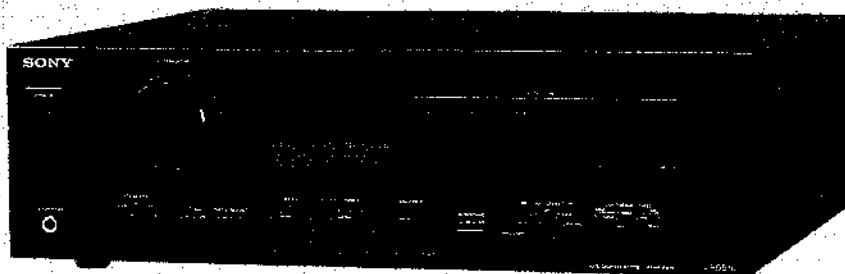


TA-F555ES

158
US Model
Canadian Model
AEP Model



INTEGRATED STEREO AMPLIFIER

SPECIFICATIONS

Amplifier section

Continuous RMS power output

At 20 Hz - 20 kHz, 0.004 % THD
100 + 100 watts (8 ohms)
At 20 Hz - 20 kHz, 0.01 % THD
100 + 100 watts (4 ohms)
According to DIN 45500
100 + 100 watts (8 ohms)

Power bandwidth (IHF)

5 Hz - 100 kHz (50 watts output, 8 ohms,
0.02 % THD)
5 Hz - 80 kHz (50 watts output, 4 ohms,
0.02 % THD)

Dynamic headroom

1 dB (8 or 4 ohms, '78 IHF)

Harmonic distortion

Less than 0.004% at rated output (8 ohms)
Less than 0.01 % at rated output (4 ohms)

Intermodulation (IM) distortion

(60 Hz : 7 kHz = 4 : 1)

Less than 0.004% at rated output (8 ohms)
Less than 0.01% at rated output (4 ohms)

Slew rate

100 V/μ sec.

250 V/μ sec. (inside)

Dynamic range

TUNER, AUX, CD, TAPE 1, 2: 120 dB

Channel separation

PHONO MC: 85 dB

(at 1 kHz)

MM: 95 dB

Frequency response

TUNER, AUX, CD, TAPE 1, 2: 88 dB

PHONO: RIAA equalization curve ±0.2 dB

TUNER, AUX, CD, TAPE 1, 2:

2 Hz - 200 kHz ±0 dB

Residual noise


Less than 28 μV (8 ohms, network A)

Damping factor


125 (8 ohms, 1 kHz)

— Continued on page 2—

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET
UNE MARQUE  SUR LES DIAGRAMMES SCHÉ-
MATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES
POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REM-
PLACER CES COMPOSANTS QUE PAR DES PIÈCES
SONY DONT LES NUMÉROS SONT DONNÉS DANS CE
MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR
SONY.

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.



SONY®

SERVICE MANUAL

TA-F555ES

Inputs

	Setting of the CARTRIDGE LOAD selector		Sensitivity	Impedance	Capacitance	Maximum input capability (1 kHz)	S/N (weighting network, input level)
	MM	MC					
PHONO	330 pF	100 pF	2.5 mV	50 k ohm	330 pF	150 mV	81 dB 83 dB* (A, 2.5 mV)
	40 Ω	3 Ω			100 Ω	30 Ω	
TUNER, AUX, CD TAPE 1, 2	—		150 mV	50 k ohm	—	—	97 dB 102 dB* (A, 150 mV)

* 78 IHF

Outputs

REC OUT 1, 2
Voltage 150 mV
Impedance 1 k ohm
SPEAKER A, B
Accepts speakers of 4 to 16 ohms.
HEADPHONES
Accepts low and high impedance headphones.

Tone controls

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

Bass boost

+4 dB at 50 Hz

Subsonic filter

6 dB/octave attenuation below 15 Hz

General System

Integrated stereo amplifier

Power amplifier section
Legato linear, pure-complementary, triple-Darlington ICL OCL SEPP dc power amplifier with all stages direct coupled, dc servo amp incorporated

Preamplifier section

Equalizer section: Low-noise ICL OCL equalizer amp with dc servo amp (MC or MM cartridge load selectable)

Audio Current Transfer section: Bridge-balance type voltage-to-current converter with dc servo amp

Constant current shunt regulator

Power requirements

AEP model: 220 V ac, 50/60 Hz
Canadian model: 120 V ac, 60 Hz

Power consumption

AEP model: 240 watts
Canadian model: 480 VA

AC outlets

AEP model: 1 switched, 100 watts max.
Canadian model: 2 switched, total 100 watts max.
2 unswitched, total 100 watts max.

Dimensions

Approx. 430 × 130 × 367 mm (w/h/d)
(17 × 5¹/₈ × 14¹/₂ inches)

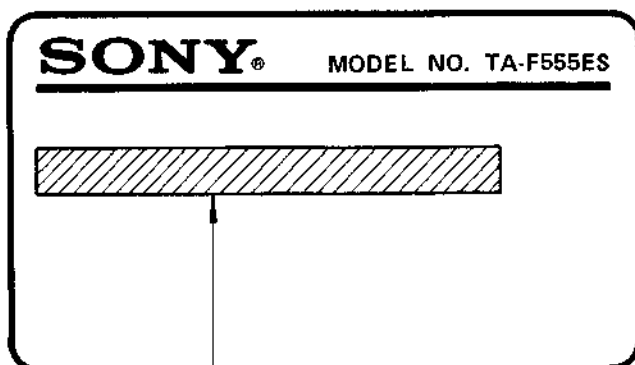
Weight

including projecting parts and controls
Approx. 13 kg (28 lbs 11 oz) net
Approx. 15 kg (33 lbs 2 oz) in shipping carton

0 dB = 0.775 V

MODEL IDENTIFICATION

— Specification Label —



US model:	120 V ~ 60 Hz	240W
Canadian model:	120 V ~ 60 Hz	480 VA
AEP model:	220 V ~ 50/60 Hz	240W

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 microamperes). 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)

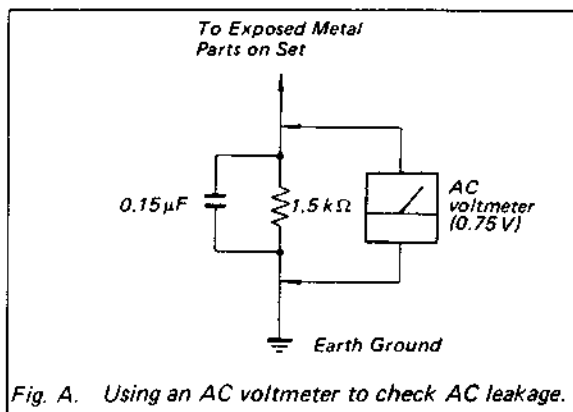


Fig. A. Using an AC voltmeter to check AC leakage.

FEATURES

The TA-F555ES integrated stereo amplifier is the most recent addition to the Sony line of top-quality amplifiers. The TA-F555ES incorporates a number of technical breakthroughs in internal construction and layout, circuit design and individual components, and has succeeded in getting the most from the new digital audio sources such as from CDs (compact discs) and tapes recorded with the PCM (Pulse Code Modulation) system. The TA-F555ES establishes a new standard of performance, as its specifications will attest and as your listening will confirm.

MAJOR DESIGN ELEMENTS AND CIRCUIT FEATURES

Audio current drive amplifier

An unusual current transfer circuit design keeps the preamplifier and power amplifier stages electrically separate, thus equalling the quality of separate amplifiers.

Legato linear power amplifier stage

The operation of the power amplifier stage is stable without any observable distortion up through the higher frequencies. We call this power amplifier "legato linear", because its switching distortion is very low and its output waveform smooth.

Shunt regulator for power supply section

The current-drive technique is also applied to the power supply regulator. This amplifier employs a constant current shunt regulator, instead of a conventional voltage regulator, to permit separate powering of the preamplifier and power amplifier stages.

Wide dynamic range of 120 dB

The use of Audio Current Transfer technique and legato linear power amplifier stage has made the amplifier's dynamic range as wide as 120 dB in actual use. This assures high-quality reproduction of digital audio sources.

For more detailed information, see "Technical Information" on page 6, 7.

TA-F555ES

FEATURES

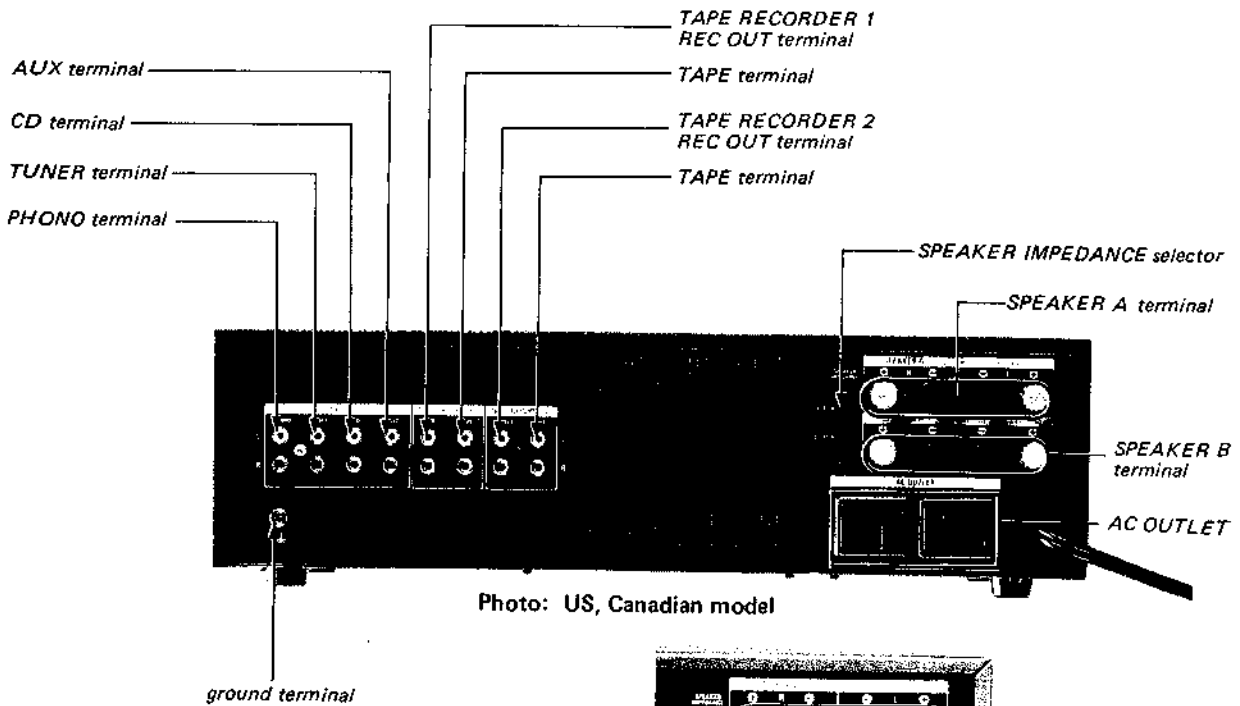
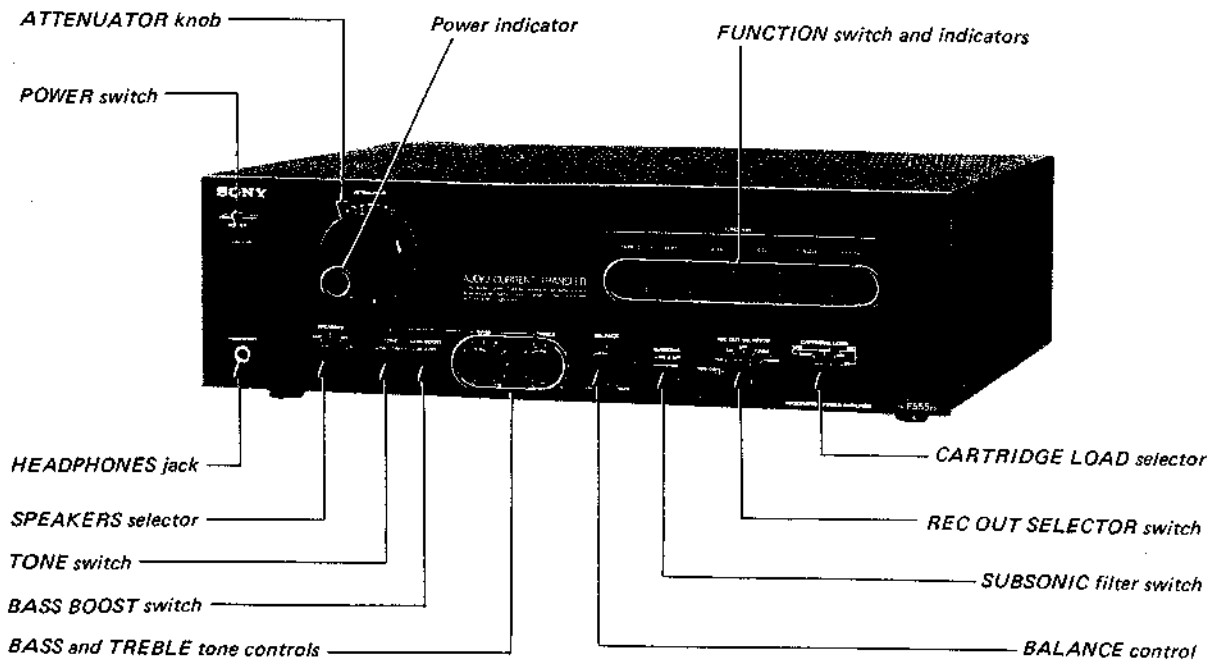


