K
R105	ERDS2TJ471	1/4W 470
R106	ERDS2TJ224T	1/4W 220K
R107	ERDS2TJ471	1/4W 470
R110	ERDS2TJ102	1/4W 1K
R112	ERDS2TJ104	1/4W 100K
R113	ERDS2TJ103	1/4W 10K
R114	ERDS2TJ562	1/4W 5.6K
R115	ERDS2TJ561	1/4W 560
R116	ERDS2TJ102	1/4W 1K
R117	ERDS2TJ104	1/4W 100K
R118	ERDS2TJ562	1/4W 5.6K
R119	ERDS2TJ822	1/4W 8.2K
R120	ERDS2TJ473	1/4W 47K
R121	ERDS2TJ332	1/4W 3.3K
R122	ERDS2TJ272T	1/4W 2.7K
R124	ERDS2TJ271	1/4W 270
R125, 126	ERDS2TJ472	1/4W 4.7K
R127	ERDS2TJ103	1/4W 10K
R128	ERDS2TJ820	1/4W 82
R129	ERDS2TJ473	1/4W 47K
R130, 131	ERDS2TJ102	1/4W 1K
R132	ERDS2TJ103	1/4W 10K
R133-137	ERDS2TJ102	1/4W 1K
R139, 140	ERDS2TJ272T	1/4W 2.7K
R141, 142	ERDS2TJ103	1/4W 10K
R143, 144	ERDS2TJ222	1/4W 2.2K
R145, 146	ERDS2TJ102	1/4W 1K
R147, 148	ERDS2TJ474	1/4W 470K
R149	ERDS2TJ680T	1/4W 68
R171, 172	ERDS2TJ102	1/4W 1K
R173	ERDS2TJ471	1/4W 470
R175	ERDS2TJ102	1/4W 1K
R176	ERDS2TJ391	1/4W 390
R351-353	ERDS2TJ471	1/4W 470
R354	ERDS2TJ472	1/4W 4.7K
R355	ERDS2TJ470	1/4W 47
R356	ERDS2TJ152	1/4W 1.5K
R357	ERDS2TJ470	1/4W 47
R358	ERDS2TJ471	1/4W 470
R359, 360	ERDS2TJ470	1/4W 47
R361	ERDS2TJ471	1/4W 470
R362	ERDS2TJ470	1/4W 47
R363	ERDS2TJ332	1/4W 3.3K
R364	ERDS2TJ561	1/4W 560
R365	ERDS2TJ332	1/4W 3.3K
R366, 367	ERDS2TJ104	1/4W 100K
R368	ERDS2TJ103	1/4W 10K
R369, 370	ERDS1FVJ271T	1/2W 270 ⚠
R401, 402	ERDS2TJ102	1/4W 1K
R405-416	ERDS2TJ102	1/4W 1K
R417, 418	ERDS2TJ473	1/4W 47K
R419-422	ERDS2TJ104	1/4W 100K
R423, 424	ERDS2TJ102	1/4W 1K
R425-427	ERDS2TJ103	1/4W 10K
R429-432	ERDS2TJ224T	1/4W 220K
R440	ERDS1FVJ820T	1/2W 82 ⚠
R441, 442	ERDS2TJ473	1/4W 47K
R443	ERDS2TJ330	1/4W 33
R451, 452	ERDS2TJ224T	1/4W 220K
R453, 454	ERDS2TJ821	1/4W 820
R455, 456	ERDS2TJ563	1/4W 56K
R457, 458	ERDS2TJ271	1/4W 270
R459, 460	ERDS2TJ680T	1/4W 68
R461, 462	ERDS2TJ184T	1/4W 180K
R463, 464	ERDS2TJ123	1/4W 12K
