*The colors of this model include silver and black.

*The black type model is provided with (K) in the Service Manual.

Please use this manual together with the service manual for Model No. SA-1010, Order No. SD83062585C1.

**CHANGES**

### Specifications

**[M]**

- **FM TUNER SECTION**
  - Frequency range: 87.9~107.9MHz

- **AM TUNER SECTION**
  - Frequency range: 530~1620kHz

- **GENERAL**
  - Power consumption: 430W, 550VA
  - Power supply: AC120V, 60Hz
  - Weight: 14.6 kg (32.2 lb.)

**[PA, PE, PC]**

- **FM TUNER SECTION**
  - Frequency range: 87.50~108.00MHz
  - 87.525~108.025MHz (+25kHz shift)

- **AM TUNER SECTION**
  - Frequency range: 522~1611kHz (9kHz step)
  - 530~1620kHz (10kHz step)

- **GENERAL**
  - Power consumption: 600W
  - Power supply: AC 50Hz/60Hz, 110V/120V/220V/240V
  - Weight: 15.8 kg (34.8 lb.)

### LOCATION OF CONTROLS (Addition Only)

- **AM allocation selector (S38)**
  - (9kHz step ↔ 10kHz step)

- **Voltage selector (S16)**
  - (110 ↔ 120 ↔ 220 ↔ 240V)
## REPLACEMENT PARTS LIST

### Notes:
1. Mentioned in this parts list are only those changed in Model No. SA-1010 for destination [M] area.
2. Important safety notice:
   - Components identified by △ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. The "S" mark is service standard parts and may differ from production parts.
4. "K" marked parts are used for black type only, while "O" marked parts are for silver type only.
5. Parts other than "K" and "O" marked are used for both black and silver types.

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Change of Part No.</th>
<th>Part Name &amp; Description</th>
<th>Per Set (Pcs.)</th>
<th>Remarks</th>
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<td>SA-1010 [M]</td>
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<tr>
<td>△ G914</td>
<td>Addition 2SC1328-T</td>
<td>Transistor (Product Part is 2SC828-R)</td>
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<td></td>
<td>SA-1010 [PA,PE,PC,K-PC]</td>
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</tbody>
</table>

### TRANSISTOR

| D932     | LN31GCPHLG          | Diode, Signal Strength (3) | 1              |         |
|          | LN31GCPHLG          | Diode, Signal Strength (3) | 1              |         |
| D932     | MA162A              | Diode                     | 1              |         |
| D933,939,940 | Addition MA162A | Diode                     | 3              | S       |
| D935     | MA1110L             | Deletion                  | 0              |         |

### DIODES

### TRANSFORMER

| T1       | SLT5Q131            | Power Source              | 1              | △       |

### FUSES

| F1       | XBA1F70NU14         | 250V, T6.3A               | 1              | △       |
| F2       | XBA1F20NU14         | 250V, T2A                 | 1              | △       |
| F3       | Addition XBA2C31TR0 | 250V, T3.15A              | 1              | △       |

### FLUORESCENT DISPLAY TUBE

| FL       | SAD8MT07B3          | FL Tube (Silver)          | 1              |         |
|          | SAD8MT17B3          | FL Tube (Black)           | 1              |         |

### SWITCHES

| S16      | Addition ESE37200   | Voltage Selector          | 1              | △       |
| S38      | Addition SSS43      | Allocation                | 1              |         |

### RESISTORS

| R232     | ERD25FJ103          | Carbon, 15kΩ, 1/4W, ±5%   | 1              | S       |
| R701     | ERC122GK335         | Deletion                  | 0              |         |
| R911     | ERD25FJ103          | Deletion                  | 0              |         |
| R912     | ERD25FJ102          | Deletion                  | 0              |         |
| R941     | ERD25TJ683          | Carbon, 1kΩ, 1/4W, ±5%    | 1              | S       |
| R942     | ERD25TJ224          | Carbon, 47kΩ, 1/4W, ±5%   | 1              | S       |
| R943     | ERD25TJ683          | Carbon, 10kΩ, 1/4W, ±5%   | 1              | S       |
| R946     | ERD25TJ333          | Carbon, 33kΩ, 1/4W, ±5%   | 1              | S       |
| R947,948 | Addition ERD25TJ104 | Carbon, 100kΩ, 1/4W, ±5%  | 2              | S       |
| R949     | Addition ERD25TJ273 | Carbon, 27kΩ, 1/4W, ±5%   | 1              | S       |
| R972     | ERD25TJ104          | Deletion                  | 0              |         |

### CAPACITORS

| C625,626 | ECQM1H473KV         | Polyester, 50V, 0.1μF     | 2              |         |
| C627,628 | Addition ECQM1H104KV| Polyester, 50V, 0.1μF     | 2              |         |
| C931     | ECEA50Z1            | Ceramic, 16V, 0.01μF      | 1              |         |
## Change of Part No.

