

Service Manual

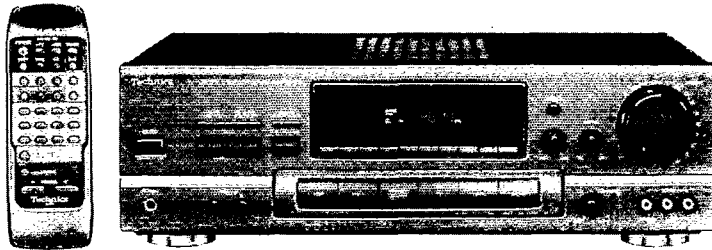
AV Control Stereo Receiver

Receiver

SA-GX170

Colour

(K) ... Black Type



Areas

| Suffix for Model No. | Area | Colour |
|----------------------|---|--------|
| (E) | Europe. | (K) |
| (EB) | Great Britain. | |
| (EG) | Germany and Italy. | |
| (EP) | Poland. | |
| (G) | Asia, Latin America, Middle Near East and Africa. | |
| (GN) | Oceania. | |

SPECIFICATIONS (DIN 45 500)

■ AMPLIFIER SECTION

| | |
|---|---|
| Power output | |
| DIN 1 kHz (T.H.D. 1%) | |
| [at 240 V for (E, EB, EG, EP) areas.] | 2 × 80 W (4 Ω) |
| [for (G, GN) areas.] | 2 × 80 W (8 Ω) |
| 40 Hz–20 kHz continuous power output both channels driven | 2 × 60 W (8 Ω) |
| Total harmonic distortion | |
| rated power at 40 Hz–20 kHz | 0.5% (8 Ω) |
| half power at 1 kHz | 0.03% (8 Ω) |
| Intermodulation distortion | |
| rated power at 60 Hz: 7 kHz = 4:1, SMPTE | 0.5% (8 Ω) |
| Power bandwidth | |
| both channels driven, –3 dB | 10 Hz–40 kHz (8 Ω) |
| Damping factor | 40 (8 Ω) |
| Input sensitivity and impedance | |
| PHONO | 3 mV/47 kΩ |
| CD, VCR 1, VCR 2, TAPE/DCC | 200 mV/22 kΩ |
| S/N at rated power (8 Ω) | |
| PHONO | 70 dB (IHF, A: 80 dB) |
| CD, VCR 1, VCR 2, TAPE/DCC | 80 dB (IHF, A: 90 dB) |
| Frequency response | |
| PHONO | RIAA standard curve |
| CD, VCR 1, VCR 2, TAPE/DCC | (30 Hz–15 kHz) ±0.8 dB 10 Hz–40 kHz, ±3 dB |
| Tone controls | |
| BASS | 50 Hz, +10 to –10 dB |
| TREBLE | 20 kHz, +10 to –10 dB |
| Output voltage | |
| VCR 1 OUT, TAPE/DCC REC (OUT) | 200 mV |
| Channel balance (250 Hz–6.3 kHz) | ±1 dB |
| Channel separation | 55 dB |
| Headphones output level and impedance | 430 mV/330 Ω |
| Load impedance | |
| A or B [For (E, EB, EG, EP) areas.] | 4–16 Ω |
| [For (G, GN) areas.] | 8–16 Ω |
| A and B | 8–16 Ω |

■ FM TUNER SECTION

| | |
|--|----------------------------|
| Frequency range | 87.50–108.00 MHz |
| Sensitivity | |
| S/N 30 dB | 1.5 μV/75 Ω |
| S/N 26 dB | 1.3 μV/75 Ω |
| S/N 20 dB | 1.2 μV/75 Ω |
| IHF usable sensitivity | (IHF '58) 1.5 μV/75 Ω |
| IHF 46 dB stereo quieting sensitivity | 22 μV/75 Ω |
| Total harmonic distortion | |
| MONO | 0.2% |
| STEREO | 0.3% |
| S/N | |
| MONO | 60 dB (75 dB, IHF) |
| STEREO | 58 dB (71 dB, IHF) |
| Frequency response | 20 Hz–15 kHz, +1 dB, –2 dB |
| Alternate channel selectivity | |
| ±400 kHz | 65 dB |
| Capture ratio | 1.0 dB |
| Image rejection at 98 MHz | 40 dB |
| IF rejection at 98 MHz | 70 dB |
| Spurious response rejection at 98 MHz | 70 dB |
| AM suppression | 50 dB |
| Stereo separation | |
| 1 kHz | 40 dB |
| Carrier leak | |
| 19 kHz | –30 dB (–35 dB, IHF) |
| 38 kHz | –50 dB (–55 dB, IHF) |
| Channel balance (250 Hz–6.3 kHz) | ±1.5 dB |
| Limiting point | 1.2 μV |
| Bandwidth | |
| IF amplifier | 180 kHz |
| FM demodulator | 1000 kHz |
| Antenna terminal(s) | 75 Ω (unbalanced) |

Technics

AM TUNER SECTION

• For (E, EB, EP, G, GN) areas.

Frequency range
MW 522–1611 kHz (9 kHz steps)
 530–1620 kHz (10 kHz steps)
LW 144–288 kHz

Sensitivity
MW 20 μV, 300 μV/m
LW 45 μV

Selectivity
MW (at 999 kHz) 55 dB
LW (at 252 kHz) 55 dB

Image rejection
MW (at 999 kHz) 40 dB
LW (at 252 kHz) 40 dB

IF rejection
MW (at 999 kHz) 55 dB
LW (at 252 kHz) 55 dB

• For (EG) area.

Frequency range
 522~1611 kHz (9 kHz steps)
 530~1620 kHz (10 kHz steps)

Selectivity (S/N 20 dB) 20 μV, 330 μV/m

Selectivity at 999 kHz 55 dB

Image rejection at 999 kHz 40 dB

IF rejection at 999 kHz 55 dB

GENERAL

Power consumption

[For (E, EB, EG, EP) areas.] 160 W

[For (G, GN) areas.] 150 W

Power supply

[For (E, EB, EP, GN) areas.] AC 50/60 Hz, 230–240 V

[For (EG) area.] AC 50/60 Hz, 230 V

[For (G) area.] AC 50/60 Hz, 110–127 V/220–240 V

Dimensions (W × H × D) 430 × 136 × 305 mm

Weight 6.6 kg

REMOTE CONTROL TRANSMITTER

Control keys 32 keys

Dimensions (W × H × D) 62 × 24.5 × 176 mm

Weight (including batteries) 104 g (3.1 oz)

Power source Two UM-4

(Panasonic R03/LR03 or equivalent)

Notes:

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

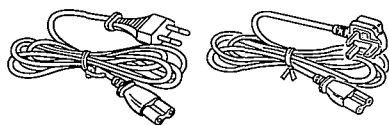
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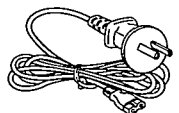
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ACCESSORIES

AC power supply cord..... 1 pc.
 [RJA0019-2K [VJA0733 (EB)]
 (E, EG, EP, G)]



[RJA0036-K (GN)]



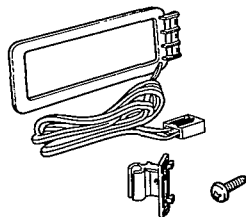
FM indoor antenna 1 pc.
 (RSA0007)



Attachment plug..... 1 pc.
 [SJP9009 (EB)]



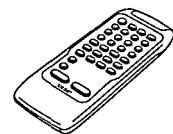
AM loop antenna set..... 1 pc.
 (RSA0010)
 • AM antenna holder..... 1 pc.
 (RMN0244)
 • Screw..... 1 pc.
 (XTN3+10AFZ)



Power plug adaptor..... 1 pc.
 [SJP5213-1 (G)]



Remote control transmitter..... 1 pc.
 (RAK-SA113XH)

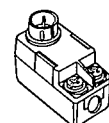


Batteries..... 2 pcs.
 (UM-4, "AAA", R03)



Note: These are available on sale route.

Antena plug..... 1 pc.
 [RFE0014 (G, GN)]





■ CAUTION FOR AC MAINS LEAD

("EB" area code model only)

For your safety, please read the following text carefully.

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

A 5-ampere fuse is fitted in this plug.

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

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

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

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

CAUTION!

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

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

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

If in any doubt please consult a qualified electrician.

IMPORTANT

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


Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

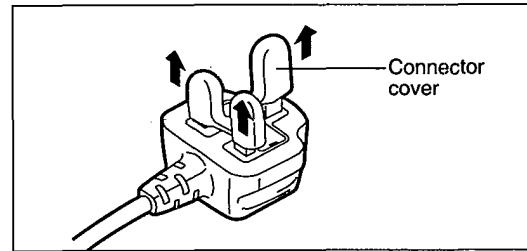
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol .

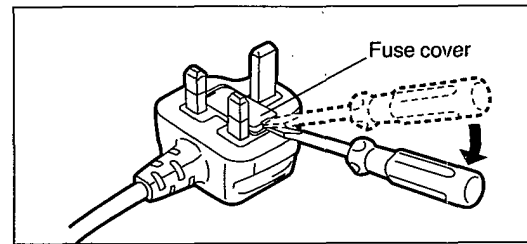
Before use

Remove the connector cover as follows.

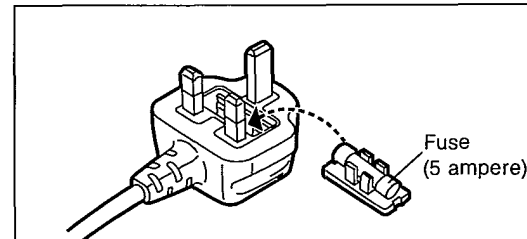


How to replace the fuse

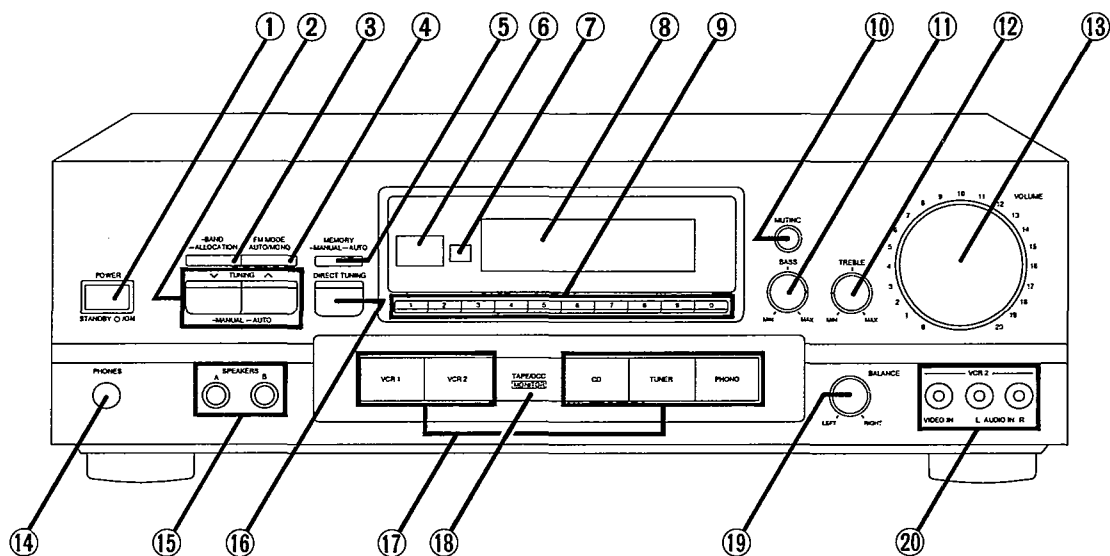
1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.



FRONT PANEL CONTROLS

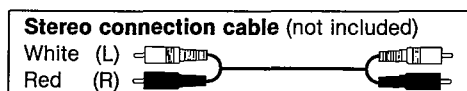


| No. | Name |
|-----|---|
| ① | Power "STANDBY ON/OFF" switch (POWER, STANDBY ON/OFF) Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power. |
| ② | Tuning buttons (TUNING) |
| ③ | Band select button (BAND) |
| ④ | FM mode select button (FM MODE) |
| ⑤ | Memory button (MEMORY) |
| ⑥ | Remote control signal receptor |
| ⑦ | "STANDBY" indicator When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on. |
| ⑧ | Display |
| ⑨ | Numeric buttons (1-0) |
| ⑩ | Muting button (MUTING) |

| No. | Name |
|-----|---|
| ⑪ | Bass control (BASS) |
| ⑫ | Treble control (TREBLE) |
| ⑬ | Volume control (VOLUME) |
| ⑭ | Headphone jack (PHONES) |
| ⑮ | Speaker select buttons (SPEAKERS) |
| ⑯ | Direct tuning button (DIRECT TUNING) |
| ⑰ | Input select buttons |
| ⑱ | Tape/DCC monitor button (TAPE/DCC MONITOR) |
| ⑲ | Balance control (BALANCE) |
| ⑳ | VCR 2 input terminals (VCR 2) |