R465, 466	ERDS2TJ563	1/4W 56K
R467, 468	ERDS2TJ102	1/4W 1K
R501, 502	ERDS2TJ222	1/4W 2.2K
R503-506	ERDS2TJ103	1/4W 10K
R507	ERDS2TJ153	1/4W 15K
R508	ERDS1FVJ2R2T	1/2W 2.2 ⚠
R511, 512	ERDS2TJ471	1/4W 470
R513-516	ERDS2TJ474	1/4W 470K
R517, 518	ERDS2TJ222	1/4W 2.2K
R519, 520	ERDS2TJ152	1/4W 1.5K
R521, 522	ERDS2TJ223	1/4W 22K
R523, 524	ERDS2TJ392T	1/4W 3.9K
R525, 526	ERDS2TJ222	1/4W 2.2K
R527, 528	ERDS2TJ122	1/4W 1.2K
R529, 530	ERDS2TJ273	1/4W 27K
R531, 532	ERDS2TJ222	1/4W 2.2K
R533, 534	ERDS2TJ272T	1/4W 2.7K
R543, 544	ERDS2TJ102	1/4W 1K
R545	ERDS2TJ824	1/4W 820K
R546	ERDS2TJ332	1/4W 3.3K
R551, 552	ERDS2TJ102	1/4W 1K
R553, 554	ERDS2TJ104	1/4W 100K
R555	ERDS2TJ332	1/4W 3.3K
R556	ERDS2TJ273	1/4W 27K
R557	ERDS2TJ471	1/4W 470
R558	ERDS2TJ122	1/4W 1.2K
R559, 560	ERDS2TJ104	1/4W 100K
R561	ERDS2TJ332	1/4W 3.3K
R562	ERDS2TJ272T	1/4W 2.7K
R564	ERDS2TJ122	1/4W 1.2K
R565, 566	ERDS2TJ102	1/4W 1K
R567	ERDS2TJ474	1/4W 470K
R570	ERDS2TJ103	1/4W 10K
R571	ERDS2TJ332	1/4W 3.3K
R572	ERDS2TJ471	1/4W 470
R573, 574	ERDS2TJ332	1/4W 3.3K
R575	ERDS2TJ102	1/4W 1K
R581, 582	ERDS2TJ471	1/4W 470
R583-586	ERDS2TJ102	1/4W 1K
R587, 588	ERDS2TJ222	1/4W 2.2K
R589	ERDS2TJ122	1/4W 1.2K
R590	ERDS2TJ472	1/4W 4.7K
R591, 592	ERDS2TJ222	1/4W 2.2K
R601, 602	ERDS2TJ102	1/4W 1K
R603, 604	ERDS2TJ563	1/4W 56K
R605, 606	ERDS2TJ182	1/4W 1.8K
R607, 608	ERDS2TJ563	1/4W 56K
R609, 610	ERDS2TJ470	1/4W 47
R611, 612	ERDS1FVJ100T	1/2W 10 ⚠
R613, 614	ERDS2TJ102	1/4W 1K
R615	ERDS2TJ184T	1/4W 180K
R616	ERDS2TJ154	1/4W 150K
R617, 618	ERDS2TJ473	1/4W 47K
R619	ERDS2TJ223	1/4W 22K
R620	ERD25FJ220	1/4W 22 ⚠
R621	ERDS2TJ183T	1/4W 18K
R622	ERDS2TJ124T	1/4W 120K
R623	ERDS2TJ684	1/4W 680K
R624, 625	ERDS2TJ563	1/4W 56K
R628-630	ERDS2TJ223	1/4W 22K
R631, 632	ERDS2TJ103	1/4W 10K
R633, 634	ERDS2TJ102	1/4W 1K
R635, 636	ERDS1FVJ471T	1/2W 470 ⚠
