TA-F555ES II

SERVICE MANUAL

US Model
AEP Model

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 150 watts per channel minimum RMS power, with no more than 0.006% total harmonic distortion from 250 milliwatts to rated output.

With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 120 watts per channel minimum RMS power, with no more than 0.004% total harmonic distortion from 250 milliwatts to rated output.

Amplifier

Continuous RMS power output
(both channels driven simultaneously)
150 W + 150 W
(6 Ω, 20 Hz – 20 kHz, THD 0.006%)
120 W + 120 W
(8 Ω, 20 Hz – 20 kHz, THD 0.004 %)

Power bandwidth (IHF)
10 Hz – 100 kHz (6 Ω or 8 Ω, THD 0.02 %)

Dynamic headroom ('78 IHF)
1.5 dB (6 Ω)
1.2 dB (8 Ω)

Total harmonic distortion
0.004 % (6 Ω at 10 W output)
0.002 % (8 Ω at 10 W output)

Intermodulation (IM) distortion, 60 Hz : 7 kHz = 4 : 1
0.006 % (6 Ω at rated output)
0.004 % (8 Ω at rated output)

Damping factor 125 (8 Ω, 1 kHz)

Slew rate 125 V/μsec
250 V/μsec
(inside)

Dynamic range 120 dB (TUNER, CD, TAPE 1, 2, VIDEO 1, 2 (audio))

Channel separation (at 1 kHz)
80 dB (PHONO MC)
95 dB (PHONO MM)
100 dB (TUNER, CD, TAPE 1, 2, VIDEO 1, 2 (audio))

Residual noise 28 μV (network A)

Frequency response RIAA equalization curve ± 0.2 dB (PHONO MM)
2 Hz – 200 kHz $^{+0}_{-3}$ dB
2 Hz – 100 kHz $^{+0}_{-3}$ dB (G-AEP model)
(TUNER, CD, TAPE 1, 2, VIDEO 1, 2 (audio))

– Continued on page 2 –

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MICROFILM

INTEGRATED STEREO AMPLIFIER

SONY®

AUD

Input sensitivity/impedance
0.17 mV, 40 Ω (PHONO MC, 3 Ω)
0.17 mV, 100 Ω (PHONO MC, 40 Ω)
2.5 mV, 50 kΩ (PHONO MM)
150 mV, 50 kΩ (TUNER, CD, TAPE 1, 2, VIDEO 1, 2 (audio))

Maximum input capability (1 kHz)
9 mV (PHONE MC)
150 mV (PHONO MM)
(1 kHz, THD 0.003 %)

S/N (network)
73 dB*, 70 dB (A) (PHONO MC)
83 dB*, 87 dB (A) (PHONO MM)
102 dB*, 97 dB (A) (TUNER, CD, TAPE, 1, 2, VIDEO 1, 2 (audio))
*78 IHF

Output voltage impedance
150 mV, 1 kΩ (REC OUT 1, 2, VIDEO 1 (audio))
25 mW (at 8 Ω)
Accepts low and high impedance headphones. (HEADPHONES)

Tone controls
± 8 dB (turnover freq. 300 Hz) (BASS, at 60 Hz)
± 8 dB (turnover freq. 5 kHz) (TREBLE, at 25 kHz)

BASS BOOST +4 dB (at 50 Hz)
SUBSONIC filter 6 dB/octave attenuation below 15 Hz

Video
Input/output voltage 1 Vp-p
Input/output impedance 75 Ω

General
System
Preamplifier section: low-noise IC NF type equalizer amplifier
Power amplifier section: quasicomplementary SEPP OTL OCL power amplifier with all stages direct coupled

Power requirements
AEP model: 220 V ac, 50/60 Hz
US model: 120 V ac, 60 Hz

Power consumption
AEP model: 310 W
US model: 290 W

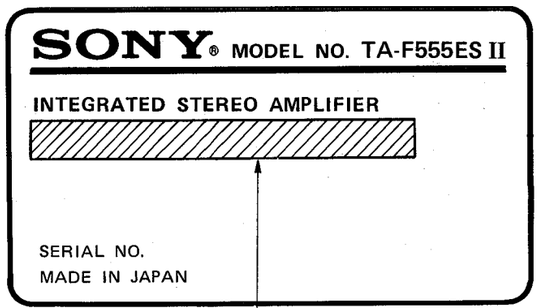
AC outlets
AEP model: 1 switched, 100 W max.
US model: 2 switched, total 100 W max., 2 unswitched, total 100 W

Dimensions
Approx. 430 x 135 x 425 mm (w/h/d) (17 x 5 3/8 x 16 3/4 inches) including projecting parts and controls

Weight
Approx. 15.1 kg (33 lbs 5 oz) net

MODEL IDENTIFICATION

– Specification Label –



US model: AC 120V ~ 60Hz 290W
AEP model: AC 220V ~ 50/60Hz 310W

SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

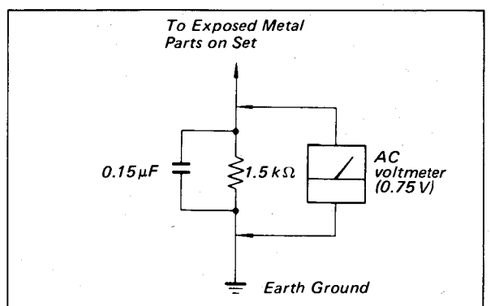


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
OUTLINE

1-1. FEATURES

A.C.T. (AUDIO CURRENT TRANSFER) TECHNOLOGY
With A.C.T. technology, which reduces interference and noise as low as possible, the 4 signals of right and left channels of the pre-amp and power amp sections are separated, obtaining the best performance at the normal listening level. (In the TA-F555ESII, the exclusively developed audio super Hi-f_T IC is employed.)

SUPER LEGATO LINEAR POWER AMPLIFIER STAGE
The operation of the power amplifier stage is stable without any observable distortion up through the higher frequencies. Because of its very low switching distortion, the output waveform is smooth.

POWERFUL POWER SUPPLY
Powerful transformers of 250 VA and 350 VA are respectively used in the power supply sections of the TA-F444ESII and TA-F555ESII to obtain rich sound. In addition, use of the ES filter together with the newly developed large chemical capacitor eliminates the power interference.

SELECTED AUDIO PARTS
A large heatsink and high-rigidity chassis are used to prevent thermal modulation distortion and vibration distortion, respectively. LC-OFC (Linear Crystal Oxion-free Copper) leads are used for internal wiring and speaker output coil. In addition, other audio parts are selected by frequent sound monitoring.

VARIOUS VIDEO OPERATIONS
This amplifier is equipped with 2 pairs of video jacks (one pair for playback/recording and one for playback) to allow you to perform various video operations.

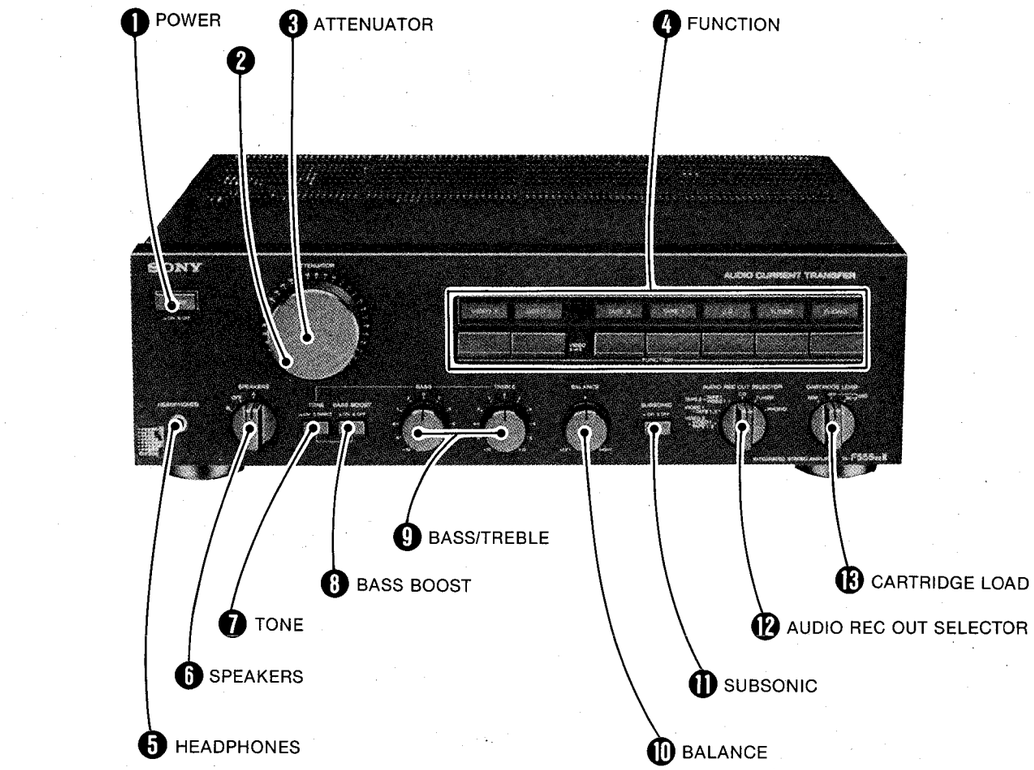
SPEAKER PROTECTION CIRCUIT
When a short circuit or DC component is detected at the speaker outputs, the power/standby indicator blinks in red and the built-in speaker protection circuit functions to protect the speakers.

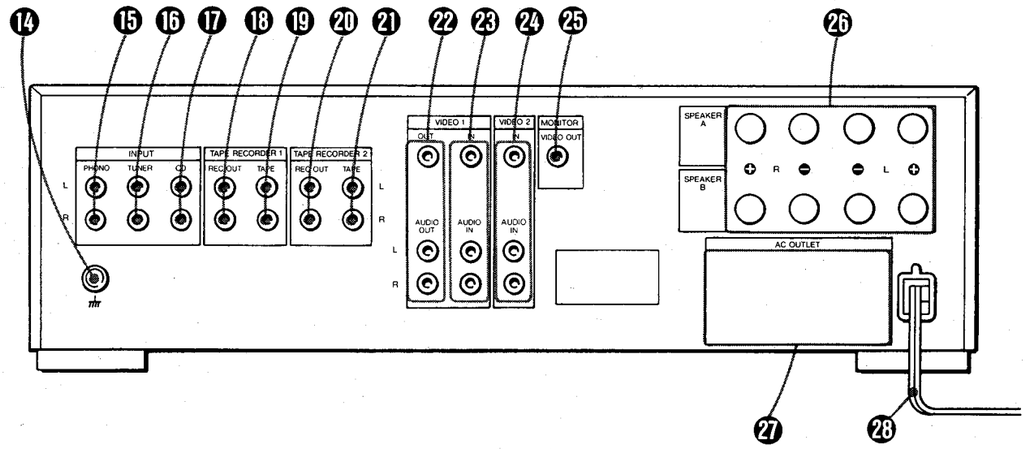
MUTING CIRCUIT
When the power is supplied, the power/standby indicator blinks in red and the muting circuit functions until the amplifier operation becomes stable.

CARTRIDGE SELECTOR
The high-gain equalizer amplifier stage accepts both MM (Moving-Magnet) and MC (Moving-Coil) cartridges.

AUDIO REC OUT SELECTOR SWITCH
With the AUDIO REC OUT SELECTOR switch, you can select the sound source to be recorded while listening to another audio source. This switch is also used to select tape (audio and video) dubbing and editing mode.

1-2. FUNCTION OF CONTROLS





Front panel

❶ POWER switch
Turns the operating power on or off.

❷ Power/standby indicator
When the power is turned on, the muting circuit activates and the indicator blinks in red. The indicator then lights up in green indicating that the unit is now in standby.
The indicator will also blink in red when the protection circuit is activated.

❸ ATTENUATOR knob
Regulates the overall sound level.
Turning the knob toward 0 increases the volume and turning it toward $-\infty$ decreases the volume. Be sure to lower the volume whenever you turn the amplifier on or off.

❹ FUNCTION buttons and indicators
Press to select the desired audio or video program source. Press another button to change the program. The indicator lamp above the pressed button will light up, indicating the program in use.

❺ HEADPHONES jack
Accepts any low or high impedance stereo headphones.
For headphone monitoring only, set the SPEAKERS selector to OFF.

❻ SPEAKERS selector
Selects speaker system A or B.

❼ TONE switch
Depress this switch (⏍ ON) when you adjust the tone controls or when you use the BASS BOOST switch. While you keep the switch released (⊓ DIRECT), the tone control circuits are completely disconnected from the signal path and a flat frequency response is obtained.

❽ BASS BOOST switch
Depress this switch (⏍ ON) when you are driving a speaker system such as a small bookshelf type system, which has a weak bass response.
When the BASS BOOST switch is to be used, be sure to first depress the TONE switch (⏍ ON).

❾ BASS and TREBLE tone controls
These knobs control the prominence of bass and treble response. Clockwise rotation increases response; counterclockwise rotation decreases it. Adjust the tone to the acoustic condition of the listening room or to your preference.
When these tone controls are to be used, be sure to first depress the TONE switch (⏍ ON).

❿ BALANCE control
Governs the amount of sound coming from each paired speaker to get optimum stereo effect.

⓫ SUBSONIC filter switch
If subsonic noise components created by warped records, etc. are present, the audible range frequencies may be modulated and cause irritating intermodulation distortion. In this case, depress the switch (⏍ ON) to reduce unwanted noise components in the program source. The filter will cut off any input signals below 15 Hz at a 6 dB-per-octave rate. Press the switch again to release it (⊓ OFF).

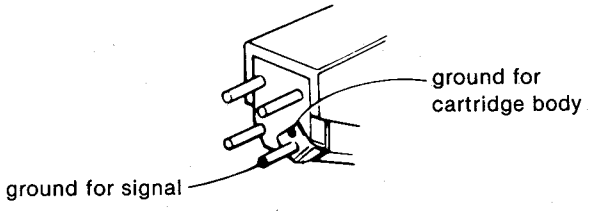
⓬ AUDIO REC OUT SELECTOR switch
Permits you to select the desired program source you want to record.
For tape dubbing or video editing, set this switch to appropriate position.

⓭ CARTRIDGE LOAD selector
Before you play a record, be sure to set the selector as follows:
Moving-Magnet (MM) type cartridge
Set the CARTRIDGE LOAD selector to MM.
Moving-Coil (MC) type cartridge
40 Ω: for a cartridge with an impedance of 40 ohms or more.
3 Ω: for a cartridge with an impedance in the 3 to 40 ohms range.

Rear panel

⓮ Ground terminal
To prevent hum, be sure to connect the ground wire of the turntable system to this ground terminal. If hum still exists, it may be helpful to connect the ground terminal directly to earth via a ground rod.

Note
In some particular MM cartridges, the ground for signal is connected to the ground for cartridge body. If this type of cartridge should be installed to a metal cartridge shell, current will flow through the tonearm ground in a loop and will cause hum noise. In this case, disconnect the turntable ground wire from the ⏚ terminal of the amplifier, or disconnect the ground for cartridge body from the ground for signal.



⑮ **PHONO inputs (phono jack)**

⑯ **TUNER inputs (phono jack)**

⑰ **CD inputs (phono jack)**

⑱ **TAPE RECORDER 1 REC OUT outputs (phono jack)**
Accept the inputs of a tape deck for recording.

⑲ **TAPE RECORDER 1 TAPE inputs (phono jack)**
Accept the line outputs of a tape deck for playback.

⑳ **TAPE RECORDER 2 REC OUT outputs (phono jack)**
Accept the inputs of a second tape deck for recording.

㉑ **TAPE RECORDER 2 TAPE inputs (phono jack)**
Accept the line outputs of a second tape deck for playback.

㉒ **VIDEO 1 OUT output and VIDEO 1 AUDIO OUT outputs (phono jack)**
VIDEO 1 OUT: Accepts the video input of a video recorder.
VIDEO 1 AUDIO OUT: Accept the audio inputs of a video recorder.

㉓ **VIDEO 1 IN input and VIDEO 1 AUDIO IN inputs (phono jack)**
VIDEO 1 IN: Accepts the video output of a video recorder.
VIDEO 1 AUDIO IN: Accept the audio outputs of a video recorder.

㉔ **VIDEO 2 IN input and VIDEO 2 AUDIO IN inputs (phono jack)**
VIDEO 2 IN: Accepts the video output of a TV tuner for multiple video source connection, a monaural video recorder or a second video recorder for video editing.
VIDEO 2 AUDIO IN: Accept the audio outputs of a TV tuner for multiple video source connection, a monaural video recorder or a second video recorder for video editing.