EQUIPMENT CONNECTIONS

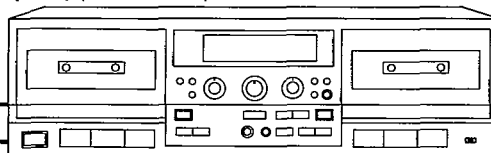
Connecting audio equipment



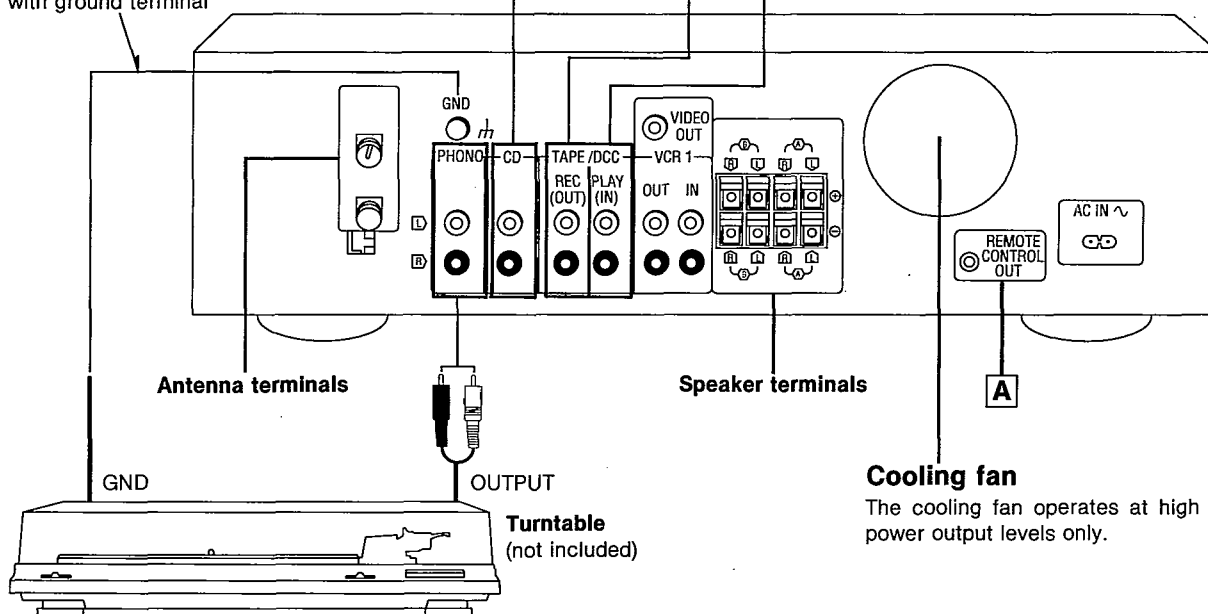
CD player (or CD changer)
(not included)



Tape deck or digital compact cassette deck (DCC)
(not included)

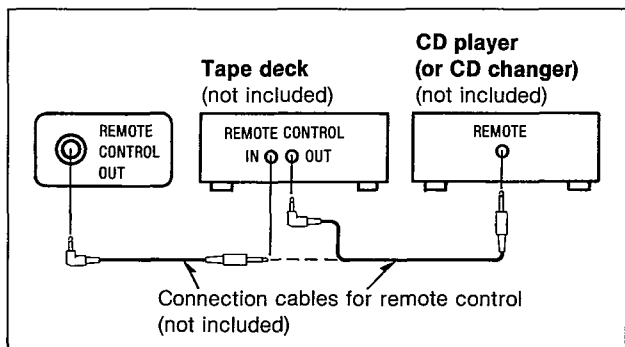


Only for turntable with ground terminal



A "REMOTE CONTROL OUT" terminal

Connect the connection cable for the remote control to a Technics tape deck and/or CD player (or CD changer) which has the appropriate remote control terminal as shown below. If a tape deck is not being used, the CD player (or CD changer) can be connected directly (dotted line).



For a CD player (or CD changer) with a remote control sensor the above connection is not necessary.

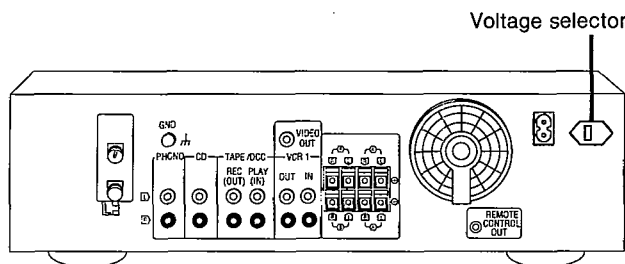
To set the power voltage

[For (G) area only.]

Set the voltage selector to the voltage setting for the area in which the unit will be used.

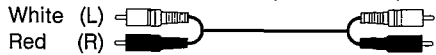
Note

Note that this unit will be seriously damaged if this setting is not made correctly.

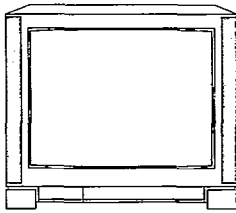


Connecting video equipment

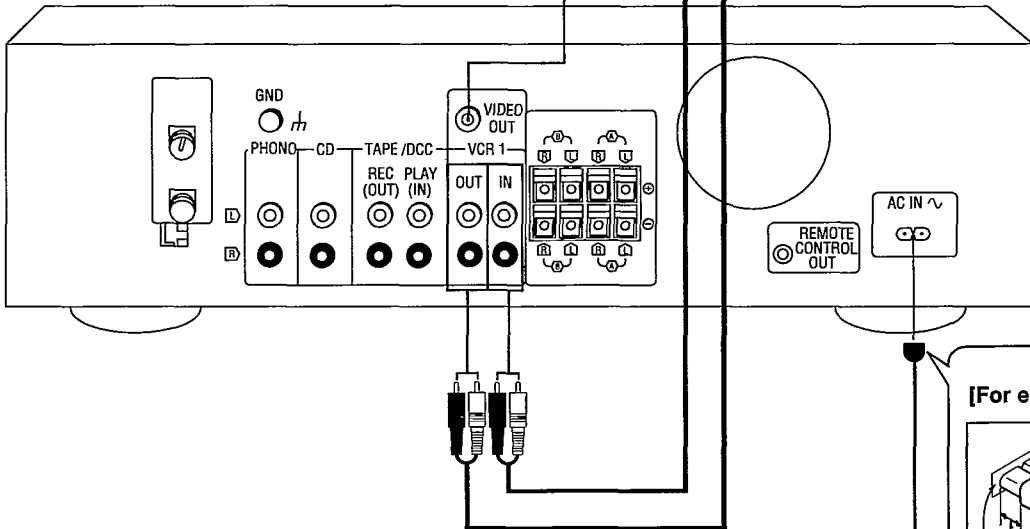
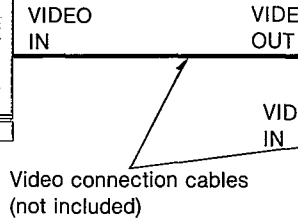
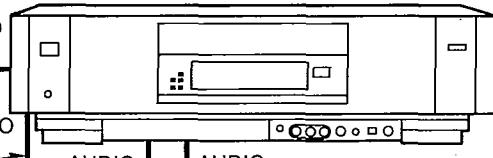
Stereo connection cable (not included)



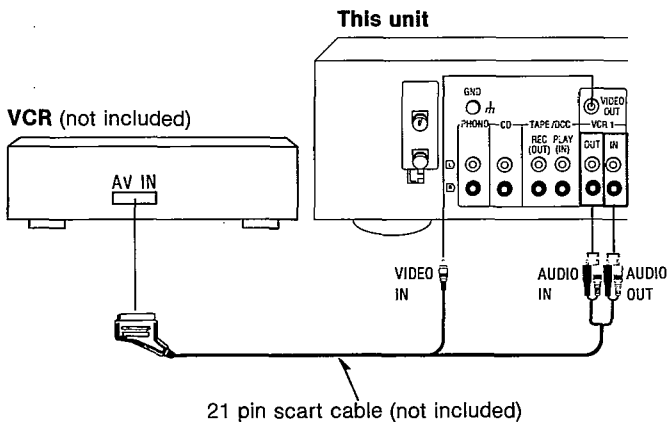
TV (not included)



VCR (not included)



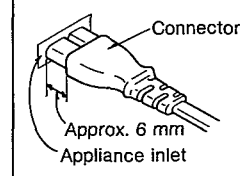
To connect a video deck with 21 pin scart terminal



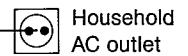
AC power supply cord (included)

Connect this cord after all other cables and cords are connected.

[For except (GN) area only.]



Even when the connector is perfectly inserted, the front part of the connector jut out as shown in the drawing. However there is no problem using the unit.

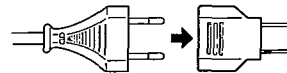


[For (EB) area only.]

BE SURE TO READ THE CAUTION FOR THE AC POWER SUPPLY CORD ON PAGE 3 BEFORE CONNECTION.

[For (G) area only.]

If the power plug will not fit your socket, use the power plug adaptor (included).



REMOTE CONTROL OPERATION

Basic operations

| | |
|---|--|
| To turn the unit ON/OFF | POWER |
| To turn the tape monitor function ON | TAPE To turn off the tape monitor function, press one of the input select buttons (TUNER, CD, VCR 1). |
| To select an input source | TUNER CD VCR 1 |
| To mute the sound level | — MUTING Press once more to return to the original volume. |
| To adjust the volume level | - VOLUME + |
| If your unit is equipped with the New Technics Remote Control System (see below) | |
| To turn the system OFF | — AUDIO OFF |

To listen to radio broadcasts

→

| | | |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |
| | | 0 |

Specify the preset channel using the numeric button(s).

(Example: Channel 12)

→

Within 2 sec.

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 (56V 4700 μ F/75V 7500 μ F), C705 and C706 (50V 4700 μ F/50V 2200 μ F) through a 10 Ω , 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.

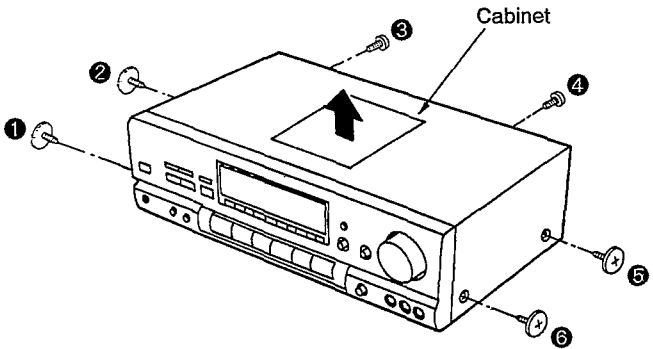
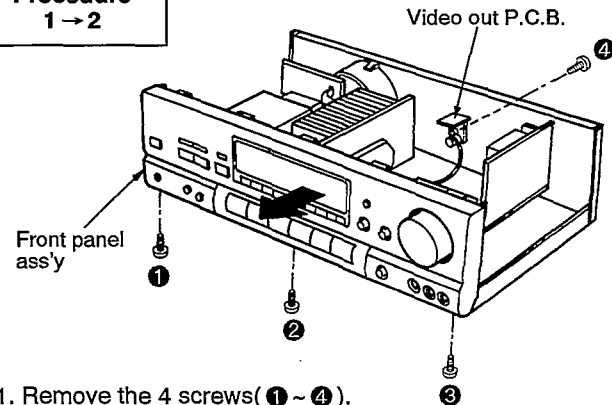
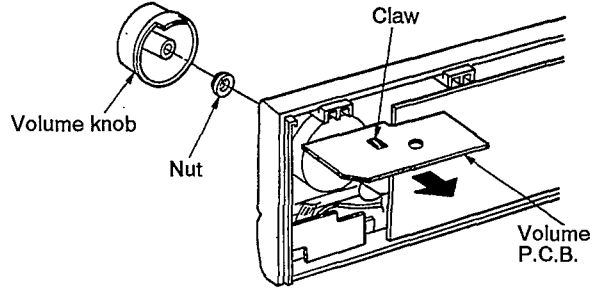
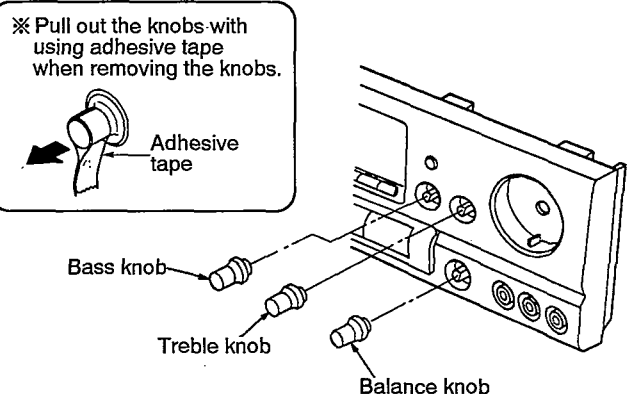
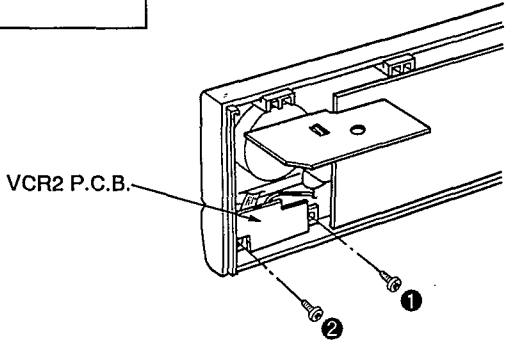
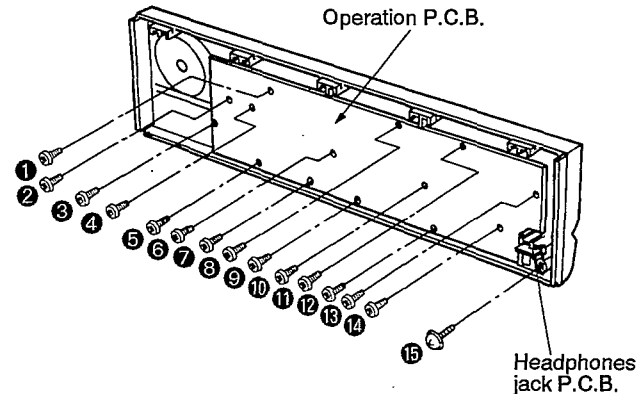
Current consumption at 50Hz/60Hz in NO SIGNAL mode should be shown below with respect to supply voltage AC 230V/240V.