R637-640	ERG1SJ101E	1W 100
R641	ERDS2TJ684	1/4W 680K
R642	ERDS2TJ472	1/4W 4.7K
R651	ERDS2TJ102	1/4W 1K
R652	ERDS2TJ332	1/4W 3.3K
R653, 654	ERDS2TJ563	1/4W 56K
R655, 656	ERDS2TJ182	1/4W 1.8K
R657, 658	ERDS2TJ563	1/4W 56K
R659, 660	ERDS2TJ470	1/4W 47
R661, 662	ERDS1FVJ100T	1/2W 10 ⚠
R663, 664	ERDS2TJ102	1/4W 1K
R665	ERDS2TJ154	1/4W 150K
R666	ERDS2TJ184T	1/4W 180K
R667, 668	ERDS2TJ473	1/4W 47K

Ref. No.	Part No.	Values & Remarks
R669	ERDS2TJ223	1/4W 22K
R670	ERD25FJ220	1/4W 22 ⚠
R671	ERDS2TJ183T	1/4W 18K
R672	ERDS2TJ124T	1/4W 120K
R673	ERDS2TJ684	1/4W 680K
R674, 675	ERDS2TJ563	1/4W 56K
R676	ERDS2TJ223	1/4W 22K
R677	ERDS2TJ103	1/4W 10K
R678	ERDS1FVJ471T	1/2W 470 ⚠
R681-684	ERDS1FVJ560T	1/2W 56 ⚠
R689-694	ERDS2TJ270T	1/4W 27
R695, 696	ERDS2TJ102	1/4W 1K
R699	ERDS2TJ332	1/4W 3.3K
R703, 704	ERDS1FVJ3R9T	1/2W 3.9 ⚠
R705	ERDS2TJ472	1/4W 4.7K
R706	ERDS2TJ102	1/4W 1K
R709	ERD25FVJ221T	1/4W 220 ⚠
R712	ERDS2TJ472	1/4W 4.7K
R713, 714	ERDS2TJ1R5T	1/4W 1.5
R715	ERDS2TJ752T	1/4W 7.5K
R716	ERDS2TJ682T	1/4W 6.8K
R717	ERDS1FVJ220T	1/2W 22 ⚠
R718	ERDS2TJ182	1/4W 1.8K
R721	ERDS1FVJ4R7T	1/2W 4.7 ⚠
R722	ERD25FJ101	1/4W 100 ⚠
R723	ERDS2TJ472	1/4W 4.7K
R724	ERDS1FVJ6R8T	1/2W 6.8 ⚠
R725	ERDS2TJ152	1/4W 1.5K
R727	ERDS1FVJ6R8T	1/2W 6.8 ⚠
R731	ERD25FVJ180T	1/4W 18 ⚠
R732	ERDS2TJ153	1/4W 15K
R733	ERDS2TJ123	1/4W 12K
R734	ERDS2TJ103	1/4W 10K
R735	ERDS2TJ822	1/4W 8.2K
R736	ERDS2TJ273	1/4W 27K
R737, 738	ERDS1FVJ561T	1/2W 560 ⚠
R739	ERD25FVJ180T	1/4W 18 ⚠
R740	ERDS2TJ393	1/4W 39K
R742	ERDS2TJ393	1/4W 39K
R743	ERDS2TJ183T	1/4W 18K
R744, 745	ERDS1FVJ561T	1/2W 560 ⚠
R751	ERC12ZGK335	1/2W 3.3M ⚠
R754	ERDS2TJ102	1/4W 1K
R772	ERDS2TJ104	1/4W 100K
R773	ERDS2TJ103	1/4W 10K
R774	ERDS2TJ223	1/4W 22K
R775	ERDS2TJ332	1/4W 3.3K
R776	ERDS1FVJ150T	1/2W 15 ⚠
R777	ERDS2TJ150T	1/4W 15
R778	ERDS2TJ222	1/4W 2.2K