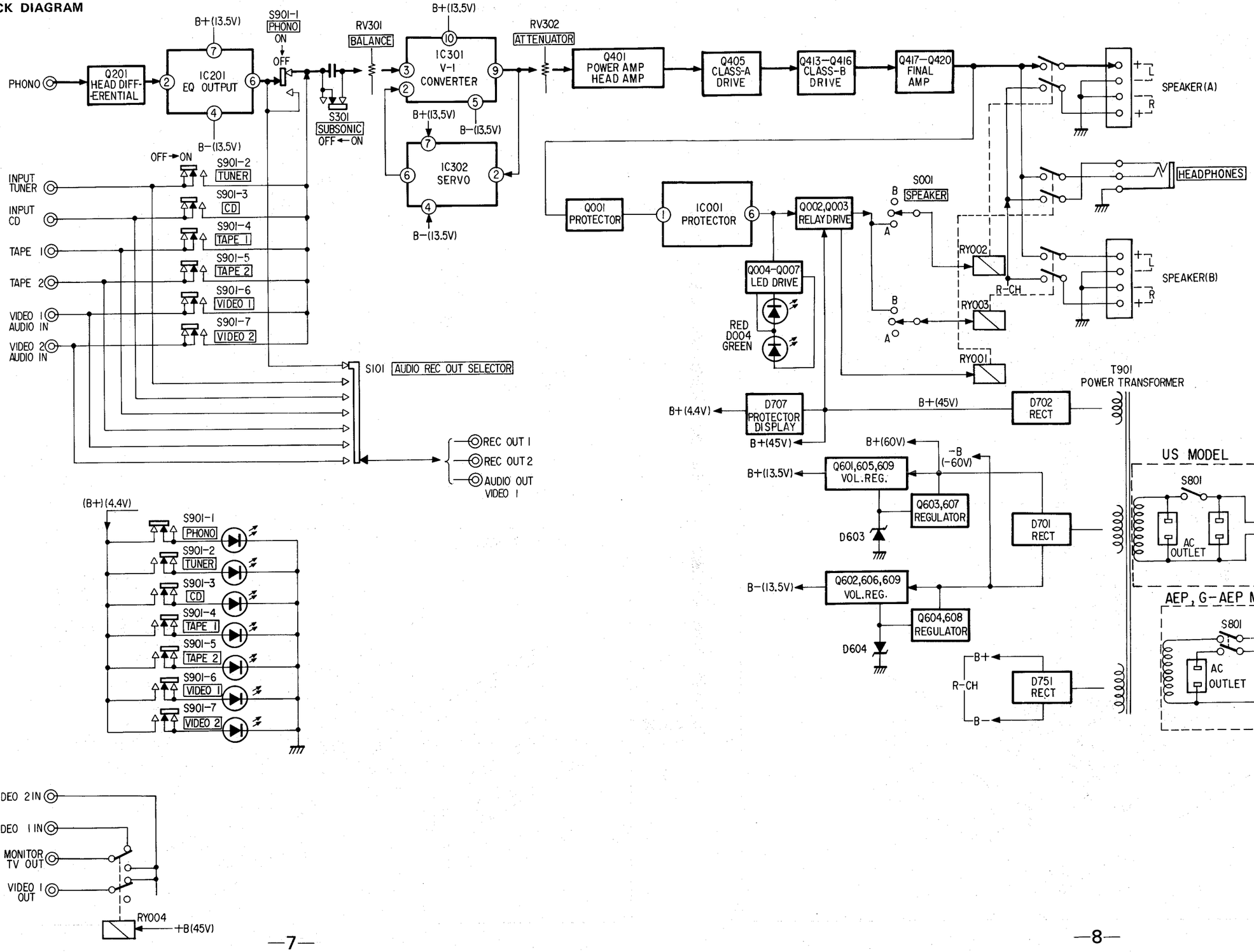
㉕ **MONITOR VIDEO OUT output (phono jack)**
Accepts the input of a color monitor.

㉖ **SPEAKER A, B connectors**
For connecting a speaker system or two pairs of speaker systems. System A and system B can be selected by means of the front panel SPEAKERS selector.

㉗ **AC OUTLETs**
These are used to power other audio components whose power consumption is less than the wattage indicated on the ac outlet.

㉘ **Power cord**

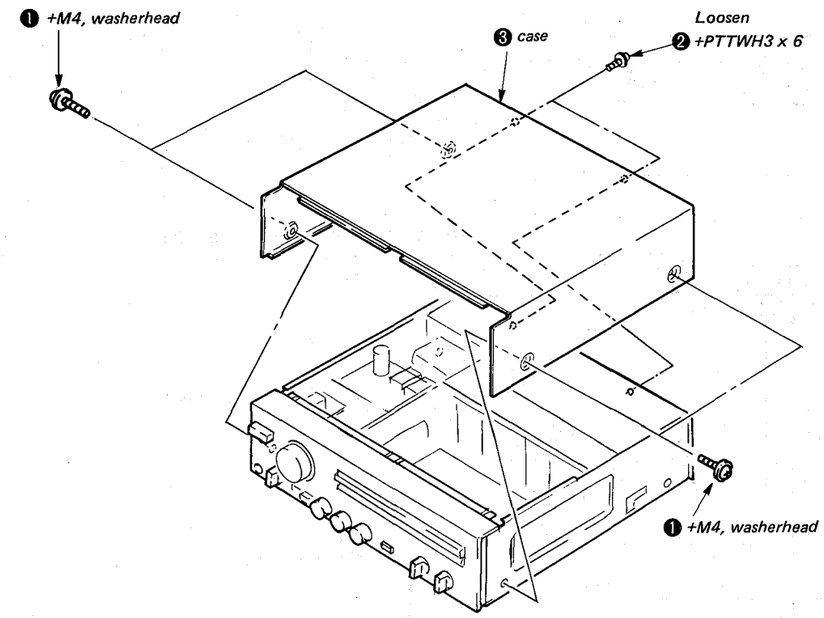
1-3. BLOCK DIAGRAM



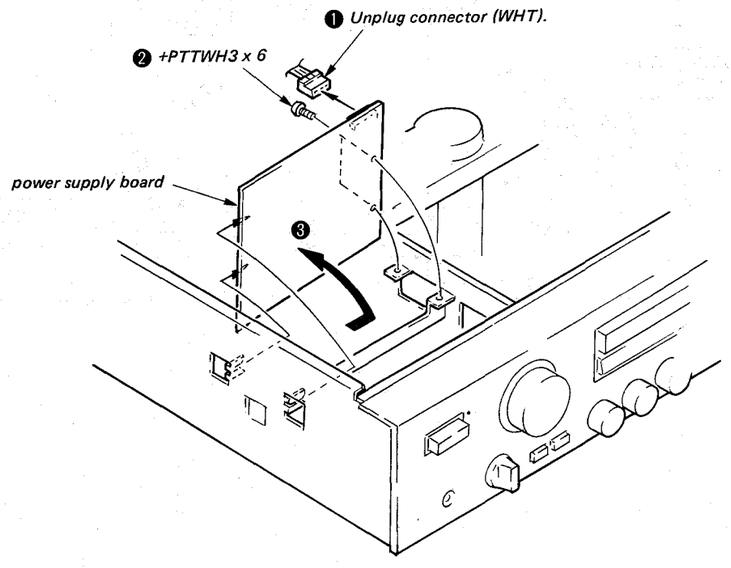
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

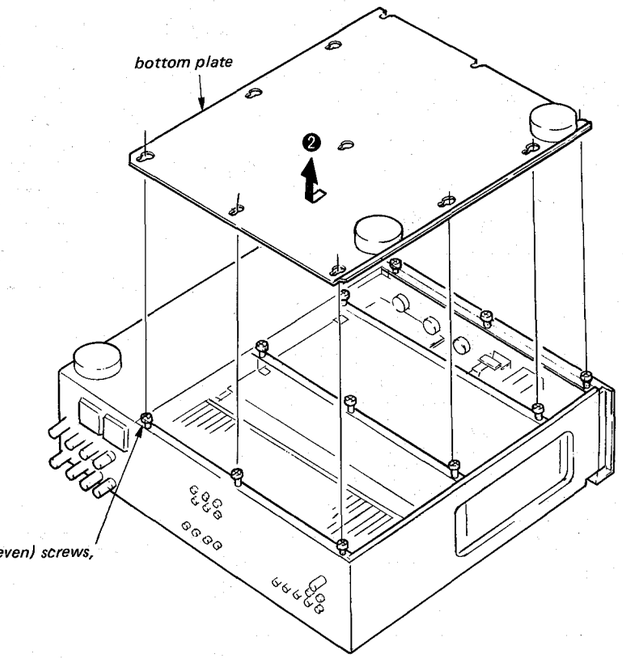
CASE REMOVAL



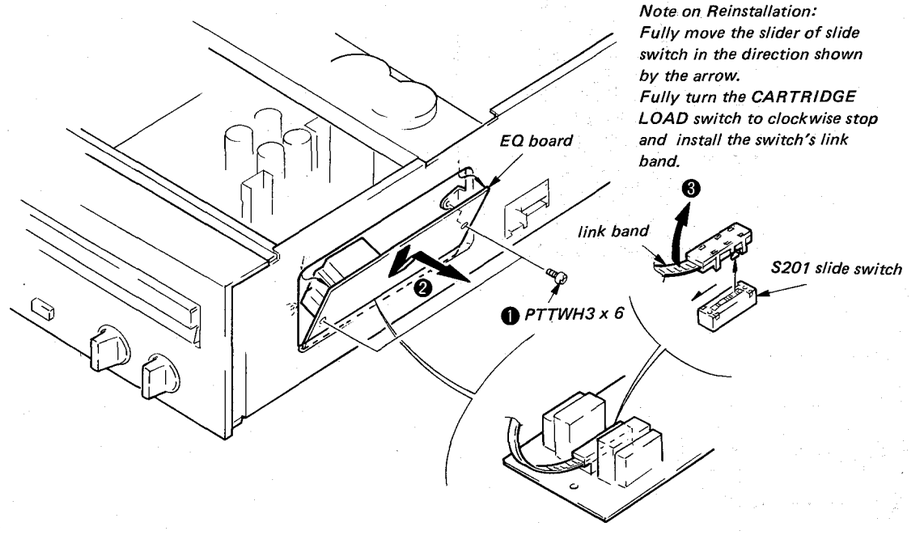
POWER SUPPLY BOARD REMOVAL



BOTTOM PLATE REMOVAL

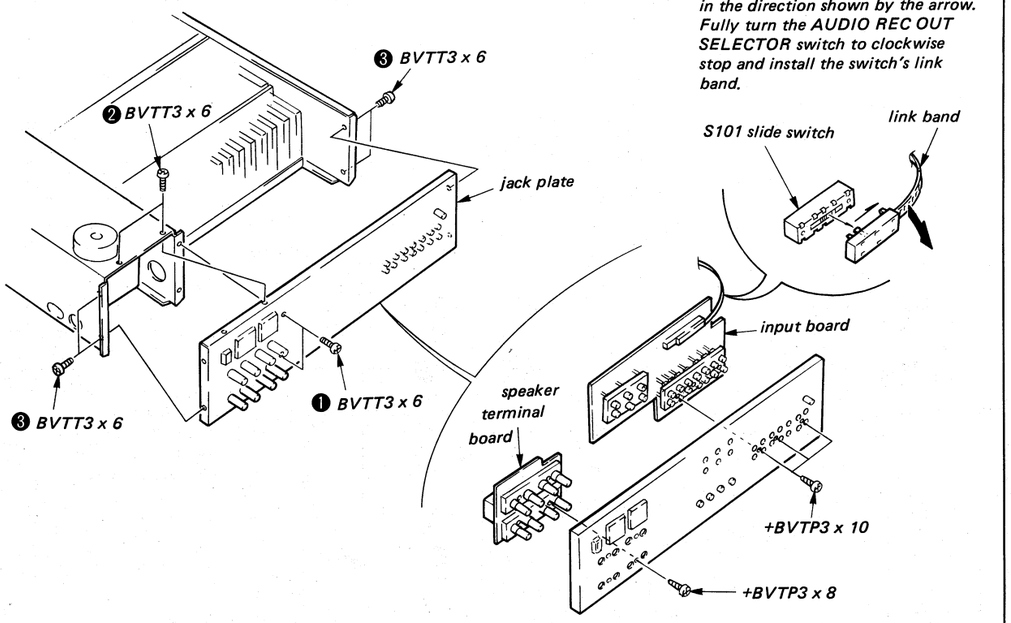


EQ BOARD REMOVAL

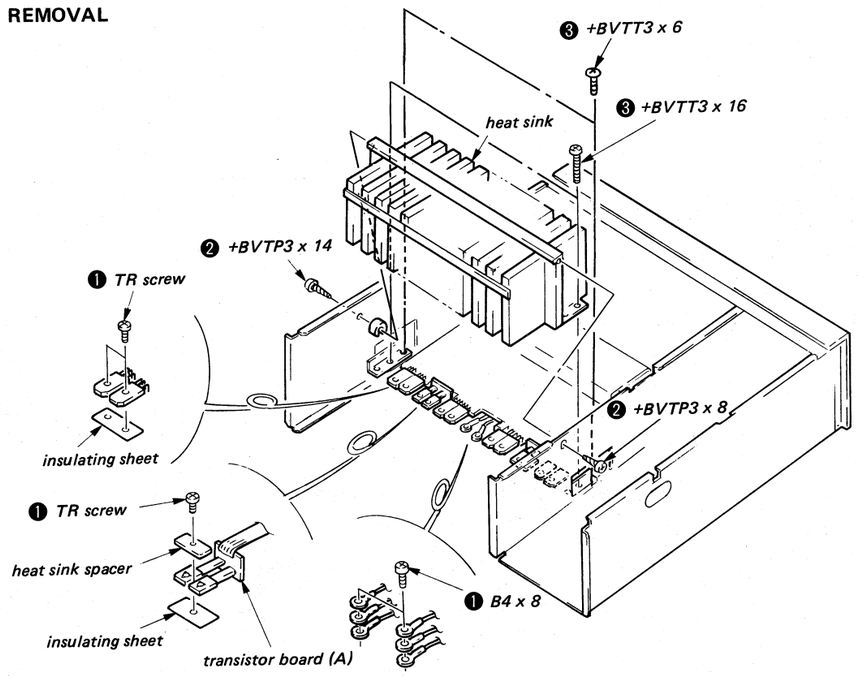


INPUT BOARD, SPEAKER TERMINAL BOARD REMOVAL

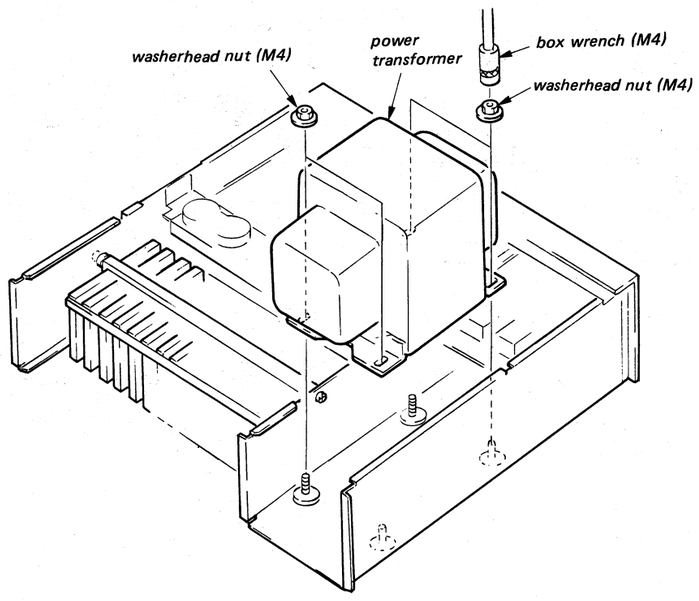
Note on Reinstallation:
Fully move the slider of slide switch in the direction shown by the arrow. Fully turn the AUDIO REC OUT SELECTOR switch to clockwise stop and install the switch's link band.