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<td>SDU197-1</td>
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<td>RJA9Y</td>
<td>RJA52Z</td>
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<td>55</td>
<td>Addition</td>
<td>SHR5025-1</td>
<td>Spacer, Allocation Switch</td>
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## SCREWS and WASHERES

| N17     | XTB4+8BFN | XTB4+8BFN | + 4 x 8 (Silver) | 8  |         |
|         | [K]       | XTB4+8BFZ | + 4 x 8 (Black)  | 8  |         |
| N26     | Addition  | XSN3+6FZS | Allocation Switch, + 3 x 6 | 2  |         |
| N27     | Addition  | XWA3BFZ  | Allocation Switch, φ3 | 2  |         |
| N28     | Addition  | XSN26+6BV | Voltage Selector, + 2.6 x 6 | 2  |         |
| N29     | Addition  | XWA26BFZ | Voltage Selector, φ2.6 | 2  |         |

## PACKING PART

| P5      | SPP707    | SPP707 | Polyethylene Sheet (Silver type) | 1 |         |
|         | [K] SPP655 |         | (Black type)                     | 1 |         |

## ACCESSORIES

| A6      | SOF11735 PA,PE | SOF11843 | Instruction Book (For PA, PE area) | 1 |         |
|         | [PC] SOF11843-1 |         |                                    | 1 |         |
| A7      | Addition      | SJP9215 | Plug Adaptor                       | 1 |         |

### EXPLODED VIEW

(Addition Only)

![Voltage Selector (S16)](image)

![Allocation Switch (S38)](image)

![Rear Panel](image)
■ FM/AM Tuner Circuit

■ Analog Meter Scale Control Circuit
■ Power Source Circuit

■ FM/AM Preset Tuning Circuit
Specifications

AMPLIFIER SECTION

Rated minimum sine wave RMS power output
20 Hz~20 kHz both channels driven
0.003% total harmonic distortion
120W per channel (8 ohms)

1 kHz continuous power output
both channels driven
0.003% total harmonic distortion
125W per channel (8 ohms)

Dynamic headroom
1.1 dB (8 ohms)

Total harmonic distortion
rated power at 20 Hz~20 kHz
0.003% (8 ohms)
half power at 20 Hz~20 kHz
0.003% (8 ohms)
half power at 1 kHz
0.001% (8 ohms)

SMITE intermodulation distortion
0.01% (8 ohms)

Frequency response
PHONO RIAA standard curve ±0.2 dB
AUX/CD/VIDEO, GRAPHIC EQ, TAPE 1, 2/EXT 3 Hz~100 kHz, ~3 dB

Input sensitivity
PHONO MM 0.23 mV (2.5 mV, IHF '66)
MC 14 µV (150 µV, IHF '66)
AUX/CD/VIDEO, GRAPHIC EQ, TAPE 1, 2/EXT 14 mV (150 mV, IHF '66)

S/N (IHF, A)
PHONO MM 73 dB (87 dB, IHF '66)
MC 72 dB (70 dB, 250 µV INPUT '66)
AUX/CD/VIDEO, GRAPHIC EQ, TAPE 1, 2/EXT 75 dB (90 dB, IHF '66)

Maximum input voltage
PHONO MM 150 mV (170 mV, 1 kHz)
MC 10 mV (10 mV, 1 kHz)

Input impedance
PHONO MM 47 kilohms
MC 47 ohms
AUX/CD/VIDEO, GRAPHIC EQ, TAPE 1, 2/EXT 15 kilohms

Tone controls
BASS 50 Hz, +10 dB~−10 dB
TREBLE 20 kHz, +10 dB~−10 dB
Subsonic filter
30 Hz, −6 dB/oct.
High filter
7 kHz, −6 dB/oct.