Photo: US, Canadian model

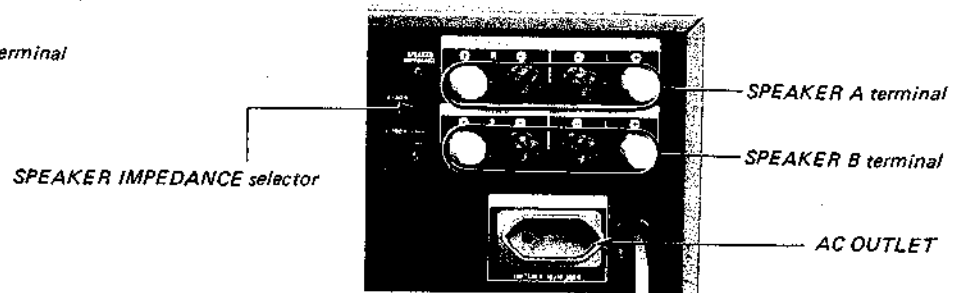
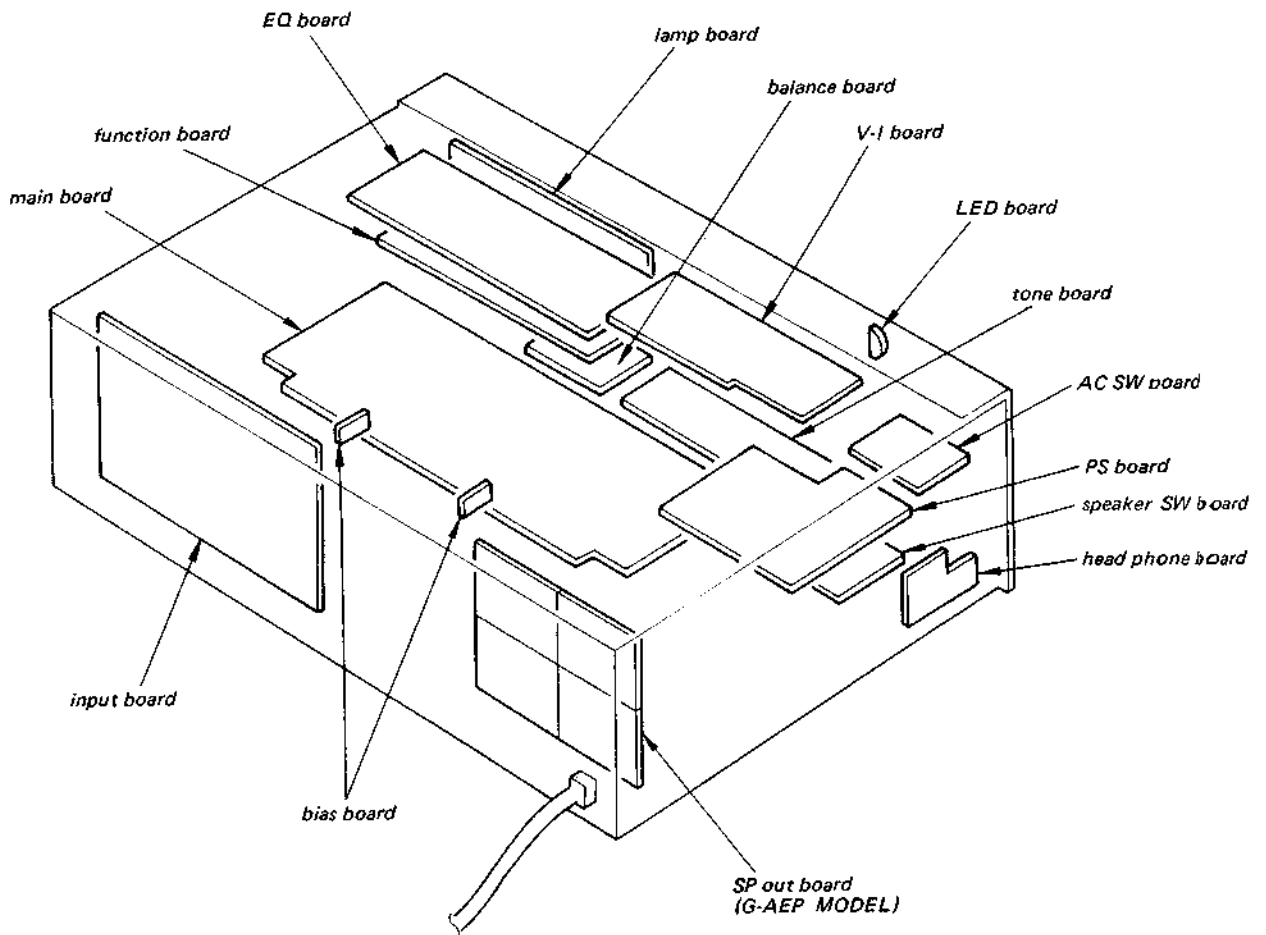


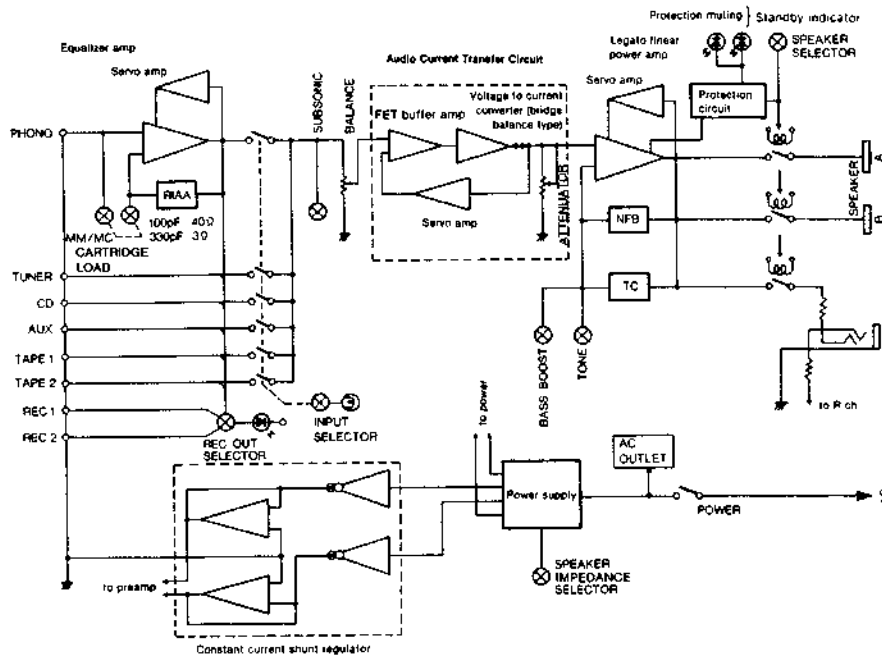
Photo: AEP, G-AEP model

CIRCUIT BOARDS LOCATION



TECHNICAL INFORMATION

BLOCK DIAGRAM

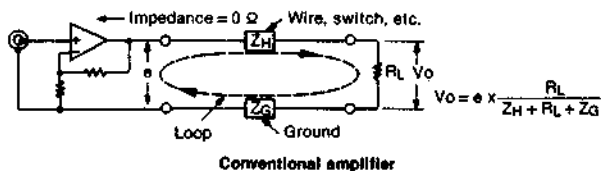


AUDIO CURRENT DRIVE AMPLIFIER

An integrated stereo amplifier consists of two preamplifiers and two power amplifiers—one for the left and one for the right channel—plus a power supply section to power them.

The best integrated stereo amplifier design calls for four amplifier stages which are completely separate, so that there is no electrical interference among them.

Sony's design philosophy concerning integrated stereo amplifiers is to match or excel the quality of separate amplifiers. To realize this, Sony developed the Audio Current Transfer (A.C.T.) technique. As you know, conventional amplifiers employ a voltage transfer technique to transmit signals. This voltage transfer design has, however, a problem in that the quality of the signals may be greatly affected by the wire used, the contact resistance of the connectors and switches, and by the current flowing through the ground.

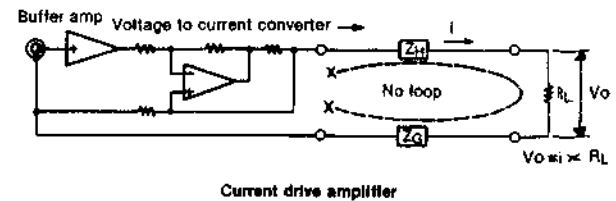


Sony's A.C.T. circuit eliminates this problem.

The first stage of the A.C.T. circuit consists of a buffer amplifier which provides a high input impedance and a low output impedance.

Next comes the voltage-to-current inverter whose signal source impedance is infinite.

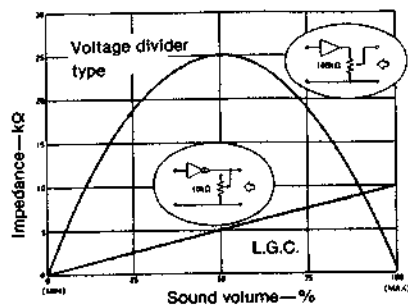
This means that the preamplifier output impedance seen from the power amplifier stage is infinite.



This circuit reduces the distortion caused by auxiliary devices, such as switches and volume controls to a negligible level.

LINEAR GAIN CONTROL ATTENUATOR

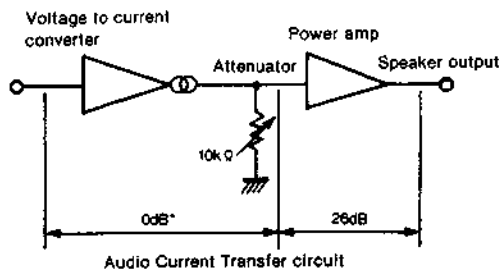
To enable an accurate signal to be transferred to the power amplifier stage, a linear gain control attenuator (current-drive type) is inserted between the preamplifier and power amplifier stages. In this configuration, the linear gain control attenuator directly control the gain of the preamplifier stage. As shown in the diagram, the linear gain control attenuator's impedance becomes lower as the volume decreases. (The impedance of the conventional voltage-divider type gain control used in most amplifiers does not.) This means that the lower the volume, the better the signal-to-noise ratio, separation and distortion. As amplifiers are seldom operated at maximum volume in actual use, a linear gain control attenuator offers great advantages at normal listening level.



Relationship of sound volume and impedance in two types of volume controls

WIDE DYNAMIC RANGE OF 120 dB IN ACTUAL USE

To get the most from a high-quality input source such as a compact disc, the amplifier should further have a wider dynamic range than the input source. In the Audio Current Transfer circuit, the voltage to current converter's gain is reduced to 0 dB when the listening level is 30 dB lower than the maximum volume (at maximum volume, the gain is 20 dB.) This means the noise generated at the speaker outputs can be calculated with the equation "input noise + gain of the power amplifier stage", that is, $-120 \text{ dBs} + 26 \text{ dB} = -94 \text{ dB}$. As a result, the dynamic range of the TA-F555ES with the maximum power output of 100 watts is:
 $31.3 \text{ dBs} - (-94 \text{ dB}) = 125.3 \text{ dB}$
 This wide dynamic range is sufficient for reproducing a compact disc whose dynamic range is about 90 dB.



* Gain of the power amp
 0 dB at a volume 20 dB lower than maximum volume
 20 dB at maximum volume

LEGATO LINEAR POWER AMPLIFIER STAGE

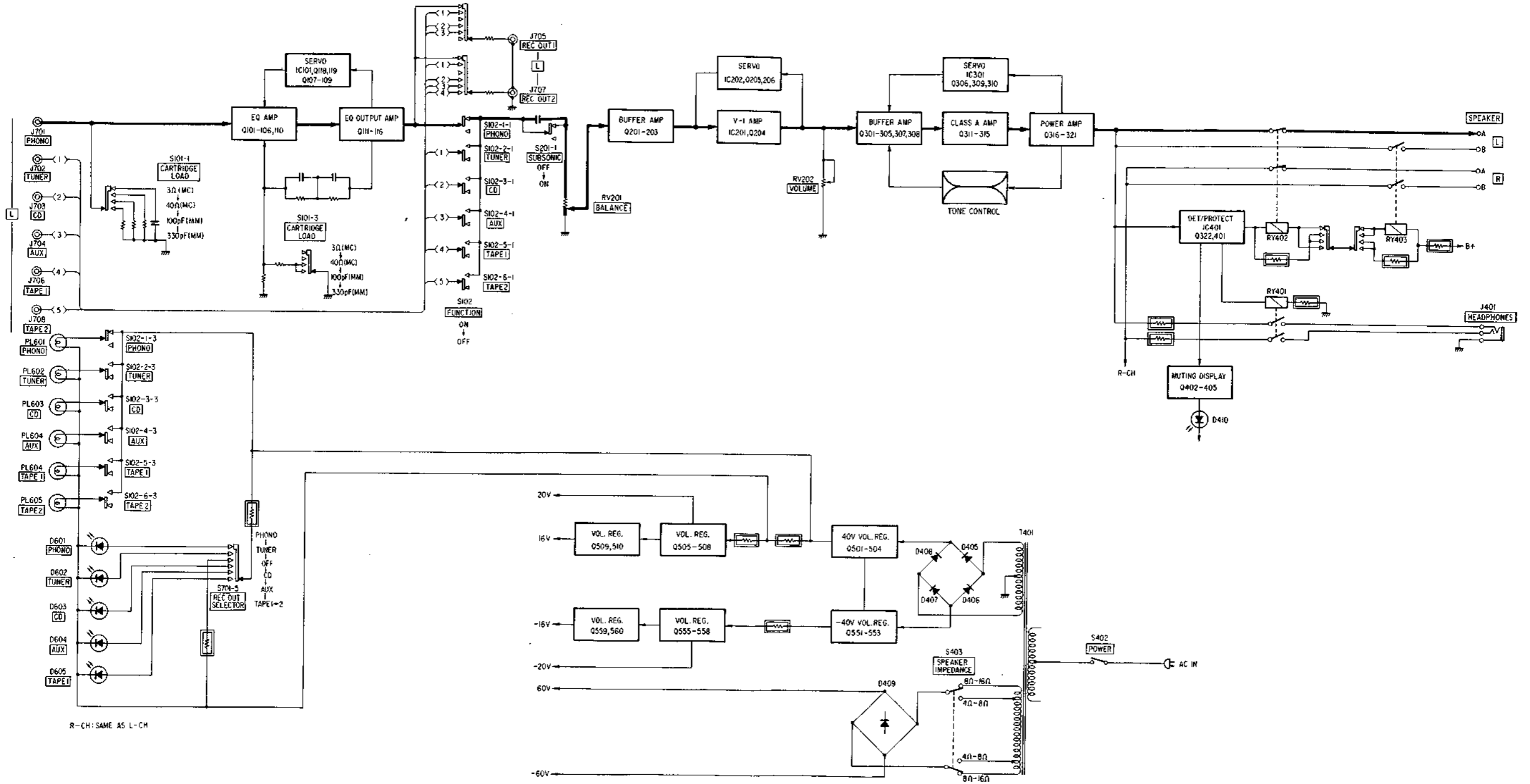
Amplifiers now employ a variety of power output stage designs to reduce crossover and switching distortion. Sony's basic approach to power output stage design is not a new one, but a greatly improved class B push-pull power amplifier which we call the "legato linear" amplifier. In the legato linear amplifier, high f_T transistors are employed to extend frequency response and accelerate the switching response. The resistance of the emitter resistor used for the amp's bias network is 0.1 ohm, the lowest possible value which will keep the output stage stable and output distortion minimum. As a result of this circuit design, this amplifier establishes the highest standards of distortion reduction.

CONSTANT CURRENT SHUNT REGULATOR

The preamplifier stage is powered through a shunt regulator. This shunt regulator is designed to keep the power supply current constant, so that the preamplifier power supply has an infinite impedance when seen from the power amplifier power supply and has almost no impedance when seen from the preamplifier stage. This powering system keeps the preamplifier and power amplifier power supplies electrically separate and provides well-regulated power for each stage.