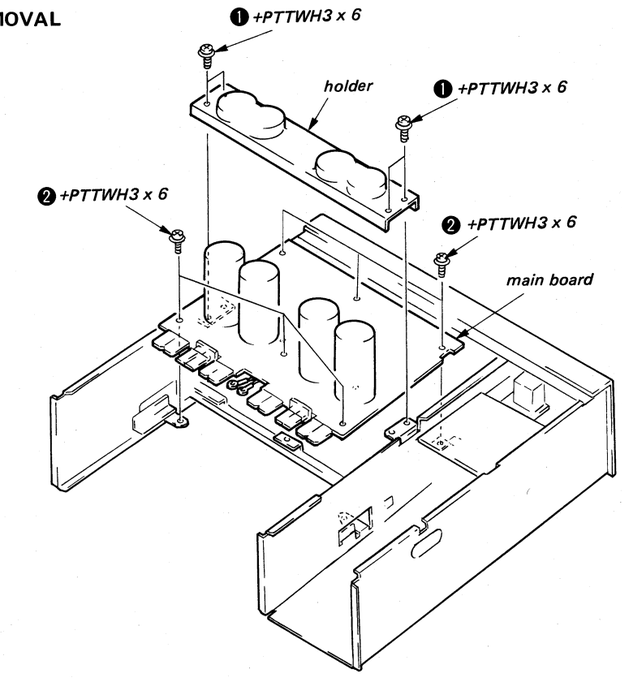
HEAT SINK REMOVAL

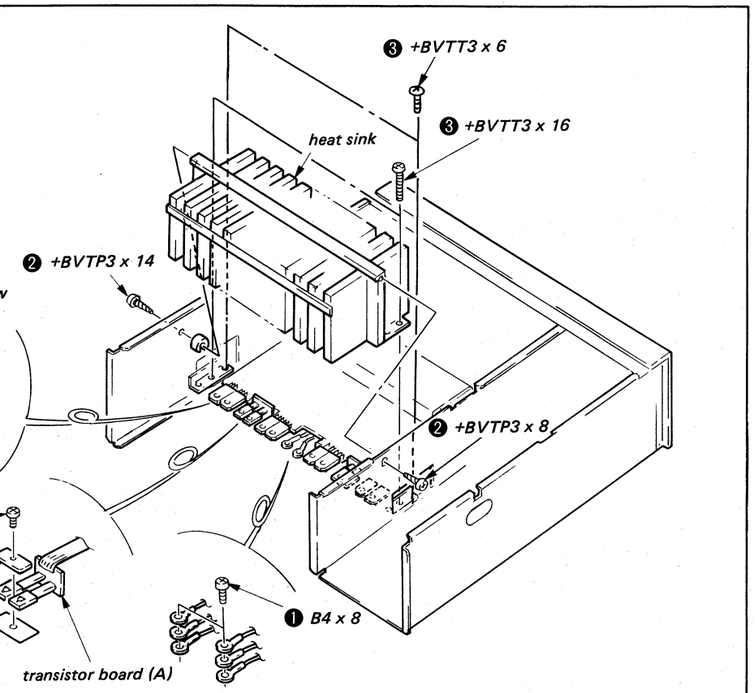


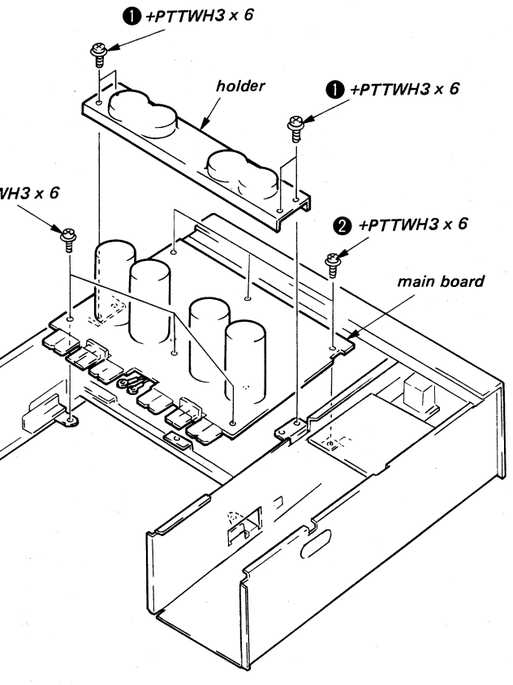
POWER TRANSFORMER REMOVAL



MAIN BOARD REMOVAL



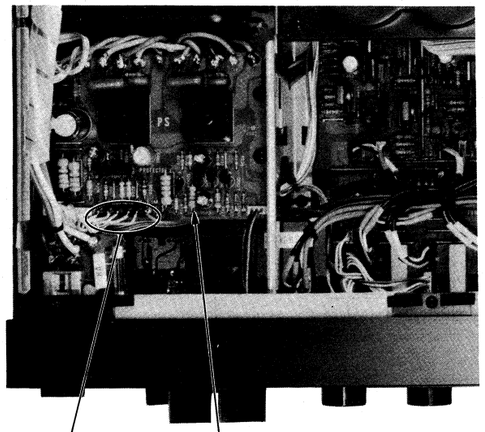




SECTION 3
ADJUSTMENTS

Precautions:

1. This unit requires about 20 – 30 minutes as a warming-up period to obtain a stable conditions before adjustments.
2. Unless otherwise specified, set the BALANCE, TREBLE and BASS controls/switch to their center click positions.
3. All the test points are located at the BIAS terminal on the power-supply board (centralized) as shown below.
4. Turn POWER off and fully discharge electricity from these high-capacity electrolitics as C711, C712, C761, C762 (10000μF), C607, C608, C657, C658 and C703 (1000μF) by using test cripleads before using soldering iron when replacing defective components. Otherwise, strong discharging from soldering iron may occur.



DC Balance Adjustment to Power-Amplifier Section

Setting:

ATTENUATOR swtich: Fully counterclockwise (minimum) ∞
FUNCTION switch: Other than PHONO

Procedure:

1. Connect the plus test lead of VOM to L (+) and minus test lead to chassis ground, terminal G.
2. Adjust RT401 (L-CH) so that VOM reads 0 ±30mV DC. Record the setting voltage value.
3. Connect the plus test lead of VOM to R (+) terminal and minus test lead to chassis ground, terminal G.
4. Adjust RT451 (R-CH) so that VOM reads 0 ±30mV DC. Record the setting voltage value.

DC Balance Adjustment to V-I Amplifier

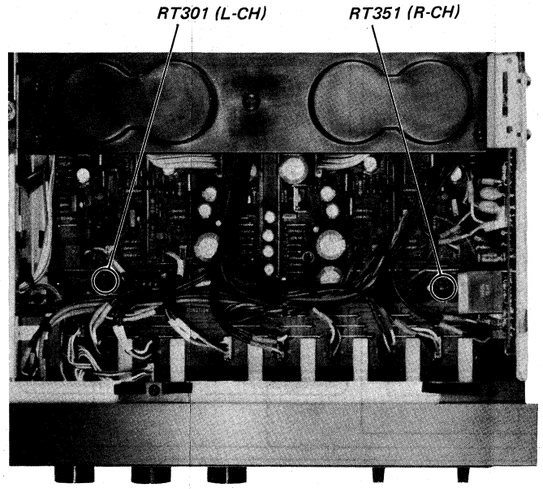
Setting:

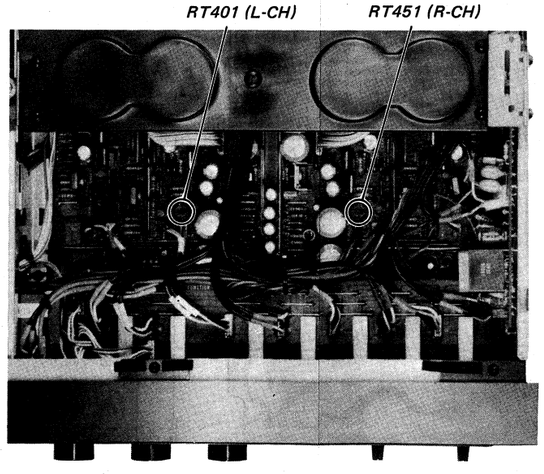
ATTENUATOR swtich: Slowly advance from minimum position to 0dB (maximum).
FUNCTION switch: Other than PHONO

Procedure:

With VOM connected to the same test points as in the DC Balance Adjustment to Power-Amplifier Section, adjust RT301 (L-CH) and RT351 (R-CH) so that VOM reads the voltage value recorded in the adjustment to the power-amplifier section.

±5mV off settings from those voltages for the power-amplifier section are allowable.





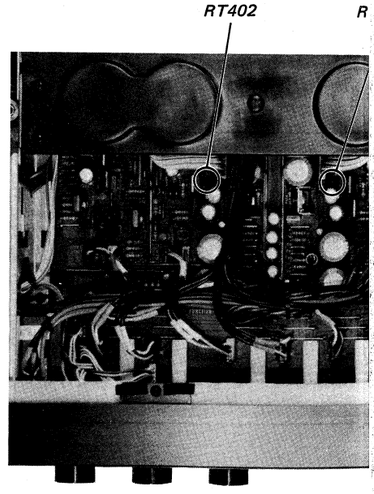
Idling Adjustment

Setting:

ATTENUATOR switch: Fully coun
(minimum
POWER switch: Turn off o
the unit to
temperatu
turn it on

Procedure:

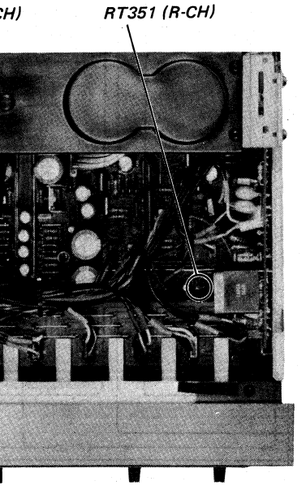
1. Connect VOM across the L (+) and
2. Turn POWER switch on. Observe V
time passes.
   a) Immediately after turning or
   2mV
   b) 23 seconds later and relay and
   the ATTENUATOR knob turned
   9 – 10mV
   c) 1 (one) minute later: 14 – 15m
3. Run the unit for about 20 – 30
condition to make it stable.
4. Adjust RT402 (L-CH) so that VO
±2mV.
5. Connect VOM across the R (+) and
and adjust RT452 (R-CH) so tha
15mV ±2mV likewise.

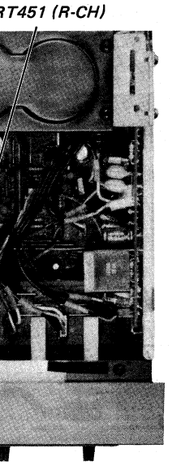


to V-I Amplifier

ch: Slowly advance from minimum position to 0dB (maximum).
Other than PHONO

to the same test points as justment to Power-Amplifier (L-CH) and RT351 (R-CH) ne voltage value recorded in ower-amplifier section. those voltages for the power- owable.





Idling Adjustment

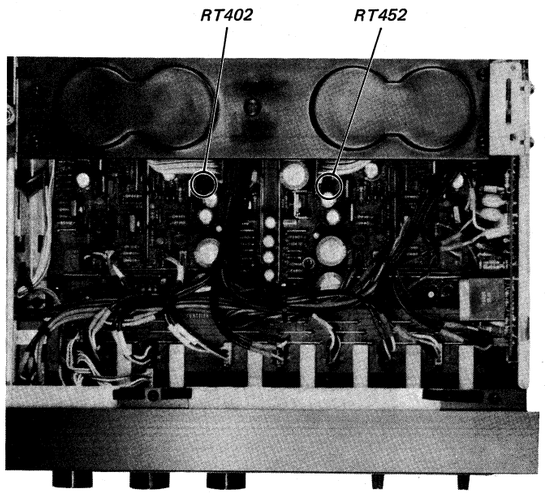
Setting:

ATTENUATOR switch: Fully counterclockwise (minimum) ∞

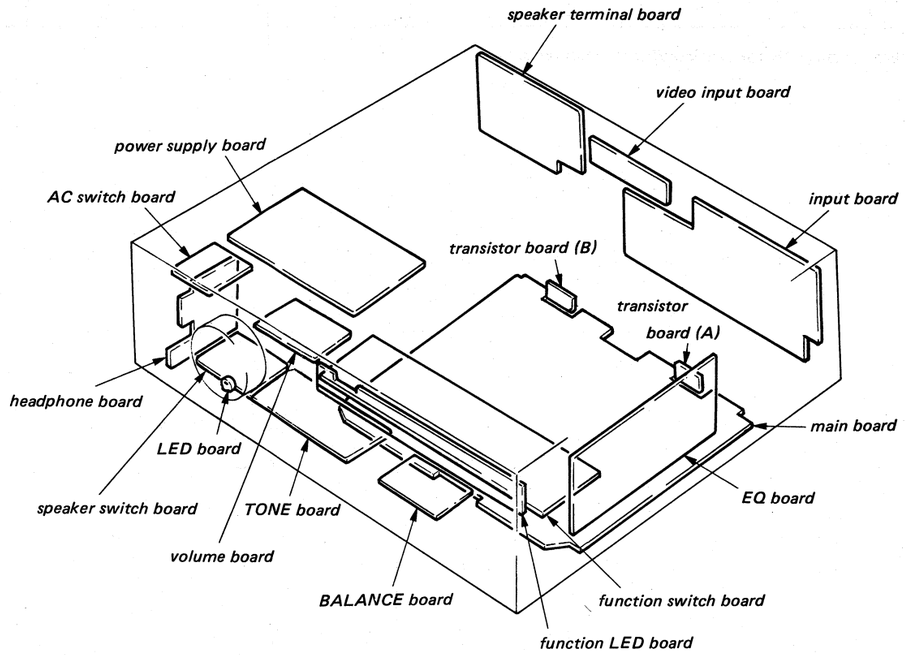
POWER switch: Turn off once to cool off the unit to ambient temperature, and then turn it on again.

Procedure:

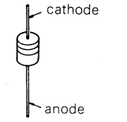
1. Connect VOM across the L (+) and (–) terminals.
2. Turn POWER switch on. Observe VOM reading as time passes.
   a) Immediately after turning on the power: 2mV
   b) 23 seconds later and relay and green lamp in the ATTENUATOR knob turned on: 9 – 10mV
   c) 1 (one) minute later: 14 – 15mV
3. Run the unit for about 20 – 30 minutes in this condition to make it stable.
4. Adjust RT402 (L-CH) so that VOM reads 15mV ±2mV.
5. Connect VOM across the R (+) and (–) terminals, and adjust RT452 (R-CH) so that VOM reads 15mV ±2mV likewise.

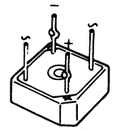


CIRCUIT BOARDS LOCATION



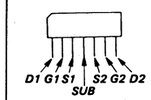
Semiconductor Lead Layout

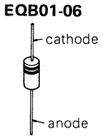
1SS202-1


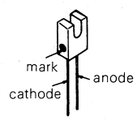
PB112E


CX20198
μPC1237H

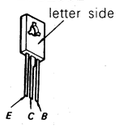

2SA835

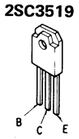

μPA68H-M


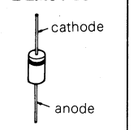
EQB01-06


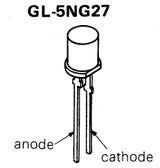
STV-2H


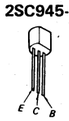
2SK246GR
2SK246GR2

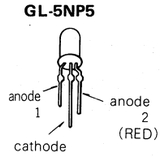

2SA939
2SA1142
2SC2071
2SC2682


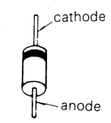
2SA1386
2SC3519


10E-2
EQA01-06R2
EQA01-35


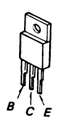
GL-5NG27


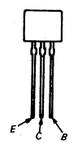
2SA733
2SC945-P


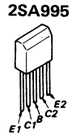
GL-5NP5


HZ16-1L
RD10E-B2


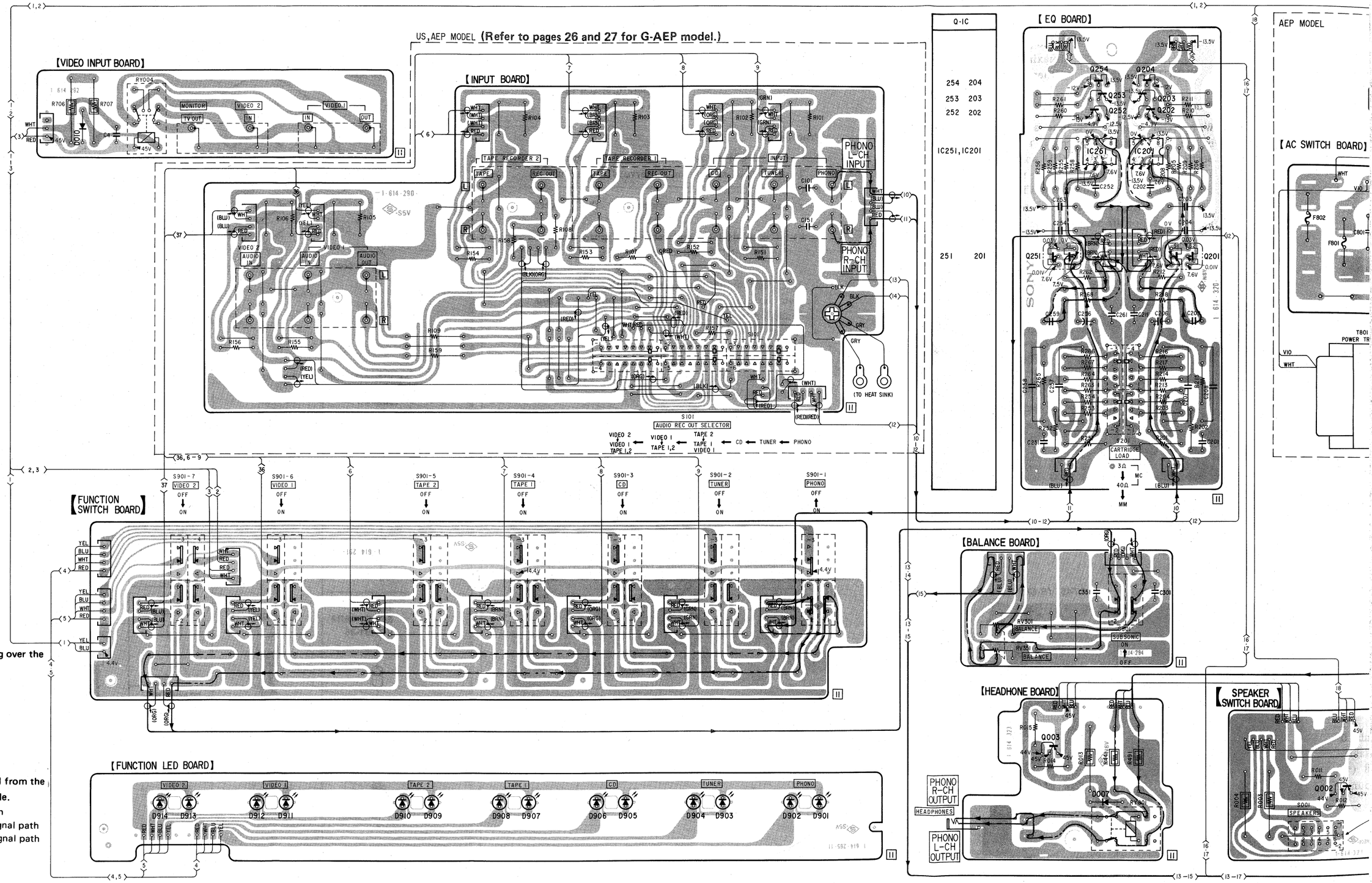
NE5534P
TL081CP


2SA985-P
2SA1383-Q
2SA2275-P
2SC3514-Q


2SK146-BL


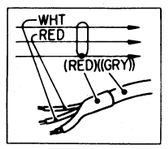
2SA995


(Refer to page 15 for semiconductor lead layouts.)