 Loudness control (volume at −30 dB)
50 Hz, +9 dB
AF muting
−20 dB

Low frequency damping factor
56 (8 ohms)
28 (4 ohms)

Load impedance
MAIN or REMOTE 4~16 ohms
MAIN and REMOTE 8~16 ohms

FM TUNER SECTION

Frequency range
87.9~107.9 MHz
Sensitivity
10.8 dBf (1.9 µV, IHF '55)
50 dB quieting sensitivity
MONO 13.7 dBf (2.7 µV, IHF '55)
STEREO 37.2 dBf (39.7 µV, IHF '55)

Total harmonic distortion
100 Hz 0.05% (MONO), 0.15% (STEREO)
1 kHz 0.05% (MONO), 0.08% (STEREO)
6 kHz 0.1% (MONO), 0.15% (STEREO)

S/N
MONO 78 dB
STEREO 72 dB

Frequency response
20 Hz~15 kHz, +0.2 dB, −0.8 dB

Alternate channel selectivity
normal 55 dB (±400 kHz)
super narrow 80 dB (±300 kHz)
super narrow 25 dB (±200 kHz)

Capture ratio
1.0 dB

Image rejection at 98 MHz 80 dB
IF rejection at 98 MHz 100 dB
Spurious response rejection at 98 MHz
AM suppression 55 dB
MEASUREMENTS AND ADJUSTMENTS

AMPLIFIER ADJUSTMENT

1. Adjustment of Load Impedance Detection Circuit (after repairing the speaker impedance detection circuit). [Fig. 13]
   (1) Connect a load with 6.7Ω (1/2W, carbon, resistor) or series connected 3.3Ω and 3.3Ω (1/2W, ±5%) to the "main" speaker terminals.
   (2) Set the speaker selector to the "main" position.
   (3) Connect TP753 and chassis.
   (4) Connect a DC voltmeter between TP751 and chassis (L ch.) or TP752 and chassis (R ch.)
   (5) Adjust VR752 (L ch.) so that the voltage of TP751 is 0mV (-200mV ~ +50mV)
   (6) Adjust VR751 (R ch.) so that the voltage of TP752 is 0mV (-200mV ~ +50mV)

   NOTE:
   Be sure to adjust VR752 (L ch.) after adjusting VR751 (R ch.)

2. Idling (ICQ) Adjustment (after repairing the main amp.) [Fig. 14]
   (1) After the repair, set the sound volume to minimum before turning on the power switch, and connect nothing to the speaker terminals.
   (2) Completely turn ICQ control (VR601, VR602) counter-clockwise.
   (3) Increase the voltage applied to the amplifier gradually from 0V by means of a power supply voltage controller, and make sure of the value in the Figure on page 4 before starting the adjustment.
   (4) Connect the DC electronic voltmeter to TP1 (+) and TP2 (-) (L ch.) or TP3 (+) and TP4 (-) (R ch.)
   (5) When 5 or 15 seconds have lapsed after computer drive monitor "auto" lights up, adjust VR601 (L ch.) or VR602 (R ch.) to 8 ~ 12mV.
   * In this set, ICQ is controlled by microcomputer, and ICQ a little more than the normal level is applied by "PREHEAT" for about 15 sec. after power ON. After that, the output level and transistor temperature are detected by "AUTO", thereby automatically controlling ICQ.

3. Clock Adjustment (after replacing the microcomputer)
   (1) Connect the oscilloscope to TP801.
   (2) Adjust VR801 so that period of waveform is 2.5μsec (Refer to Fig. 15).

---

[Fig. 13] Adjustment of load impedance detection circuit

[Fig. 14] Idling (ICQ) adjustment

[Fig. 15] Clock adjustment
**AM ADJUSTMENT**

Note: AM IFT (T201) and AM OSC coil (L203) have been already adjusted, and require no adjustment.

* Setting and Equipment used
1. AC electronic voltmeters (VTVM).
2. AM signal generator (AM-SG).
3. Set Band selector to “AM” position.
4. Maintain line voltage at 120 voltage,
5. Output of signal generator should be no higher than necessary to obtain an output reading.
6. Use a non-metal screwdriver for the adjustment.