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

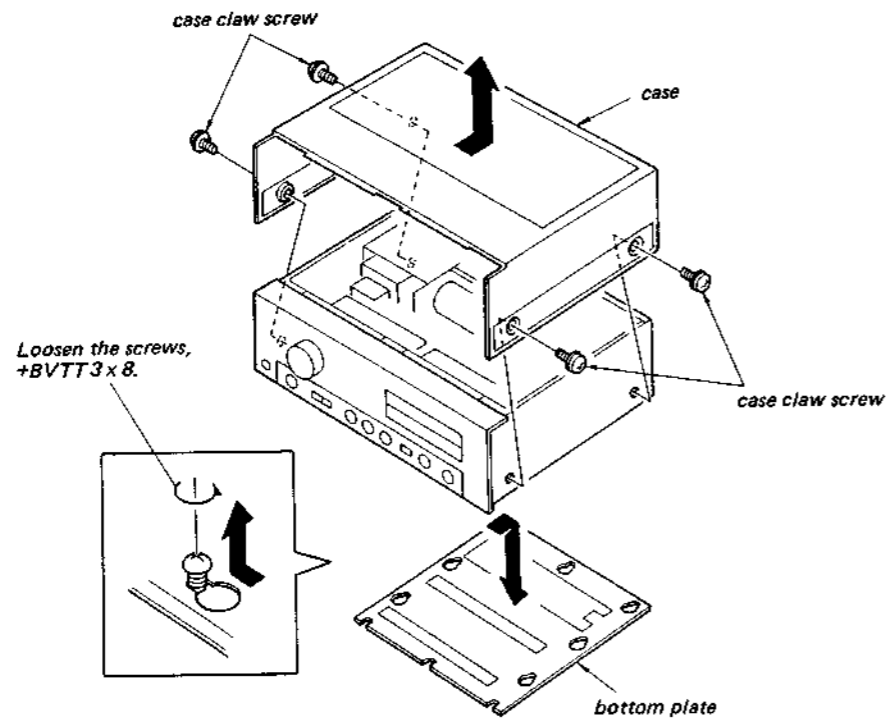


R-CH: SAME AS L-CH

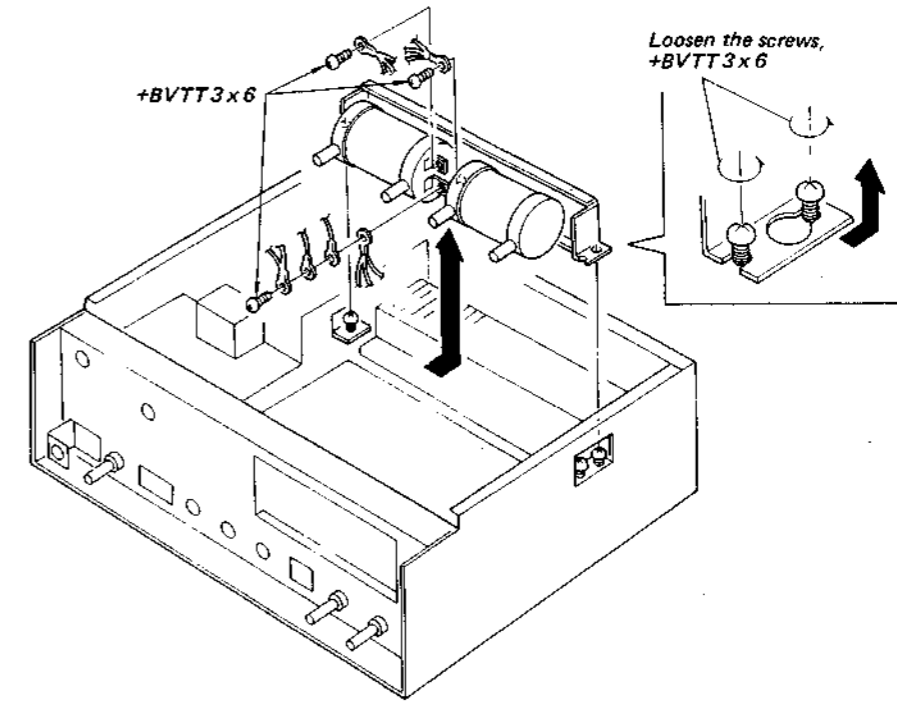
SECTION 2
DISASSEMBLY

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

CASE, BOTTOM PLATE

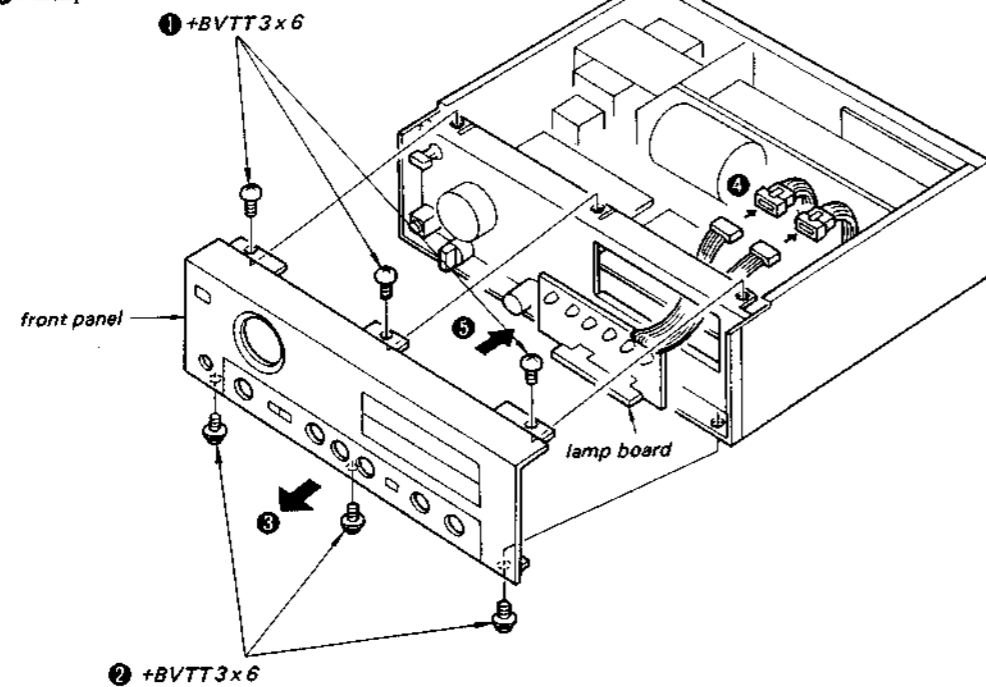


CAPACITOR (C411, 412)

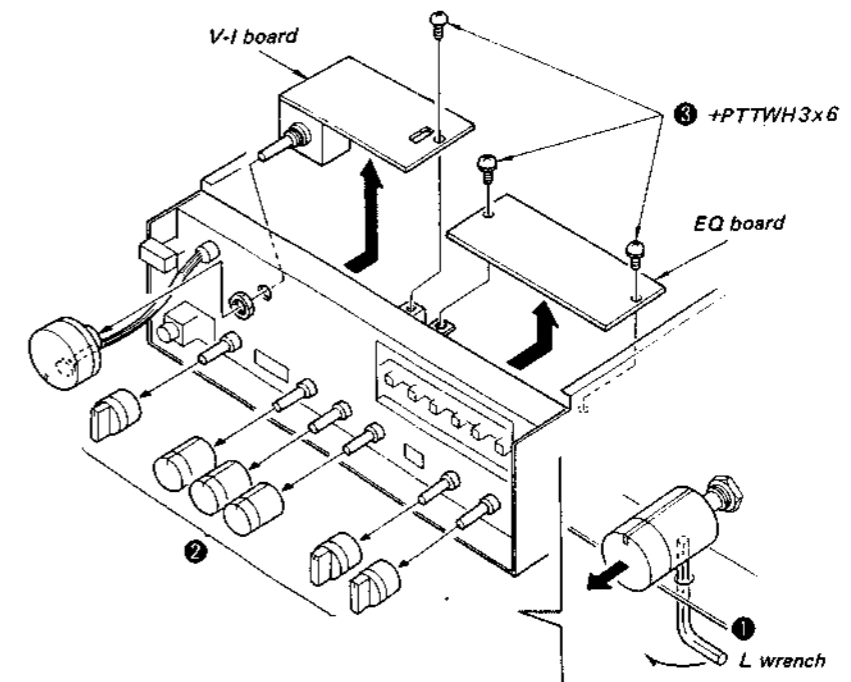


FRONT PANEL, LAMP BOARD

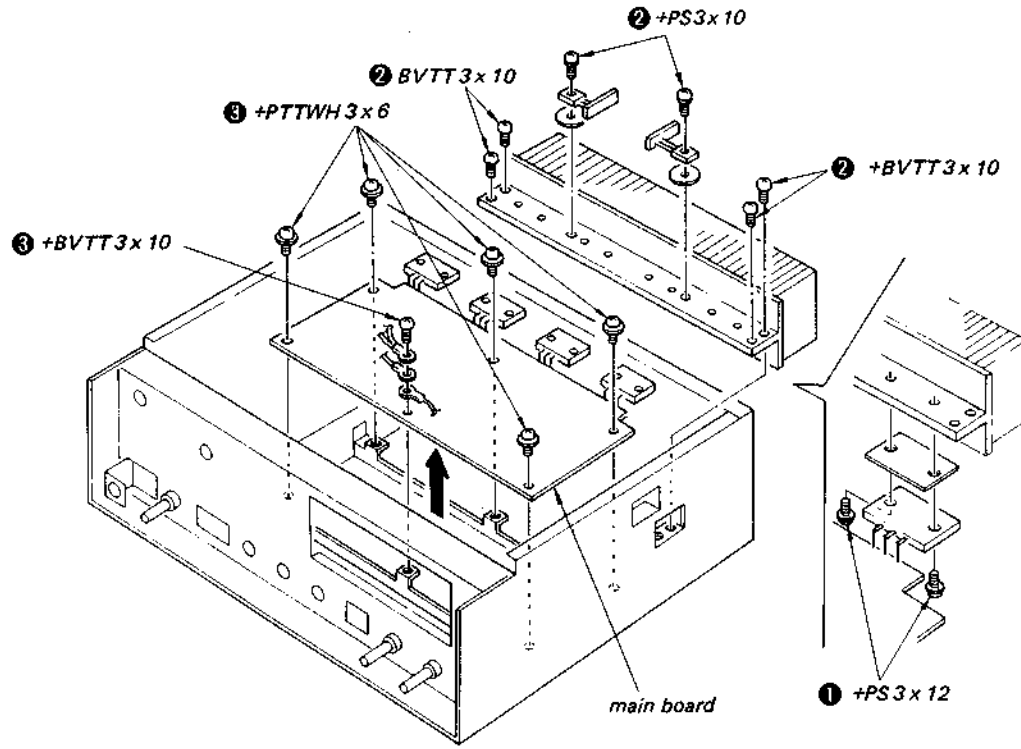
- ① - ③: front panel
- ④, ⑤: lamp board



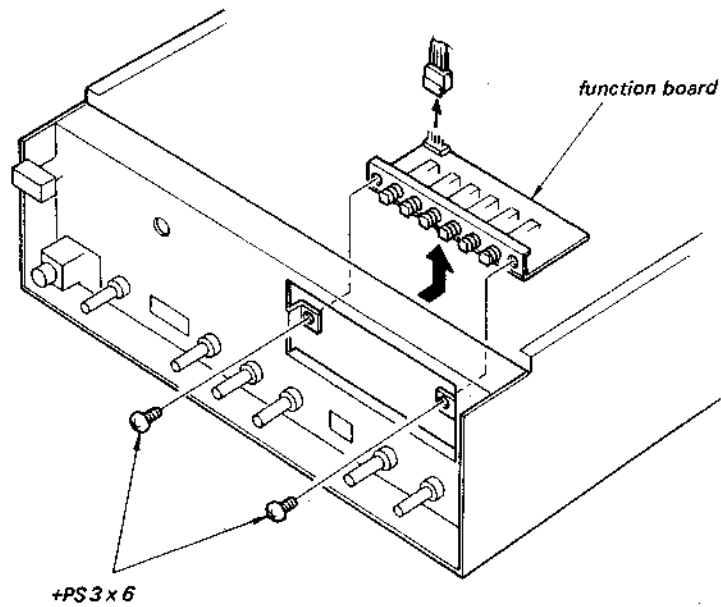
KNOBS, V-I BOARD, EQ BOARD



MAIN BOARD, HEAT SINK

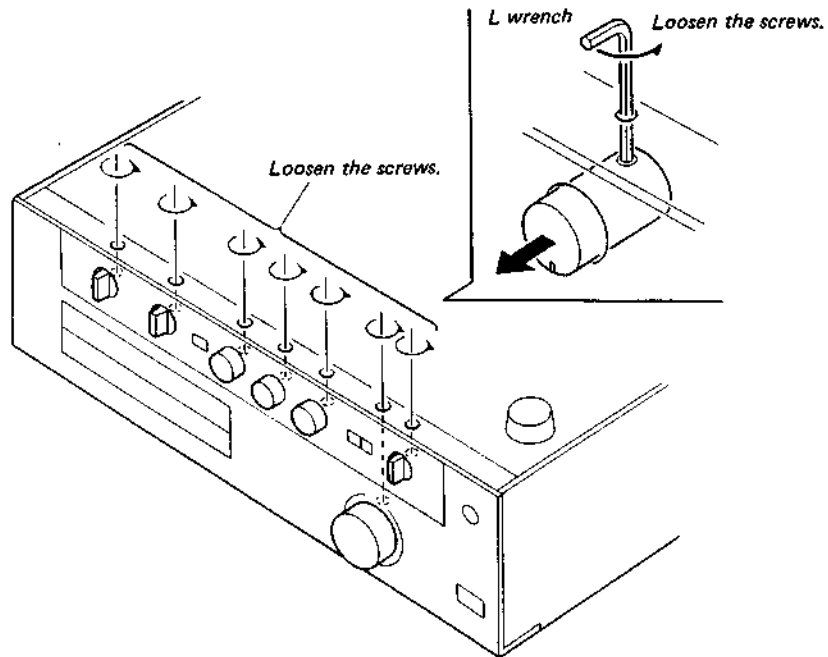


FUNCTION BOARD

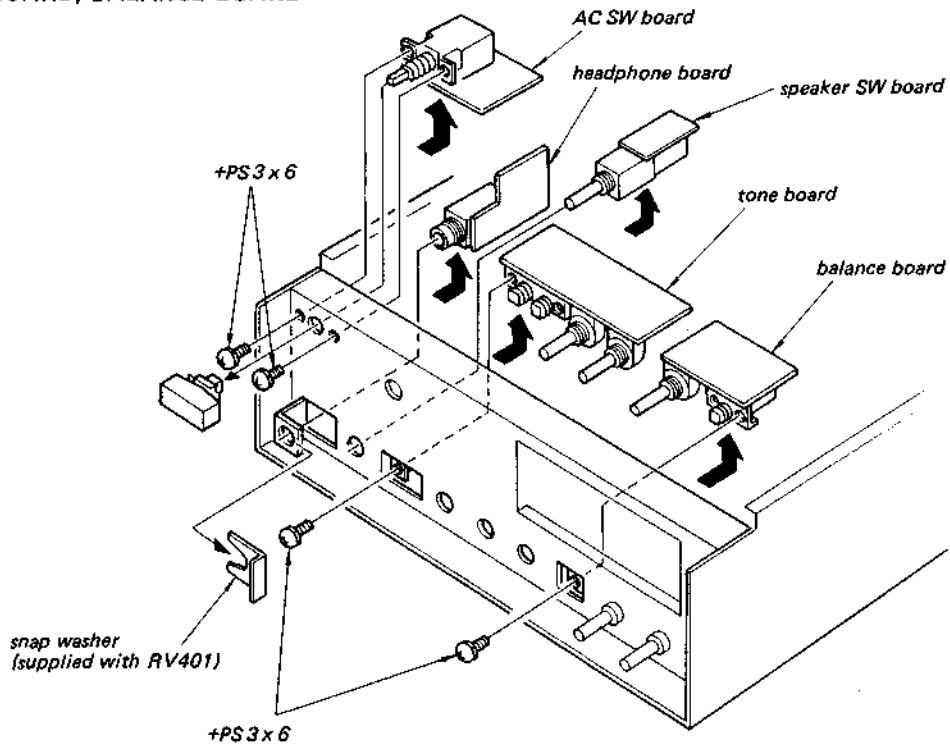


KNOBS

- When removing knobs with front panel installed.