Note:

- Color code of sleeving over the end of the jacket.



- ○— : parts extracted from the component side.
- ▬▶ : signal path
- ▬·▶ : L-CH signal path
- ▬··▶ : R-CH signal path
- ▒ : B + pattern

TA-F555ES II

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

Q-IC

254 204
253 203
252 202

IC251, IC201

251 201

【EQ BOARD】

AEP MODEL

CNJ801 AC OUTLET SWITCHED

【AC SWITCH BOARD】

T801 POWER TRANSFORMER

US MODEL

CNJ801 UNSWITCHED AC OUTLET CNJ802 SWITCHED

AC IN

【AC SWITCH BOARD】

004,005 006,007 IC001

707 005 006

701,751

706 702

Q-IC D

【POWER SUPPLY BOARD】

TEST POINTS

G-AEP MODEL

(CHASSIS)

【SPEAKER TERMINAL BOARD】

R-CH OUTPUT L-CH OUTPUT

SPEAKER A SPEAKER B

【VOLUME BOARD】

RV302 ATTENUATOR

【LED BOARD】

【MAIN BOARD】

【TRANSIS

(TO HEAT SINK)

【BALANCE BOARD】

【HEADHONE BOARD】

PHONO R-CH OUTPUT

HEADPHONES

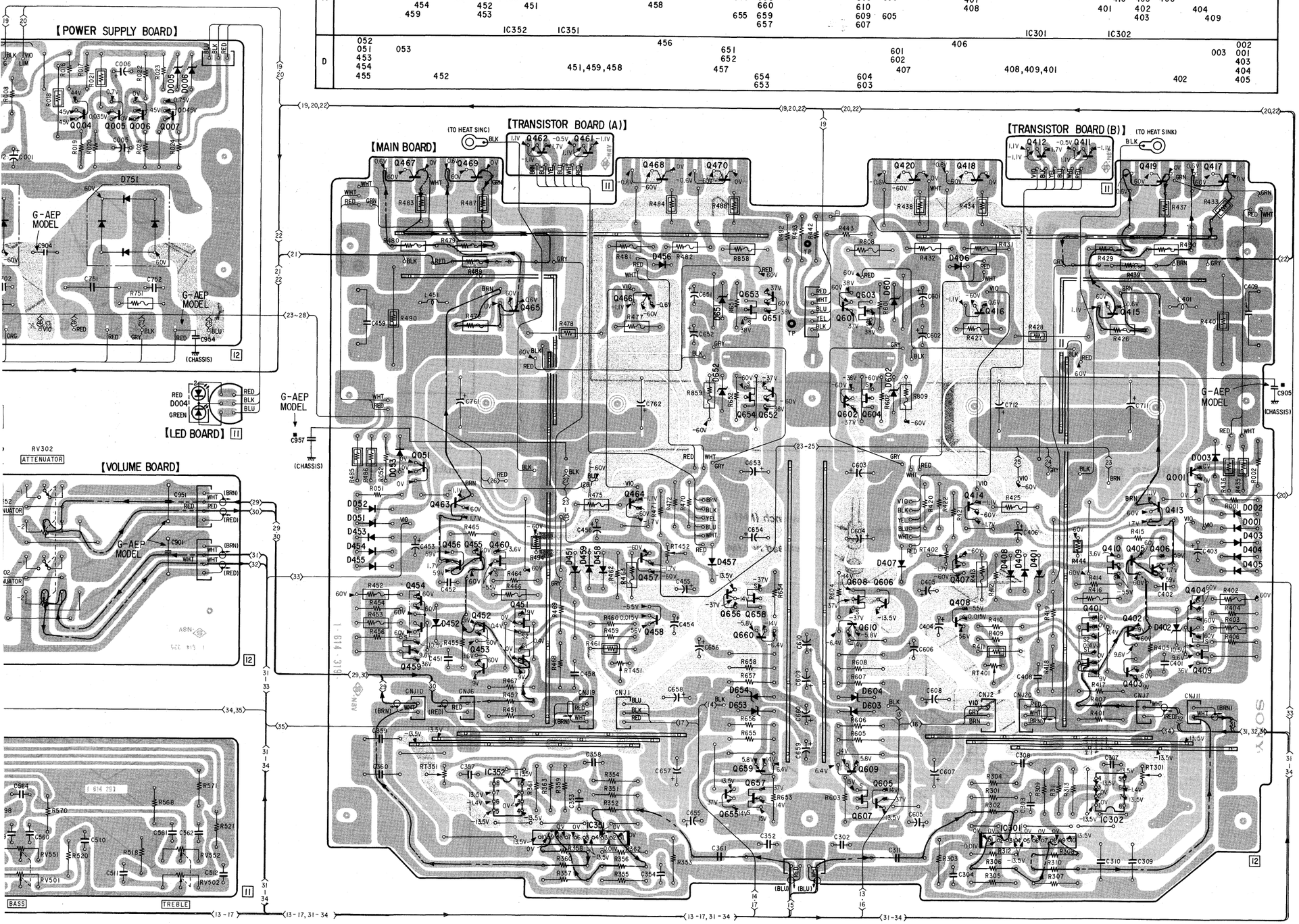
PHONO L-CH OUTPUT

【SPEAKER SWITCH BOARD】

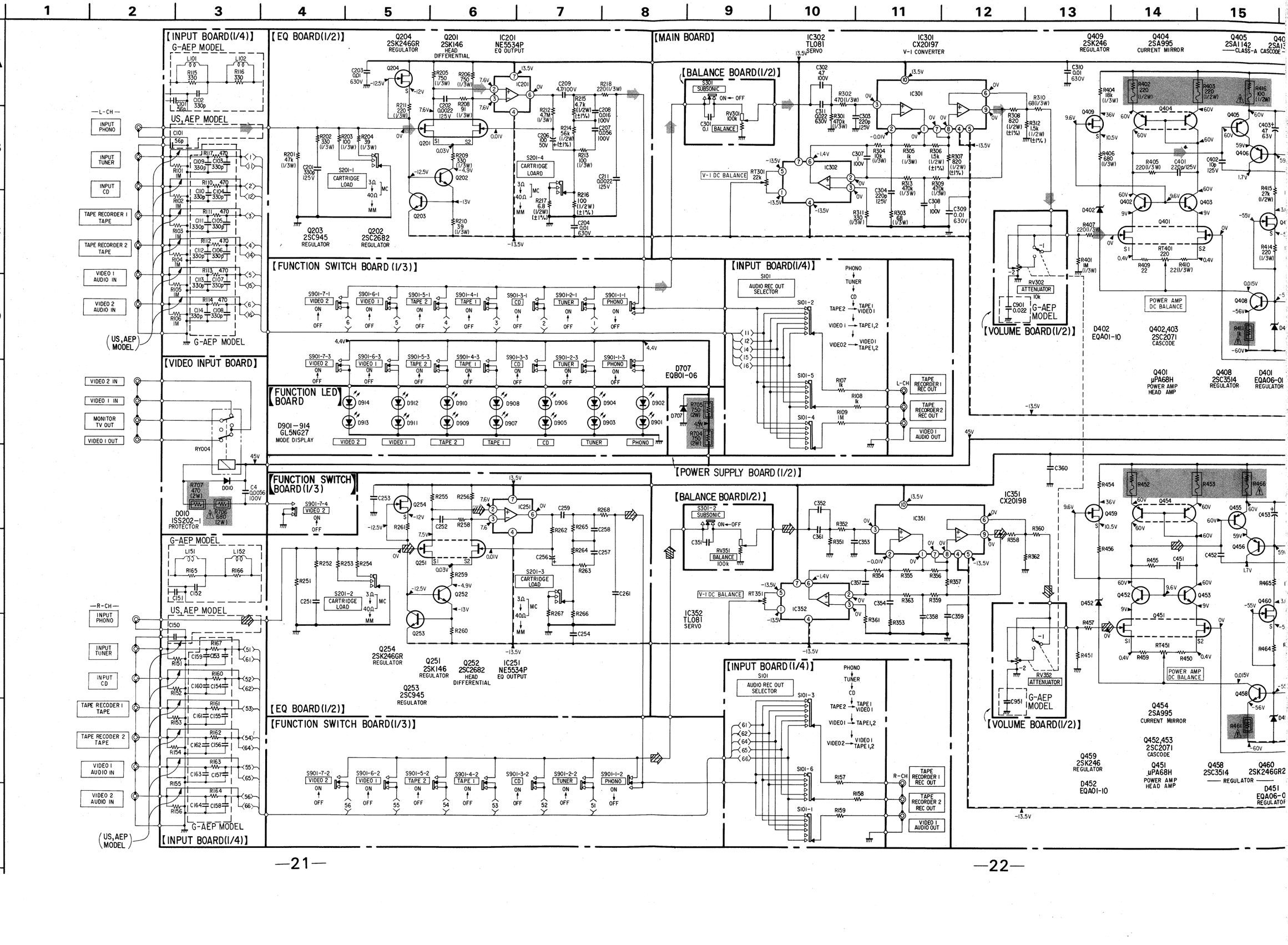
【TONE BOARD】

DIRECT BASS TREBLE

	23	24	25	26	27	28	29	30	31	32	33	34	35
Q·IC				467	469	462	461	468	470		420	418	412	411	419	417
					465			466		653 651		416		415		001
				051							601 603				413	
					463			464		654 652	602 604	414				
				456	455	460		457		656 658	608 606	407		410	405	406
				454	452	451		458		660	610	408		401	402	404
				459	453					655 659	609 605				403	409
					IC352	IC351				657	607		IC301	IC302		
D				052				456				406				002
				051	053				651		601					003 001
				453					652		602					403
				454			451,459,458		457		407		408,409,401			404
				455	452					654	604				402	405
										653	603					



4-2. SCHEMATIC DIAGRAM (Refer to page 27 for notes.)



9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

IC302 TL081 SERVO
IC301 CX20197 V-I CONVERTER
Q409 2SK246 REGULATOR
Q404 2SA995 CURRENT MIRROR
Q405 2SA1142 — CLASS-A CASCODE — Q406 2SA1383
Q413 2SC3514 Q414 2SA1383 — CLASS-B DRIVE —
Q415 2SC2275 Q416 2SA985 — CLASS-B DRIVE —
Q417 2SC3519 Q419 2SC3519 — FINAL AMP —
Q001 2SA733 PROTECTOR

【INPUT BOARD(1/4)】
【VOLUME BOARD(1/2)】
【TRANSISTOR BOARD(B)】
【TONE BOARD(1/2)】
【POWER SUPPLY BOARD (1/2)】
【LED BOARD】

D001-003 ISS202 PROTECTOR
Q418 2SA1386 FINAL AMP
Q420 2SA1386 FINAL AMP
D402 EQA01-10
Q402,403 2SC2071 CASCODE
Q401 μPA68H POWER AMP HEAD AMP
Q408 2SC3514 REGULATOR
D401 EQA06-01 REGULATOR
Q410 2SK246GR2 REGULATOR
D408,409 IOE2 TEMP COMP
Q407 2SC3514 REGULATOR
D403~405 IOE2 TEMP COMP
Q411 2SC2071 TEMP COMP
Q412 2SA939
D406 STV2H TEMP COMP
D407 IOE2
D004 GL5NP5 PROTECTOR DISPLAY
Q006,007 2SC945 LED DRIVE
D005,006 HZ16L
Q005 2SC945 — LED DR

IC351 CX20198
【TRANSISTOR BOARD(A)】
【TONE BOARD(1/2)】
【POWER SUPPLY BOARD(1/2)】
【LED BOARD】

Q455 2SA1142 — CLASS-A CASCODE — Q456 2SA1383
D453-455 IOE2 TEMP COMP
Q462 2SA939
Q461 2SC2071 TEMP COMP
D456 STV2H TEMP COMP
D457 IOE2 TEMP COMP
Q469 2SC3519 FINAL AMP
Q051 2SA733 PROTECTOR
D051-053 ISS202 PROTECTOR
Q470 2SA1386 FINAL AMP
Q454 2SA995 CURRENT MIRROR
Q452,453 2SC2071 CASCODE
Q459 2SK246 REGULATOR
Q451 μPA68H POWER AMP HEAD AMP
Q458 2SC3514 — REGULATOR —
Q460 2SK246GR2 REGULATOR
D452 EQA01-10
D451 EQA06-01 REGULATOR
Q457 2SC3514 REGULATOR
D458,459 IOE2 TEMP COMP
Q463 2SC3514 Q464 2SA1383 — CLASS-B DRIVE —
Q465 2SC2275 Q466 2SA985 — CLASS-B DRIVE —
Q467 2SC3519 Q468 2SA1386 — FINAL AMP —

Q605 2SC2275 VOL.REG.
Q607 2SK246GR REGULATOR
Q601 2SC2275 VOL.REG.
Q609 2SC2071 VOL.REG.
D603 EQA01-06R2 — VOL.REG. —
D601 EQA01-35
Q610 2SA939 VOL.REG.
D604 EQA01-06R2 VOL.REG.
Q603,604 2SK246GR REGULATOR
D602 EQA01-35 VOL.REG.
Q606 2SA985 VOL.REG.
Q608 2SK246GR REGULATOR
Q602 2SA985 VOL.REG.

Q655 2SC2275 VOL.REG.
Q657 2SK246GR REGULATOR
Q651 2SC2275 VOL.REG.
Q659 2SC2071 — VOL.REG. —
D653 EQA01-06R2
D651 EQA01-35
Q660 2SA939 VOL.REG.
D654 EQA01-06R2 — VOL.REG. —
D652 EQA01-35
Q653,654 2SK246GR REGULATOR
Q656 2SA985 VOL.REG.
Q658 2SK246GR REGULATOR
Q652 2SA985 VOL.REG.

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

A B C D E F G H I J

【SPEAKER SWITCH BOARD】

【SPEAKER TERMINAL BOARD】

【HEADPHONE BOARD】

【POWER SUPPLY BOARD (1/2)】

【LED BOARD】

【AC SWITCH BOARD】

D001 – 003 ISS202 PROTECTOR

D004 GL5NP5 PROTECTOR DISPLAY

Q006,007 2SC945 LED DRIVE

D005,006 HZ16L

Q005 2SC945 — LED DRIVE —

Q004 2SA733 — LED DRIVE —

IC001 μPC1237H PROTECTOR

Q002,003 2SA835 RELAY DRIVE

D007 ISS202 PROTECTOR

D008 ISS202 PROTECTOR

D009 ISS202 PROTECTOR

D702 S1VB20 RECT

D706 10E2

D701 PB112E RECT

D751 PB112E RECT

Q051 2SA733 PROTECTOR

Q605 2SC2275 VOL. REG.
Q607 2SK246GR REGULATOR
Q601 2SC2275 VOL. REG.
Q609 2SC2071 VOL. REG.
Q603 EQA01-06R2 VOL. REG.
Q601 EQA01-35 VOL. REG.
Q610 2SA939 VOL. REG.
D604 EQA01-06R2 VOL. REG.
Q603,604 2SK246GR REGULATOR
D602 EQA01-35 VOL. REG.
Q606 2SA985 VOL. REG.
Q608 2SK246GR REGULATOR
Q602 2SA985 VOL. REG.

Q655 2SC2275 VOL. REG.
Q657 2SK246GR REGULATOR
Q651 2SC2275 VOL. REG.
Q659 2SC2071 VOL. REG.
D653 EQA01-06R2 VOL. REG.
D651 EQA01-35 VOL. REG.
Q660 2SA939 VOL. REG.
D654 EQA01-06R2 VOL. REG.
D652 EQA01-35 VOL. REG.
Q653,654 2SK246GR REGULATOR
Q656 2SA985 VOL. REG.
Q658 2SK246GR REGULATOR
Q652 2SA985 VOL. REG.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

US MODEL

AEP MODEL

G-AEP MODEL

SPEAKER A

SPEAKER B

HEADPHONES

T801 POWER TRANSFOMER

AC OUTLET

AC IN 120V

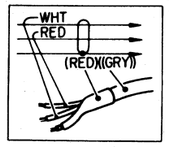
AC IN 220V

TA-F555ES II TA-F555ES II

SECT
EXPLODED VIEW

Note:

- Color code of sleeving over the end of the jacket.