R779	ERDS2TJ103	1/4W 10K
R780, 781	ERDS2TJ333	1/4W 33K

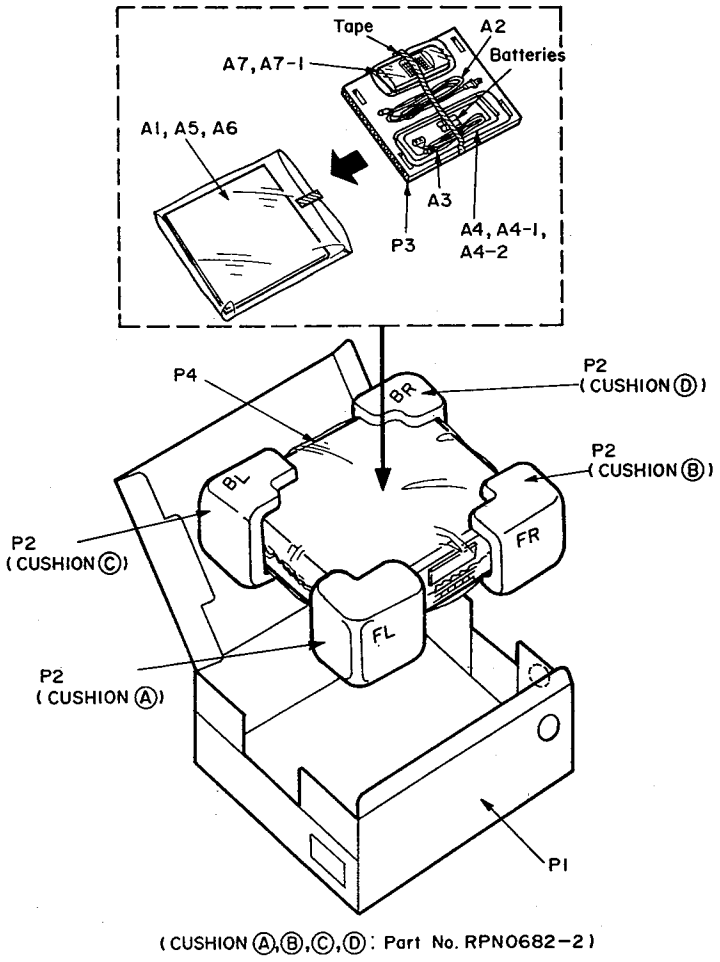
Ref. No.	Part No.	Values & Remarks
R782	ERDS2TJ153	1/4W 15K
R783	ERDS2TJ103	1/4W 10K
R784	ERDS2TJ335T	1/4W 3.3M
R791-796	ERDS2TJ223	1/4W 22K
R797	ERDS2TJ682T	1/4W 6.8K
R901	ERDS2TJ102	1/4W 1K
R903-911	ERDS2TJ104	1/4W 100K
R912	ERDS2TJ102	1/4W 1K
R913, 914	ERDS2TJ104	1/4W 100K
R920	ERDS2TJ271	1/4W 270
R921	ERDS2EJ121	1/4W 120
R922	ERDS2TJ472	1/4W 4.7K
R923	ERDS2TJ102	1/4W 1K
R930, 931	ERDS2TJ101	1/4W 100
R946-949	ERDS2TJ103	1/4W 10K
R950	ERDS2TJ102	1/4W 1K
R951	ERDS2TJ122	1/4W 1.2K
R952	ERDS2TJ152	1/4W 1.5K
R953	ERDS2TJ182	1/4W 1.8K
R954	ERDS2TJ222	1/4W 2.2K
R955	ERDS2TJ332	1/4W 3.3K
R956	ERDS2TJ472	1/4W 4.7K
R957	ERDS2TJ682T	1/4W 6.8K
R958	ERDS2TJ123	1/4W 12K
R960	ERDS2TJ102	1/4W 1K
R961	ERDS2TJ122	1/4W 1.2K
R962	ERDS2TJ152	1/4W 1.5K
R963	ERDS2TJ182	1/4W 1.8K
R964	ERDS2TJ222	1/4W 2.2K
R965	ERDS2TJ332	1/4W 3.3K
R966	ERDS2TJ472	1/4W 4.7K
R967	ERDS2TJ682T	1/4W 6.8K
R968	ERDS2TJ123	1/4W 12K
R970	ERDS2TJ102	1/4W 1K
R971	ERDS2TJ122	1/4W 1.2K
R972	ERDS2TJ152	1/4W 1.5K
R973	ERDS2TJ182	1/4W 1.8K
R974	ERDS2TJ222	1/4W 2.2K
R975	ERDS2TJ332	1/4W 3.3K
R976	ERDS2TJ472	1/4W 4.7K
R977	ERDS2TJ682T	1/4W 6.8K
R978	ERDS2TJ123	1/4W 12K
R980	ERDS2TJ102	1/4W 1K
R981	ERDS2TJ122	1/4W 1.2K
R982	ERDS2TJ152	1/4W 1.5K
R983	ERDS2TJ182	1/4W 1.8K
R984	ERDS2TJ222	1/4W 2.2K
R985	ERDS2TJ332	1/4W 3.3K
R986	ERDS2TJ472	1/4W 4.7K
R990	ERDS2TJ153	1/4W 15K
R991	ERDS2TJ103	1/4W 10K
R993, 994	ERDS2TJ102	1/4W 1K

Ref. No.	Part No.	Values & Remarks
R1001, 1002	ERDS2TJ223	1/4W 22K
R1003, 1004	ERDS2TJ102	1/4W 1K
R1005	ERDS2TJ203T	1/4W 20K
R1007, 1008	ERDS2TJ473	1/4W 47K
R1009-1011	ERDS2TJ332	1/4W 3.3K
R1012	ERDS2TJ102	1/4W 1K
R1051	ERDS2TJ393	1/4W 39K
R1052	ERDS2TJ105T	1/4W 1M
R1053	ERDS2TJ102	1/4W 1K
R1055, 1056	ERDS2TJ473	1/4W 47K