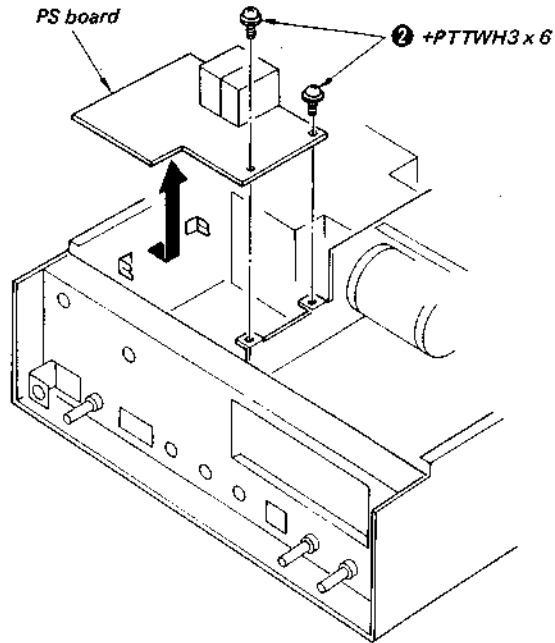


**AC SW BOARD, HEADPHONE BOARD, SPEAKER SW BOARD,
TONE BOARD, BALANCE BOARD**



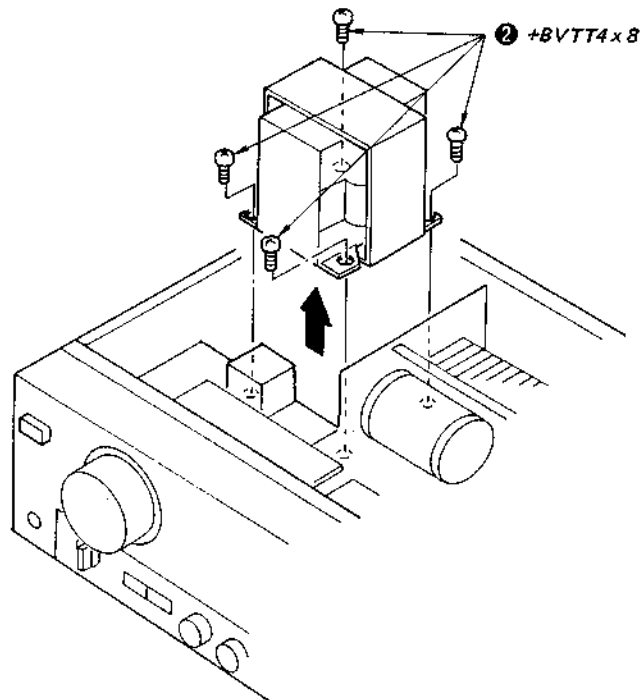
PS BOARD

① Remove the case (see page 10).



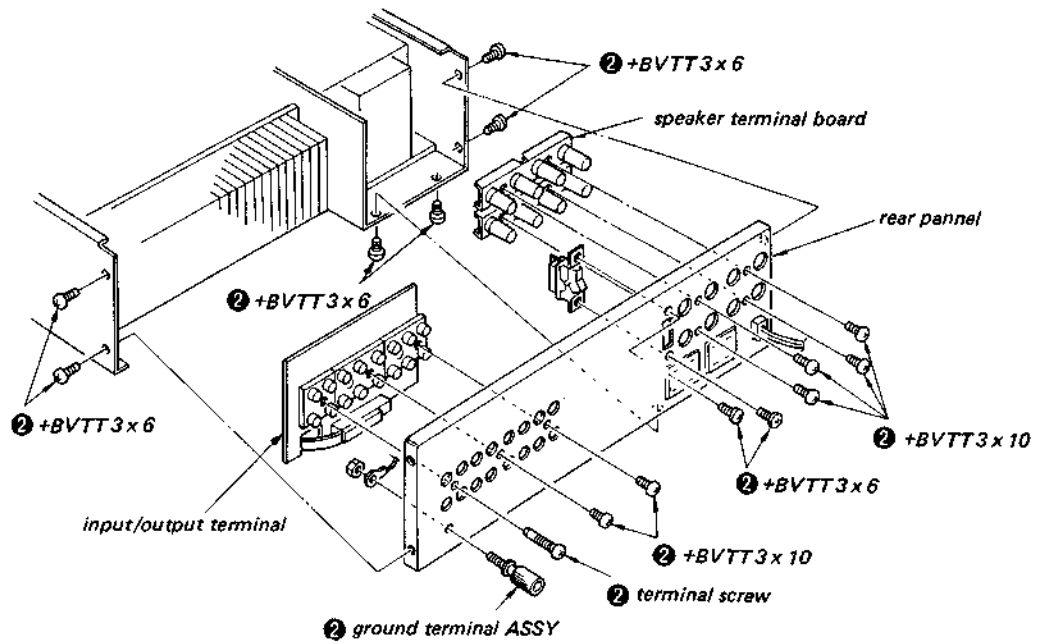
POWER TRANSFORMER

① Remove the case (see page 10).



REAR PANEL, INPUT/OUTPUT TERMINAL, SPEAKER TERMINAL

① Remove the case and the bottom plate (see page 10).



**SECTION 3
ADJUSTMENTS**

3-1. ELECTRICAL ADJUSTMENTS

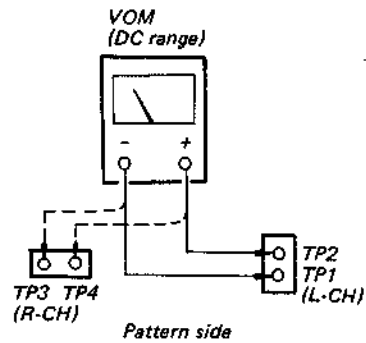
Note:

1. DC BIAS and DC BALANCE adjustments should be made 5 minutes after the POWER switch is turned on (POWER ON).
2. Repeat DC BIAS and DC BALANCE adjustments two or three times.
3. After replacing the power transistors, DC BIAS AND DC BALANCE adjustments should be made.

DC BIAS Adjustment (with no signal input)

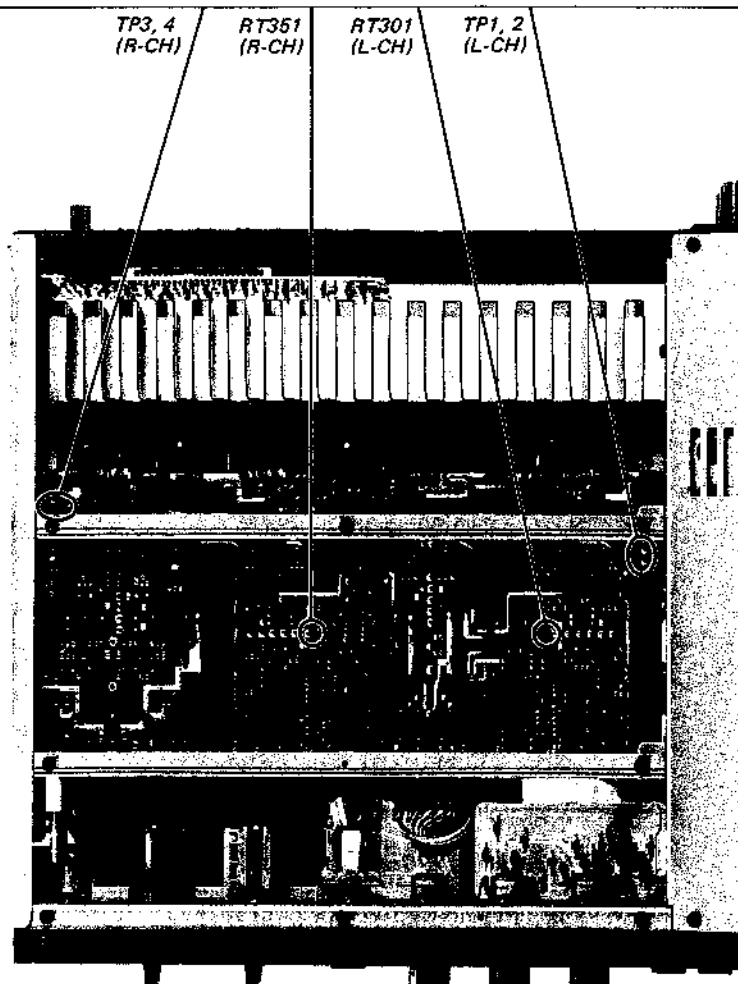
Procedure:

1. Connect a VOM to the BIAS test point TP1 - TP4.
2. Adjust RT301 (L-CH), RT351 (R-CH) for 100 mV reading on the VOM.



Adjustment Location:

— main board —



EQ Section DC BALANCE Adjustment

Setting:

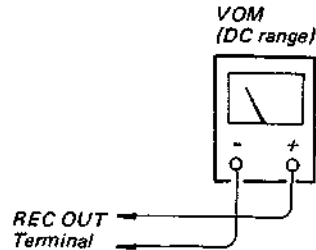
Short-circuit PHONO INPUT terminals to ground.

Procedure:

1. Connect a VOM to REC OUT terminal.
2. Adjust RT101 (L-CH), RT151 (R-CH) for 0 V reading on the VOM.

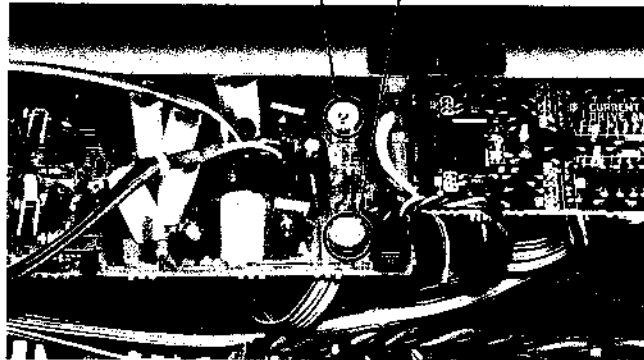
Adjustment Location:

– EQ board –



RT101
(L-CH)

RT151
(R-CH)



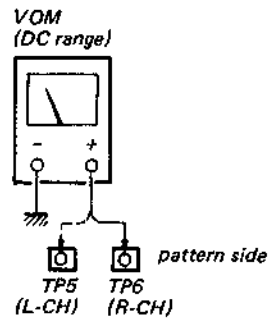
V-I Section DC BALANCE Adjustment

Procedure:

1. Connect a VOM to the V-I section test point TP5 or TP6.
2. Adjust RT201 (L-CH), RT251 (R-CH) for 0 V reading on the VOM.

Adjustment Location:

– V-I board –

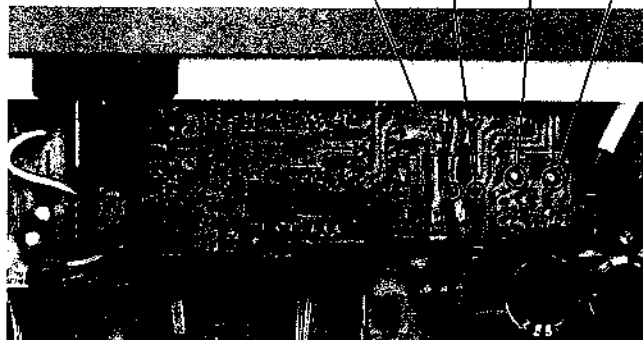


TP-6
(R-CH)

TP5
(L-CH)

RT251
(R-CH)

RT201
(L-CH)



TROUBLE CHECKS

The following checks will assist in the correction of most problems which you may encounter with your unit. Should any problem persist after you have made these checks, consult your nearest Sony service facility.

Before going through the check list below, first refer back to the connection and operating procedures.

No audio

- Check speaker and program source connections.
- Check the setting of the FUNCTION switches.
- Check the SPEAKERS selector setting.
- Turn up the volume.

No audio from one channel or unbalanced left and right volume

- Adjust the BALANCE control.
- Check the speaker and input connections of the inoperative channel.

Abrupt loss of sound from one or both of the speakers and the power indicator lighting in red.*

- Check the speaker terminals or speaker cord for a short.
- Check for a connected audio component which might generate a dc content that affects the amplifier.
- Remove any object on the top of the cabinet which might prevent normal air circulation.
- Place the unit on a level surface so that it is cooled effectively.

No tape recording

- Check that the REC OUT SELECTOR switch is correctly set.

No tape copying

- Check that the tape recorder connections are correct.
- Check that the REC OUT SELECTOR switch is correctly set.

Reversed left and right sound

- Check the speaker cord connection and speaker location.

Lack of bass sound or obscure instrument position

- Check the speaker connection for proper phasing.

Severe hum or noise

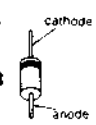

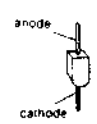
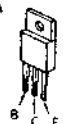
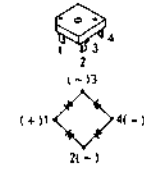

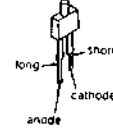

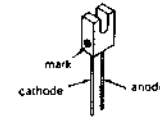
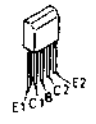
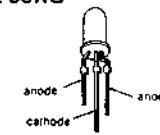

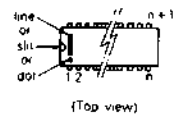
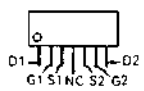
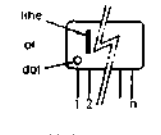
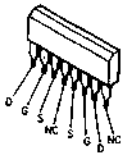
- Use shielded connecting cords.
- Keep the connecting cords away from transformers or motors and at least 3 meters (10 feet) from TV sets and fluorescent lights.
- Ground the amplifier.
- Disconnect the ground wire of the turntable from the \perp terminal when using a special designed MM cartridge.

Rustling noise

- Make secure connections.
- Wipe the plugs and jacks with a cloth lightly dampened with methanol.

* This symptom may be caused when the protection circuits activate.