- ○— : parts extracted from the component side.
- —→— : signal path
- —·→ : L-CH signal path
- —··→ : R-CH signal path

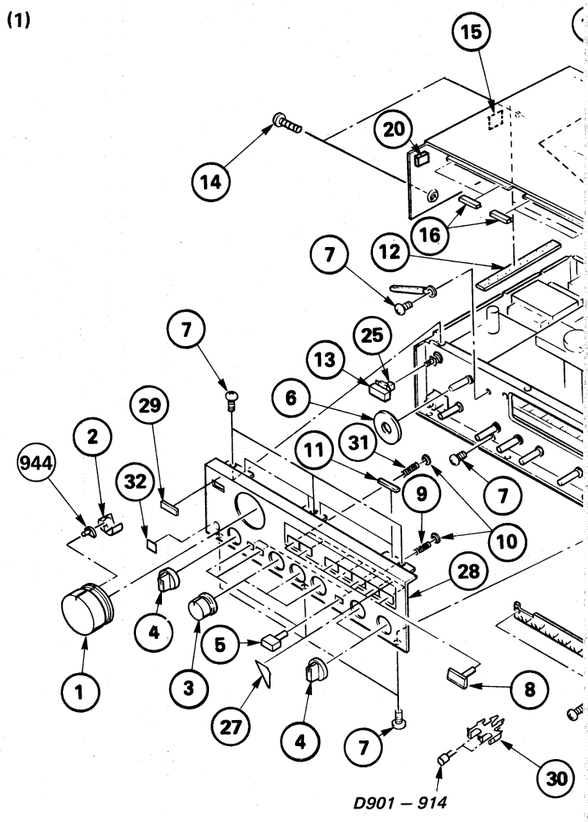
NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

· The construction parts part are indicated wit number in the remark c

(1)



Note on schematic diagram:

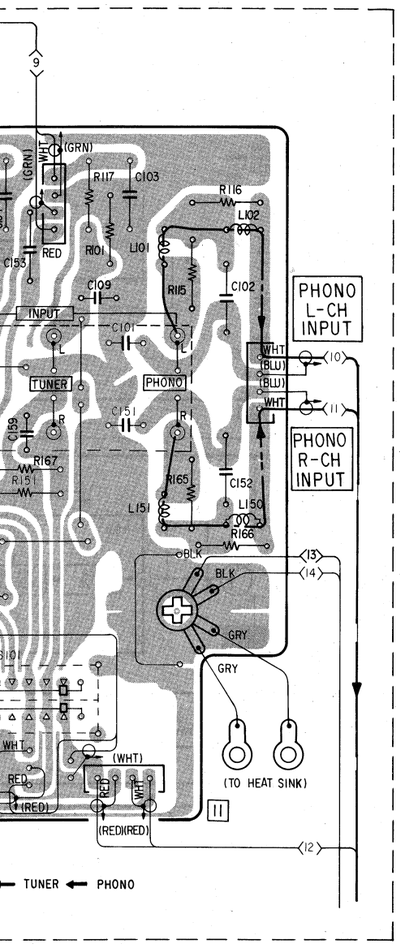
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ▨ : L-CH signal path
- ▨ : R-CH signal path
- Components for right channel have same values as for left channel. Reference numbers are coded from 150, 250, 350, 450, 550.
- ⊣▭⊢ : nonflammable resistor.
- ⊣≈⊢ : fusible resistor.
- ▬▬ : B+ bus.
- ▬ ▬ : B– bus.
- ▭ : adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50kΩ/V).

- Voltage variations may be noted due to normal production tolerances.
- Switch

Ref. No.	Switch	Position
S001	SPEAKERS	OFF
S101	AUDIO REC OUT SELECTOR	PHONO
S201	CARTRIDGE LOAD	3Ω
S301	SUBSONIC	OFF
S501	TONE	OFF
S502	BASS BOOST	OFF
S801	POWER	OFF
S901-1	PHONE	OFF
S901-2	TUNER	OFF
S901-3	CD	OFF
S901-4	TAPE 1	OFF
S901-5	TAPE 2	OFF
S901-6	VIDEO 1	OFF
S901-7	VIDEO 2	OFF

No.	Part No.	Description	Remarks
1	X-4885-908-1	KNOB (NA-50) ASSY, R	
2	*4-901-919-00	HOUSE, LED LAMP	
3	4-885-971-01	KNOB (NA-25), R	
4	4-885-972-01	KNOB (NA-25), FLAT	
5	4-885-956-01	KNOB, PUSH	
6	3-533-938-00	CLOTH	
7	7-685-751-09	SCREW +BVTT 3X6 (S)	
8	X-4885-913-1	T.KNOB ASSY	
9	4-866-652-00	SPRING, COMPRESSION	
10	4-862-338-00	RING, STOPPER	
11	9-911-845-XX	CUSHION, COUNTER	
12	4-848-642-00	CUSHION, VIBRATION	
13	X-4885-901-0	KNOB ASSY, POWER	
14	4-889-321-11	SCREW	
15	*4-901-907-01	CUSHION	
16	3-831-441-XX	CUSHION, SPEAKER	
17	4-885-965-01	CASE	

10 11



SECTION 5
EXPLODED VIEWS AND PARTS LIST

NOTE:

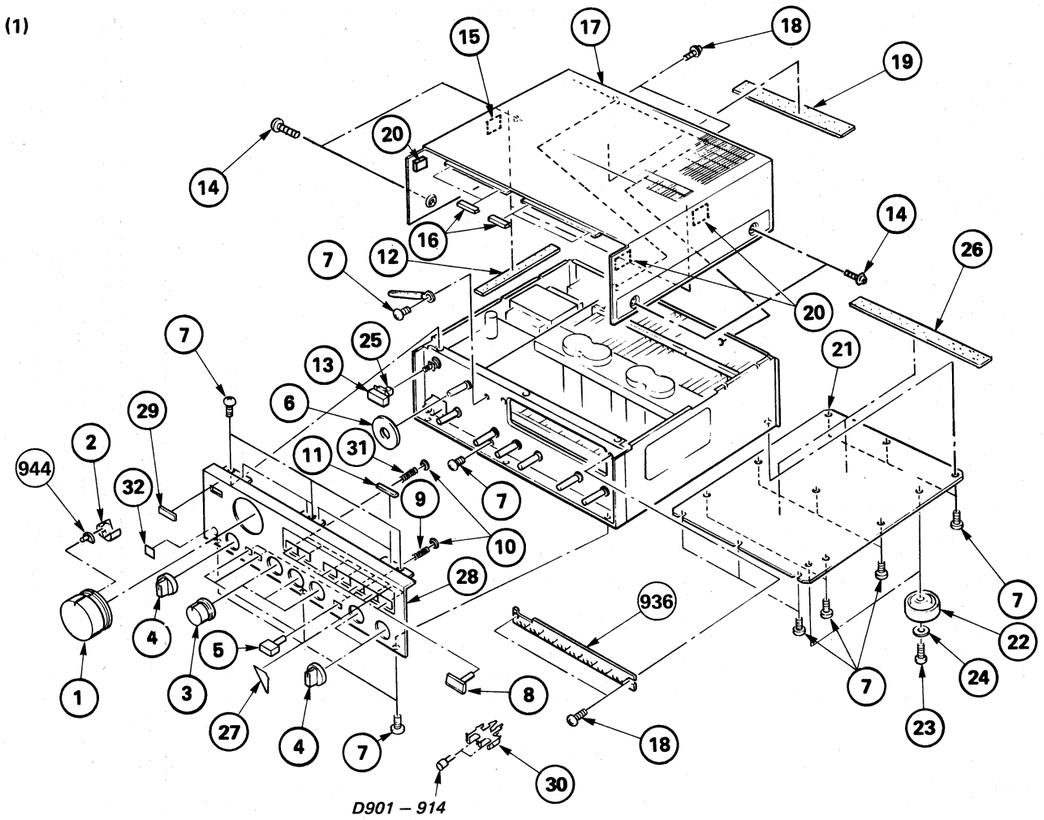
The mechanical parts with no reference number in the exploded views are not supplied.

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

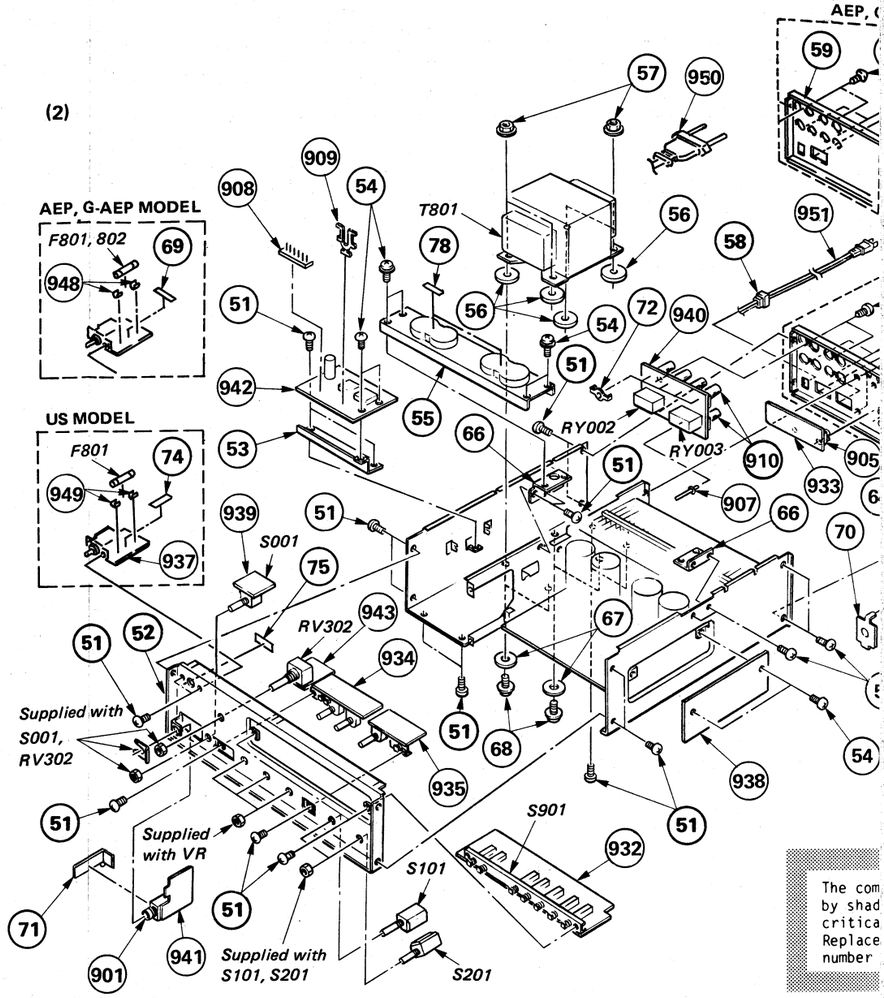
· The construction parts of an assembled part are indicated with a collation number in the remark column.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(1)



(2)

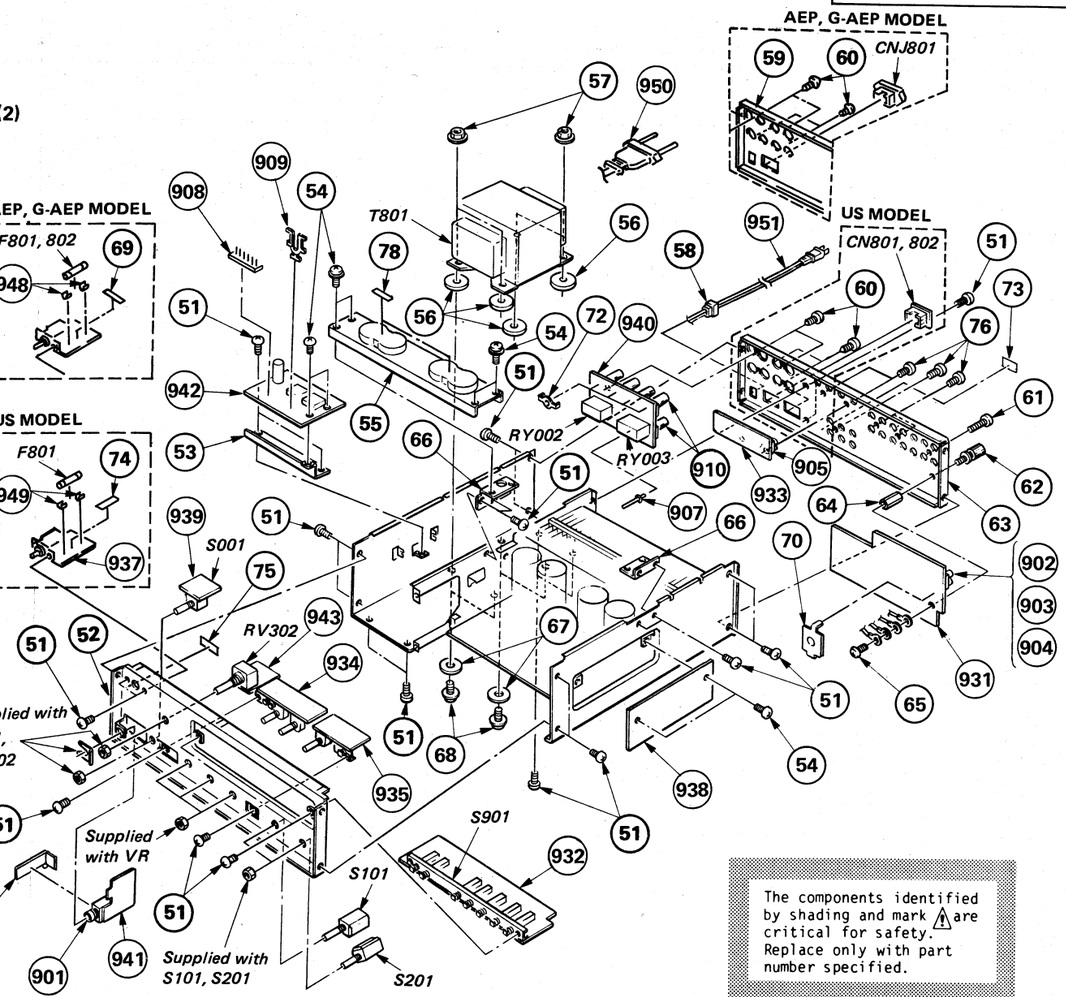


No.	Part No.	Description	Remarks
1	X-4885-908-1	KNOB (NA-50) ASSY, R	
2	*4-901-919-00	HOUSE, LED LAMP	
3	4-885-971-01	KNOB (NA-25), R	
4	4-885-972-01	KNOB (NA-25), FLAT	
5	4-885-956-01	KNOB, PUSH	
6	3-533-938-00	CLOTH	
7	7-685-751-09	SCREW +BVTT 3X6 (S)	
8	X-4885-913-1	T.KNOB ASSY	
9	4-866-652-00	SPRING, COMPRESSION	
10	4-862-338-00	RING, STOPPER	
11	9-911-845-XX	CUSHION, COUNTER	
12	4-848-642-00	CUSHION, VIBRATION	
13	X-4885-901-0	KNOB ASSY, POWER	
14	4-889-321-11	SCREW	
15	*4-901-907-01	CUSHION	
16	3-831-441-XX	CUSHION, SPEAKER	
17	4-885-965-01	CASE	
18	3-703-249-11	SCREW, S TIGHT, +PTTWH 3X6	
19	*4-885-983-21	SHEET	
20	*4-901-907-11	CUSHION	
21	*4-885-967-01	PLATE, BOTTOM	
22	4-885-985-01	LEG	
23	7-685-872-09	SCREW +BVTT 3X8 (S)	
24	7-688-004-12	W 4, MIDDLE	
26	*4-885-983-01	SHEET	
28	X-4885-914-3	PANEL ASSY	29
29	3-304-974-01	EMBLEM, SONY	
30	*4-905-210-01	HOLDER, LED	
31	2-267-020-00	SPRING, COMPRESSION	
32	3-703-710-41	STICKER, SONY SYMBOL (12)	
33	4-889-813-00	STICKER (C)	
34	4-866-342-00	JOINT (B), KNOB	
944	*1-614-326-11	PC BOARD, LED	
952	*1-614-295-11	PC BOARD, LED (F)	

No.	Part No.	Description	Remarks
51	7-685-751-09	SCREW +BVTT 3X6 (S)	
52	*4-885-993-31	CHASSIS, SUB	
53	*4-885-980-01	REINFORCEMENT	
54	3-703-249-11	SCREW, S TIGHT, +PTTWH 3X6	
55	*4-885-988-01	HOLDER	
56	*4-885-984-01	WASHER	
57	4-860-368-00	NUT (M4), WASHER	
58	3-703-244-00	BUSHING (2104), CORD	
59	*4-885-969-31	(AEP,G-AEP)...PLATE, JACK	
60	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
61	4-887-711-21	SCREW, TERMINAL, CLAW, + BVTP	
62	X-4854-207-0	TERMINAL ASSY, GROUND	
63	*4-885-969-22	(US)...PLATE, JACK	
64	*2-280-622-51	SUPPORT (M3), HEXAGON	
65	2-259-121-21	SCREW, TR	
66	*4-885-981-11	BRACKET	
67	3-610-931-31	SPACER, SHAFT, DRUM, HEAD	
68	7-682-964-09	SCREW +PSW 4X14	
69	*3-701-948-19	(AEP,G-AEP)...LABEL, FUSE	
70	*4-835-639-00	PLATE, GROUND	
71	*4-904-909-01	PLATE (A), SHIELD	
72	*4-843-416-11	PLATE, FIXED, CAP	
73	*4-908-817-01	(US).....LABEL, MODEL NUMBER (U2)	
	*4-908-818-01	(AEP).....LABEL, MODEL NUMBER (AE1)	
	*4-908-819-01	(G-AEP)...LABEL, MODEL NUMBER (AE4)	
74	3-701-946-28	(US)...LABEL, FUSE	
75	*4-908-826-01	(AEP,G-AEP)...SPACER, INSULATING	
76	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
78	2-212-427-00	CUSHION	