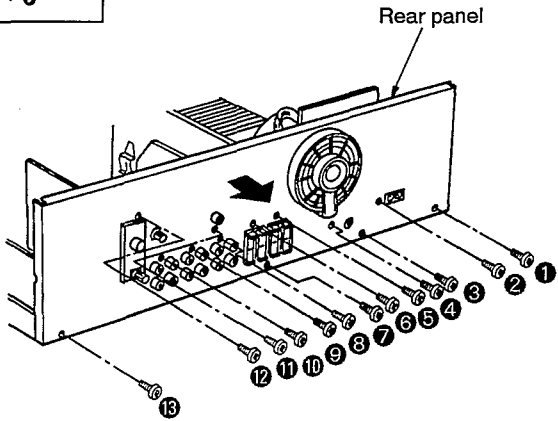
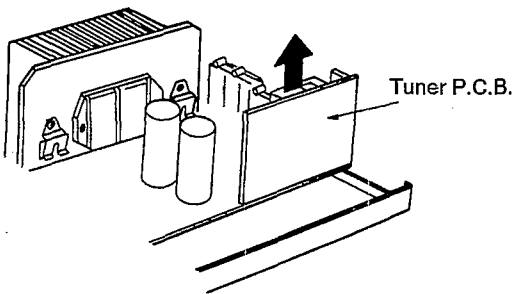
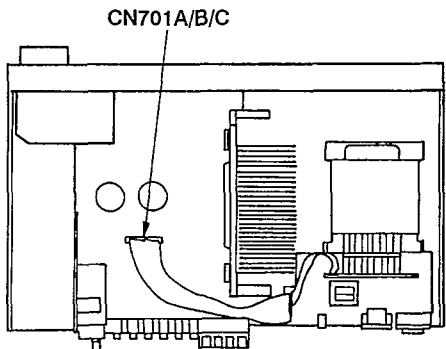
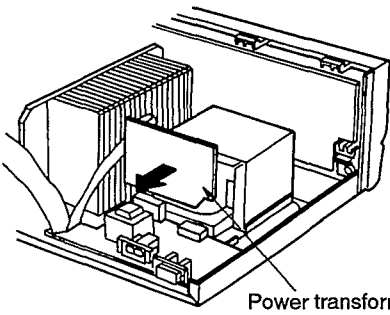
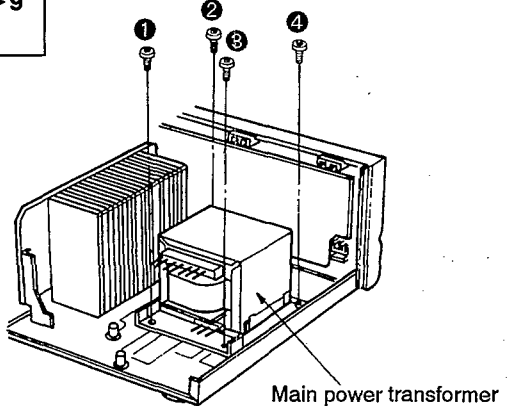
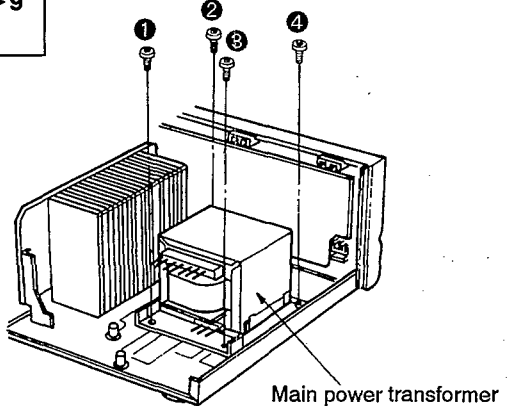
| Power supply voltage | AC 230V | | AC 240V | | AC 110-127V | | AC 220-240V | |
|--------------------------|---------|-----------|---------|-----------|-------------|-----------|-------------|-----------|
| Consumed current 50/60Hz | 50Hz | 120~350mA | 50Hz | 130~380mA | 50Hz | 250~700mA | 50Hz | 120~350mA |
| | 60Hz | 96~280mA | 60Hz | 104~304mA | 60Hz | 200~560mA | 60Hz | 96~280mA |

DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"

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

| | | | |
|-------------------------------|---|--|--|
| Ref.No. 1 | Removal of the cabinet | Ref.No. 2 | Removal of the front panel ass'y and video out P.C.B. |
| Procedure 1 |  <p>• Remove the 6 screws (① ~ ⑥).</p> | Procedure 1 → 2 |  <p>1. Remove the 4 screws (① ~ ④). 2. Remove the video out P.C.B.. 3. Remove the front panel ass'y in the direction of arrow.</p> |
| Ref.No. 3 | Removal of the volume P.C.B. | Ref.No. 4 | Removal of the operation P.C.B. and headphones jack P.C.B. |
| Procedure 1 → 2 → 3 |  <p>1. Pull out the volume knob. 2. Remove the nut. 3. Release the 1 claw. 4. Remove the volume P.C.B. in the direction of arrow.</p> | Procedure 1 → 2 → 3 → 4 | <p>※ Pull out the knobs with using adhesive tape when removing the knobs.</p>  <p>1. Pull out the balance knob, bass knob and treble knob.</p> |
| Ref.No. 5 | Removal of the VCR2 P.C.B. | | |
| Procedure 1 → 2 → 5 |  <p>• Remove the 2 screws (①, ②).</p> |  <p>2. Remove the 15 screws (① ~ ⑮).</p> | |

| | | | |
|--------------------------------|---|---|--|
| <p>Ref.No. 6</p> | <p>Removal of the rear panel</p> | <p>Ref.No. 7</p> | <p>Removal of the tuner P.C.B.</p> |
| <p>Procedure 1 → 6</p> |  <p>1. Remove the 13 screws (① ~ ⑬). 2. Remove the rear panel in the direction of arrow.</p> | <p>Procedure 1 → 6 → 7</p> |  <p>• Remove the tuner P.C.B. in the direction of arrow.</p> |
| <p>Ref.No. 8</p> | <p>Removal of the power supply P.C.B.</p> |  <p>1. Remove the 1 flat cable (CN701A/B/C).</p> <p>2. Remove the 2 screws (①, ②). 3. Remove the power supply P.C.B. in the direction of arrow.</p> | |
| <p>Procedure 1 → 6 → 8</p> |  <p>• Remove the power transformer P.C.B. in the direction of arrow.</p> | <p>Ref.No. 10</p> | <p>Removal of the main power transformer</p> |
| <p>Procedure 1 → 9</p> |  <p>• Remove the 4 screws (① ~ ④).</p> | <p>Procedure 1 → 6 → 8 → 9 → 10</p> |  <p>• Remove the 4 screws (① ~ ④).</p> |

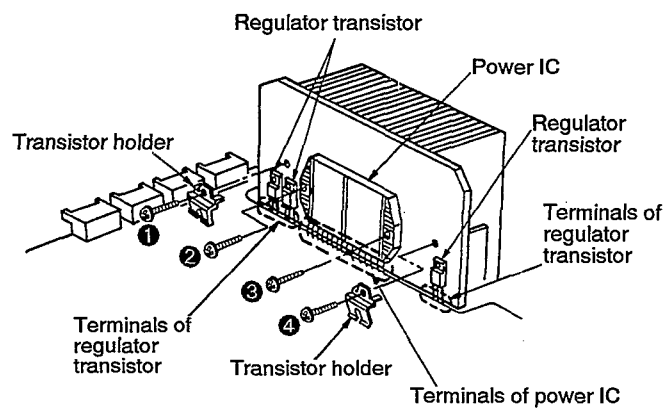
| | | |
|---|-----------------------------------|--|
| Ref.No. 11 | Removal of the main P.C.B. | |
| Procedure 1 → 2 → 6 → 7 → 11 | | |

1. Remove the 1 flat cable(CN701A/B/C).
2. Remove the 8 screws(① ~ ⑧).

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. 12 | Removal of the power IC and regulator transistor | |
| Procedure 1 → 2 → 6 → 7 → 11 → 12 | | |

1. Unsolder the terminals of power IC or regulator transistor.
 2. Remove the 4 screws(① ~ ④).
 3. Remove the transistor holder.
- **When mounting the power IC or regulator transistor.**
Apply silicone compound(RFKX0002) to the rear side of power IC or regulator transistor.



| | | |
|--------------------------------|---|--|
| Ref.No. 13 | Removal of the cooling fan motor | |
| Procedure 1 → 6 → 13 | | |

1. Release the 3 claws. (See Fig. 1)
2. Insert a screwdriver at the foot of the fan. Force it out of the motor shaft. (See Fig. 2)
3. Remove the fan cap by used ⊖ screwdriver. (See Fig. 3)
4. Remove the fan terminal cap in the direction of arrow. (See Fig. 4)
5. Remove the fan motor from the fan case. (See Fig. 5)
6. When mounting the fan motor, align the fan casing's projection with the hole of the fan motor. (See Fig. 6)

HOW TO REPLACEMENT THE 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.

4. Then remove the 4 screws(①~④) 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

- 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 (①~④) after replacing the power IC or regulator transistor. Otherwise, the heat radiation works little.

Labels in diagrams: Nipper, Pliers, Bottom chassis ass'y, Bottom cover, Power IC, Transistor holder, Offset screwdriver, Regulator transistor, Ribs, Screw(XTB3+8J), Lugs, Bottom cover, * Upset the bottom cover.

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)



A short straight screwdriver

A long straight screwdriver

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)

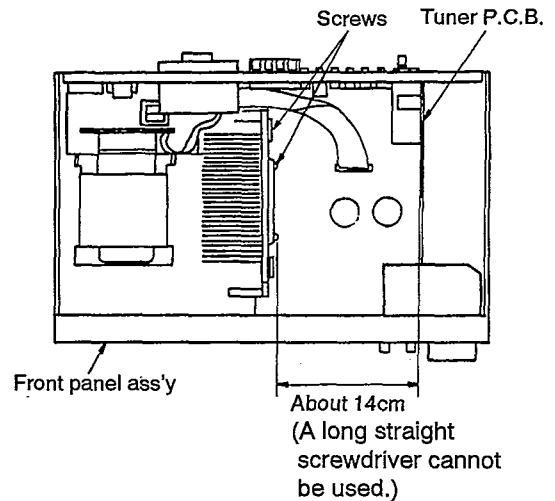
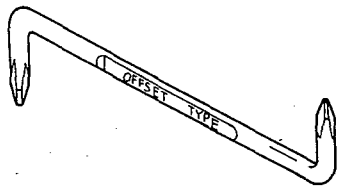

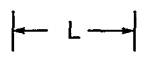


Fig.1

— OFFSET SCREWDRIVER —

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



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

- The address of PROTO International Sales is as follows.



International Sales

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

Australia, New Zealand &
South Pacific
Stanley-Proto Industrial Tools
P.O.Box 10
400 Whitehorse Road
Nunweding 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 Caribbean
Stanley Inter-America
2101 N.W. 84th Ave.
Miami, Florida 33122
Fax: 305-594-4261
Phone: 305-591-3828

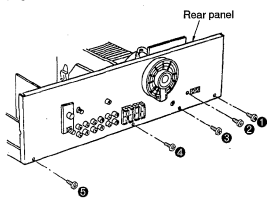
Europe
Stanley-Proto Europe
Woodside, Sheffield
S39PD
England
Fax: 44-742-739-038
Phone: 44-742-768-888

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

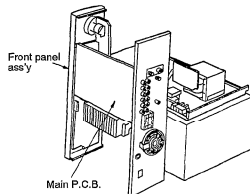
Middle East, Mediterranean
& Africa
Stanley-MEMA
Cory House The Ring
Bracknell Berkshire
RG 12 1A2
England
Fax: 44-344-485-526
Phone: 44-344-51813

HOW TO CHECK THE MAIN P.C.B.

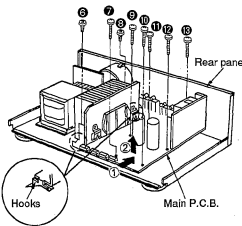
1. Remove the cabinet according to the disassembly instructions, procedure 1 " Removal of the cabinet " on page 8.
2. Remove the front panel ass'y according to the disassembly instructions, procedure 2 " Removal of the front panel ass'y " on page 8.



3. Remove the 5 screws (①-⑤).



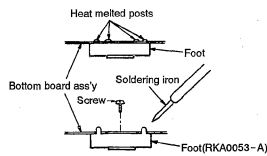
6. Reinstall the front panel ass'y to the main P.C.B.
7. When checking the soldered surface of the main P.C.B. and replacing the parts, do as shown in above.



4. Remove the 8 screws (⑥-⑧).
5. Release the 2 hooks (⑨) 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).

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).