• Semiconductor Lead Layouts

<p>1S1555 10DF2 10E2 30DL4 HZ6C3L HZ11A1L HZ16-1L HZ20-1L EQB01-08</p> 	<p>2SA1015 2SC1364 2SD646A 2SD666A</p> 
<p>SV-02 SV-04</p> 	<p>2SA985A 2SB834 2SC2275A 2SD880</p> 
<p>PB102F</p> 	<p>2SA1142 2SC2682 2SD809</p> 
<p>SEL1112R</p> 	<p>2SK246 2SK30A-GR3</p> 
<p>STV-2H</p> 	<p>2SA995</p> 
<p>GL-53RG</p> 	<p>2SA1026-7 2SA1027R</p> 
<p>TL082CP</p> 	<p>2SK109</p> 
<p>HA12002</p> 	<p>2SK244</p> 

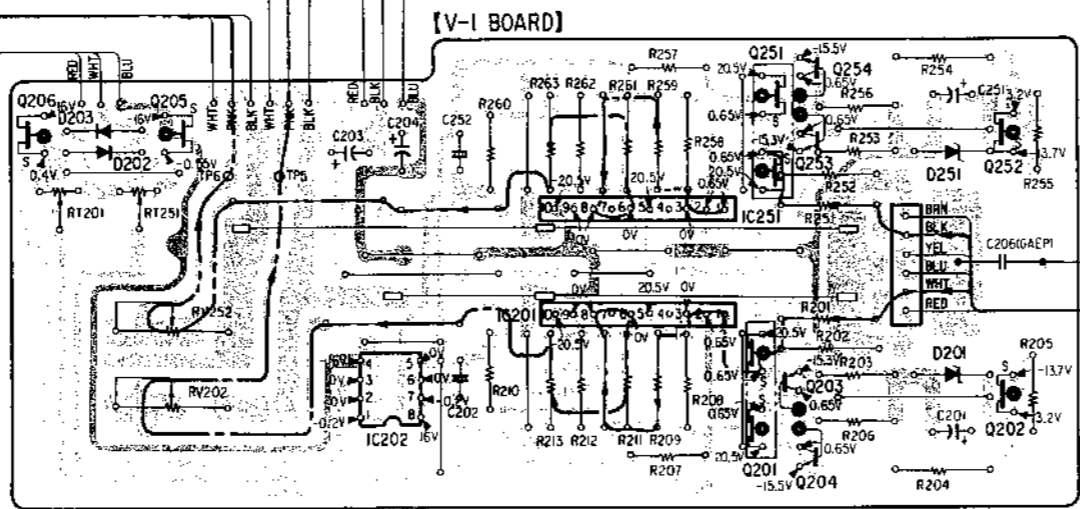
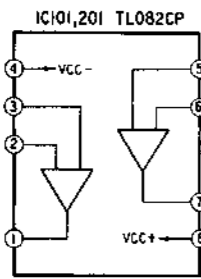
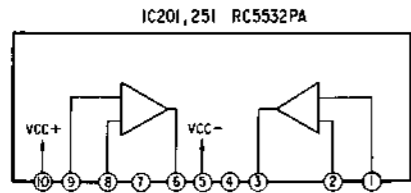
SECTION 4
DIAGRAMS

A B C D E F G H I J K L M N O P

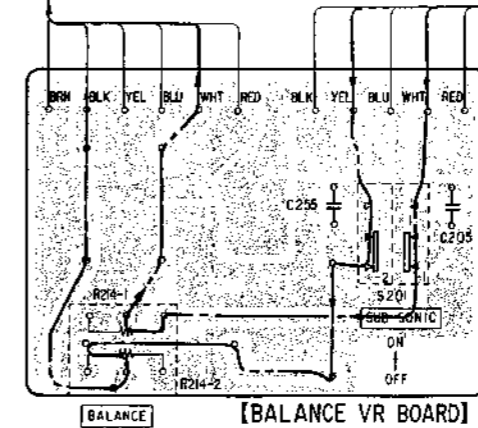
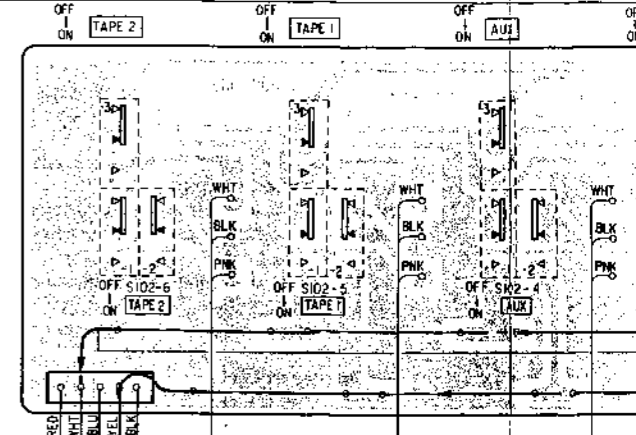
4-1. MOUNTING DIAGRAM (1)

Q	206	205						251	254		252
IC			IC202				IC251	201	253		202
D		203									251
	601	202	602	603	604		605				201

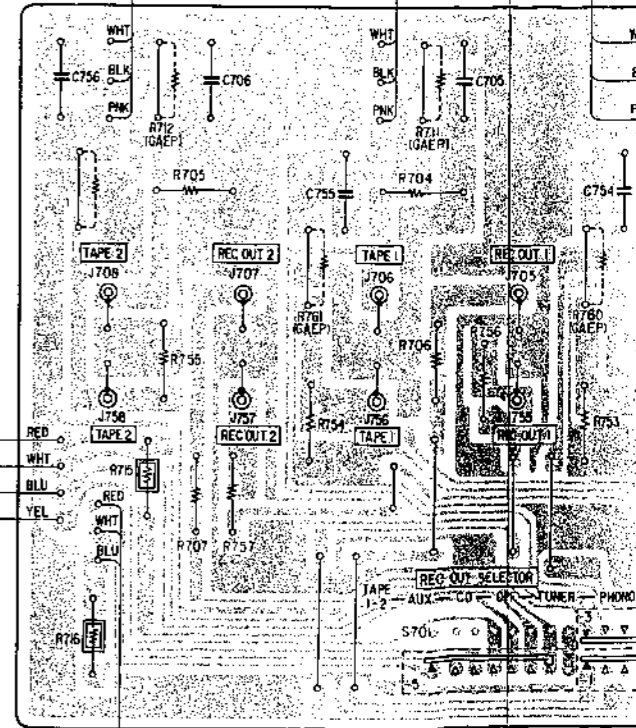
TO POWER AMP SECTION
C
D
E
F



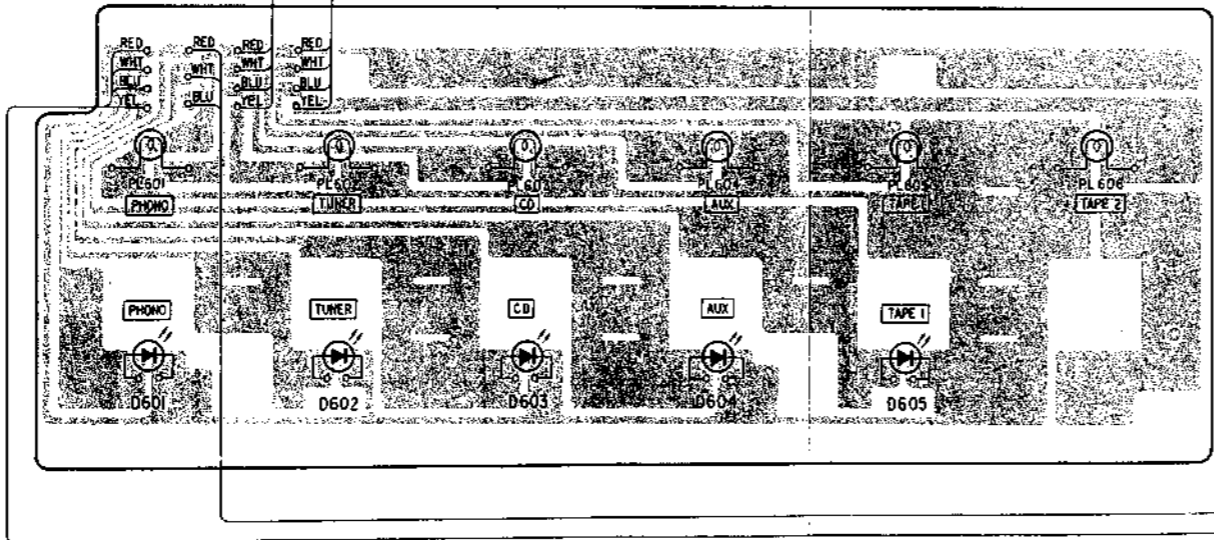
[FUNCTION BOARD]



[INPUT BOARD]

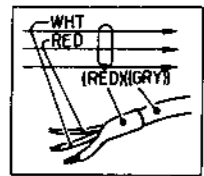


[LAMP BOARD]



Note:

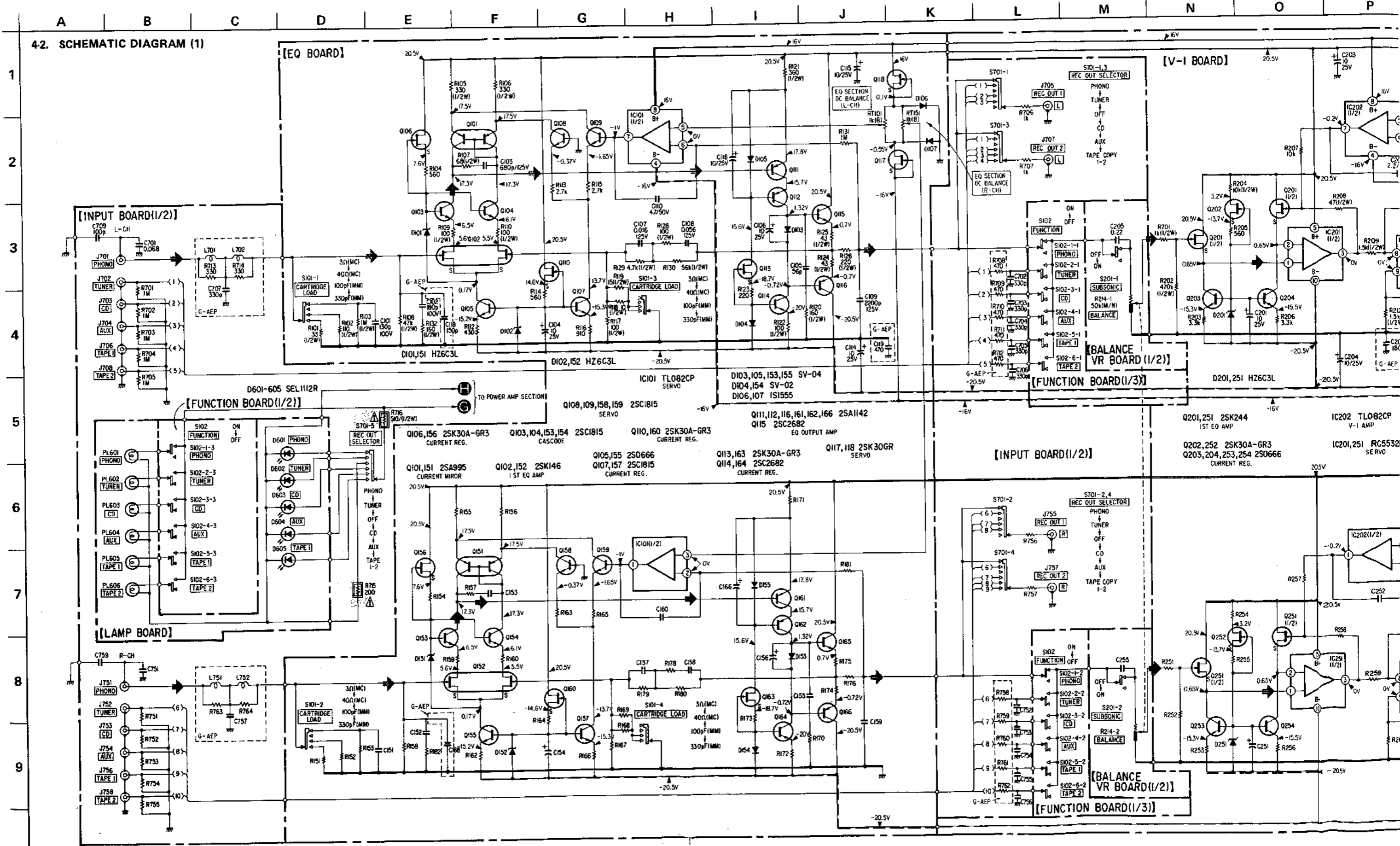
- Color code of sleeving over the end of the jacket.



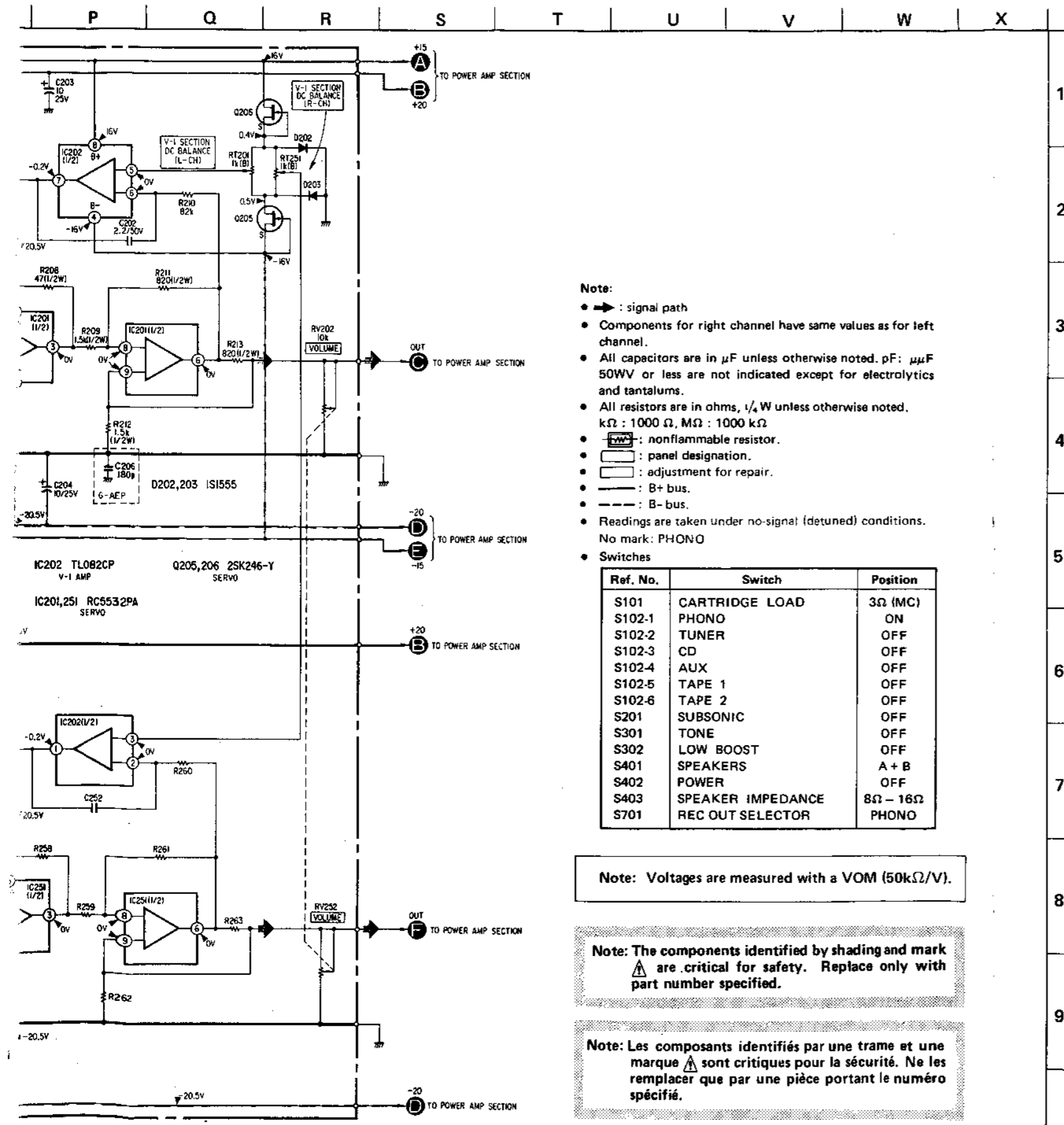
- : parts extracted from the component side.
- ▨ : B + pattern
- ▩ : B - pattern
- : signal path
- : L-CH signal path
- : R-CH signal path

TA-F555ES TA-F555ES

4-2. SCHEMATIC DIAGRAM (1)



TA-F555ES TA-F555ES



- Note:**
- → : signal path
 - Components for right channel have same values as for left channel.
 - All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$. 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$.
 - : nonflammable resistor.
 - : panel designation.
 - : adjustment for repair.
 - : B+ bus.
 - : B- bus.
 - Readings are taken under no-signal (detuned) conditions. No mark: PHONO
 - Switches

Ref. No.	Switch	Position
S101	CARTRIDGE LOAD	3 Ω (MC)
S102-1	PHONO	ON
S102-2	TUNER	OFF
S102-3	CD	OFF
S102-4	AUX	OFF
S102-5	TAPE 1	OFF
S102-6	TAPE 2	OFF
S201	SUBSONIC	OFF
S301	STONE	OFF
S302	LOW BOOST	OFF
S401	SPEAKERS	A + B
S402	POWER	OFF
S403	SPEAKER IMPEDANCE	8 Ω - 16 Ω
S701	REC OUT SELECTOR	PHONO

Note: Voltages are measured with a VOM (50k Ω /V).