R1057	ERDS2TJ564	1/4W 560K
R1058, 1059	ERDS2TJ274	1/4W 270K
R1060	ERDS2TJ104	1/4W 100K
R1061	ERDS2TJ222	1/4W 2.2K
R1071, 1072	ERDS2TJ222	1/4W 2.2K
R1073, 1074	ERDS2TJ682T	1/4W 6.8K
R1075, 1076	ERDS2TJ473	1/4W 47K
R1151-1153	ERDS2TJ473	1/4W 47K
R1154	ERDS2TJ333	1/4W 33K
R1155, 1156	ERDS2TJ393	1/4W 39K
R1157	ERDS2TJ222	1/4W 2.2K
R1158	ERDS2TJ104	1/4W 100K
R1159	ERDS2TJ103	1/4W 10K
R1201, 1202	ERDS2TJ102	1/4W 1K
R1204-1206	ERDS2TJ102	1/4W 1K
R1207	ERDS2TJ273	1/4W 27K
R1208-1216	ERDS2TJ102	1/4W 1K
R1501, 1502	ERDS2TJ473	1/4W 47K
R1503	ERDS2TJ684	1/4W 680K
R1504	ERDS2TJ472	1/4W 4.7K
R1505	ERDS2TJ104	1/4W 100K
R1506	ERDS2TJ102	1/4W 1K
R1507	ERDS2TJ104	1/4W 100K
R1508, 1509	ERDS2TJ103	1/4W 10K
R1510	ERDS2TJ472	1/4W 4.7K
R1511	ERDS2TJ104	1/4W 100K
R1512	ERDS2TJ392T	1/4W 3.9K
R1513	ERDS2TJ223	1/4W 22K
R1514	ERDS2TJ101	1/4W 100
R1515	ERDS2TJ473	1/4W 47K
		CAPACITORS
C101	ECBT1C103NS5	16V 0.01U
C103	ECBT1C103NS5	16V 0.01U
C104, 105	ECBT1H102KB5	50V 1000P
C106	ECBT1C103NS5	16V 0.01U
C107	ECBT1H473ZF5	50V 0.047U
C108	ECBT1H8R2KC5	50V 8.2P
C109, 110	ECBT1C103NS5	16V 0.01U
C111	ECEA1EKA4R7B	25V 4.7U
C112	ECBT1C103NS5	16V 0.01U

Ref. No.	Part No.	Values & Remarks
C113	ECBT1H102KB5	50V 1000P
C114	ECEA1HKA3R3B	50V 3.3U
C115	ECEA1EKA4R7B	25V 4.7U
C116	ECBT1C822MS5	16V 8200P
C117	ECQB1H821JF3	50V 820P
C118, 119	ECFR1E183KR	25V 0.018U
C120, 121	ECEA1HKA010B	50V 1U
C122	ECEA1HKA2R2B	50V 2.2U
C123	ECEA1HKA010B	50V 1U
C124	ECBT1H102KB5	50V 1000P
C125	ECBT1H150JC5	50V 15P
C126	ECBT1H104ZF5	50V 0.1U
C127	ECEA1CKA220B	16V 22U
C128	ECBT1C103NS5	16V 0.01U
C129, 130	ECEA0JKA101B	6.3V 100U
C131	ECBT1C103NS5	16V 0.01U
C132	ECBT1H102KB5	50V 1000P
C133	ECBT1H150JC5	50V 15P
C134	ECBT1H180JC5	50V 18P
C137, 138	ECBT1H271KB5	50V 270P
C141-144	ECEA1HKA010B	50V 1U
C145	ECBT1H220JC5	50V 22P