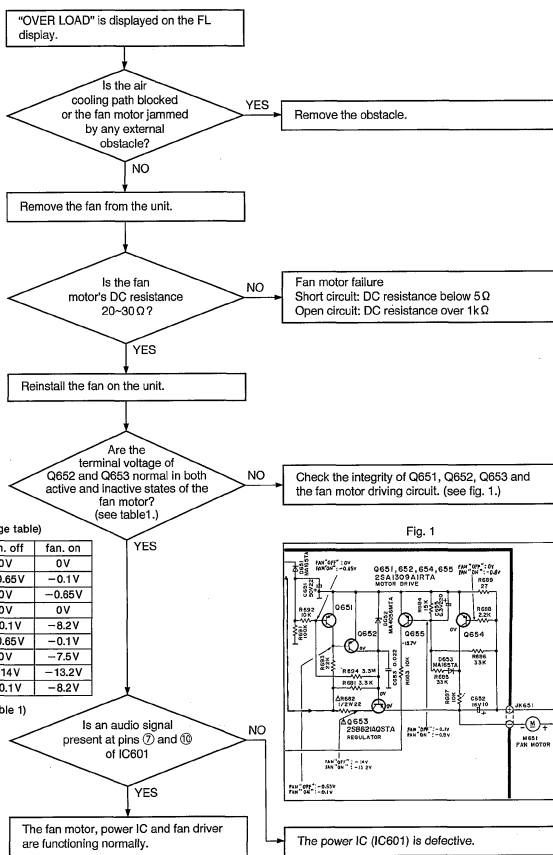
TERMINAL FUNCTION OF IC

• IC901 (LC8A012C5481) [E, EB, EG, EP], (LC8A012C5470) [G, GN]: Microcomputer

| Pin No. | Mark | I/O Division | Function | Pin No. | Mark | I/O Division | Function |
|---------|--------|--------------|---|---------|-----------|--------------|-------------------------------------|
| 1 | SPA | O | Speaker select control terminal | 41 | DATA1 | O | Serial data signal |
| 2 | SPB | O | | 42 | OVER LOAD | I | Over load detect terminal |
| 3 | ST5 | O | Level shift control terminal | 43 | CK1 | O | Serial clock signal |
| 4 | RFM | — | Not used, open | 44 | DATA2 | O | Serial data signal |
| 5 | RLY | O | Relay control terminal | 45 | ST2 | O | Level shift control terminal |
| 6 | AFM | O | Muting control terminal | 46 | CK2 | O | Serial clock signal |
| 7 | -20 | O | Muting control (-20dB) terminal | 47 | 5-6 | O | Remote control terminal |
| 8 | DG1 | O | Digit signal of FL display | 48 | ST4 | O | Level shift control terminal |
| 15 | DG8 | | | 49 | TEST1 | — | Test terminal |
| 16 | S13 | O | Segment signal of FL display | 50 | RES | I | Reset detect terminal |
| 17 | VDD | I | Power supply terminal | 51 | XT1 | — | Not used, connected to power supply |
| 18 | VPP | I | Power supply terminal of FL display | 52 | XT2 | — | Not used, open |
| 19 | S12 | O | Segment signal of FL display | 53 | VSS | — | GND terminal |
| 30 | S1 | | | 54 | CF1 | I | Crystal oscillator |
| 31 | FWD | O | Rotation control terminal of volume motor | 55 | CF2 | O | Terminal (6MHz) |
| 32 | REV | | | 56 | VDD | I | Power supply terminal |
| 33 | INI | — | Not used, connected to resistor | 57 | KEY1 | I | Key matrix detect terminal |
| 34 | FMST | I | Stereo signal detect terminal | 60 | KEY4 | | |
| 35 | SD | I | Received signal detect terminal | 61 | STANDBY | O | Power detect terminal |
| 36 | IFDAIN | I | Serial data signal | 62 | ENCODE A | I | Not used, connected to power supply |
| 37 | LOUD | — | Not used, open | 63 | ENCODE B | | |
| 38 | ST3 | O | Level shift control terminal | 64 | REM | I | Remote control terminal |
| 39 | V2 | O | Video selector control terminal | | | | |
| 40 | CE | O | Chip enable terminal | | | | |

FAN MOTOR TROUBLESHOOTING GUIDE

The Model SA-GX170 employ fan motor error sensing electronics. If the cooling fan is not operation and "OVER LOAD" is displayed on the FL display, check the fan motor and its driving circuit.



SCHEMATIC DIAGRAM (Parts list on pages 38~43.)

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

Notes 1:

- Signal line
 - □ □ □ : FM OSC
 - □ □ □ □ : AM (MW/LW) OSC
 - □ □ □ □ □ : FM signal
 - □ □ □ □ □ □ : AM (MW/LW) signal
 - □ □ □ □ □ □ □ : Rec. out signal (Loft)
 - □ □ □ □ □ □ □ □ : AF signal (Loft)
 - : Positive voltage lines
 - - - : Negative voltage lines

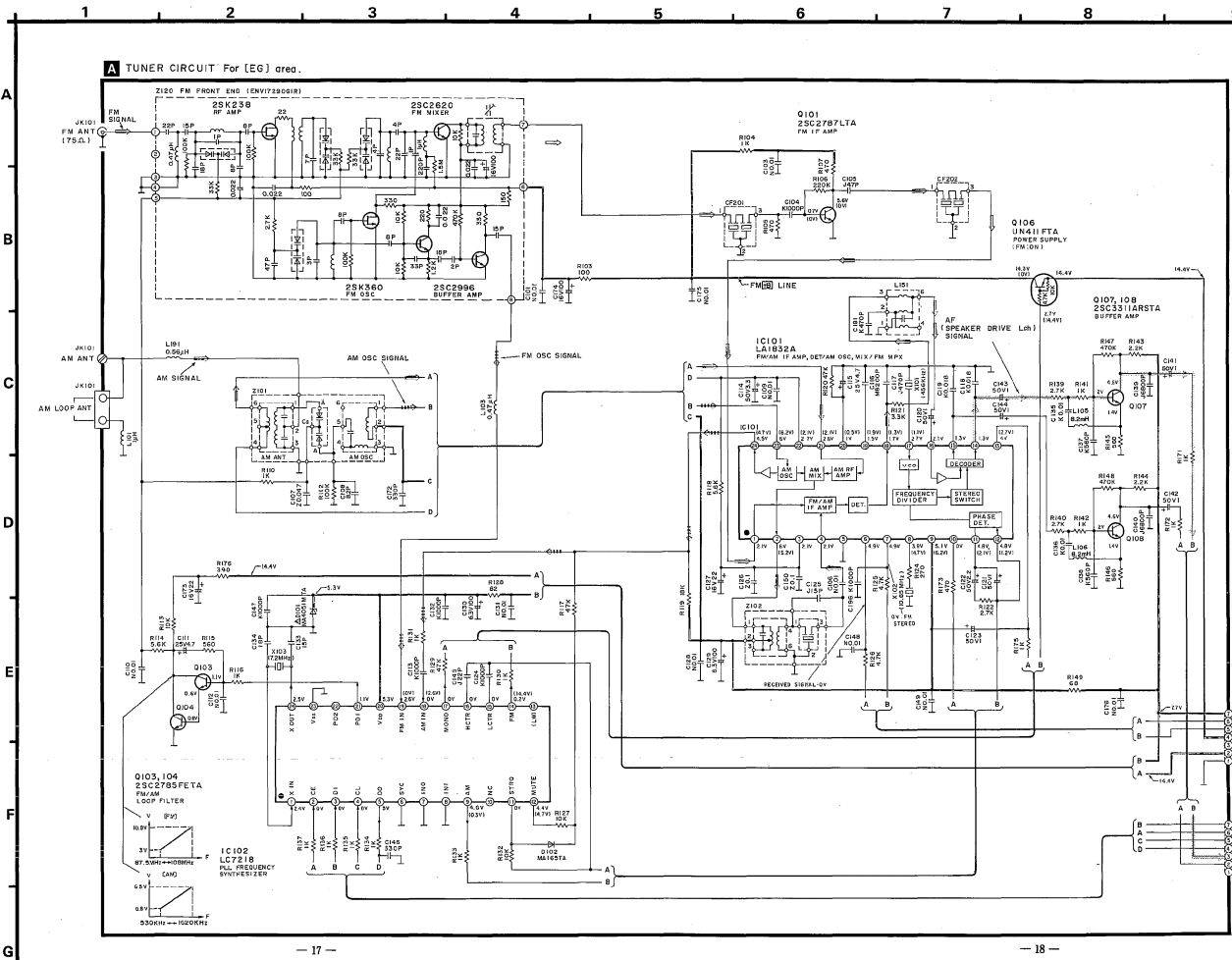
• Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts. Indicated voltage values are standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on internal impedance of the DC circuit tester.

• All voltage values shown in circuitry are DC voltage in FM signal (Stereo signal) reception mode.
* Figures in () Stand for DC-voltage in AM (MW) signal reception mode.
* Figures in $\langle \rangle$ Stand for DC-voltage in LW signal reception mode.

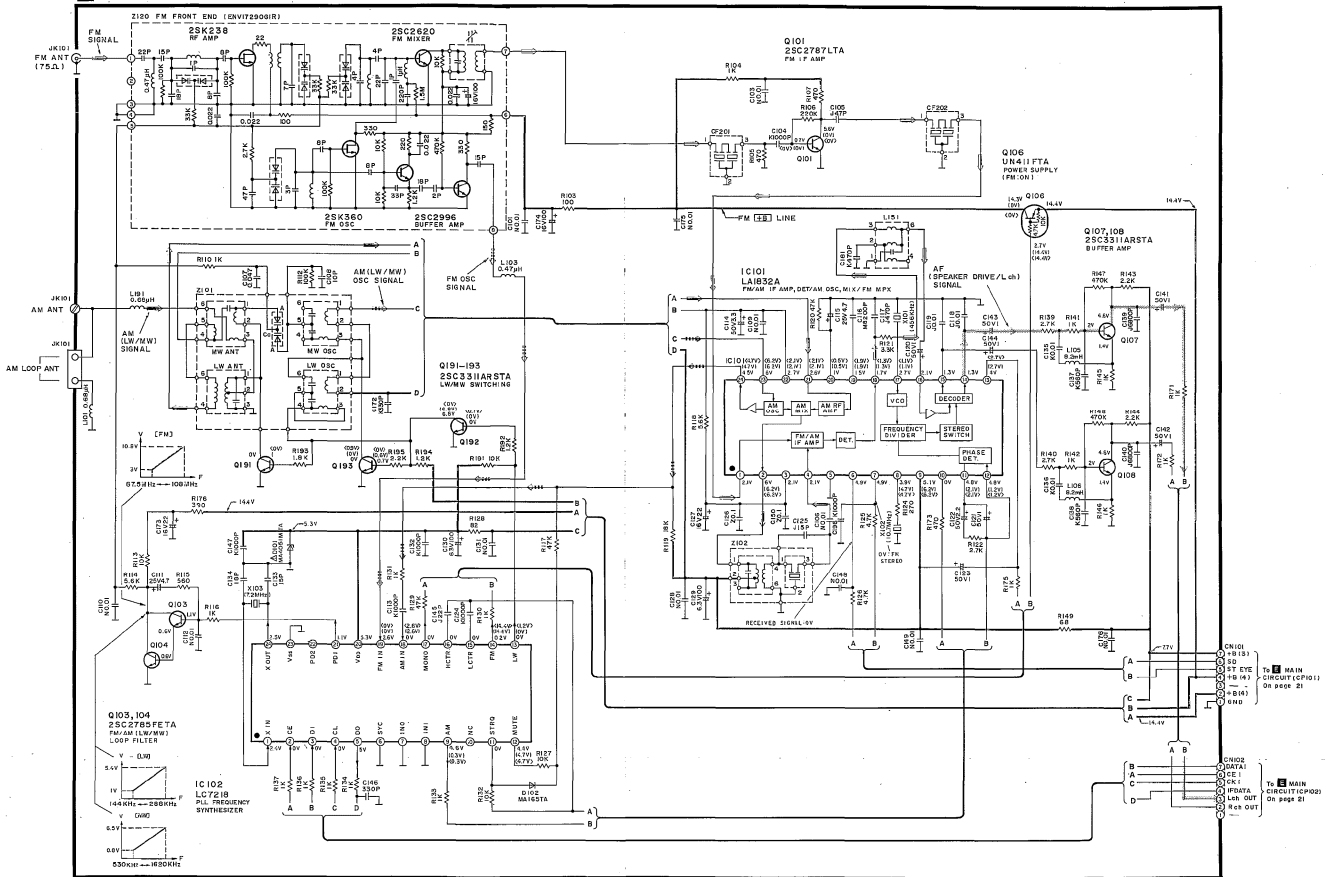
• Caution!
IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair:
* Cover the parts boxes made of plastics with aluminum foil.
* Ground the soldering iron.
* Put a conductive mat on the work table.
* Do not touch the legs of IC or LSI with the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

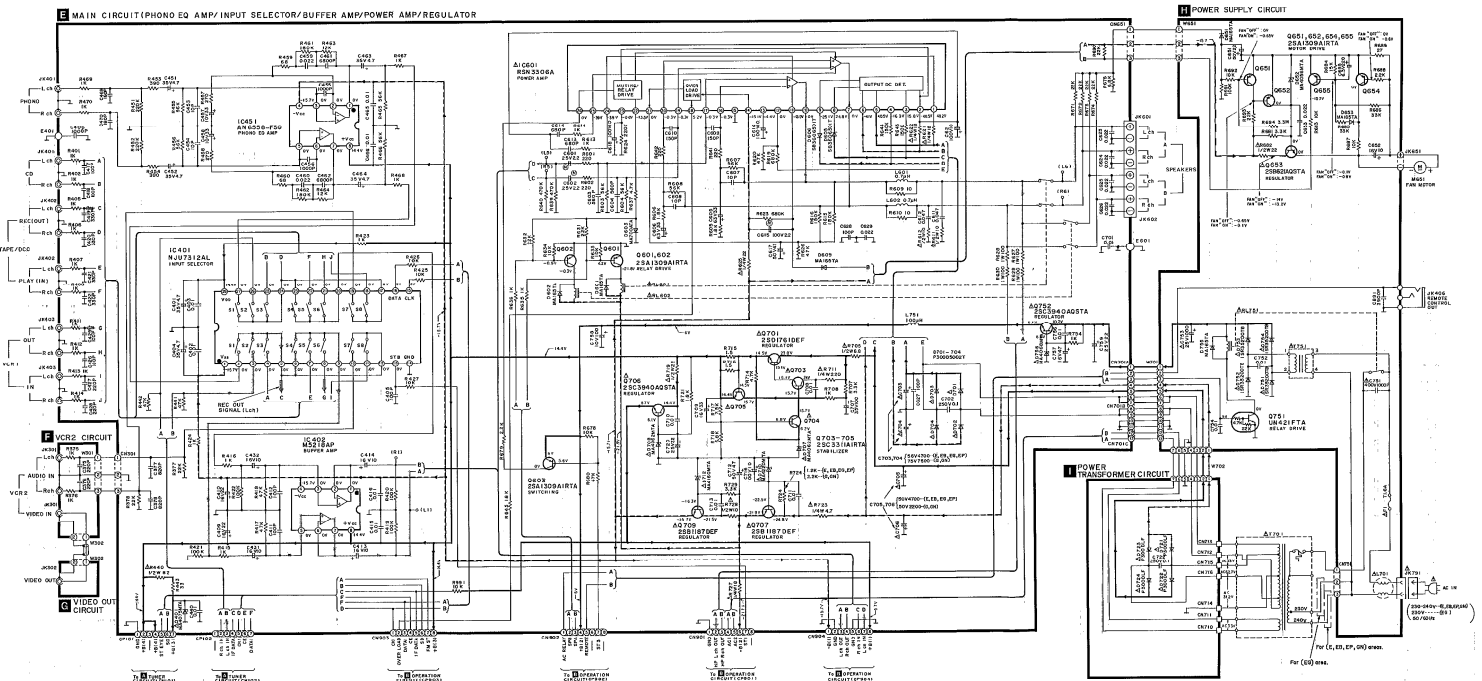
Terminal guide of IC's, transistors and diodes

| | | | | |
|---|--|--|--|--|
| <ul style="list-style-type: none"> • For IC (Q/N) areas: LC9A012C5470 • For (E, EB, EG, EP) areas: LC9A012C5481 | | | | |
| | | | | |
| | | | | |
| | | | | |



A TUNER CIRCUIT For [E,EB,EP,6,6N] areas.