No.	Part No.	Description
901	1-507-669-00	JACK (HEADPHONES)
902	1-507-830-00	JACK, PIN 4P (PHON
903	1-507-830-21	JACK, PIN 4P (TAPE
904	1-507-831-00	JACK, PIN 6P (TAPE
905	1-562-916-11	JACK, PIN 2P (VIDE
906	1-508-809-00	BASE POST (14MM) 2
907	1-535-108-00	GT PIN
908	*1-535-119-00	TERMINAL
909	*1-535-444-00	TERMINAL
910	1-536-767-00	TERMINAL BOARD, SP
931	*1-614-290-11	PC BOARD, INPUT
932	*1-614-291-11	PC BOARD, FUNCTION
933	*1-614-292-11	PC BOARD, VIDEO
934	*1-614-293-11	PC BOARD, TONE
935	*1-614-294-11	PC BOARD, BALANCE
937	*1-615-518-11	(AEP,G-AEP)...PC B
	*1-614-296-11	(US).....PC B
938	*1-614-320-11	PC BOARD, EQ
939	*1-614-321-11	PC BOARD, SP SWITC
940	*1-614-322-11	PC BOARD, SP TERMI
941	*1-614-323-11	PC BOARD, HEADPHON
942	*1-614-324-11	PC BOARD, PS
943	*1-614-325-11	PC BOARD, VR
948	*1-533-131-00	(AEP,G-AEP)...HOLD
949	1-517-072-00	(US)...LAMP HOLDER
950	⚠1-555-795-00	(AEP,G-AEP)...CORD
951	⚠1-557-577-11	(US).....CORD

(2)

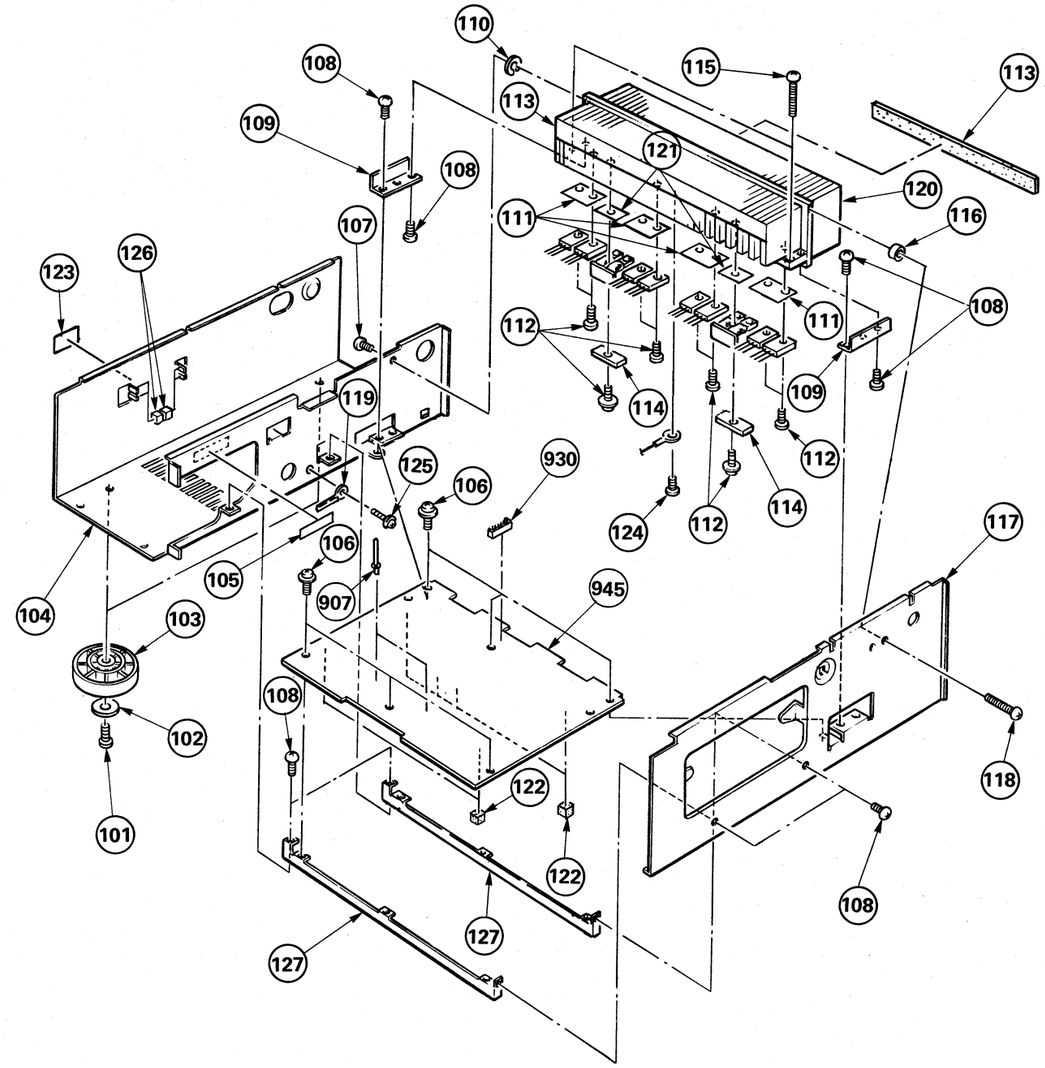


The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

No.	Part No.	Description	Remarks
	5-751-09	SCREW +BVTT 3X6 (S)	
	5-993-31	CHASSIS, SUB	
	5-980-01	REINFORCEMENT	
	3-249-11	SCREW, S TIGHT, +PTTWH 3X6	
	5-988-01	HOLDER	
	5-984-01	WASHER	
	0-368-00	NUT (M4), WASHER	
	3-244-00	BUSHING (2104), CORD	
	5-969-31	(AEP,G-AEP)...PLATE, JACK	
	5-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
	7-711-21	SCREW, TERMINAL, CLAW, + BVTP	
	54-207-0	TERMINAL ASSY, GROUND	
	5-969-22	(US)...PLATE, JACK	
	0-622-51	SUPPORT (M3), HEXAGON	
	9-121-21	SCREW, TR	
	5-981-11	BRACKET	
	0-931-31	SPACER, SHAFT, DRUM, HEAD	
	2-964-09	SCREW +PSW 4X14	
	1-948-19	(AEP,G-AEP)...LABEL, FUSE	
	5-639-00	PLATE, GROUND	
	4-909-01	PLATE (A), SHIELD	
	3-416-11	PLATE, FIXED, CAP	
	8-817-01	(US).....LABEL, MODEL NUMBER (U2)	
	8-818-01	(AEP).....LABEL, MODEL NUMBER (AE1)	
	8-819-01	(G-AEP)...LABEL, MODEL NUMBER (AE4)	
	1-946-28	(US)...LABEL, FUSE	
	8-826-01	(AEP,G-AEP)...SPACER, INSULATING	
	5-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
	2-427-00	CUSHION	

No.	Part No.	Description	Remarks
901	1-507-669-00	JACK (HEADPHONES)	
902	1-507-830-00	JACK, PIN 4P (PHONO,TUNER)	
903	1-507-830-21	JACK, PIN 4P (TAPE RECORDER 2)	
904	1-507-831-00	JACK, PIN 6P (TAPE RECORDER 1 CD) (AUDIO IN,OUT)	
905	1-562-916-11	JACK, PIN 2P (VIDEO 1,VIDEO 2,MONITOR)	
906	1-508-809-00	BASE POST (14MM) 2P	
907	1-535-108-00	GT PIN	
908	*1-535-119-00	TERMINAL	
909	*1-535-444-00	TERMINAL	
910	1-536-767-00	TERMINAL BOARD, SPEAKER	
931	*1-614-290-11	PC BOARD, INPUT	
932	*1-614-291-11	PC BOARD, FUNCTION	
933	*1-614-292-11	PC BOARD, VIDEO	
934	*1-614-293-11	PC BOARD, TONE	
935	*1-614-294-11	PC BOARD, BALANCE	
937	*1-615-518-11	(AEP,G-AEP)...PC BOARD, AC SWITCH	
	*1-614-296-11	(US).....PC BOARD, AC SWITCH	
938	*1-614-320-11	PC BOARD, EQ	
939	*1-614-321-11	PC BOARD, SP SWITCH	
940	*1-614-322-11	PC BOARD, SP TERMINAL	
941	*1-614-323-11	PC BOARD, HEADPHONE	
942	*1-614-324-11	PC BOARD, PS	
943	*1-614-325-11	PC BOARD, VR	
948	*1-533-131-00	(AEP,G-AEP)...HOLDER, FUSE	
949	1-517-072-00	(US)...LAMP HOLDER	
950	⚠1-555-795-00	(AEP,G-AEP)...CORD, POWER	
951	⚠1-557-577-11	(US).....CORD, POWER	

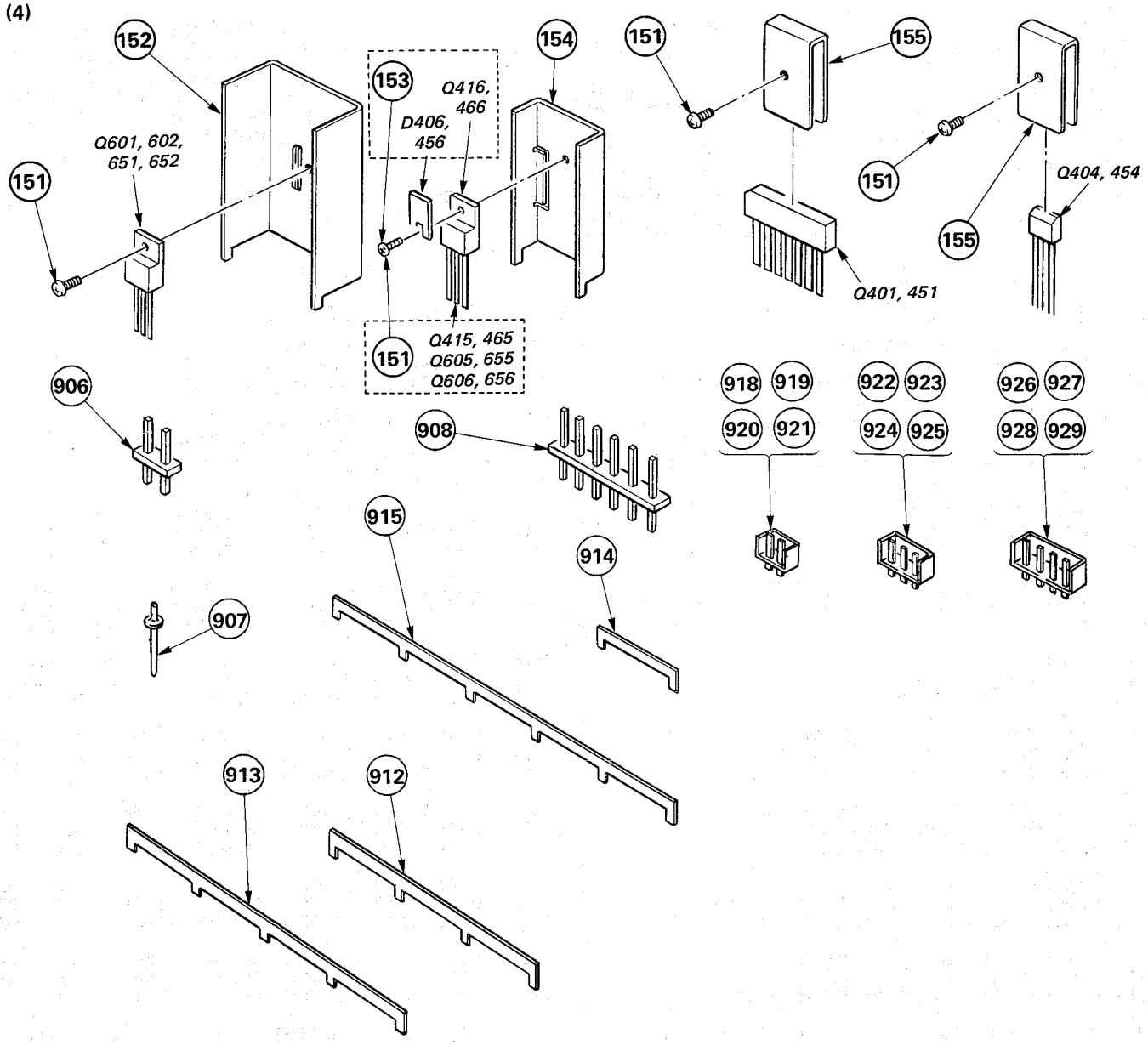
(3)



No.	Part No.	Description	Remarks
101	7-685-872-09	SCREW +BVTT 3X8 (S)	
102	7-688-004-12	W 4, MIDDLE	
103	4-885-985-01	LEG	
104	*4-885-966-21	PLATE, SIDE, LEFT	
105	*3-701-030-00	LABEL, SERIAL NUMBER	
106	3-703-249-11	SCREW, S TIGHT, +PTTWH 3X6	
107	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
108	7-685-751-09	SCREW +BVTT 3X6 (S)	
109	*4-885-982-01	BRACKET, HEAT SINK	
110	4-908-811-01	SPACER	
111	4-901-949-01	SHEET, INSULATING	
112	2-259-121-21	SCREW, TR	
113	*4-885-983-11	SHEET	
114	*4-879-920-00	SPACER, HEAT SINK	
115	7-685-876-09	SCREW +BVTT 3X16 (S)	
116	4-908-809-01	SPACER	

No.	Part No.	Description	Remarks
117	*4-885-963-01	PLATE, SIDE, RIGHT	
118	7-685-649-19	SCREW +BVTP 3X14 TYPE2 N-S	
119	*3-701-822-00	HOLDER, WIRE	
120	*4-885-994-01	HEAT SINK	
121	4-885-999-01	SHEET, INSULATING	
122	*4-908-810-12	CUSHION	
123	*3-703-044-26	(US)...LABEL, CAUTION	
124	7-682-561-10	SCREW +B 4X8	
129	*4-889-824-00	CHANNEL	
130	9-911-845-XX	CUSHION, COUNTER	
131	4-908-816-11	SCREW (3.5X6) (G), TAPPING	
907	1-535-108-00	GT PIN	
945	*A-4388-461-A	(US,AEP)...MOUNTED PCB, MAIN	
	*A-4388-462-A	(G-AEP)....MOUNTED PCB, MAIN	
930	*1-564-508-11	PLUG, CONNECTOR 5P	

(4)



No.	Part No.	Description	Remarks
151	2-259-121-00	SCREW, TR	
152	*4-880-403-11	HEAT SINK	
153	2-259-121-11	SCREW, TR	
154	*3-309-144-01	HEAT SINK	
155	*4-866-080-11	HEAT SINK	
906	*1-508-809-00	BASE POST (14MM) 2P	
907	1-535-108-00	GT PIN	
908	*1-535-119-00	TERMINAL	
912	*1-560-242-21	BUS BAR 4P	
913	*1-560-242-31	BUS BAR 5P	
914	*1-560-242-61	BUS BAR 2P	
915	*1-560-242-71	BUS BAR 6P	