<table>
<thead>
<tr>
<th>AM SIGNAL GENERATOR</th>
<th>DISPLAY FREQUENCY</th>
<th>PREPARATIONS</th>
<th>PARTS ADJUSTED</th>
<th>ADJUSTING PROCEDURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONNECTION</td>
<td>FREQUENCY</td>
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<td>Step No.</td>
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<tr>
<td>1</td>
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<tr>
<td>Connect AM-SG to AM antenna terminal through 200pF capacitor, Common to chassis. (Powerful input) (Refer to Fig. 16)</td>
<td>450 kHz (30% Mod. with 400 Hz)</td>
<td>Frequency of non-interference</td>
<td>Connect AC VTVM or scope to “speaker” terminals.</td>
<td>T202 (AM 1st IFT)</td>
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<td>2</td>
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</tr>
<tr>
<td>Connect AM-SG to AM antenna terminal through 200pF capacitor, Common to chassis. (Weak input) (Refer to Fig. 16)</td>
<td>612 kHz (30% Mod. with 400 Hz)</td>
<td>612 kHz</td>
<td>Connect AC VTVM or scope to “speaker” terminals.</td>
<td>L202 (ANT Coil)</td>
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<tr>
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<tr>
<td>1503 kHz (30% Mod. with 400 Hz)</td>
<td>1503 kHz</td>
<td>Connect AC VTVM or scope to “speaker” terminals.</td>
<td>CT201 (ANT Trimmer)</td>
<td>1. Adjust for maximum output. 2. Adjust core of L202 by screwdriver. 3. Repeat steps (2) and (3) until the frequency correctly matches the frequency display. 4. Adjust for maximum output. 5. Set Band selector to “AM” position. 6. Use a non-metal screwdriver for the adjustment.</td>
</tr>
</tbody>
</table>
### FM ADJUSTMENT

**Setting and Equipment used**
1. FM signal generator (FM-SG).
2. Distortion analyser.
3. Oscilloscope.
4. DC electronic voltmeters (VTVM).
5. Frequency counter (19 kHz and 108 MHz measurable).
6. Set band selector to "FM" position.
7. Set FM mode selector to "FM mono" position.
8. Other setting are the same as in AM adjustment.

**Preparation of FM signal generator (FM-SG)**
1. Connect stereo modulator to FM-SG.
2. Apply SG output to antenna terminal of the set.
3. The standard output of the set is 60 dB (1 mV), 400 Hz, 100% modulation (Because of attenuation, using coaxial cables. SG output must be 6 dB plus. That is, when input 60 dB, SG output is to be 66 dB.)

<table>
<thead>
<tr>
<th>Step No.</th>
<th>CONNECTION</th>
<th>FREQUENCY</th>
<th>DISPLAY</th>
<th>FREQUENCY</th>
<th>PREPARATIONS</th>
<th>PARTS ADJUSTED</th>
<th>ADJUSTING PROCEDURE</th>
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<tr>
<td>4</td>
<td>Connect FM-SG to FM antenna terminal referring to Fig. 17. (Apply 60 dB to antenna terminal)</td>
<td>100.1 MHz (100% Mod. with 400 Hz)</td>
<td>100.1 MHz</td>
<td>Connect DC VTVM to between TP202 and TP203 through choke coil. (Refer to Fig. 17)</td>
<td>T203 (Discr. IFT)</td>
<td></td>
<td>1. Adjust T203 core so that voltage measured the signal mode is 0 mV (±50mV) in 300mV range. 2. Adjust T204 core so that distortion of right and left channels are minimized.</td>
</tr>
<tr>
<td>5</td>
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<td>100.1 MHz (100% Mod. with 400 Hz)</td>
<td>Connect distortion analyser to &quot;speaker&quot; terminal of the set.</td>
<td>T204 (Discr. IFT)</td>
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**FM MONO DISTORTION ADJUSTMENT**

**FM MPX V.C.O. ADJUSTMENT**

### USING A FREQUENCY COUNTER
1. 100 MHz, 60 dB Non-modulated mono signal applied to set.
2. Set FM muting/FM mode selector to "on/FM auto" position.
3. Connect frequency counter to TP201 through resistor (100kΩ) capacitor (50V 1µF) referring to Fig. 18.
4. Adjust VR301 to 19 kHz ± 30 Hz.

### USING ALTERNATE SYSTEM
1. Apply stereo signal from generator or stereo station to tuner.
2. Adjust VR301 until stereo indicator lights up. Cement arm of VR301 as shown in Fig. 19.

**MUTING ON LEVEL ADJUSTMENT**

<table>
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<th>DISPLAY</th>
<th>FREQUENCY</th>
<th>PREPARATIONS</th>
<th>PARTS ADJUSTED</th>
<th>ADJUSTING PROCEDURE</th>
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<td>7</td>
<td>Connect FM-SG to FM antenna terminal (Apply 18 dB to antenna terminal)</td>
<td>100.1 MHz (100% Mod. with 1 kHz)</td>
<td>100.1 MHz</td>
<td>Connect Oscilloscope to &quot;speaker&quot; terminal.</td>
<td>VR201 (Muting on level)</td>
<td></td>
<td>1. Set FM mode selector to &quot;FM auto&quot; position. 2. Adjust VR201 so that signal output is delivered. (Check to see that no delay of output is discontinued with input level lowered by 1 ~ 2 dB.)</td>
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**SIGNAL STRENGTH LEVEL ADJUSTMENT**