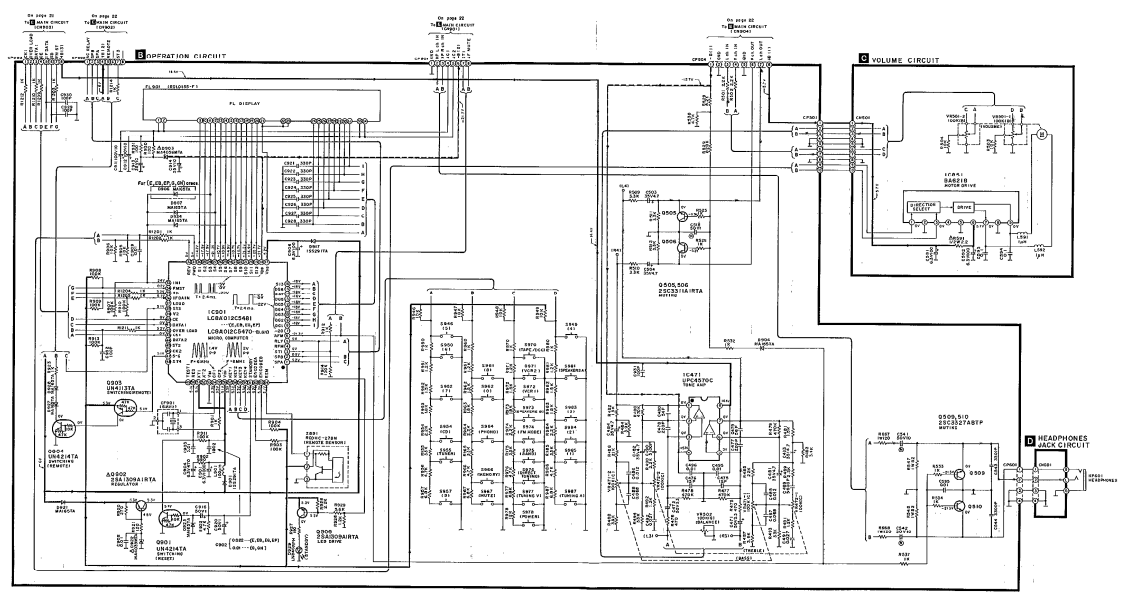
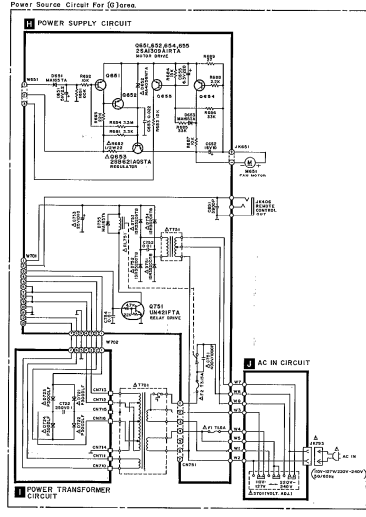
- 21 -

- 22 -

- 23 -

1 2 3 4 5 6 7 8 9 10 11 12 13 14

A
B
C
D
E
F
G



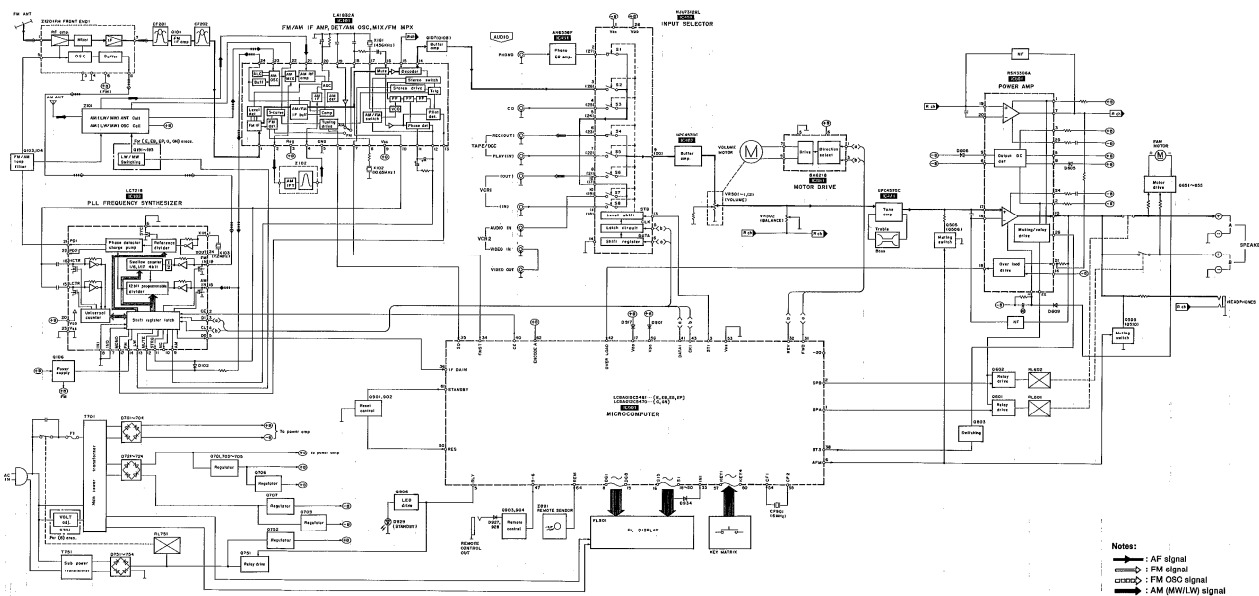
■ BLOCK DIAGRAM

- Notes 2:
- S701 : Voltage adjustment switch in "240V" position. (115V ~ 127V ~ 220V ~ 240V) (For (G) area only.)
 - S848 : Numeric (0) switch.
 - S849 : Numeric (1) switch.
 - S850 : Numeric (2) switch.
 - S852 : Numeric (3) switch.
 - S854, 855 : Input select switches. (S854: CD, S855: TUNER)
 - S857 : Numeric (0) switch.
 - S858 : Numeric (1) switch.
 - S859 : Input select (PHONE) switch.
 - S866 : Memory (MEMORY) switch.
 - S867 : Muting (MUTING) switch.
 - S870 : Tape/DC monitor (TAPE/DC MONITOR) switch. (S871: VOR2, S872: VOR1)
 - S871, 872 : Input select switches. (S871: VOR2, S872: VOR1)
 - S873 : Speaker select (SPEAKERS B) switch.
 - S874 : FM mode select (FM MODE) switch.
 - S875 : Band select (BAND) switch.
 - S876 : Direct tuning (DIRECT TUNING) switch.
 - S877 : Tuning (TUNING V) switch.
 - S878 : Power "STANDBY & ION" (POWER, STANDBY & ION) switch.
 - S881 : Speaker select (SPEAKERS A) switch.
 - S883 : Numeric (0) switch.
 - S884 : Numeric (1) switch.
 - S885 : Numeric (2) switch.
 - S887 : Tuning (TUNING A) switch.

- Signal line
- FM OSC
 - ◻ AM (MW/LW) OSC
 - ◻ FM signal
 - ◻ AM (MW/LW) signal
 - ◻ RF out signal (Lch)
 - ◻ AF signal (Lch)
 - Positive voltage lines
 - - - Negative voltage lines

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts. Indicated voltage values are standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on internal impedance of the DC circuit tester.

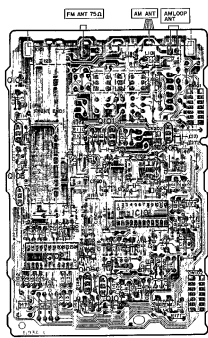
- All voltage values shown in circuitry are DC voltage in FM signal (Stereo signal) reception mode.
- Figures in () stand for DC-voltage in AM (MW) signal reception mode.
- Figures in < > stand for DC-voltage in LW signal reception mode.



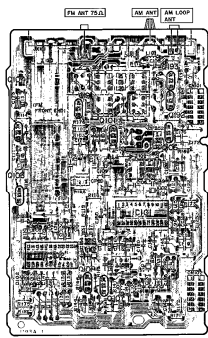
- Notes:
- ◻ AF signal
 - ◻ FM signal
 - ◻ FM OSC signal
 - ◻ AM (MW/LW) signal
 - ◻ AM (MW/LW) OSC signal
 - ◻ RF out signal
 - () indicates Pin No. of right channel.

PRINTED CIRCUIT BOARDS

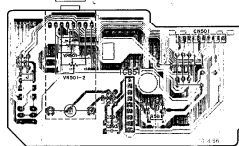
A TUNER P.C.B. For (E0) area.
(REP 1750C-T)



A TUNER P.C.B. For (E, EB, EP, G, GN) areas.
(REP 1750B-T)



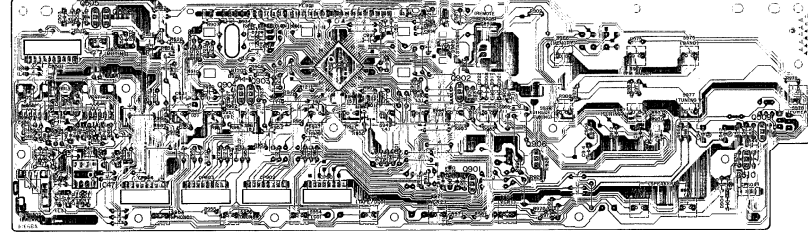
C VOLUME P.C.B. (REP 1604B-S---(E, EB, EP)
(REP 1604C---(E0)
(REP 1604G-S---(G, GN)



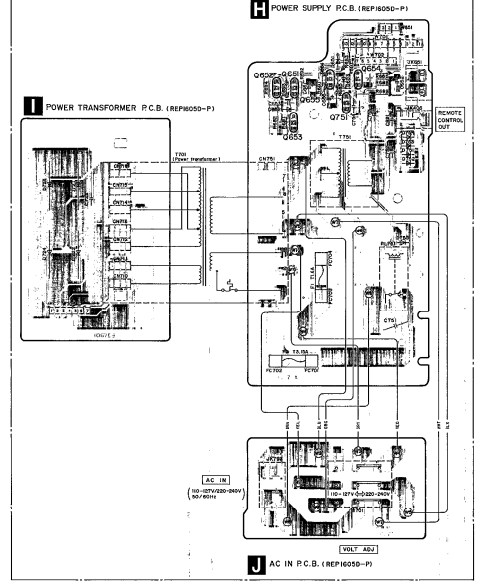
D HEADPHONES JACK P.C.B.
(REP 1604B-S---(E, EB, EP)
(REP 1604C---(E0)
(REP 1604G-S---(G, GN)



B OPERATION P.C.B. (REP 1604B-S---(E, EB, EP)
(REP 1604C---(E0)
(REP 1604G-S---(G, GN)

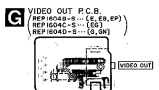
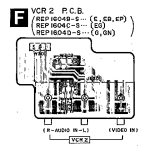
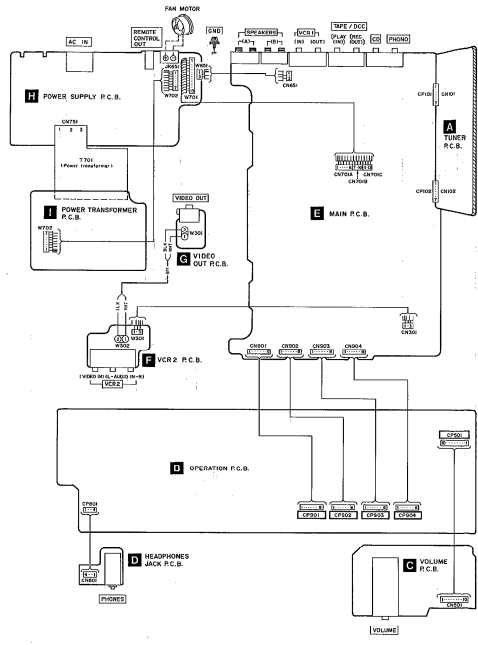
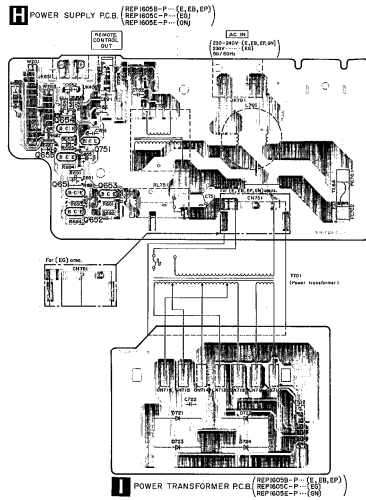
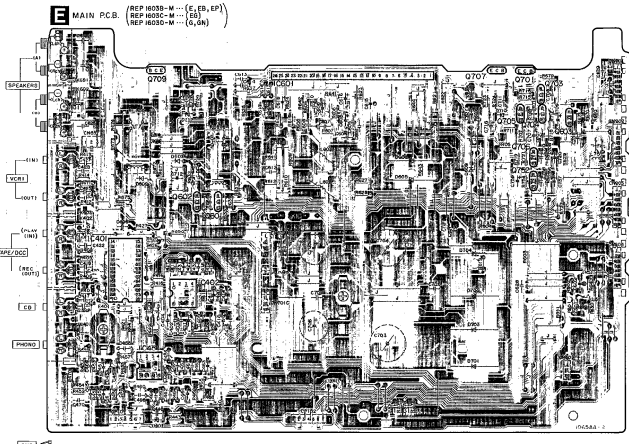


Power Source P.C.B. For (E) area.