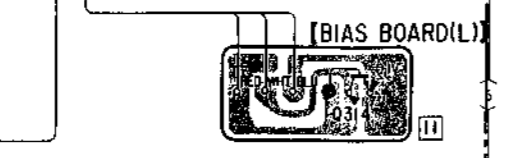
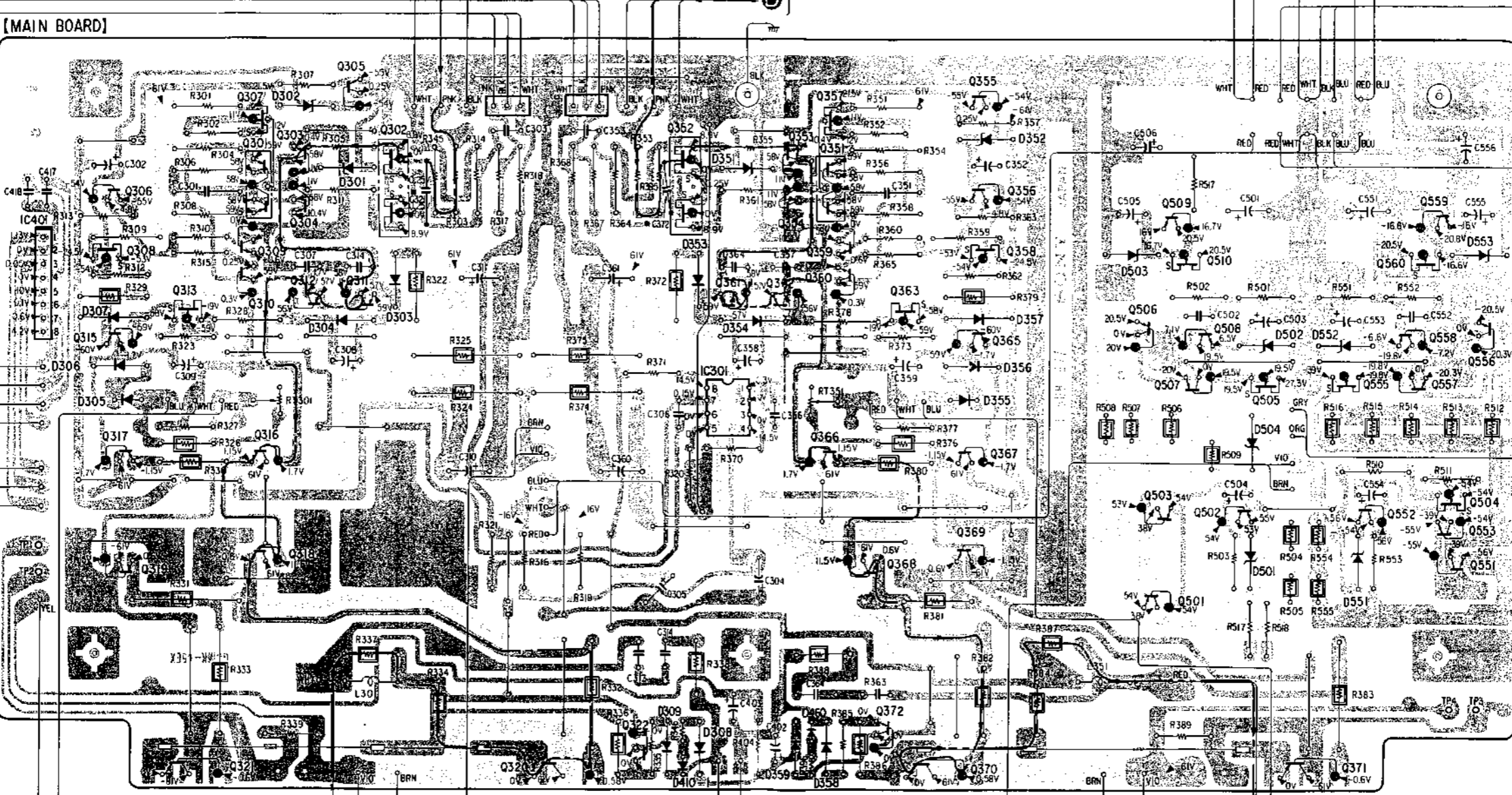
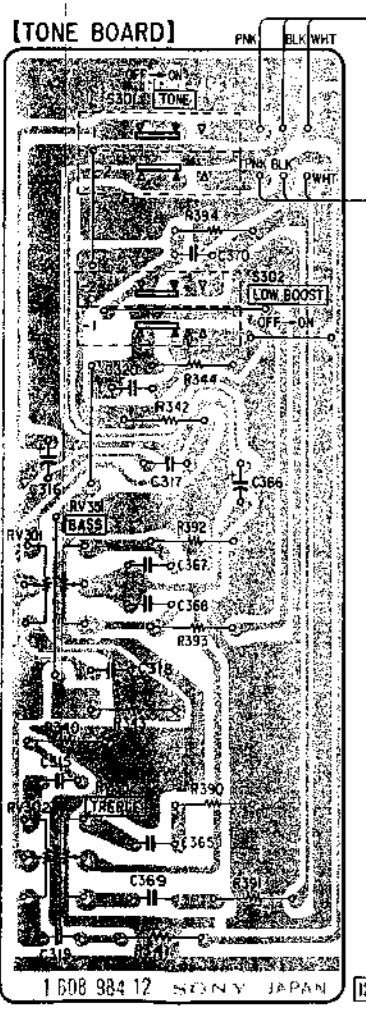
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TA-F555ES TA-F555ES

P Q R S T U V W X Y Z A1 B1 C1 D1 E1

IC401	306	313	309	307 301	303 304	311 312	302								509	559	Q IC												
	308	315	310	316	304	312	302	361	353	357	351 359	363	355 356	358	506	510		555	552	558	560	556							
	317	321	314	318								366	360	368	372	370		369	503	508	505	557	504	553	551				
	319							320	322									501	507	502	371	364							
			307 306				302 301	304 303	309	308	410	353	351	354								503	502	552	551	553	D		
			305													355	356								504	501			



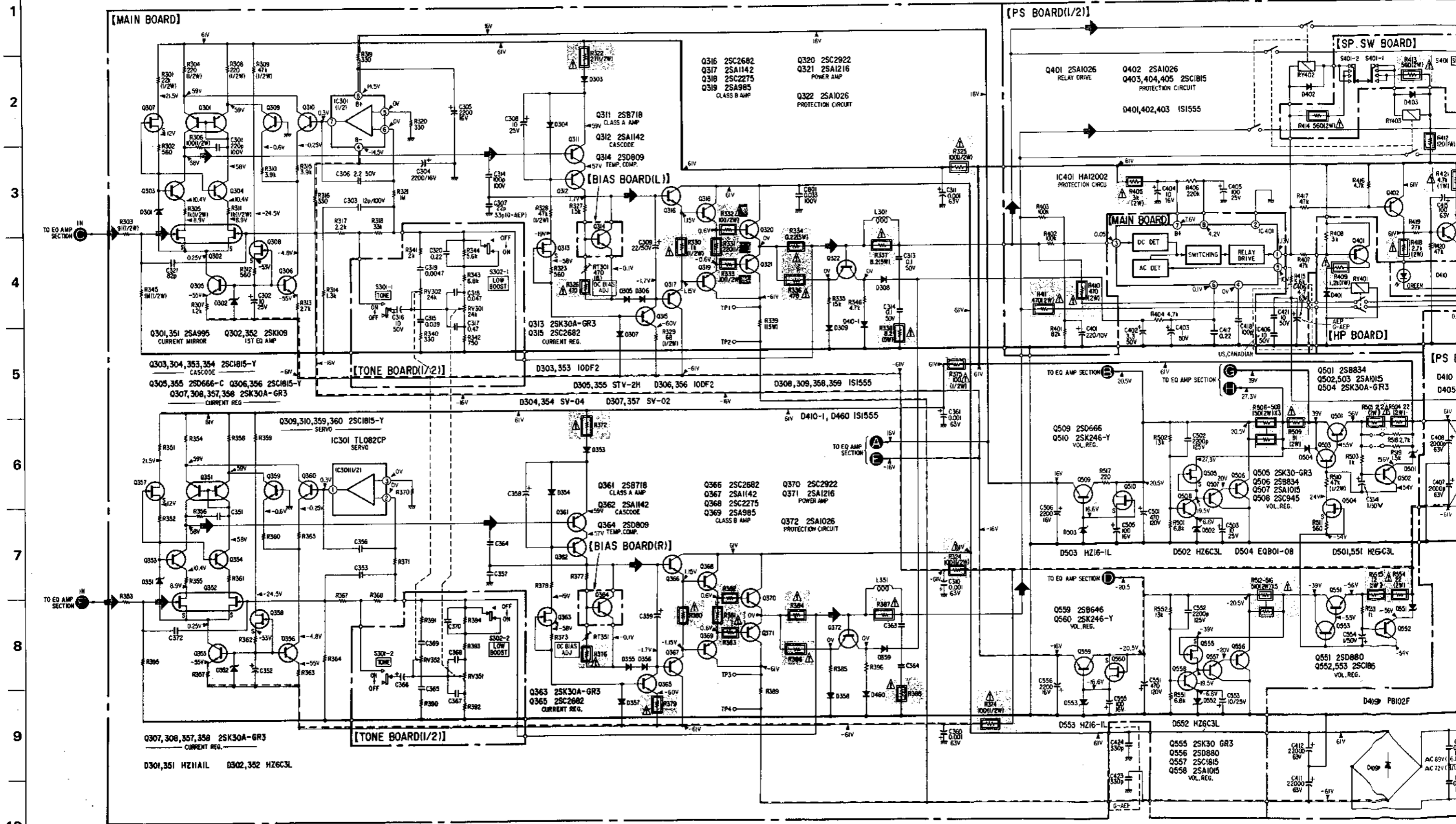
1
2
3
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10

A
C
E
TO EO AMP SECTION

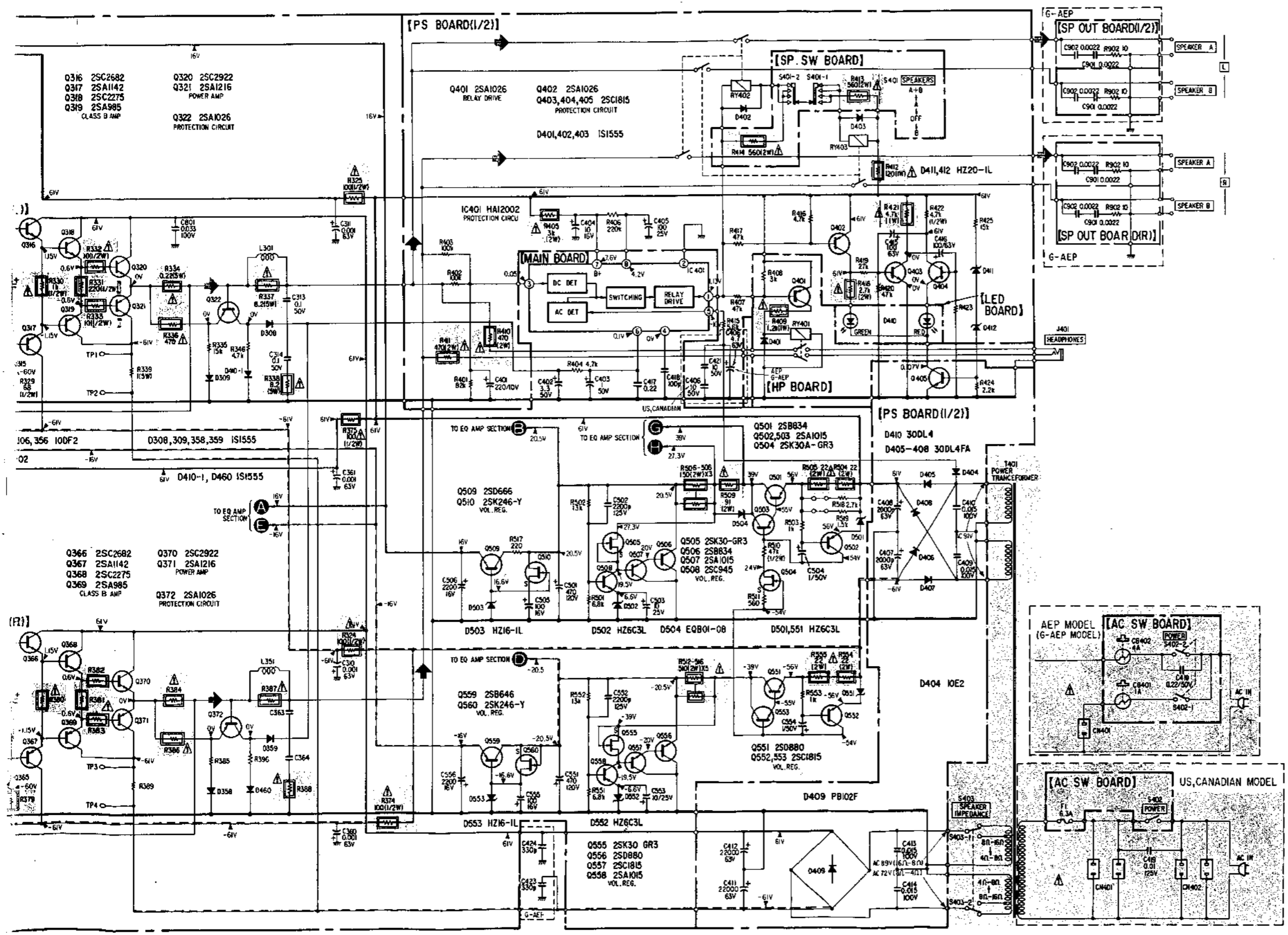
B
TO EO AMP SECTION

TA-F555ES TA-F555ES

4-4. SCHEMATIC DIAGRAM (2)



H I J K L M N O P Q R S T U V W



- Note:**
- → : signal path
 - Components for right channel have same values as for left channel.
 - All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000 k Ω
 - : nonflammable resistor.
 - : panel designation.
 - : adjustment for repair.
 - : B+ bus.
 - : B- bus.
 - Readings are taken under no-signal (detuned) conditions. No mark: PHONO
 - Switches