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<th>DISPLAY</th>
<th>FREQUENCY</th>
<th>PREPARATIONS</th>
<th>PARTS ADJUSTED</th>
<th>ADJUSTING PROCEDURE</th>
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<td>8</td>
<td>Connect FM-SG to FM antenna terminal. (Apply 54 dB to antenna terminal.)</td>
<td>100.1 MHz (100% Mod. with 400 Hz)</td>
<td>100.0 MHz</td>
<td>VR202 (Signal strength level)</td>
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<td>1. Depress FM signal switch and make sure the digital frequency display changes from frequency to signal level display. 2. Adjust VR202 so that 54 dB is indicated. 3. Make sure that the signal strength level is 22 ~ 36 dB when the input is 30 dB.</td>
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**SEPARATION ADJUSTMENT**

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<th>DISPLAY</th>
<th>FREQUENCY</th>
<th>PREPARATIONS</th>
<th>PARTS ADJUSTED</th>
<th>ADJUSTING PROCEDURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Connect FM-SG to FM antenna terminal. (Apply 60 dB to antenna terminal.)(Pilot 10% Mod. stereo signal.)</td>
<td>100.1 MHz (90% Mod. with 1 kHz mode) (L or R mode)</td>
<td>100.1 MHz</td>
<td>Connect AC VTVM or oscilloscope to &quot;speaker&quot; terminals.</td>
<td>VR302 (Separation)</td>
<td></td>
<td>1. Set mode switch to &quot;auto&quot; position. 2. Adjust VR302 so that R output is minimized when stereo modulator is in L (L ch. mod. signal) mode and that L output is minimized in R mode.</td>
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**ANALOG FREQUENCY METER ADJUSTMENT**

<table>
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<th>DISPLAY</th>
<th>FREQUENCY</th>
<th>PREPARATIONS</th>
<th>PARTS ADJUSTED</th>
<th>ADJUSTING PROCEDURE</th>
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<td>10</td>
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<td>No-Signal</td>
<td>107.9 MHz</td>
<td>VR901 (Frequency meter)</td>
<td></td>
<td></td>
<td>1. Adjust VR901 so that the analog frequency meter indicates 107.9 MHz. (Refer to Fig. 20) 2. Next operate the tuning button so that 88.1 MHz and 98.1 MHz are indicated in the digital frequency display. Then make sure that the indicator is in contact with each letter. 3. If the requirement in step 2 is not satisfied, go back to step 1 and adjust the indicator within the dotted line of Fig. 20.</td>
</tr>
</tbody>
</table>

**Fig. 18**
- 10.83V with all volume indicators turned ON.
- 0V with all volume indicators turned OFF.

- 10.95V with all volume indicators turned ON.
- 0V with all volume indicators turned OFF.

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**SCHEMATIC DIAGRAM**

(Equalizer/input selector control/volume control/loudness control/dimension control)

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

* The part No. of transistors, IC and diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. with a black mark, the production part No. are different from the replacement part No. Therefore, when placing an order for replacement parts, please use the part No. in the replacement parts list.

**Note 2**

1. S1-1, S1-2 : Audio muting switch in "0dB" position.
   0dB ↔ 20dB
2. S2-1, S2-2 : Loudness switch in "off" position.
   off ↔ on
3. S3-1 ~ S3-6 : Equalizer recording mode switch in "straight" position.
4. S4-1 ~ S4-4 : Equalizer switch in "EQ" position.
5. S5-1 ~ S5-3 : Tape monitor selector switch in "source" position.
   source ↔ tape1/dubbing 1 2
6. S6-1 ~ S6-3 : Tape monitor selector switch in "source" position.
   source ↔ tape2/ext.
7. S7-1, S7-2 : Phono cartridge selector switch in "MM" position.
   MM ↔ MC
8. S8-1 ~ S8-2 : Dimension control on/off switch in "off" position.
   off ↔ on
   defeat ↔ on
10. S10-1, S10-2 : High-cut filter switch in "off" position.
    off ↔ on
12. Indicated voltage values are the standard values for the DC electronic circuit tester (high impedance) with the ground point taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester (high tap).
13. Phono signal lines
14. Positive (+B) voltage lines
15. Negative (−B) voltage lines

**IMPORTANT SAFETY NOTICE**

The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.
Temperature det. 70°C (158°F)

To P.C.B G

Temperature det. 70°C (158°F)

To P.C.B J

Rch. signal
Lch. signal

-15.3V

-15.3V

-15.3V

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