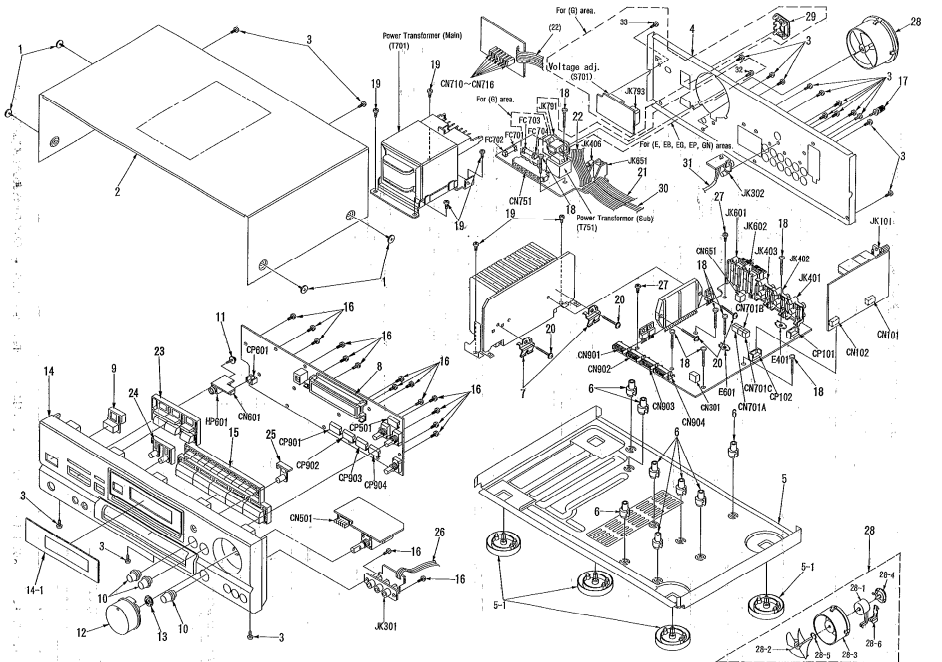


15 16 17 18 19 20 21 22 23 24

■ WIRING CONNECTION DIAGRAM



CABINET PARTS LOCATION



REPLACEMENT PARTS LIST

Notes: *Important safety notice: Components identified by A, mark have special characteristics important for safety. Furthermore, specific parts which have purposes of fire-retardant protection, high quality sound insulation, tremor prevention, etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list. *The dimensional indications in the Remarks column specify the areas. (Refer to the cover page for area.) Parts without these indications can be used for all areas.

| Ref. No. | Part No. | Part Name & Description | Remarks | Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|-------------|-------------------------|---------|----------|--------------|--------------------------------|---------------------|
| | | CABINET AND CHASSIS | | 21 | REFRACK17008 | TRANSFORMER ASS Y (OPP. MODEL) | (E, ER, EG, EP, GH) |
| | | | | 22 | YXBS-4JFL | SCREW | (G) |
| | | | | 23 | YXBS-4JFL | SCREW | (G) |
| 1 | REB0005-K1 | SCREW | | | | INTEGRATED CIRCUIT(S) | |
| 2 | ROM6006-X | COILSET | | | | | |
| 3 | YXBS-4JFL | SCREW | | | | | |
| 4 | REK1730P-0 | REAR PANEL | (E, EP) | 3101 | SLA1822A | PL/VM 1F AMP./VM OSC | |
| 4 | REK1730P-CL | REAR PANEL | (G) | 3102 | LC7714 | PLA. PROG. SYNTHESIZER | |
| 4 | REK1730P-AL | REAR PANEL | (G) | 3101 | W010710A | TIMING SELECTOR | |
| 4 | REK1730P-D | REAR PANEL | (G) | 3102 | W5215AP | DEFLECTOR AMP. | |
| 4 | REK1730P-0 | REAR PANEL | (G) | 3102 | W010710C | PHASE EQ. AMP. | |
| 5 | REK1730P-RP | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 5-1 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 6 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 7 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 8 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 9 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 10 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 11 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 12 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 13 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 14 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 14-1 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 15 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 16 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 17 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 18 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 19 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 20 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 21 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 22 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 23 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 24 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 25 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 26 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 27 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 28 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 29 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 30 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 31 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 32 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 33 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 34 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 35 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 36 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 37 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 38 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 39 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 40 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 41 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 42 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 43 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 44 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 45 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 46 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 47 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 48 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 49 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |
| 50 | REK1730P-0 | REAR PANEL | (G) | 3101 | W010710C | PHASE CORRECT. | |

| Ref. No. | Part No. | Part Name & Description | Remarks | Ref. No. | Part No. | Part Name & Description | Remarks |
|------------|--------------|-------------------------|-----------------------|----------|--------------|-----------------------------|-----------------------|
| D102 | MA165 | DIODE | | | | | |
| D401 | MA4075MTA | DIODE | △ | T701 | RTP1N5E014-V | POWER TRANSFORMER (MAIN) | (E, EB, EG, EP) △ |
| D601, 602 | MA165 | DIODE | | T701 | RTP1N5E015-V | POWER TRANSFORMER (MAIN) | (G) △ |
| D603 | MA700 | DIODE | | T701 | RTP1N5E016-V | POWER TRANSFORMER (MAIN) | (GN) △ |
| D605, 606 | SB3606501T | DIODE | | T751 | RTP115E003-V | POWER TRANSFORMER (SUB) | (E, EB, EG, EP, GN) △ |
| D609 | MA165 | DIODE | | T751 | RTP115E005-V | POWER TRANSFORMER (SUB) | (G) △ |
| D651 | MA165 | DIODE | | | | COMPONENT COMBINATION (S) | |
| D652 | MA4056MTA | DIODE | | | | | |
| D653 | MA165 | DIODE | | Z101 | RLA6Z005M-T | COMPONENT COMBINATION | (E, EB, EP, G, GN) |
| D701-704 | P300D5002T | DIODE | △ | Z101 | RLA2Z002M-T | COMPONENT COMBINATION | (EG) |
| D707, 708 | MA4062MTA | DIODE | △ | Z102 | RL12Z006M-T | COMPONENT COMBINATION | |
| D710 | MA4220MTA | DIODE | △ | Z891 | RCDHC-278N | REMOTE SENSOR | |
| D712 | MA4160M | DIODE | △ | | | FILTER(S) AND OSCILLATOR(S) | |
| D721-724 | P300DLF | DIODE | △ | | | | |
| D751-754 | 1SR35200TB | DIODE | △ | CF201 | RLFFETNGD01L | FILTER | |
| D755 | MA165 | DIODE | | CF202 | RLFFETMGD01L | FILTER | |
| D756 | MA4068M | DIODE | △ | CF901 | EFOEC6004T4 | OSCILLATOR (6MHz) | |
| D901 | 1SS291TA | DIODE | | X101 | RSXZ456KM07M | OSCILLATOR (456KHz) | |
| D903 | MA4056MTA | DIODE | △ | X102 | RLFDGTD01I | OSCILLATOR (10.65MHz) | |
| D904 | MA165 | DIODE | | X103 | SVQ49U722-S | OSCILLATOR (7.2MHz) | |
| D906 | MA165 | DIODE | (E, EB, EP, G, GN) | | | DISPLAY TUBE (S) | |
| D907 | MA165 | DIODE | | | | | |
| D917 | 1SS291TA | DIODE | | FL901 | RSL0155-F | DISPLAY TUBE | |
| D921 | MA165 | DIODE | | | | FM FRONT END PACK ASS'Y(S) | |
| D922 | MA4039MTA | DIODE | △ | | | | |
| D923 | MA165 | DIODE | | Z120 | ENV17290G1R | FM FRONT END | |
| D927, 928 | MA165 | DIODE | | | | FUSE(S) | |
| D929 | LN846RPH | L. E. D. | | F1 | XBA2C16TBO | FUSE, 125V, 1.6A | △ |
| D934 | MA165 | DIODE | | F2 | XBA2C31TBO | FUSE, 25V, 3.15A | (G) △ |
| | | VARIABLE RESISTOR(S) | | | | SWITCH(ES) | |
| VR471, 472 | EVJYA1FA5C15 | TONE CONTROL | | S701 | ESD26840A | VOLTAGE ADJUSTMENT | (G) △ |
| VR501 | EUWMB025B15 | VOLUME CONTROL | | S946 | EVQ21405R | NUMERIC 5 | |
| VR502 | EVJ02QF02G15 | BALANCE CONTROL | | S949 | EVQ21405R | NUMERIC 4 | |
| | | COIL (S) | | S950 | EVQ21405R | NUMERIC 6 | |
| | | | | S952 | EVQ21405R | NUMERIC 7 | |
| L101 | ELESNR68MA | COIL | (E, EB, EP, G, GN) | S954 | EVQ21405R | CD | |
| L101 | ELESN1ROMA | COIL | (EG) | S955 | EVQ21405R | TUNER | |
| L103 | ELEXTR47MA9 | COIL | | S957 | EVQ21405R | NUMERIC 9 | |
| L105, 106 | RLQZB822KT-D | COIL | | S961 | EVQ21405R | NUMERIC 8 | |
| L151 | SLMLB10M-1M | COIL | | S962 | EVQ21405R | NUMERIC 0 | |
| L191 | ELESNR68MA | COIL | (E, EB, EP, G, GN) | S964 | EVQ21405R | PHONO | |
| L191 | ELESNR56MA | COIL | (EG) | S966 | EVQ21405R | MEMORY | |
| L591, 592 | RLQZPIROKT-Y | COIL | | S967 | EVQ21405R | MUTING | |
| L601, 602 | RLQYR73M | COIL | | S970 | EVQ21405R | TAPE/DCC | |
| L701 | SLQZ650MH49 | COIL | (E, EB, EG, EP, GN) △ | | | | |
| L751 | ELESN101KA | COIL | | | | | |
| L901 | RLQZP101KT-Y | COIL | | | | | |
| | | TRANSFORMER (S) | | | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks | Ref. No. | Part No. | Part Name & Description | Remarks |
|------------|--------------|-----------------------------|---------------------|------------|------------|-------------------------|---------|
| S971 | EVQ21405R | VCR2 | | JK791 | SJSD16 | AC INLET | (GN) △ |
| S972 | EVQ21405R | VCRI | | JK793 | SJS9231-1B | AC INLET | (G) △ |
| S973 | EVQ21405R | SP-B | | | | | |
| S974 | EVQ21405R | FM MODE | | | | GND PLATE (S) | |
| S975 | EVQ21405R | BAND | | | | | |
| S976 | EVQ21405R | DIRECT TUNING | | E401 | SNE1004-2 | GND PLATE | |
| S977 | EVQ21405R | TUNING DOWN | | E601 | SNE1004-2 | GND PLATE | |
| S978 | EVQ21405R | POWER | | | | | |
| S981 | EVQ21405R | SP-A | | | | FUSE HOLDER(S) | |
| S983 | EVQ21405R | NUMERIC 3 | | | | | |
| S984 | EVQ21405R | NUMERIC 2 | | FC701, 702 | EYF52BC | FUSE HOLDER | |
| S985 | EVQ21405R | NUMERIC 1 | | FC703, 704 | EYF52BC | FUSE HOLDER | (G) |
| S987 | EVQ21405R | TUNING UP | | | | | |
| | | RELAY(S) | | | | | |
| RL601, 602 | RSY0013M-0 | RELAY | △ | | | | |
| RL751 | RSY0019M-0 | RELAY | △ | | | | |
| | | CONNECTOR(S) AND SOCKET(S) | | | | | |
| CN101, 102 | RJU057W007 | SOCKET (7P) | | | | | |
| CN301 | RJS1A6603 | CONNECTOR (3P) | | | | | |
| CN501 | RJU003K010M1 | SOCKET (10P) | | | | | |
| CN601 | RJU057W004 | SOCKET (4P) | | | | | |
| CN651 | RJS1A6603 | CONNECTOR (3P) | | | | | |
| CN701A | RJS1A6606 | CONNECTOR (6P) | | | | | |
| CN701B | RJS1A6604 | CONNECTOR (4P) | | | | | |
| CN701C | RJS1A6603 | CONNECTOR (3P) | | | | | |
| CN710-716 | RJS1A1101T1 | CONNECTOR (1P) | | | | | |
| CN751 | SJS305-1 | CONNECTOR (3P) | (E, EB, EG, EP, GN) | | | | |
| CN751 | SJS702-1 | CONNECTOR (7P) | (G) | | | | |
| CN901-904 | RJU003K008M1 | SOCKET (8P) | | | | | |
| CP101, 102 | RJT057W007-1 | CONNECTOR (7P) | | | | | |
| CP501 | RJT003K010-1 | CONNECTOR (10P) | | | | | |
| CP601 | RJT057W004-1 | CONNECTOR (4P) | | | | | |
| CP901-904 | RJT003K008-1 | CONNECTOR (8P) | | | | | |
| | | JACK(S) AND TERMINAL(S) | | | | | |
| HP601 | RJJ63TS01 | HEADPHONE JACK | | | | | |
| JK101 | RJH4202M | ANT TERMINAL | | | | | |
| JK301 | SJFK5-1 | VCR2 IN TERMINAL | | | | | |
| JK302 | SJFD7-6 | VCR2 OUT TERMINAL | | | | | |
| JK401 | SJF3069N | PHONO/CD TERMINAL | | | | | |
| JK402 | SJF3069N | TAPE/VCR2/DCC TERMINAL | | | | | |
| JK403 | SJF3069N | VCRI TERMINAL | | | | | |
| JK406 | RJJ33TR01 | REMOTE CONTROL OUT TERMINAL | | | | | |
| JK601 | RJR0054 | SPEAKER (A) TERMINAL | | | | | |
| JK602 | RJR0054 | SPEAKER (B) TERMINAL | | | | | |
| JK651 | RJS1A7402-1 | FAN CONNECTOR | | | | | |
| JK791 | SJS9236 | AC INLET | (E, EB, EG, EP) △ | | | | |