C146	ECBT1H331KB5	50V 330P
C147	ECBT1H102KB5	50V 1000P
C148, 149	ECBT1C103NS5	16V 0.01U
C150	ECBT1H104ZF5	50V 0.1U
C171	ECBT1C103NS5	16V 0.01U
C172	ECBT1H331KB5	50V 330P
C173	ECEA1CKA220B	16V 22U
C174	ECEA1CKA100B	16V 10U
C196	ECBT1H102KB5	50V 1000P
C351, 352	ECEA0JKA101B	6.3V 100U
C353	ECEA1CKA100B	16V 10U
C354	ECBT1H104ZF5	50V 0.1U
C401, 402	ECEA1VKA4R7B	35V 4.7U
C403, 404	ECBT1E103ZF	25V 0.01U
C405, 406	ECBT1H101KB5	50V 100P
C409, 410	ECEA1CKA220B	16V 22U
C411, 412	ECBT1H101KB5	50V 100P
C413, 414	ECEA1CKA100B	16V 10U
C415, 416	ECBT1E103ZF	25V 0.01U
C431, 432	ECEA1CKA100B	16V 10U
C440	ECBT1E103ZF	25V 0.01U
C451, 452	ECEA1VKA4R7B	35V 4.7U
C453, 454	ECBT1H101KB5	50V 100P
C455, 456	ECBT1H102KB5	50V 1000P
C457, 458	ECEA1AKA330B	10V 33U
C459, 460	ECFR1E223KR	25V 0.022U
C461, 462	ECFR1E682KR	25V 6800P
C463, 464	ECEA1VKA4R7B	35V 4.7U
C465, 466	ECBT1E103ZF	25V 0.01U
C501, 502	ECFR1E333KR	25V 0.033U
C503, 504	ECEA0JKA101B	6.3V 100U
C505, 506	ECFR1E104KR	25V 0.1U
C511, 512	ECEA1HKA3R3B	50V 3.3U
C513, 514	ECBT1H150J5	50V 15P
C515, 516	ECBT1H221KB5	50V 220P
C517, 518	ECBT1H330J5	50V 33P
C519-522	ECEA1VKA4R7B	35V 4.7U
C523, 524	ECFR1E123KR	25V 0.012U
C525, 526	ECQV1H683JM3	50V 0.068U
C527, 528	ECFR1E562KR	25V 5600P
C529, 530	ECQB1H273JF3	50V 0.027U
C531, 532	ECBT1E103ZF	25V 0.01U
C533, 534	ECEA1CKA100B	16V 10U
C536	ECEA1HKN010B	50V 1U
C551, 552	ECEA1HKA3R3B	50V 3.3U
C553, 554	ECBT1H101KB5	50V 100P
C555	ECBT1H221KB5	50V 220P
C556	ECBT1H101KB5	50V 100P
C557, 558	ECBT1E103ZF	25V 0.01U
C559, 560	ECEA1CKA100B	16V 10U
C561, 562	ECEA1HKA3R3B	50V 3.3U
C563	ECEA1HKN010B	50V 1U
C581, 582	ECEA0JKA101B	6.3V 100U
C601, 602	ECEA1HKN3R3B	50V 3.3U
C603, 604	ECBA1H681KB5	50V 680P
C605, 606	ECEA1JU220	63V 22U
C607, 608	ECCR1H100K5	50V 10P
C609, 610	ECBT1H151KB5	50V 150P
C611, 612	ECQV1H473JM3	50V 0.047U