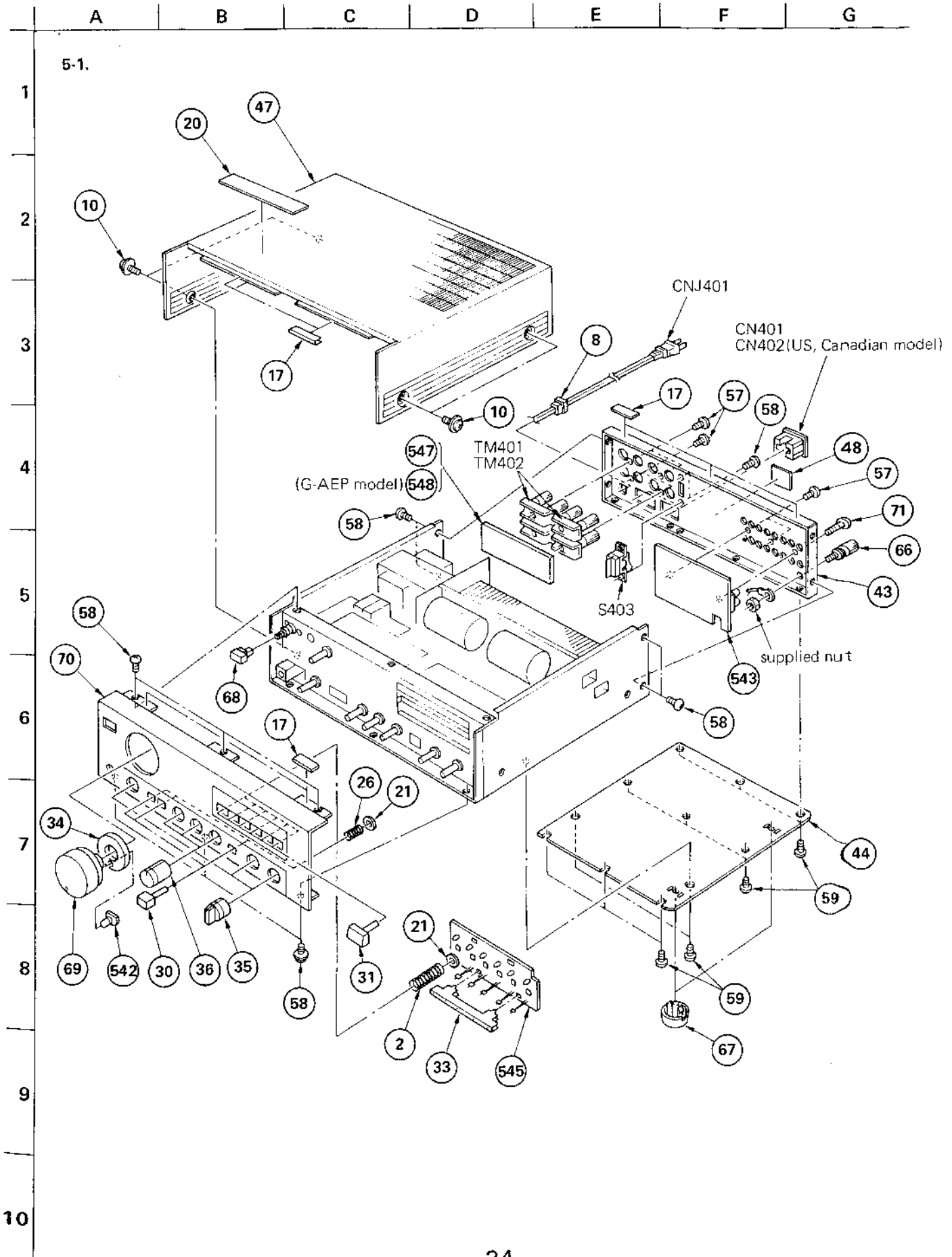
Ref. No.	Switch	Position
S101	CARTRIDGE LOAD	3 Ω (MC)
S102-1	PHONO	ON
S102-2	TUNER	OFF
S102-3	CD	OFF
S102-4	AUX	OFF
S102-5	TAPE 1	OFF
S102-6	TAPE 2	OFF
S201	SUBSONIC	OFF
S301	TONE	OFF
S302	LOW BOOST	OFF
S401	SPEAKERS	A + B
S402	POWER	OFF
S403	SPEAKER IMPEDANCE	8 Ω - 16 Ω
S701	REC OUT SELECTOR	PHONO

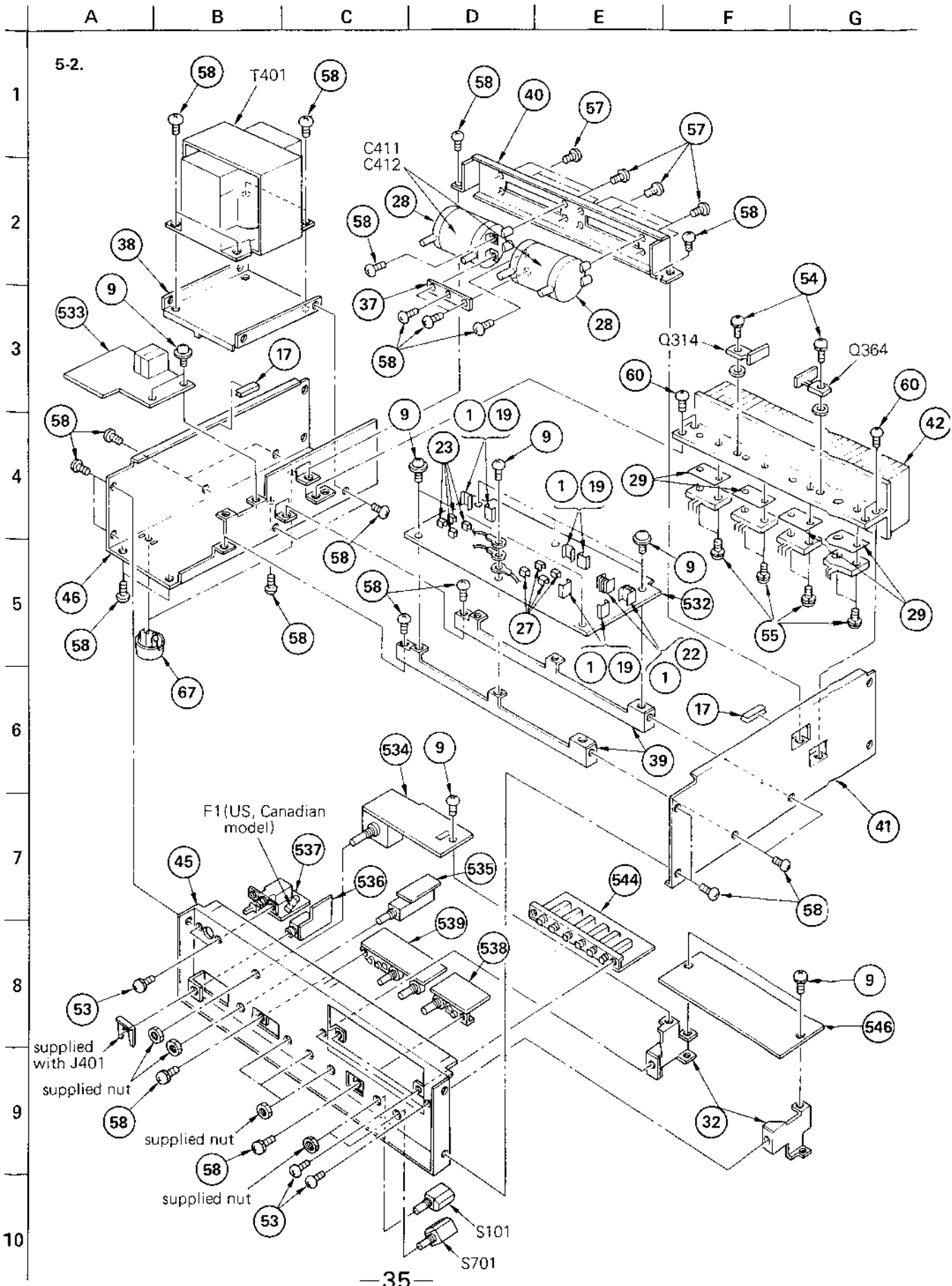
Note: Voltages are measured with a VOM (50k Ω /V).

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

Note: Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**SECTION 5
EXPLODED VIEWS AND PARTS LIST**





GENERAL SECTION

No.	Part No.	Description
1	2-259-121-00	SCREW, TR
2	2-267-020-00	SPRING, COMPRESSION
3	3-572-365-01	SHEET (A), INSULATING
4	3-701-510-00	SET SCREW, DOUBLE POINT 4X4
5	3-701-946-28	{US,Canadian)...LABEL, FUSE
6	3-703-043-21	{Canadian)...LABEL, CAUTION, MAIN
7	3-703-044-26	{US,Canadian)...LABEL, CAUTION
8	3-703-244-00	BUSHING, CORD
9	3-703-249-11	SCREW, S TIGHT, +PTTWH 3X6
10	3-703-354-01	SCREW (OS), CASE, CLAW
11	3-703-390-01	{US)...INSTRUCTION
12	3-703-591-00	{G-AEP)...LABEL (23585S)(SMALL), FTZ
13	3-703-677-00	{US)...LABEL, CAUTION, MAIN, NEW UL
14	3-703-680-00	{US)...LABEL, CAUTION, SUB, NEW UL
15	3-703-710-41	STICKER, SONY SYMBOL (12)
16	3-773-216-21	{US)...MANUAL, INSTRUCTION
17	3-831-441-XX	CUSHION, SPEAKER
18	4-835-639-00	PLATE, GROUND
19	4-854-790-00	HEAT SINK
20	4-861-045-00	LABEL, CAUTION
21	4-862-338-01	WASHER
22	4-863-132-00	HEAT SINK (SMALL)
23	4-866-080-00	HEAT SINK
24	4-866-342-00	JOINT (B), KNOB
25	4-866-397-61	CUSHION, LED
26	4-866-652-00	SPRING, COMPRESSION
27	4-866-654-00	HEAT SINK (S)
28	4-879-922-21	{AEP,G-AEP)...HOLDER (A), C
28	4-879-922-31	{US,Canadian)...HOLDER (A), C
29	4-885-901-00	SHEET, RADIATION
30	4-885-903-01	KNOB, PUSH
31	4-885-904-01	KNOB, FUNCTION
32	4-885-906-00	BRACKET, CHASSIS
33	4-885-908-00	BRACKET, LED
34	4-885-910-00	HOLDER, LED
35	4-885-912-01	KNOB
36	4-885-913-00	KNOB, ROUND
37	4-885-915-00	TERMINAL BOARD
38	4-885-916-00	BRACKET, TRANSFORMER
39	4-885-917-00	CHANNEL
40	4-885-918-00	BRACKET, CAPACITOR
41	4-885-919-00	PLATE, SIDE, RIGHT
42	4-885-920-00	HEAT SINK
43	4-885-921-01	{US,Canadian)...PLATE, JACK
43	4-885-921-21	{AEP,G-AEP)...PLATE, JACK

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (E-885-1008-XX or E-885-1008-X) may be different from those used in the set.

SEMICONDUCTORS

In each case, U : μ , for example:
 UA... : μ A..., UPA... : μ PA..., UPC... : μ PC,
 UPD... : μ PD...

GENERAL SECTION

No.	Part No.	Description
44	4-885-922-00	PLATE, BOTTOM
45	4-885-924-00	CHASSIS, SUB
46	4-885-926-00	PLATE, SIDE, LEFT
47	4-885-927-00	CASE
48	4-885-934-01	{US)...LABEL, MODEL NUMBER (U)
48	4-885-935-01	{Canadian)...LABEL, MODEL NUMBER (CND)
48	4-885-936-00	{AEP,G-AEP)...LABEL, MODEL NUMBER (AEP)
49	4-885-938-00	PLATE, SHIELD
50	4-887-711-00	SCREW, TERMINAL, CLAW, + BVTP
51	7-623-422-07	LW 3, TYPE B
52	7-623-508-01	LUG, 3
53	7-682-647-09	SCREW +PS 3X6
54	7-682-649-09	SCREW +PS 3X10
55	7-682-650-09	SCREW +PS 3X12
56	7-684-023-04	N 3, TYPE 2
57	7-685-647-19	SCREW +BVTP 3X10 TYPE2 N-S
58	7-685-871-09	SCREW +BVTT 3X6 (S)
59	7-685-872-09	SCREW +BVTT 3X8 (S)
60	7-685-873-09	SCREW +BVTT 3X10 (S)
61	7-685-881-09	SCREW +BVTT 4X8 (S)
62	7-688-003-11	W 3, MIDDLE
63	9-911-841-XX	CUSHION
64	9-911-843-XX	CUSHION
65	9-911-863-XX	{AEP,G-AEP)...SHEET, INSULATING
66	X-4854-207-0	TERMINAL ASSY, GROUND
67	X-4864-303-0	FOOT ASSY
68	X-4885-901-0	KNOB ASSY, POWER
69	X-4885-902-0	KNOB ASSY, CONTROL
70	X-4885-904-1	PANEL ASSY
71	3-703-473-00	TERMINAL SCREW

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	3-701-630-00	BAG, POLYETHYLENE
102	3-773-216-11	{Canadian,AEP)...MANUAL, INSTRUCTION
102	3-773-216-41	{AEP)...MANUAL, INSTRUCTION
103	4-858-078-00	SHEET, PROTECTION
104	4-885-931-00	CUSHION (RIGHT), LOWER
105	4-885-932-00	CUSHION (LEFT), LOWER
106	4-885-933-00	CUSHION, UPPER
107	4-885-939-00	INDIVIDUAL CARTON

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

- F : nonflammable

COILS

- MMH : mH, UH : μ H

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	1-507-830-00	JACK, PIN 4P
502	1-507-831-00	JACK, PIN 6P
503	♣;1-508-809-00	BASE POST (14MM) 2P
504	♣;1-508-810-00	14MM BASE POST
505	♣;1-508-811-00	BASE POST (14MM) 4P
506	♣;1-508-812-00	BASE POST (14MM) 5P
507	♣;1-508-813-00	14MM BASE POST
508	1-535-108-00	GT PIN
509	♣;1-535-115-00	TERMINAL
510	♣;1-535-116-00	TERMINAL
511	♣;1-535-117-00	TERMINAL
512	♣;1-535-118-00	TERMINAL
513	♣;1-535-364-00	PIN, RAPPING
514	♣;1-535-416-00	TERMINAL
515	♣;1-536-354-00	POST PIN
516	♣;1-560-060-31	PIN, CONNECTOR 2P
517	♣;1-560-061-00	PIN, CONNECTOR 3P
518	♣;1-560-061-21	PIN, CONNECTOR 3P
519	♣;1-560-061-31	PIN, CONNECTOR 3P
520	♣;1-560-061-41	PIN, CONNECTOR 3P
521	♣;1-560-062-00	PIN, CONNECTOR 4P
522	♣;1-560-062-41	PIN, CONNECTOR 4P
523	♣;1-560-063-00	PIN, CONNECTOR 5P
524	♣;1-560-063-31	PIN, CONNECTOR 5P
525	♣;1-560-064-00	PIN, CONNECTOR 6P
526	♣;1-560-065-00	PIN, CONNECTOR 8P
527	♣;1-560-242-11	BUS BAR 3P
528	♣;1-560-242-21	BUS BAR 4P
529	♣;1-560-242-31	BUS BAR 5P
530	♣;1-560-242-51	BUS BAR 7P
531	♣;1-560-242-71	BUS BAR 6P
532	♣;1-608-977-00	PC BOARD, MAIN
533	♣;1-608-978-00	PC BOARD, PS
534	♣;1-608-979-00	PC BOARD, V.I
535	♣;1-608-980-00	PC BOARD, SP.SW
536	♣;1-608-981-00	PC BOARD, HP
537	♣;1-608-982-00	PC BOARD, AC.SW
538	♣;1-608-983-00	PC BOARD, BALANCE VR
539	♣;1-608-984-00	PC BOARD, TONE
540	♣;1-608-985-00	PC BOARD, BIAS (L)
541	♣;1-608-986-00	PC BOARD, BIAS (R)
542	♣;1-608-987-00	PC BOARD, LED
543	♣;1-608-988-00	PC BOARD, INPUT
544	♣;1-608-989-00	PC BOARD, FUNCTION
545	♣;1-608-990-00	PC BOARD, LAMP