RESISTORS AND CAPACITORS

Notes : * Capacity values are in microfarads (μ F) 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 | Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks |
|-----------|-------------|---------------------------------|-----------|--------------|-------------------|-----------|--------------|-----------------------|
| | | RESISTORS | | | G, GN) | R615 | ERDS2TJ184T | 1/4W 180K |
| R103 | ERDS2TJ101 | 1/4W 100 | R375, 376 | ERDS2TJ102 | 1/4W 1K | R616 | ERDS2TJ154 | 1/4W 150K |
| R104 | ERDS2TJ102 | 1/4W 1K | R377, 378 | ERDS2TJ223 | 1/4W 22K | R619 | ERDS2TJ684 | 1/4W 680K |
| R105 | ERDS2TJ471 | 1/4W 470 | R401, 402 | ERDS2TJ102 | 1/4W 1K | R620 | ERDS2TJ473 | 1/4W 47K |
| R106 | ERDS2TJ224T | 1/4W 220K | R405-408 | ERDS2TJ102 | 1/4W 1K | R621, 622 | ERD25FVJ180T | 1/4W 18 Δ |
| R107 | ERDS2TJ471 | 1/4W 470 | R411-416 | ERDS2TJ102 | 1/4W 1K | R623 | ERDS2TJ684 | 1/4W 680K |
| R110 | ERDS2TJ102 | 1/4W 1K | R417, 418 | ERDS2TJ473 | 1/4W 47K | R624 | ERDS2TJ224T | 1/4W 220K |
| R112 | ERDS2TJ104 | 1/4W 100K | R419-422 | ERDS2TJ104 | 1/4W 100K | R625 | ERD25FJ220 | 1/4W 22 Δ |
| R113 | ERDS2TJ103 | 1/4W 10K | R423, 424 | ERDS2TJ102 | 1/4W 1K | R626 | ERDS2TJ473 | 1/4W 47K |
| R114 | ERDS2TJ562 | 1/4W 5.6K | R425-427 | ERDS2TJ103 | 1/4W 10K | R627-630 | ERGISJ101E | 1W 100 |
| R115 | ERDS2TJ561 | 1/4W 560 | R440 | ERDS1FVJ820T | 1/2W 82 Δ | R631, 632 | ERDS2TJ223 | 1/4W 22K |
| R116 | ERDS2TJ102 | 1/4W 1K | R441, 442 | ERDS2TJ473 | 1/4W 47K | R633, 634 | ERDS2TJ103 | 1/4W 10K |
| R117 | ERDS2TJ473 | 1/4W 47K | R443 | ERDS2TJ330 | 1/4W 33 | R635, 636 | ERDS2TJ102 | 1/4W 1K |
| R118 | ERDS2TJ562 | 1/4W 5.6K | R451, 452 | ERDS2TJ224T | 1/4W 220K | R637 | ERDS2TJ472 | 1/4W 4.7K |
| R119 | ERDS2TJ183T | 1/4W 18K | R453, 454 | ERDS2TJ391 | 1/4W 390 | R639, 640 | ERDS2TJ474 | 1/4W 470K |
| R120 | ERDS2TJ473 | 1/4W 47K | R455, 456 | ERDS2TJ563 | 1/4W 56K | R641, 642 | ERDS2TJ221 | 1/4W 220 |
| R121 | ERDS2TJ332 | 1/4W 3.3K | R457, 458 | ERDS2TJ271 | 1/4W 270 | R643, 644 | ERDS2TJ154 | 1/4W 150K |
| R122 | ERDS2TJ272T | 1/4W 2.7K | R459, 460 | ERDS2TJ680T | 1/4W 68 | R645 | ERDS2TJ183T | 1/4W 18K |
| R124 | ERDS2TJ271 | 1/4W 270 | R461, 462 | ERDS2TJ184T | 1/4W 180K | R667, 668 | ERGISJ121E | 1W 120 |
| R125, 126 | ERDS2TJ472 | 1/4W 4.7K | R463, 464 | ERDS2TJ123 | 1/4W 12K | R671-674 | ERDS2TJ223 | 1/4W 22K |
| R127 | ERDS2TJ103 | 1/4W 10K | R465, 466 | ERDS2TJ563 | 1/4W 56K | R675 | ERDS2TJ682T | 1/4W 6.8K |
| R128 | ERDS2TJ820 | 1/4W 82 | R467-470 | ERDS2TJ102 | 1/4W 1K | R678 | ERDS2TJ103 | 1/4W 10K |
| R129 | ERDS2TJ473 | 1/4W 47K | R475, 476 | ERDS2TJ471 | 1/4W 470 | R679 | ERDS2TJ222 | 1/4W 2.2K |
| R130, 131 | ERDS2TJ102 | 1/4W 1K | R477-480 | ERDS2TJ474 | 1/4W 470K | R680 | ERDS2TJ473 | 1/4W 47K |
| R132 | ERDS2TJ103 | 1/4W 10K | R481, 482 | ERDS2TJ152 | 1/4W 1.5K | R681 | ERDS2TJ332 | 1/4W 3.3K |
| R133-137 | ERDS2TJ102 | 1/4W 1K | R483, 484 | ERDS2TJ392T | 1/4W 3.9K | R682 | ERDS1FVJ220T | 1/2W 22 Δ |
| R139, 140 | ERDS2TJ272T | 1/4W 2.7K | R485, 486 | ERDS2TJ223 | 1/4W 22K | R683 | ERDS2TJ103 | 1/4W 10K |
| R141, 142 | ERDS2TJ102 | 1/4W 1K | R487, 488 | ERDS2TJ392T | 1/4W 3.9K | R684 | ERDS2TJ153 | 1/4W 15K |
| R143, 144 | ERDS2TJ222 | 1/4W 2.2K | R489, 490 | ERDS2TJ222 | 1/4W 2.2K | R685, 686 | ERDS2TJ333 | 1/4W 33K |
| R145, 146 | ERDS2TJ102 | 1/4W 1K (E, EB, EP, G, GN) | R491, 492 | ERDS2TJ122 | 1/4W 1.2K | R687 | ERDS2TJ103 | 1/4W 10K |
| R145, 146 | ERDS2TJ561 | 1/4W 560 (EG) | R493, 494 | ERDS2TJ333 | 1/4W 33K | R688 | ERDS2TJ222 | 1/4W 2.2K |
| R147, 148 | ERDS2TJ474 | 1/4W 470K | R501, 502 | ERDS2TJ222 | 1/4W 2.2K | R689 | ERDS2TJ270T | 1/4W 27 |
| R149 | ERDS2TJ680T | 1/4W 68 | R503, 504 | ERDS2TJ103 | 1/4W 10K | R690 | ERDS2TJ223 | 1/4W 22K |
| R171, 172 | ERDS2TJ102 | 1/4W 1K | R509-512 | ERDS2TJ332 | 1/4W 3.3K | R691 | ERDS2TJ104 | 1/4W 100K |
| R173 | ERDS2TJ471 | 1/4W 470 | R525, 526 | ERDS2TJ102 | 1/4W 1K | R692 | ERDS2TJ103 | 1/4W 10K |
| R175 | ERDS2TJ102 | 1/4W 1K | R528 | ERDS2TJ822 | 1/4W 8.2K | R693 | ERDS2TJ223 | 1/4W 22K |
| R176 | ERDS2TJ391 | 1/4W 390 | R529 | ERDS2TJ824 | 1/4W 820K | R694 | ERDS2TJ335T | 1/4W 3.3M |
| R191 | ERDS2TJ103 | 1/4W 10K (E, EB, EP, G, GN) | R532-534 | ERDS2TJ102 | 1/4W 1K | R705 | ERDS1FVJ6R8T | 1/2W 6.8 Δ |
| R192 | ERDS2TJ122 | 1/4W 1.2K (E, EB, EP, G, GN) | R537 | ERDS2TJ102 | 1/4W 1K | R707 | ERDS2TJ332 | 1/4W 3.3K |
| R193 | ERDS2TJ182 | 1/4W 1.8K (E, EB, EP, G, GN) | R538 | ERDS2TJ472 | 1/4W 4.7K | R708 | ERDS2TJ102 | 1/4W 1K |
| R194 | ERDS2TJ122 | 1/4W 1.2K (E, EB, EP, G, GN) | R547, 548 | ERGISJ820E | 1W 82 | R711 | ERD25FVJ221T | 1/4W 220 Δ |
| R195 | ERDS2TJ222 | 1/4W 2.2K (E, EB, EP, G, GN) | R591 | ERDS1FVJ2R2T | 1/2W 2.2 Δ | R714 | ERDS2TJ472 | 1/4W 4.7K |
| | | | R601, 602 | ERDS2TJ221 | 1/4W 220 | R715, 716 | ERDS2TJ1R5T | 1/4W 1.5 |
| | | | R603, 604 | ERDS2TJ563 | 1/4W 56K | R717 | ERDS2TJ752T | 1/4W 7.5K |
| | | | R605, 606 | ERDS2TJ182 | 1/4W 1.8K | R718 | ERDS2TJ682T | 1/4W 6.8K |
| | | | R607, 608 | ERDS2TJ563 | 1/4W 56K | R719 | ERDS1FVJ220T | 1/2W 22 Δ |
| | | | R609, 610 | ERDS2TJ100 | 1/4W 10 | R721 | ERDS2TJ182 | 1/4W 1.8K |
| | | | R611, 612 | ERDS1FVJ100T | 1/2W 10 Δ | R723 | ERD25FVJ4R7T | 1/4W 4.7 Δ |
| | | | R613, 614 | ERDS2TJ102 | 1/4W 1K | R724 | ERDS2TJ122 | 1/4W 1.2K (E, EB, EG, |

| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks |
|-----------|--------------|--------------------|------------|--------------|----------------------------|-----------|--------------|------------------|
| | | EP) | R984 | ERDS2TJ222 | 1/4W 2. 2K | C173 | ECEA1CKA220B | 16V 22U |
| R724 | ERDS2TJ222 | 1/4W 2. 2K (G, GN) | R985 | ERDS2TJ332 | 1/4W 3. 3K | C174 | ECEA1CKA101B | 16V 100U |
| R727 | ERD25FVJ180T | 1/4W 18 Δ | R986 | ERDS2TJ472 | 1/4W 4. 7K | C175, 176 | ECBT1C103NS5 | 16V 0. 01U |
| R728 | ERDS1FVJ100T | 1/2W 10 Δ | R987 | ERDS2TJ682T | 1/4W 6. 8K | C181 | ECBT1H471KB5 | 50V 470P |
| R729 | ERDS2TJ332 | 1/4W 3. 3K | R991 | ERDS2TJ103 | 1/4W 10K | C196 | ECBT1H102KB5 | 50V 1000P |
| R754 | ERDS2TJ102 | 1/4W 1K | R1201-1205 | ERDS2TJ102 | 1/4W 1K | C375, 376 | ECBT1H221KB5 | 50V 220P |
| R901 | ERDS2TJ102 | 1/4W 1K | R1209-1212 | ERDS2TJ102 | 1/4W 1K | C377, 378 | ECBT1H821KB5 | 50V 820P |
| R902 | ERDS2TJ681 | 1/4W 680 | R1214 | ERDS2TJ102 | 1/4W 1K | C401 | ECEA1VKA4R7B | 35V 4. 7U |
| R903, 904 | ERDS2TJ104 | 1/4W 100K | | | | C402, 403 | ECBT1E103ZF | 25V 0. 01U |
| R905, 906 | ERDS2TJ103 | 1/4W 10K | | | CAPACITORS | C404 | ECEA1VKA4R7B | 35V 4. 7U |
| R907-911 | ERDS2TJ104 | 1/4W 100K | | | | C405 | ECBT1H101KB5 | 50V 100P |
| R912 | ERDS2TJ102 | 1/4W 1K | C101 | ECBT1C103NS5 | 16V 0. 01U | C406 | ECBT1H102KB5 | 50V 1000P |
| R913, 914 | ERDS2TJ104 | 1/4W 100K | C103 | ECBT1C103NS5 | 16V 0. 01U | C409, 410 | ECEA1CKA220B | 16V 22U |
| R920 | ERDS2TJ271 | 1/4W 270 | C104 | ECBT1H102KB5 | 50V 1000P | C411, 412 | ECBT1H101KB5 | 50V 100P |
| R921 | ERDS2EJ121 | 1/4W 120 | C105 | ECBT1H470J5 | 50V 47P | C413, 414 | ECEA1CKA100B | 16V 10U |
| R922 | ERDS2TJ472 | 1/4W 4. 7K | C106 | ECBT1C103NS5 | 16V 0. 01U | C415, 416 | ECBT1E103ZF | 25V 0. 01U |
| R923 | ERDS2TJ102 | 1/4W 1K | C107 | ECBT1H473ZF5 | 50V 0. 047U | C417, 418 | ECBT1H101KB5 | 50V 100P |
| R926 | ERDS2TJ122 | 1/4W 1. 2K | C108 | ECBT1H100JC5 | 50V 10P (E, EB, EP, G, GN) | C419-422 | ECBT1H331KB5 | 50V 330P |
| R927 | ERDS2TJ181T | 1/4W 180 | | | | C425, 426 | ECBT1H101KB5 | 50V 100P |
| R928 | ERDS2TJ222 | 1/4W 2. 2K | C108 | ECBT1H8R2KC5 | 50V 8. 2P (EG) | C427, 428 | ECBT1H221KB5 | 50V 220P |
| R929 | ERDS2TJ562 | 1/4W 5. 6K | C109, 110 | ECBT1C103NS5 | 16V 0. 01U | C431, 432 | ECEA1CKA100B | 16V 10U |
| R930, 931 | ERDS2TJ101 | 1/4W 100 | C111 | ECEA1EKA4R7B | 25V 4. 7U | C440 | ECBT1E103ZF | 25V 0. 01U |
| R946-949 | ERDS2TJ103 | 1/4W 10K | C112 | ECBT1C103NS5 | 16V 0. 01U | C451, 452 | ECEA1VKA4R7B | 35V 4. 7U |
| R950 | ERDS2TJ102 | 1/4W 1K | C113 | ECBT1H102KB5 | 50V 1000P | C453, 454 | ECBT1H100JC5 | 50V 10P |
| R951 | ERDS2TJ122 | 1/4W 1. 2K | C114 | ECEA1HKA3R3B | 50V 3. 3U | C455, 456 | ECBT1H102KB5 | 50V 1000P |
| R952 | ERDS2TJ152 | 1/4W 1. 5K | C115 | ECEA1EKA4R7B | 25V 4. 7U | C457, 458 | ECEA1AKA330B | 10V 33U |
| R953 | ERDS2TJ182 | 1/4W 1. 8K | C116 | ECBT1C822MS5 | 16V 8200P | C459, 460 | ECFR1E223KR | 25V 0. 022U |
| R954 | ERDS2TJ222 | 1/4W 2. 2K | C117 | ECQB1H471JF3 | 50V 470P | C461, 462 | ECFR1E682KR | 25V 6800P |
| R955 | ERDS2TJ332 | 1/4W 3. 3K | C118, 119 | ECQB1H103JF3 | 50V 0. 01U | C463, 464 | ECEA1VKA4R7B | 35V 4. 7U |
| R956 | ERDS2TJ472 | 1/4W 4. 7K | C120, 121 | ECEA1HKA010B | 50V 1U | C465, 466 | ECBT1E103ZF | 25V 0. 01U |
| R957 | ERDS2TJ682T | 1/4W 6. 8K | C122 | ECEA1HKA2R2B | 50V 2. 2U | C469, 470 | ECBT1H181KB5 | 50V 180P |
| R960 | ERDS2TJ102 | 1/4W 1K | C123 | ECEA1HKA010B | 50V 1U | C471, 472 | ECEA1HKA3R3B | 50V 3. 3U |
| R961 | ERDS2TJ122 | 1/4W 1. 2K | C124 | ECBT1H102KB5 | 50V 1000P | C475, 476 | ECBT1H150J5 | 50V 15P |
| R962 | ERDS2TJ152 | 1/4W 1. 5K | C125 | ECBT1H150JC5 | 50V 15P | C477, 478 | ECBT1H221KB5 | 50V 220P |
| R963 | ERDS2TJ182 | 1/4W 1. 8K | C126 | ECBT1H104ZF5 | 50V 0. 1U | C479, 480 | ECBT1H560J5 | 50V 56P |
| R964 | ERDS2TJ222 | 1/4W 2. 2K | C127 | ECEA1CKA220B | 16V 22U | C481-484 | ECEA1VKA4R7B | 35V 4. 7U |
| R965 | ERDS2TJ332 | 1/4W 3. 3K | C128 | ECBT1C103NS5 | 16V 0. 01U | C485, 486 | ECFR1E123KR | 25V 0. 012U |
| R966 | ERDS2TJ472 | 1/4W 4. 7K | C129, 130 | ECEA0JKA101B | 6. 3V 100U | C487, 488 | ECQV1H683JM3 | 50V 0. 068U |
| R967 | ERDS2TJ682T | 1/4W 6. 8K | C131 | ECBT1C103NS5 | 16V 0. 01U | C489, 490 | ECBT1C562KR5 | 16V 5600P |
| R970 | ERDS2TJ102 | 1/4W 1K | C132 | ECBT1H102KB5 | 50V 1000P | C491, 492 | ECFR1E273KR | 25V 0. 027U |
| R971 | ERDS2TJ122 | 1/4W 1. 2K | C133 | ECBT1H150JC5 | 50V 15P | C495, 496 | ECBT1E103ZF | 25V 0. 01U |
| R972 | ERDS2TJ152 | 1/4W 1. 5K | C134 | ECBT1H180JC5 | 50V 18P | C503, 504 | ECEA1VKA4R7B | 35V 4. 7U |
| R973 | ERDS2TJ182 | 1/4W 1. 8K | C135, 136 | ECBT1C103KS5 | 16V 0. 01U | C518 | ECEA1HKN010B | 50V 1U |
| R974 | ERDS2TJ222 | 1/4W 2. 2K | C137, 138 | ECBT1H561KB5 | 50V 560P | C541, 542 | ECEA1HN100SB | 50V 10U |
| R975 | ERDS2TJ332 | 1/4W 3. 3K | C139, 140 | ECQB1H682JF3 | 50V 6800P | C543, 544 | ECBT1C332KR5 | 16V 3300P |
| R976 | ERDS2TJ472 | 1/4W 4. 7K | C141-144 | ECEA1HKA010B | 50V 1U | C591, 592 | ECEA0JKA101B | 6. 3V 100U |
| R977 | ERDS2TJ682T | 1/4W 6. 8K | C145 | ECBT1H220JC5 | 50V 22P | C593, 594 | ECFR1E104KR | 25V 0. 1U |
| R978 | ERDS2TJ123 | 1/4W 12K | C146 | ECBT1H331KB5 | 50V 330P | C595 | ECBT1E103ZF | 25V 0. 01U |
| R980 | ERDS2TJ102 | 1/4W 1K | C147 | ECBT1H102KB5 | 50V 1000P | C601, 602 | ECEA1EKN2R2B | 25V 2. 2U |
| R981 | ERDS2TJ122 | 1/4W 1. 2K | C148, 149 | ECBT1C103NS5 | 16V 0. 01U | C603, 604 | ECBT1H561KB5 | 50V 560P |
| R982 | ERDS2TJ152 | 1/4W 1. 5K | C150 | ECBT1H104ZF5 | 50V 0. 1U | C605, 606 | ECA1JM330B | 63V 33U |
| R983 | ERDS2TJ182 | 1/4W 1. 8K | C172 | ECBT1H331KB5 | 50V 330P | C607, 608 | ECRR1H100K5 | 50V 10P |

| Ref.No. | Part No. | Values & Remarks | Ref.No. | Part No. | Values & Remarks | | | |
|-----------|--------------|--------------------------------|-----------|--------------|------------------|--|--|--|
| C609, 610 | ECBT1H151KB5 | 50V 150P | C913, 914 | ECEA1VKA100B | 35V 10U | | | |
| C611, 612 | ECQV1H473JM3 | 50V 0.047U | C916 | ECEA1HKA010B | 50V 1U | | | |
| C613, 614 | ECBA1H681KB5 | 50V 680P | C920 | ECEA1HKA010B | 50V 1U | | | |
| C615 | ECEA2AN2R2SB | 100V 2.2U | C921-928 | ECBT1H331KB5 | 50V 330P | | | |
| C616 | ECEA2AU100 | 100V 10U | C929-932 | ECBT1H101KB5 | 50V 100P | | | |
| C617 | ECA1M470B | 50V 47U | | | | | | |
| C618 | ECEA2AU100 | 100V 10U | | | | | | |
| C621 | ECEA2AU100 | 100V 10U | | | | | | |
| C623-626 | ECKT1H223ZF | 50V 0.022U | | | | | | |
| C627 | ECKR2H101KB5 | 500V 100P | | | | | | |
| C628 | ECBT1H101KB5 | 50V 100P | | | | | | |
| C629 | ECBT1E223ZF | 25V 0.022U | | | | | | |
| C651 | ECEA1HKA2R2B | 50V 2.2U | | | | | | |
| C652 | ECEA1CKA100B | 16V 10U | | | | | | |
| C653 | ECBT1E223ZF | 25V 0.022U | | | | | | |
| C655 | RCE0JKA221BV | 6.3V 220U | | | | | | |
| C701 | ECBT1E103ZF | 25V 0.01U | | | | | | |
| C702 | ECQE2104KF3 | 250V 0.1U | | | | | | |
| C703, 704 | ECES56V472NX | 56V 4700U (E, EB, EG, EP) Δ | | | | | | |
| C703, 704 | ECES75V752UX | 75V 7500U (G, GN) Δ | | | | | | |
| C705, 706 | ECA1VM472B | 50V 4700U (E, EB, EG, EP) Δ | | | | | | |
| C705, 706 | ECA1M222B | 50V 2200U (G, GN) Δ | | | | | | |
| C707 | RCE1VM101BV | 35V 100P | | | | | | |
| C708 | ECKR1H103ZF5 | 50V 0.01U | | | | | | |
| C709 | ECEA1CKA330B | 16V 33U | | | | | | |
| C710 | ECBT1E103ZF | 25V 0.01U | | | | | | |
| C711 | ECKR1H103ZF5 | 50V 0.01U | | | | | | |
| C712 | ECA1M470B | 50V 47U | | | | | | |
| C713 | ECKR1H103ZF5 | 50V 0.01U | | | | | | |
| C716 | ECEA2AU100 | 100V 10U | | | | | | |
| C720 | ECEA1EKA220B | 25V 22U | | | | | | |
| C722 | ECQE2104KF3 | 250V 0.1U | | | | | | |
| C751 | ECKWNS102MBM | 400V 1000P Δ | | | | | | |
| C752 | ECKR1H103ZF5 | 50V 0.01U | | | | | | |
| C753 | ECA1EM102B | 25V 1000U Δ | | | | | | |
| C754 | ECBT1E103ZF | 25V 0.01U | | | | | | |
| C756 | ECBT1E103ZF | 25V 0.01U | | | | | | |
| C757 | ECEA1CKA470B | 16V 47U | | | | | | |
| C758 | ECEA1AKA101B | 10V 100U | | | | | | |
| C759 | ECEA1EKA220B | 25V 22U | | | | | | |
| C891 | ECFR1E392KR | 25V 3900P | | | | | | |
| C901 | ECA0JM102B | 6.3V 1000U | | | | | | |
| C902 | ECBTOJ223MS5 | 6.3V 0.022U (E, EB, EG, EP) | | | | | | |
| C902 | ECBT1E103ZF | 25V 0.01U (G, GN) | | | | | | |
| C903 | ECBT1E103ZF | 25V 0.01U | | | | | | |
| C904 | ECA0JM471B | 6.3V 470U | | | | | | |
| C906 | ECEA0JKA101B | 6.3V 100U | | | | | | |
| C908, 909 | ECBT1E103ZF | 25V 0.01U | | | | | | |
| C911, 912 | ECEA2AU100 | 100V 10U | | | | | | |

REPLACEMENT PARTS LIST

Notes: *Important safety notice:

Components identified by Δ mark have special characteristics important for safety.

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

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

*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 | Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|------------------------------|--------------------|----------|-------------|----------------------------|------------------------------|
| | | PACKING MATERIAL | | A1 | RQF2297 | INSTRUCTION MANUAL ASS'Y | (EP) |
| | | | | A2 | RJA0019-2K | AC POWER SUPPLY CORD | (E, EG, EP, G) Δ (SF) |
| | | | | A2 | VJAO733 | AC POWER SUPPLY CORD | (EB) Δ (SF) |
| | | | | A2 | RJAO036-K | AC POWER SUPPLY CORD | (GN) Δ (SF) |
| P1 | RPG2062 | PACKING CASE | (E, EG, EP, G, GN) | A3 | RSA0007 | FM INDOOR ANTENNA | |
| P1 | RPG2063 | PACKING CASE | (EB) | A4 | RSA0010 | AM LOOP ANTENNA SET | |
| P2 | RPNO752 | CUSHION | | A4-1 | RMND244 | AM ANTENNA HOLDER | |
| P3 | RPQ0164 | PAD (ACCESSORIES) | | A4-2 | XTN3+10AFZ | SCREW | |
| P4 | XZB24X34C04 | PROTECTION BAG (ACCESSORIES) | | A5 | RQCB0169 | SERVICENTER LIST | (E, EB, EG, G, GN) |
| P5 | XZB60X65A01Z | PROTECTION BAG (UNIT) | | A6 | RQA0013 | WARRANTY CARD | (E, EB, EG) |
| P6 | RPH0032 | PROTECTION SHEET | (EB, GN) | A6 | RQX7433ZA | WARRANTY CARD | (GN) |
| | | ACCESSORIES | | A7 | RAK-SA113XH | REMOTE CONTROL TRANSMITTER | |
| | | | | A7-1 | RKK0057-K | BATTERY COVER | FOR R/C TRANSMITTER |
| A1 | RFKSAGX170E | INSTRUCTION MANUAL ASS'Y | (E) | A8 | SJP9009 | ATTACHMENT PLUG | (EB) Δ |
| A1 | RFKSAGX170G | INSTRUCTION MANUAL ASS'Y | (G) | A9 | RFE0014 | ANTENNA PLUG | (G, GN) |
| A1 | RQT2458-B | INSTRUCTION MANUAL | (EB, GN) | A10 | RQLA0134 | VOLTAGE CAUTION LABEL | (G) |
| A1 | RQT2456-D | INSTRUCTION MANUAL | (EG) | A11 | SJP5213-1 | POWER PLUG ADAPTOR | (G) Δ |

PACKAGING