C613, 614	ECBA1H681KB5	50V 680P
C615	ECA1HM470B	50V 47U
C616	ECEA2AU100	100V 10U
C617	ECEA1JU220	63V 22U
C618	ECEA2AN2R2SB	100V 2.2U
C621, 622	ECEA2AU100	100V 10U
C651, 652	ECEA1HKN3R3B	50V 3.3U
C653, 654	ECBA1H681KB5	50V 680P
C655, 656	ECEA1JU220	63V 22U
C657, 658	ECCR1H100K5	50V 10P
C659, 660	ECBT1H151KB5	50V 150P
C661, 662	ECQV1H473JM3	50V 0.047U
C663, 664	ECBA1H681KB5	50V 680P
C665	ECA1HM470B	50V 47U
C666	ECEA2AU100	100V 10U
C667	ECEA1JU220	63V 22U
C668	ECEA2AN2R2SB	100V 2.2U
C671, 672	ECEA2AU100	100V 10U
C681, 682	ECEA1HN100SB	50V 10U
C685	ECBT1E103ZF	25V 0.01U
C701	ECBT1E103ZF	25V 0.01U
C702	ECQE2104KF3	250V 0.1U
C703, 704	ECET1K123VWX	80V 12000U ⚠
C705, 706	ECA1HM332B	50V 3300U ⚠
C707	ECA1VM101B	35V 100U
C708	ECKR1H103ZF5	50V 0.01U
C709	ECEA1CKA330B	16V 33U
C710	ECBT1E103ZF	25V 0.01U
C711	ECKR1H103ZF5	50V 0.01U
C712	ECEA1HKA100B	50V 10U
C713	ECKR1H103ZF5	50V 0.01U
C714	ECEA1CKA470B	16V 47U
C721, 722	ECQE2104KF3	250V 0.1U
C731, 732	ECKR1H103ZF5	50V 0.01U
C751	ECKWNS102MBM	400V 1000P ⚠
C752	ECKR1H103ZF5	50V 0.01U
C753	ECA1EM102B	25V 1000U ⚠
C754	ECBT1E103ZF	25V 0.01U
C755	ECEA1CKA470B	16V 47U
C756	ECBT1E103ZF	25V 0.01U
C758	ECEA1AKA101B	10V 100U
C771	ECEA1HKA2R2B	50V 2.2U
C772	ECEA1CKA100B	16V 10U
C773	ECBT1E223ZF	25V 0.022U
C774	ECEA0JKA221B	6.3V 220U
C891	ECFR1E392KR	25V 3900P
C901	ECA0JM102B	6.3V 1000U
C902, 903	ECBT1E103ZF	25V 0.01U
C904	ECA0JM471B	6.3V 470U
C906	ECEA0JKA101B	6.3V 100U
C908	ECBT1E103ZF	25V 0.01U
C909-912	ECEA1HKA220B	50V 22U
C913, 914	ECEA1VKA100B	35V 10U
C916	ECEA1HKA010B	50V 1U
C919	ECBT1E103ZF	25V 0.01U
C920	ECEA1HKA010B	50V 1U
C921-928	ECBT1H331KB5	50V 330P
C929, 930	ECBT1H101KB5	50V 100P
C935	ECEA0JKA101B	6.3V 100U
C936	ECBT1E103ZF	25V 0.01U
C937-942	ECBT1H101KB5	50V 100P
C944	ECBT1H101KB5	50V 100P
C1001, 1002	ECEA1HKA010B	50V 1U