No.	Part No.	Description	Remarks
918	*1-564-505-11	PLUG, CONNECTOR 2P (WIHTE)	
919	*1-564-505-21	PLUG, CONNECTOR 2P (BLACK)	
920	*1-564-505-31	PLUG, CONNECTOR 2P (RED)	
921	*1-564-505-41	PLUG, CONNECTOR 2P (YELLOW)	
922	*1-564-506-11	PLUG, CONNECTOR 3P (WHITE)	
923	*1-564-506-21	PLUG, CONNECTOR 3P (BLACK)	
924	*1-564-506-31	PLUG, CONNECTOR 3P (RED)	
925	*1-564-506-41	PLUG, CONNECTOR 3P (YELLOW)	
926	*1-564-507-11	PLUG, CONNECTOR 4P (WHITE)	
927	*1-564-507-21	PLUG, CONNECTOR 4P (BLACK)	
928	*1-564-507-31	PLUG, CONNECTOR 4P (RED)	
929	*1-564-507-41	PLUG, CONNECTOR 4P (YELLOW)	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
901	1-507-669-00	JACK (HEADPHONES)
902	1-507-830-00	JACK, PIN 4P (PHONO,TUNER)
903	1-507-830-21	JACK, PIN 4P (TAPE RECORDER 2)
904	1-507-831-00	JACK, PIN 6P (TAPE RECORDER 1 CD) (AUDIO IN,OUT)
905	1-562-916-11	JACK, PIN 2P (VIDEO 1,VIDEO 2,MONITOR)
906	*1-508-809-00	BASE POST (14MM) 2P
907	1-535-108-00	GT PIN
908	*1-535-119-00	TERMINAL
909	*1-535-444-00	TERMINAL
910	1-536-767-00	TERMINAL BOARD, SPEAKER
911	*1-562-251-00	SOCKET, CONNECTOR 6P
912	*1-560-242-21	BUS BAR 4P
913	*1-560-242-31	BUS BAR 5P
914	*1-560-242-61	BUS BAR 2P
915	*1-560-242-71	BUS BAR 6P
916	*1-562-249-00	SOCKET, CONNECTOR 4P
917	*1-562-327-00	SOCKET, CONNECTOR 3P
918	*1-564-505-11	PLUG, CONNECTOR 2P (WIHTE)
919	*1-564-505-21	PLUG, CONNECTOR 2P (BLACK)
920	*1-564-505-31	PLUG, CONNECTOR 2P (RED)
921	*1-564-505-41	PLUG, CONNECTOR 2P (YELLOW)
922	*1-564-506-11	PLUG, CONNECTOR 3P (WHITE)
923	*1-564-506-21	PLUG, CONNECTOR 3P (BLACK)
924	*1-564-506-31	PLUG, CONNECTOR 3P (RED)
925	*1-564-506-41	PLUG, CONNECTOR 3P (YELLOW)
926	*1-564-507-11	PLUG, CONNECTOR 4P (WHITE)
927	*1-564-507-21	PLUG, CONNECTOR 4P (BLACK)
928	*1-564-507-31	PLUG, CONNECTOR 4P (RED)
929	*1-564-507-41	PLUG, CONNECTOR 4P (YELLOW)
930	*1-564-508-11	PLUG, CONNECTOR 5P
931	*1-614-290-11	PC BOARD, INPUT
932	*1-614-291-11	PC BOARD, FUNCTION
933	*1-614-292-11	PC BOARD, VIDEO
934	*1-614-293-11	PC BOARD, TONE
935	*1-614-294-11	PC BOARD, BALANCE
937	*1-615-518-11	(AEP,G-AEP)...PC BOARD, AC SWITCH
	*1-614-296-11	(US).....PC BOARD, AC SWITCH
938	*1-614-320-11	PC BOARD, EQ
939	*1-614-321-11	PC BOARD, SP SWITCH
940	*1-614-322-11	PC BOARD, SP TERMINAL
941	*1-614-323-11	PC BOARD, HEADPHONE
942	*1-614-324-11	PC BOARD, PS
943	*1-614-325-11	PC BOARD, VR
944	*1-614-326-11	PC BOARD, LED
945	*A-4388-461-A	(US,AEP)...MOUNTED PCB, MAIN
	*A-4388-462-A	(G-AEP)....MOUNTED PCB, MAIN

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
946	*1-535-115-00	TERMINAL			
947	1-535-416-00	(AEP,G-AEP)...TERMINAL			
948	*1-533-131-00	(AEP,G-AEP)...HOLDER, FUSE			
949	1-517-072-00	(US)...LAMP HOLDER			
950	⚠1-555-795-00	(AEP,G-AEP)...CORD, POWER			
951	⚠1-557-577-11	(US).....CORD, POWER			
952	*1-614-295-11	PC BOARD, LED (F)			
C4	1-130-291-00	FILM	0.0056MF	10%	100V
C001	1-123-334-00	ELECT	220MF	20%	25V
C002	1-106-172-00	MYLAR	0.001MF	5%	50V
C003	1-136-157-00	FILM	0.022MF	5%	50V
C004	1-123-307-00	ELECT	100MF	20%	6.3V
C005	1-123-518-00	ELECT	10MF	20%	63V
C006	1-123-518-00	ELECT	10MF	20%	63V
C101	1-107-294-00	MICA	56PF	5%	100V
C102	1-161-317-00	(G-AEP)...CERAMIC	330PF	10%	50V
C103	1-161-317-00	(G-AEP)...CERAMIC	330PF	10%	50V
C104	1-161-317-00	(G-AEP)...CERAMIC	330PF	10%	50V
C105	1-161-317-00	(G-AEP)...CERAMIC	330PF	10%	50V
C106	1-161-317-00	(G-AEP)...CERAMIC	330PF	10%	50V
C107	1-161-317-00	(G-AEP)...CERAMIC	330PF	10%	50V
C108	1-161-317-00	(G-AEP)...CERAMIC	330PF	10%	50V
C109	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V
C110	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V
C111	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V
C112	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V
C113	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V
C114	1-102-112-00	(G-AEP)...CERAMIC	330PF	10%	50V
C201	1-104-249-11	POLYSTYRENE	330PF	5%	125V
C202	1-104-151-00	POLYSTYRENE	0.0022MF	5%	125V
C203	1-136-324-00	FILM	0.01MF	10%	630V
C204	1-136-324-00	FILM	0.01MF	10%	630V
C206	1-123-360-00	ELECT	100MF	20%	50V
C207	1-136-248-00	FILM	0.056MF	3%	100V
C208	1-136-247-00	FILM	0.016MF	3%	100V
C209	1-124-334-00	ELECT	4.7MF	20%	100V
C211	1-104-151-00	POLYSTYRENE	0.0022MF	5%	125V
C301	1-136-165-00	FILM	0.1MF	5%	50V
C302	1-124-334-00	ELECT	4.7MF	20%	100V
C303	1-104-233-00	POLYSTYRENE	220PF	5%	125V
C304	1-104-233-00	POLYSTYRENE	220PF	5%	125V
C307	1-124-611-51	ELECT	1MF	20%	100V
C308	1-124-611-51	ELECT	1MF	20%	100V
C309	1-136-324-00	FILM	0.01MF	10%	630V
C310	1-136-324-00	FILM	0.01MF	10%	630V
C311	1-129-718-00	FILM	0.022MF	10%	630V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C401	1-104-261-00	POLYSTYRENE	220PF	10%	125V
C402	1-104-262-00	POLYSTYRENE	10PF	10%	125V
C403	1-123-373-00	ELECT	47MF	20%	63V
C404	1-123-374-00	ELECT	100MF	20%	63V
C405	1-123-374-00	ELECT	100MF	20%	63V
C406	1-123-373-00	ELECT	47MF	20%	63V
C408	1-104-263-00	POLYSTYRENE	15PF	10%	125V
C409	1-136-325-00	FILM	0.022MF	10%	630V
C509	1-136-173-00	FILM	0.47MF	5%	50V
C510	1-136-161-00	FILM	0.047MF	5%	50V
C511	1-136-160-00	FILM	0.039MF	5%	50V
C512	1-106-188-00	MYLAR	0.0047MF	10%	50V
C513	1-136-169-00	FILM	0.22MF	5%	50V
C514	1-124-186-00	ELECT	10MF	20%	50V
C601	1-123-359-00	ELECT	47MF	20%	50V
C602	1-123-359-00	ELECT	47MF	20%	50V
C603	1-123-378-00	ELECT	1000MF	20%	63V
C604	1-123-378-00	ELECT	1000MF	20%	63V
C605	1-124-718-51	ELECT	2.2MF	20%	50V
C606	1-124-718-51	ELECT	2.2MF	20%	50V
C607	1-123-378-00	ELECT	1000MF	20%	63V
C608	1-123-378-00	ELECT	1000MF	20%	63V
C609	1-124-724-51	ELECT	47MF	20%	50V
C610	1-124-724-51	ELECT	47MF	20%	50V
C651	1-123-359-00	ELECT	47MF	20%	50V
C652	1-123-359-00	ELECT	47MF	20%	50V
C653	1-123-378-00	ELECT	1000MF	20%	63V
C654	1-123-378-00	ELECT	1000MF	20%	63V
C655	1-124-718-51	ELECT	2.2MF	20%	50V
C656	1-124-718-51	ELECT	2.2MF	20%	50V
C657	1-123-378-00	ELECT	1000MF	20%	63V
C658	1-123-378-00	ELECT	1000MF	20%	63V
C659	1-124-724-51	ELECT	47MF	20%	50V
C660	1-124-724-51	ELECT	47MF	20%	50V
C701	1-130-796-00	FILM	0.47MF	5%	250V
C702	1-130-297-00	FILM	0.01MF	10%	100V
C703	1-123-364-00	ELECT	1000MF	20%	50V
C704	1-123-369-00	ELECT	4.7MF	20%	50V
C711	1-125-382-11	ELECT	10000MF	20%	63V
C712	1-125-382-11	ELECT	10000MF	20%	63V
C751	1-130-796-00	FILM	0.47MF	5%	250V
C752	1-130-297-00	FILM	0.01MF	10%	100V
C761	1-125-382-11	ELECT	10000MF	20%	63V
C762	1-125-382-11	ELECT	10000MF	20%	63V
C801	1-161-744-00	CERAMIC	0.01MF		400V
C802	1-161-744-00	(AEP,G-AEP)...CERAMIC	0.01MF		400V
C901	1-161-494-00	(G-AEP)...CERAMIC	0.022MF	30%	25V
C902	1-161-740-12	(G-AEP)...MICA	470PF	5%	100V
C903	1-161-740-12	(G-AEP)...MICA	470PF	5%	100V
C904	1-161-740-00	(G-AEP)...CERAMIC	470PF	10%	400V
C905	1-161-744-00	(G-AEP)...CERAMIC	10000PF	10%	400V
C906	1-161-744-00	(G-AEP)...CERAMIC	10000PF	10%	400V
C907	1-130-281-00	(G-AEP)...FILM	0.0022MF	5%	100V
C908	1-130-281-00	FILM	0.0022MF	5%	100V
C951	1-161-494-00	CERAMIC	0.022MF	30%	25V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C952	1-161-740-12	(G-AEP)...MICA	470PF	5%	100V
C953	1-161-740-12	(G-AEP)...MICA	470PF	5%	100V
C954	1-161-740-00	(G-AEP)...CERAMIC	470PF	10%	400V
C955	1-130-281-00	FILM	0.0022MF	5%	100V
C956	1-130-281-00	FILM	0.0022MF	5%	100V
C957	1-130-281-00	(G-AEP)...FILM	0.0022MF	5%	100V
⚠CNJ801	1-526-794-11	(AEP,G-AEP)...OUTLET, AC			
⚠CNJ801	1-526-883-00	(US).....OUTLET, AC			
⚠CNJ802	1-526-883-00	(US).....OUTLET, AC			
D001	8-719-107-94	DIODE 1SS202-1			
D002	8-719-107-94	DIODE 1SS202-1			
D003	8-719-107-94	DIODE 1SS202-1			
D004	8-719-918-47	DIODE GL-5NP5			
D005	8-719-910-01	DIODE HZ20-1			
D006	8-719-910-01	DIODE HZ20-1			
D007	8-719-107-94	DIODE 1SS202-1			
D008	8-719-107-94	DIODE 1SS202-1			
D009	8-719-107-94	DIODE 1SS202-1			
D010	8-719-107-94	DIODE 1SS202-1			
D051	8-719-107-94	DIODE 1SS202-1			
D052	8-719-107-94	DIODE 1SS202-1			
D053	8-719-107-94	DIODE 1SS202-1			
D401	8-719-902-97	DIODE EQA01-06R2			
D402	8-719-100-57	DIODE RD10E-B2			
D403	8-719-200-02	DIODE 10E-2			
D404	8-719-200-02	DIODE 10E-2			
D405	8-719-200-02	DIODE 10E-2			
D406	8-719-300-28	DIODE STV-2H			
D407	8-719-200-02	DIODE 10E-2			
D408	8-719-200-02	DIODE 10E-2			
D409	8-719-200-02	DIODE 10E-2			
D451	8-719-902-97	DIODE EQA01-06R2			
D452	8-719-100-57	DIODE RD10E-B2			
D453	8-719-200-02	DIODE 10E-2			
D454	8-719-200-02	DIODE 10E-2			
D455	8-719-200-02	DIODE 10E-2			
D456	8-719-300-28	DIODE STV-2H			
D457	8-719-200-02	DIODE 10E-2			
D458	8-719-200-02	DIODE 10E-2			
D459	8-719-200-02	DIODE 10E-2			
D451	8-719-902-97	DIODE EQA01-06R2			
D452	8-719-100-57	DIODE RD10E-B2			
D601	8-719-931-35	DIODE EQA01-35			
D602	8-719-931-35	DIODE EQA01-35			
D603	8-719-902-97	DIODE EQA01-06R2			
D604	8-719-902-97	DIODE EQA01-06R2			
D651	8-719-931-35	DIODE EQA01-35			
D652	8-719-931-35	DIODE EQA01-35			
D653	8-719-902-97	DIODE EQA01-06R2			
D654	8-719-902-97	DIODE EQA01-06R2			
D701	8-719-200-43	DIODE PB112E			
D702	8-719-511-20	DIODE S1VB20			
D703	8-719-200-02	DIODE 10E-2			
D707	8-719-931-06	DIODE EQB01-06			
D751	8-719-200-43	DIODE PB112E			
D901	8-719-918-57	DIODE GL-5NG27			
D902	8-719-918-57	DIODE GL-5NG27			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D903	8-719-918-57	DIODE GL-5NG27
D904	8-719-918-57	DIODE GL-5NG27
D905	8-719-918-57	DIODE GL-5NG27
D906	8-719-918-57	DIODE GL-5NG27
D907	8-719-918-57	DIODE GL-5NG27
D908	8-719-918-57	DIODE GL-5NG27
D909	8-719-918-57	DIODE GL-5NG27
D910	8-719-918-57	DIODE GL-5NG27
D911	8-719-918-57	DIODE GL-5NG27
D912	8-719-918-57	DIODE GL-5NG27
D913	8-719-918-57	DIODE GL-5NG27
D914	8-719-918-57	DIODE GL-5NG27
F801 ⚠	1-532-237-00	(AEP,G-AEP)...FUSE, TIME-LAG
F801 ⚠	1-532-509-00	(US)....FUSE, GLASS TUBE 6.3A
F802 ⚠	1-532-286-00	(AEP,G-AEP)...FUSE, TIME-LAG
IC001	8-759-101-23	IC UPC1237H
IC201	8-759-905-42	IC NE5534P
IC251	8-759-905-42	IC NE5534P
IC301	8-759-801-74	IC CX20198
IC302	8-759-981-00	IC TL081CP
IC351	8-759-801-74	IC CX20198
IC352	8-759-981-00	IC TL081CP
L101	1-413-101-00	COIL, INPUT
L102	1-413-101-00	COIL, INPUT
L151	1-413-101-00	COIL, INPUT
L152	1-413-101-00	COIL, INPUT
L401	*1-422-031-00	COIL, AIRCORE
L451	*1-422-031-00	COIL, AIRCORE
Q001	8-729-173-37	TRANSISTOR 2SA733-P
Q002	8-762-020-00	TRANSISTOR 2SA835
Q003	8-762-020-00	TRANSISTOR 2SA835
Q004	8-729-173-37	TRANSISTOR 2SA733-P
Q005	8-729-194-57	TRANSISTOR 2SC945-P
Q006	8-729-194-57	TRANSISTOR 2SC945-P
Q007	8-729-194-57	TRANSISTOR 2SC945-P
Q051	8-729-173-37	TRANSISTOR 2SA733-P
Q201	8-729-201-28	TRANSISTOR 2SK146-BL
Q202	8-729-168-22	TRANSISTOR 2SC2682
Q203	8-729-194-57	TRANSISTOR 2SC945-P
Q204	8-729-224-62	TRANSISTOR 2SK246-GR
Q251	8-729-201-28	TRANSISTOR 2SK146-BL
Q252	8-729-168-22	TRANSISTOR 2SC2682
Q253	8-729-194-57	TRANSISTOR 2SC945-P
Q254	8-729-224-62	TRANSISTOR 2SK246-GR
Q401	8-729-103-66	TRANSISTOR UPA68H-M
Q402	8-729-907-11	TRANSISTOR 2SC2071
Q403	8-729-907-11	TRANSISTOR 2SC2071
Q404	8-729-699-51	TRANSISTOR 2SA995
Q405	8-729-114-22	TRANSISTOR 2SA1142
Q406	8-729-104-91	TRANSISTOR 2SA1383-Q
Q407	8-729-104-18	TRANSISTOR 2SA3514-Q
Q408	8-729-104-18	TRANSISTOR 2SA3514-Q
Q409	8-729-201-56	TRANSISTOR 2SK246-GR2
Q410	8-729-201-56	TRANSISTOR 2SK246-GR2
Q411	8-729-907-11	TRANSISTOR 2SC2071

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q412	8-729-993-92	TRANSISTOR 2SA939
Q413	8-729-104-18	TRANSISTOR 2SA3514-Q
Q414	8-729-104-91	TRANSISTOR 2SA1383-Q
Q415	8-729-127-53	TRANSISTOR 2SC2275-P
Q416	8-729-118-53	TRANSISTOR 2SA985-P
Q417	8-729-301-82	TRANSISTOR 2SC3519-Y
Q418	8-729-301-86	TRANSISTOR 2SA1386-Y
Q419	8-729-301-82	TRANSISTOR 2SC3519-Y
Q420	8-729-301-86	TRANSISTOR 2SA1386-Y
Q451	8-729-103-66	TRANSISTOR UPA68H-M
Q452	8-729-907-11	TRANSISTOR 2SC2071
Q453	8-729-907-11	TRANSISTOR 2SC2071
Q454	8-729-699-51	TRANSISTOR 2SA995
Q455	8-729-114-22	TRANSISTOR 2SA1142
Q456	8-729-104-91	TRANSISTOR 2SA1383-Q
Q457	8-729-104-18	TRANSISTOR 2SA3514-Q
Q458	8-729-104-18	TRANSISTOR 2SA3514-Q
Q459	8-729-201-56	TRANSISTOR 2SK246-GR2
Q460	8-729-201-56	TRANSISTOR 2SK246-GR2
Q461	8-729-907-11	TRANSISTOR 2SC2071
Q462	8-729-993-92	TRANSISTOR 2SA939
Q463	8-729-104-18	TRANSISTOR 2SA3514-Q
Q464	8-729-104-91	TRANSISTOR 2SA1383-Q
Q465	8-729-127-53	TRANSISTOR 2SC2275-P
Q466	8-729-118-53	TRANSISTOR 2SA985-P
Q467	8-729-301-82	TRANSISTOR 2SC3519-Y
Q468	8-729-301-86	TRANSISTOR 2SA1386-Y
Q469	8-729-301-82	TRANSISTOR 2SC3519-Y
Q470	8-729-301-86	TRANSISTOR 2SA1386-Y
Q601	8-729-127-53	TRANSISTOR 2SC2275-P
Q602	8-729-118-53	TRANSISTOR 2SA985-P
Q603	8-729-224-62	TRANSISTOR 2SK246-GR
Q604	8-729-224-62	TRANSISTOR 2SK246-GR
Q605	8-729-127-53	TRANSISTOR 2SC2275-P
Q606	8-729-118-53	TRANSISTOR 2SA985-P
Q607	8-729-201-56	TRANSISTOR 2SK246-GR
Q608	8-729-201-56	TRANSISTOR 2SK246-GR
Q609	8-729-907-11	TRANSISTOR 2SC2071
Q610	8-729-993-92	TRANSISTOR 2SA939
Q651	8-729-127-53	TRANSISTOR 2SC2275-P
Q652	8-729-118-53	TRANSISTOR 2SA985-P
Q653	8-729-224-62	TRANSISTOR 2SK246-GR
Q654	8-729-224-62	TRANSISTOR 2SK246-GR
Q655	8-729-127-53	TRANSISTOR 2SC2275-P
Q656	8-729-118-53	TRANSISTOR 2SA985-P
Q657	8-729-201-56	TRANSISTOR 2SK246-GR
Q658	8-729-201-56	TRANSISTOR 2SK246-GR
Q659	8-729-907-11	TRANSISTOR 2SC2071
Q660	8-729-993-92	TRANSISTOR 2SA939
R001	1-247-268-00	CARBON 15K 5% 1/3W
R002	1-247-268-00	CARBON 15K 5% 1/3W
R003 ⚠	1-206-658-00	METAL OXIDE 560 5% 2W F
R004 ⚠	1-206-658-00	METAL OXIDE 560 5% 2W F
R005	1-244-933-00	CARBON 330K 5% 1/3W
R006	1-244-933-00	CARBON 330K 5% 1/3W
R007	1-246-529-00	CARBON 220K 5% 1/4W
R008	1-247-155-00	CARBON 10K 5% 1/4W
R009	1-247-268-00	CARBON 15K 5% 1/2W

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R010	1-246-530-00	CARBON	240K	5%	1/4W	
R011	1-247-163-00	CARBON	22K	5%	1/4W	
R012	1-247-147-00	CARBON	4.7K	5%	1/4W	
R013 ⚠	1-206-658-00	METAL OXIDE	560	5%	2W	F
R014	1-247-163-00	CARBON	22K	5%	1/4W	
R015	1-247-147-00	CARBON	4.7K	5%	1/4W	
R016	1-247-163-00	CARBON	22K	5%	1/4W	
R017	1-247-147-00	CARBON	4.7K	5%	1/4W	
R018 ⚠	1-206-674-00	METAL OXIDE	2.7K	5%	2W	F
R019	1-247-165-00	CARBON	27K	5%	1/4W	
R020	1-247-171-00	CARBON	47K	5%	1/4W	
R021 ⚠	1-213-151-11	METAL OXIDE	4.7K	5%	1W	F
R022	1-247-256-00	CARBON	4.7K	5%	1/2W	
R023	1-247-147-00	CARBON	4.7K	5%	1/4W	
R024	1-247-717-11	CARBON	2.2K	5%	1/4W	
R025	1-247-147-00	CARBON	4.7K	5%	1/4W	
R101	1-246-545-00	CARBON	1M	5%	1/4W	
R102	1-246-545-00	CARBON	1M	5%	1/4W	
R103	1-246-545-00	CARBON	1M	5%	1/4W	
R104	1-246-545-00	CARBON	1M	5%	1/4W	
R105	1-246-545-00	CARBON	1M	5%	1/4W	
R106	1-246-545-00	CARBON	1M	5%	1/4W	
R107	1-247-131-00	CARBON	1K	5%	1/4W	
R108	1-247-131-00	CARBON	1K	5%	1/4W	
R109	1-247-131-00	CARBON	1K	5%	1/4W	
R110	1-247-123-00	(G-AEP)...CARBON	470	5%	1/4W	
R111	1-247-123-00	(G-AEP)...CARBON	470	5%	1/4W	
R112	1-247-123-00	(G-AEP)...CARBON	470	5%	1/4W	
R113	1-247-123-00	(G-AEP)...CARBON	470	5%	1/4W	
R114	1-247-123-00	(G-AEP)...CARBON	470	5%	1/4W	
R115	1-247-119-00	(G-AEP)...CARBON	330	5%	1/4W	
R116	1-247-119-00	(G-AEP)...CARBON	330	5%	1/4W	
R117	1-247-123-00	(G-AEP)...CARBON	470	5%	1/4W	
R201	1-247-280-00	CARBON	47K	5%	1/3W	
R202	1-247-228-00	CARBON	330	5%	1/3W	
R203	1-247-216-00	CARBON	100	5%	1/3W	
R204	1-249-176-51	CARBON	39	5%	1/3W	
R205	1-249-207-51	CARBON	750	5%	1/3W	
R206	1-249-207-51	CARBON	750	5%	1/3W	
R208	1-249-185-51	CARBON	91	5%	1/3W	
R209	1-247-228-00	CARBON	330	5%	1/3W	
R210	1-249-176-51	CARBON	39	5%	1/3W	
R211	1-247-224-00	CARBON	220	5%	1/3W	
R212	1-249-298-11	CARBON	4.7M	5%	1/3W	
R213	1-247-216-00	CARBON	100	5%	1/3W	
R214	1-214-907-00	METAL	56K	1%	1/2W	
R215	1-214-880-00	METAL	4.7K	1%	1/2W	
R216	1-214-840-00	METAL	100	1%	1/2W	
R217	1-214-812-00	METAL	6.8	1%	1/2W	
R218	1-247-224-00	CARBON	220	5%	1/3W	
R301	1-244-937-00	CARBON	470K	5%	1/3W	
R302	1-247-232-00	CARBON	470	5%	1/3W	
R303	1-247-212-00	CARBON	68	5%	1/3W	
R304	1-247-264-00	CARBON	10K	5%	1/3W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R305	1-247-240-00	CARBON	1K	5%	1/3W	
R306	1-214-868-00	METAL	1.5K	1%	1/2W	
R307	1-214-862-00	METAL	820	1%	1/2W	
R308	1-214-862-00	METAL	820	1%	1/2W	
R309	1-244-937-00	CARBON	470K	5%	1/3W	
R310	1-247-212-00	CARBON	68	5%	1/3W	
R311	1-247-228-00	CARBON	330	5%	1/3W	
R312	1-214-868-00	METAL	1.5K	1%	1/2W	
R313	1-244-937-00	CARBON	470K	5%	1/3W	
R401	1-244-945-00	CARBON	1M	5%	1/3W	
R402 ⚠	1-212-990-00	FUSIBLE	220	5%	1/2W	F
R403 ⚠	1-212-990-00	FUSIBLE	220	5%	1/2W	F
R404	1-247-270-00	CARBON	18K	5%	1/3W	
R405	1-247-224-00	CARBON	220	5%	1/3W	
R406	1-247-236-00	CARBON	680	5%	1/3W	
R407	1-247-224-00	CARBON	220	5%	1/3W	
R409	1-247-200-00	CARBON	22	5%	1/3W	
R410	1-247-200-00	CARBON	22	5%	1/3W	
R411 ⚠	1-247-131-00	CARBON	1K	5%	1/4W	F
R412	1-247-256-00	CARBON	4.7K	5%	1/3W	
R413 ⚠	1-217-446-00	FUSIBLE	100	5%	1/2W	F
R414	1-247-224-00	CARBON	220	5%	1/3W	
R415	1-247-274-00	CARBON	27K	5%	1/2W	
R416 ⚠	1-217-446-00	FUSIBLE	100	5%	1/2W	F
R417	1-214-867-00	METAL	1.3K	1%	1/2W	
R418	1-214-872-00	METAL	2.2K	1%	1/2W	
R419	1-214-901-00	METAL	33K	1%	1/2W	
R420	1-247-244-00	CARBON	1.5K	5%	1/3W	
R421	1-247-243-00	CARBON	1.3K	5%	1/3W	
R422	1-247-234-00	CARBON	560	5%	1/3W	
R425 ⚠	1-217-454-00	FUSIBLE	470	5%	1/2W	F
R426 ⚠	1-212-974-00	FUSIBLE	47	5%	1/2W	F
R427 ⚠	1-212-974-00	FUSIBLE	47	5%	1/2W	F
R428 ⚠	1-206-640-00	METAL OXIDE	100	5%	2W	F
R429 ⚠	1-217-434-00	FUSIBLE	10	5%	1/2W	F
R430 ⚠	1-217-434-00	FUSIBLE	10	5%	1/2W	F
R431 ⚠	1-217-434-00	FUSIBLE	10	5%	1/2W	F
R432 ⚠	1-217-434-00	FUSIBLE	10	5%	1/2W	F
R433	1-205-647-00	CEMENTED	0.22	5%	5W	
R434	1-205-647-00	CEMENTED	0.22	5%	5W	
R435 ⚠	1-247-135-00	CARBON	1.5K	5%	1/4W	F
R436 ⚠	1-247-135-00	CARBON	1.5K	5%	1/4W	F
R437	1-205-647-00	CEMENTED	0.22	5%	5W	
R438	1-205-647-00	CEMENTED	0.22	5%	5W	
R439	1-217-433-00	FUSIBLE	8.2	5%	1/2W	F
R440	1-217-582-00	CEMENTED	8.2	10%	5W	
R441 ⚠	1-206-658-00	METAL OXIDE	560	5%	2W	F
R442	1-247-234-00	CARBON	560	5%	1/3W	
R443	1-247-234-00	CARBON	560	5%	1/3W	
R444 ⚠	1-212-865-11	FUSIBLE	22	5%	1/2W	F
R452 ⚠	1-212-990-00	FUSIBLE	220	5%	1/2W	F
R453 ⚠	1-212-990-00	FUSIBLE	220	5%	1/2W	F
R461 ⚠	1-247-131-00	CARBON	1K	5%	1/4W	F
R463 ⚠	1-217-446-00	FUSIBLE	100	5%	1/2W	F
R466 ⚠	1-217-446-00	FUSIBLE	100	5%	1/2W	F
R475 ⚠	1-217-454-00	FUSIBLE	470	5%	1/2W	F
R476 ⚠	1-212-974-00	FUSIBLE	47	5%	1/2W	F
R477 ⚠	1-212-974-00	FUSIBLE	47	5%	1/2W	F

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R478 ⚠	1-206-640-00	METAL OXIDE	100	5%	2W	F
R479 ⚠	1-217-434-00	FUSIBLE	10	5%	1/2W	F
R480 ⚠	1-217-434-00	FUSIBLE	10	5%	1/2W	F
R481 ⚠	1-217-434-00	FUSIBLE	10	5%	1/2W	F
R482 ⚠	1-217-434-00	FUSIBLE	10	5%	1/2W	F
R485 ⚠	1-247-135-00	CARBON	1.5K	5%	1/4W	F
R486 ⚠	1-247-135-00	CARBON	1.5K	5%	1/4W	F
R489	1-217-433-00	FUSIBLE	8.2	5%	1/2W	F
R491 ⚠	1-206-658-00	METAL OXIDE	560	5%	2W	F
R494 ⚠	1-212-865-11	FUSIBLE	22	5%	1/2W	F
R517	1-246-545-00	CARBON	1M	5%	1/4W	
R518	1-247-119-00	CARBON	330	5%	1/4W	
R520	1-247-151-00	CARBON	6.8K	5%	1/4W	
R521	1-247-138-00	CARBON	2K	5%	1/4W	
R523	1-247-149-00	CARBON	5.6K	5%	1/4W	
R548	1-247-128-00	CARBON	750	5%	1/4W	
R601	1-247-224-00	CARBON	220	5%	1/3W	
R602	1-247-224-00	CARBON	220	5%	1/3W	
R603	1-247-234-00	CARBON	560	5%	1/3W	
R604	1-247-234-00	CARBON	560	5%	1/3W	
R605	1-214-885-00	METAL	7.5K	1%	1/2W	
R606	1-214-884-00	METAL	6.8K	1%	1/2W	
R607	1-214-860-00	METAL	680	1%	1/2W	
R608	1-214-861-00	METAL	750	1%	1/2W	
R651	1-247-224-00	CARBON	220	5%	1/3W	
R652	1-247-224-00	CARBON	220	5%	1/3W	
R653	1-247-234-00	CARBON	560	5%	1/3W	
R654	1-247-234-00	CARBON	560	5%	1/3W	
R655	1-214-885-00	METAL	7.5K	1%	1/2W	
R656	1-214-884-00	METAL	6.8K	1%	1/2W	
R657	1-214-860-00	METAL	680	1%	1/2W	
R658	1-214-861-00	METAL	750	1%	1/2W	
R701 ⚠	1-212-974-00	FUSIBLE	47	5%	1/2W	F
R702 ⚠	1-247-188-00	CARBON	4.7	5%	1/2W	F
R703 ⚠	1-247-272-00	CARBON	22K	5%	1/2W	F
R704 ⚠	1-206-661-11	METAL OXIDE	750	5%	2W	F
R705 ⚠	1-206-661-11	METAL OXIDE	750	5%	2W	F
R706 ⚠	1-206-660-00	METAL OXIDE	680	5%	2W	F
R707 ⚠	1-206-656-00	METAL OXIDE	470	5%	2W	F
R751 ⚠	1-212-974-00	FUSIBLE	47	5%	1/2W	F
R808 ⚠	1-212-950-00	FUSIBLE	4.7	5%	1/2W	F
R809 ⚠	1-212-950-00	FUSIBLE	4.7	5%	1/2W	F
R858 ⚠	1-212-950-00	FUSIBLE	4.7	5%	1/2W	F
R859 ⚠	1-212-950-00	FUSIBLE	4.7	5%	1/2W	F
RT301	1-224-253-XX	RES, ADJ, SOLID 22K				
RT351	1-224-253-XX	RES, ADJ, SOLID 22K				
RT401	1-224-550-21	RES, ADJ, METAL GLAZE 220				
RT402	1-224-248-XX	RES, ADJ, SOLID 470				
RT451	1-224-550-21	RES, ADJ, METAL GLAZE 220				
RT452	1-224-248-XX	RES, ADJ, SOLID 470				
RV301	1-230-654-11	RES, VAR, CARBON 100K/100K (BALANCE)				
RV302	1-230-657-11	RES, VAR, CARBON 10K/10K (ATTENUATOR)				
RV351	1-230-654-11	RES, VAR, CARBON 100K/100K (BALANCE)				
RV352	1-230-657-11	RES, VAR, CARBON 10K/10K (ATTENUATOR)				
RV501	1-230-655-11	RES, VAR, CARBON 24K/24K (BASS)				
RV502	1-230-656-11	RES, VAR, CARBON 37K/37K (TREBLE)				

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV551	1-230-655-11	RES, VAR, CARBON 24K/24K (BASS)
RV552	1-230-656-11	RES, VAR, CARBON 37K/37K (TREBLE)
RY001	1-515-503-00	RELAY
RY002	1-515-356-00	RELAY
RY003	1-515-356-00	RELAY
RY004	1-515-495-00	RELAY
S001	1-570-093-11	SWITCH, ROTARY (SPEAKERS)
S101	1-570-081-11	SWITCH, ROTARY SLIDE (AUDIO REC OUT SELECTOR)
S201	1-570-082-11	SWITCH, ROTARY SLIDE (REMOTE) (CARTRIDGE LOAD)
S301	1-570-078-11	SWITCH, PUSH (1 KEY)(SUBSONIC)
S501	1-570-079-11	SWITCH, PUSH (2 KEY)(TONE)
S502	1-570-079-11	SWITCH, PUSH (2 KEY)(BASS BOOST)
S801 ⚠	1-554-880-11	SWITCH, PUSH (AC POWER)(1 KEY)(POWER)
S801 ⚠	1-552-246-12	(US)...SWITCH, PUSH (POWER)
S901	1-570-075-11	SWITCH, PUSH (7 KEY) (VIDEO 1,2/TAPE 1,2/CD/TUNER/PHONO)
T801 ⚠	1-448-189-11	(US).....TRANSFORMER, POWER
T801 ⚠	1-448-190-11	(AEP,G-AEP)...TRANSFORMER, POWER

ACCESSORY & PACKING MATERIAL

Part No.	Description
2-297-403-00	SHEET (LARGE), PROTECTION
3-701-630-00	BAG, POLYETHYLENE
3-760-469-11	MANUAL, INSTRUCTION
4-885-949-01	CUSHION (FRONT), UPPER
4-885-950-01	CUSHION (REAR), UPPER
4-885-951-01	CUSHION (FRONT), LOWER
4-885-952-01	CUSHION (REAR), LOWER
4-908-814-01	INDIVIDUAL CARTON

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

© 1985