C1003, 1004	ECEA1HKA3R3B	50V 3.3U
C1005	ECEA1HKA010B	50V 1U
C1007	ECFR1E223KR	25V 0.022U
C1008	ECFR1E473KR	25V 0.047U
C1009	ECEA0JKA221B	6.3V 220U
C1010-1013	ECEA1CKA100B	16V 10U
C1014	ECEA0JKA221B	6.3V 220U
C1015, 1016	ECQV1H104JM3	50V 0.1U
C1017	ECEA1HKAR47B	50V 0.47U
C1018	ECEA1VKA4R7B	35V 4.7U
C1019	ECEA1HKAR47B	50V 0.47U
C1020	ECEA1VKA4R7B	35V 4.7U

Ref. No.	Part No.	Values & Remarks
C1021	ECEA1HKAR15B	50V 0.15U
C1022	ECEA1HKA3R3B	50V 3.3U
C1023, 1024	ECQV1H154JM3	50V 0.15U
C1025	ECEA1HKA3R3B	50V 3.3U
C1026	ECEA1HKAR15B	50V 0.15U
C1027	ECEA1VKA4R7B	35V 4.7U
C1028	ECEA1HKAR47B	50V 0.47U
C1029	ECEA1VKA4R7B	35V 4.7U
C1030	ECEA1HKAR47B	50V 0.47U
C1031, 1032	ECQV1H104JM3	50V 0.1U
C1033	ECEA1CKA470B	16V 47U
C1034	ECQV1H474JM3	50V 0.47U
C1035	ECBA1H681KB5	50V 680P
C1036-1038	ECBT1H101KB5	50V 100P
C1039	ECEA1CKA101B	16V 100U
C1040	ECEA1CKA100B	16V 10U
C1041	ECBT1E103ZF	25V 0.01U
C1051	ECEA1HKA2R2B	50V 2.2U
C1052	ECEA1HKA010B	50V 1U
C1053	ECEA1HKA3R3B	50V 3.3U
C1054	ECEA0JKA221B	6.3V 220U
C1055	ECEA1HKA010B	50V 1U
C1056	ECFR1E333KR	25V 0.033U
C1057	ECFR1E152KR	25V 1500P
C1058	ECFR1E333KR	25V 0.033U
C1059	ECEA1CKA101B	16V 100U
C1060	ECBT1E223ZF	25V 0.022U
C1062	ECBT1E223ZF	25V 0.022U
C1063	ECEA1CKA101B	16V 100U
C1064	ECBT1H104ZF5	50V 0.1U
C1065	ECBA1H681KB5	50V 680P
C1067, 1068	ECBT1C152KR5	16V 1500P
C1071, 1072	ECEA1HKA3R3B	50V 3.3U
C1073, 1074	ECEA1CKA100B	16V 10U
C1151	ECEA1HKA010B	50V 1U
C1152	ECFR1C683KR	16V 0.068U
C1153	ECFR1C273JR	16V 0.027U
C1154	ECEA1VKA4R7B	35V 4.7U
C1155-1157	ECBT1E103ZF	25V 0.01U
C1501	ECEA1HKA3R3B	50V 3.3U
C1502	ECEA1HKA010B	50V 1U
C1503	ECEA1HKA2R2B	50V 2.2U
C1504	ECEA1HKA010B	50V 1U
C1505, 1506	ECEA1HKA3R3B	50V 3.3U

■ PACKAGING



(CUSHION Ⓐ,Ⓑ,Ⓒ,Ⓓ: Part No. RPNO682-2)

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