ELECTRICAL PARTS

Ref.No.	Part No.	Description
546	♣;1-608-991-00	PC BOARD, EQ
547	♣;1-608-992-00	(G-AEP)...PC BOARD SP OUT (A)
548	♣;1-608-993-00	(G-AEP)...PC BOARD SP OUT (B)
549	♣;A-4358-118-A	(US,Canadian,AEP)...MOUNTED PCB, EQUALIZER
549	A-4358-121-A	(G-AEP)...MOUNTED PCB, EQUALIZER
550	A-4388-340-A	(US,Canadian)...MOUNTED PCB, MAIN
550	♣;A-4388-342-A	(AEP)...MOUNTED PCB, MAIN
550	A-4388-346-A	(G-AEP)...MOUNTED PCB, MAIN
551	♣;A-4409-739-A	(US,Canadian,AEP)...MOUNTED PCB, V-I
551	A-4409-752-A	(G-AEP)...MOUNTED PCB, V-I
552	A-4409-740-A	(US,Canadian)...MOUNTED PCB, PS
552	♣;A-4409-744-A	(AEP,G-AEP)...MOUNTED PCB, PS
C101	1-107-303-00	MICA 130PF 5% 100V
C102	1-107-306-00	MICA 180PF 5% 100V
C103	1-104-150-00	POLYSTYRENE 680PF 5% 125V
C104	1-123-356-00	ELECT 10MF 20% 25V
C105	1-107-294-00	MICA 56PF 5% 100V
C106	1-123-356-00	ELECT 10MF 20% 25V
C107	1-104-141-00	POLYSTYRENE 0.016MF 1% 125V
C108	1-104-142-00	POLYSTYRENE 0.056MF 1% 125V
C109	1-104-151-00	POLYSTYRENE 0.0022MF 5% 125V
C110	1-124-334-51	ELECT 4.7MF 20% 100V
C114	1-123-356-00	ELECT 10MF 20% 25V
C115	1-123-356-00	ELECT 10MF 20% 25V
C116	1-123-356-00	ELECT 10MF 20% 25V
C118	1-161-313-00	(G-AEP)...CERAMIC 150PF 10% 50V
C119	1-161-314-00	(G-AEP)...CERAMIC 470PF 10% 50V
C151	1-107-303-00	MICA 130PF 5% 100V
C152	1-107-306-00	MICA 180PF 5% 100V
C153	1-104-150-00	POLYSTYRENE 680PF 5% 125V
C154	1-123-356-00	ELECT 10MF 20% 25V
C155	1-107-294-00	MICA 56PF 5% 100V
C156	1-123-356-00	ELECT 10MF 20% 25V
C157	1-104-141-00	POLYSTYRENE 0.016MF 1% 125V
C158	1-104-142-00	POLYSTYRENE 0.056MF 1% 125V
C159	1-104-151-00	POLYSTYRENE 0.0022MF 5% 125V
C160	1-124-334-51	ELECT 4.7MF 20% 100V
C166	1-123-356-00	ELECT 10MF 20% 25V
C201	1-123-356-00	ELECT 10MF 20% 25V
C202	1-124-332-00	ELECT 2.2MF 20% 100V
C203	1-123-356-00	ELECT 10MF 20% 25V
C204	1-123-356-00	ELECT 10MF 20% 25V
C205	1-130-636-00	FILM 0.22MF 5% 50V
C206	1-161-314-00	(G-AEP)...CERAMIC 180PF 10% 50V
C251	1-123-356-00	ELECT 10MF 20% 25V

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (L-ΔΔΔ-ΔΔΔ-XX or A-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

SEMICONDUCTORS

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

CAPACITORS:

All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μF, PF: μμF.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

MMH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
C252	1-124-332-00	ELECT	2.2MF	20%	100V	
C255	1-130-636-00	FILM	0.22MF	5%	50V	
C301	1-107-310-00	MICA	220PF	5%	500V	
C302	1-123-356-00	ELECT	10MF	20%	25V	
C303	1-107-280-91	MICA	12PF	5%	100V	
C304	1-123-325-00	ELECT	2200MF	20%	16V	
C305	1-123-325-00	ELECT	2200MF	20%	16V	
C306	1-124-332-00	ELECT	2.2MF	20%	100V	
C307	1-107-300-91	MICA	100PF	5%	100V	
C308	1-123-356-00	ELECT	10MF	20%	25V	
C309	1-123-357-00	ELECT	22MF	20%	50V	
C310	1-124-414-00	ELECT	0.001MF	20%	63V	
C311	1-124-414-00	ELECT	0.001MF	20%	63V	
C313	1-130-632-00	(G-AEP)...FILM	0.1MF	5%	50V	
C313	1-130-688-00	(AEP,US,Canadian)..FILM	0.047MF	5%	100V	
C314	1-107-284-91	(AEP,US,Canadian)..MICA	22PF	5%	100V	
C314	1-130-632-00	(G-AEP)...FILM	0.1MF	5%	50V	
C315	1-130-627-00	FILM	0.039MF	5%	50V	
C316	1-123-831-00	ELECT	10MF	20%	50V	
C317	1-130-640-00	FILM	0.47MF	5%	50V	
C318	1-130-628-00	FILM	0.047MF	5%	50V	
C319	1-108-234-00	MYLAR	0.0047MF	10%	50V	
C320	1-130-636-00	FILM	0.22MF	5%	50V	
C351	1-107-310-00	MICA	220PF	5%	500V	
C352	1-123-356-00	ELECT	10MF	20%	25V	
C353	1-107-280-91	MICA	12PF	5%	100V	
C356	1-124-332-00	ELECT	2.2MF	20%	100V	
C357	1-107-300-91	MICA	100PF	5%	100V	
C358	1-123-356-00	ELECT	10MF	20%	25V	
C359	1-123-357-00	ELECT	22MF	20%	50V	
C360	1-124-414-00	ELECT	0.001MF	20%	63V	
C361	1-124-414-00	ELECT	0.001MF	20%	63V	
C363	1-130-632-00	(G-AEP)...FILM	0.1MF	5%	50V	
C363	1-130-688-00	(AEP,US,Canadian)..FILM	0.047MF	5%	100V	
C364	1-107-284-91	(AEP,US,Canadian)..MICA	22PF	5%	100V	
C364	1-130-632-00	(G-AEP)...FILM	0.1MF	5%	50V	
C365	1-130-627-00	FILM	0.039MF	5%	50V	
C366	1-123-831-00	ELECT	10MF	20%	50V	
C367	1-130-640-00	FILM	0.47MF	5%	50V	
C368	1-130-628-00	FILM	0.047MF	5%	50V	
C369	1-108-234-00	MYLAR	0.0047MF	10%	50V	
C370	1-130-636-00	FILM	0.22MF	5%	50V	
C401	1-124-070-00	ELECT	220MF	20%	10V	
C402	1-123-354-00	ELECT	3.3MF	20%	50V	
C403	1-123-380-00	ELECT	1MF	20%	50V	
C404	1-123-356-00	ELECT	10MF	20%	16V	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
C405	1-123-333-00	ELECT	100MF	20%	25V	
C406	1-123-369-00	(AEP,G-AEP).....ELECT	4.7MF	20%	63V	
C406	1-123-831-00	(US,Canadian)...ELECT	10MF	20%	50V	
C407	1-123-843-00	ELECT	0.002MF	20%	63V	
C408	1-123-843-00	ELECT	0.002MF	20%	63V	
C409	1-130-699-00	FILM	0.015MF	5%	100V	
C410	1-130-699-00	FILM	0.015MF	5%	100V	
C411	1-125-325-00	CAP, ELECT	2200MF			
C412	1-125-325-00	CAP, ELECT	2200MF			
C413	1-130-699-00	FILM	0.015MF	5%	100V	
C414	1-130-699-00	FILM	0.015MF	5%	100V	
C415	1-123-370-00	ELECT	10MF	20%	63V	
C416	1-123-370-00	ELECT	10MF	20%	63V	
C417	1-130-636-00	FILM	0.22MF	5%	50V	
C418	1-102-973-00	CERAMIC	100PF	5%	50V	
C419	△.1-161-742-00	(AEP,G-AEP).....CERAMIC	0.22MF	5%	50V	
C419	△.1-161-749-00	(US,Canadian)...CERAMIC	0.01MF	P%	125V	
C421	1-123-831-00	(US,Canadian)...ELECT	10MF	20%	50V	
C423	1-107-181-00	(G-AEP).....MICA	330PF	5%	500V	
C424	1-107-181-00	(G-AEP).....MICA	330PF	5%	500V	
C501	1-123-624-00	(US,Canadian)...ELECT	470MF	20%	120V	
C501	1-123-707-00	(AEP,G-AEP).....ELECT	1000MF	20%	35V	
C502	1-104-151-00	POLYSTYRENE	0.0022MF	5%	125V	
C503	1-123-356-00	ELECT	10MF	20%	25V	
C504	1-123-380-00	ELECT	1MF	20%	50V	
C505	1-123-333-00	ELECT	100MF	20%	16V	
C506	1-123-325-00	ELECT	2200MF	20%	16V	
C551	1-123-624-00	(US,Canadian)...ELECT	470MF	20%	120V	
C551	1-123-707-00	(AEP,G-AEP).....ELECT	1000MF	20%	35V	
C552	1-104-151-00	POLYSTYRENE	0.0022MF	5%	125V	
C553	1-123-356-00	ELECT	10MF	20%	25V	
C554	1-123-380-00	ELECT	1MF	20%	50V	
C555	1-123-333-00	ELECT	100MF	20%	16V	
C556	1-123-325-00	ELECT	2200MF	20%	16V	
C701	1-130-689-00	FILM	0.068MF	5%	100V	
C709	1-102-973-21	CERAMIC	100PF	5%	50V	
C751	1-130-689-00	FILM	0.068MF	5%	100V	
C759	1-102-973-21	CERAMIC	100PF	5%	50V	
C801	1-130-309-00	FILM	0.033MF	5%	100V	
C901	1-161-332-00	(G-AEP)...CERAMIC	0.0022MF	30%	50V	
C902	1-161-332-00	(G-AEP)...CERAMIC	0.0022MF	30%	50V	
△CB401	.1-532-535-00	(AEP,G-AEP).....CIRKIT BREAKER				
△CB402	.1-532-544-00	(AEP,G-AEP).....CIRKIT BREAKER				
△CN401	.1-526-694-00	(AEP,G-AEP)...OUTLET, AC				
△CN401	.1-526-752-00	(US).....OUTLET, AC (2 GANG)				
△CN401	.1-526-883-00	(Canadian)....OUTLET, AC				

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

SEMICONDUCTORS

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

CAPACITORS:

All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μF, PF: μμF.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

MMH : mH, UH : μH

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

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
△CN402	.1-526-752-00	(US).....OUTLET, AC (2 GANG)
△CN402	.1-526-883-00	(Canadian)...OUTLET, AC
△CNJ401	.1-555-701-00	(US,Canadian)...CORD, POWER
△CNJ401	.1-555-795-00	(AEP,G-AEP).....CORD, POWER
D101	8-719-910-69	DIODE HZ6C3L
D102	8-719-910-69	DIODE HZ6C3L
D103	8-719-300-04	DIODE SV-04
D104	8-719-300-02	DIODE SV-02
D105	8-719-300-04	DIODE SV-04
D106	8-719-815-55	DIODE 1S1555
D107	8-719-815-55	DIODE 1S1555
D151	8-719-910-69	DIODE HZ6C3L
D152	8-719-910-69	DIODE HZ6C3L
D153	8-719-300-04	DIODE SV-04
D154	8-719-300-02	DIODE SV-02
D155	8-719-300-04	DIODE SV-04
D201	8-719-910-69	DIODE HZ6C3L
D202	8-719-815-55	DIODE 1S1555
D203	8-719-815-55	DIODE 1S1555
D251	8-719-910-69	DIODE HZ6C3L
D301	8-719-910-11	DIODE HZ11A1L
D302	8-719-910-69	DIODE HZ6C3L
D303	8-719-210-12	DIODE 10DF2
D304	8-719-300-04	DIODE SV-04
D305	8-719-300-28	DIODE STV-2H
D306	8-719-210-12	DIODE 10DF2
D307	8-719-300-02	DIODE SV-02
D308	8-719-815-55	DIODE 1S1555
D309	8-719-815-55	DIODE 1S1555
D351	8-719-910-11	DIODE HZ11A1L
D352	8-719-910-69	DIODE HZ6C3L
D353	8-719-210-12	DIODE 10DF2
D354	8-719-300-04	DIODE SV-04
D355	8-719-300-28	DIODE STV-2H
D356	8-719-210-12	DIODE 10DF2
D357	8-719-300-02	DIODE SV-02
D358	8-719-815-55	DIODE 1S1555
D359	8-719-815-55	DIODE 1S1555
D401	8-719-815-55	DIODE 1S1555
D402	8-719-815-55	DIODE 1S1555
D403	8-719-815-55	DIODE 1S1555
D404	8-719-200-02	DIODE 10E2
D405	8-719-230-24	DIODE 30DL4
D406	8-719-230-24	DIODE 30DL4
D407	8-719-230-24	DIODE 30DL4
D408	8-719-230-24	DIODE 30DL4

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D409	8-719-211-02	DIODE PB102F
D410	8-719-906-45	DIODE GL-53RG
D410-1	8-719-815-55	DIODE 1S1555
D411	8-719-910-01	DIODE HZ20-1L
D412	8-719-910-01	DIODE HZ20-1L
D460	8-719-815-55	DIODE 1S1555
D501	8-719-910-69	DIODE HZ6C3L
D502	8-719-910-69	DIODE HZ6C3L
D503	8-719-981-61	DIODE HZ16-1L
D504	8-719-931-08	DIODE EQB01-08
D551	8-719-910-69	DIODE HZ6C3L
D552	8-719-910-69	DIODE HZ6C3L
D553	8-719-981-61	DIODE HZ16-1L
D601	8-719-311-12	DIODE SEL1112R
D602	8-719-311-12	DIODE SEL1112R
D603	8-719-311-12	DIODE SEL1112R
D604	8-719-311-12	DIODE SEL1112R
D605	8-719-311-12	DIODE SEL1112R
F1	△.1-532-507-00	(US,Canadian)...FUSE, GLASS TUBE
IC101	8-759-990-82	IC TLO82CP
IC201	8-759-700-49	IC NJM5532P-A
IC202	8-759-990-82	IC TLO82CP
IC251	8-759-700-49	IC NJM5532P-A
IC301	8-759-990-82	IC TLO82CP
IC401	8-759-320-02	IC HA12002
J401	1-507-669-00	JACK
L701	1-413-101-00	(G-AEP)...COIL, INPUT
L702	1-407-519-00	(G-AEP)...INDUCTOR
L751	1-413-101-00	(G-AEP)...COIL, INPUT
L752	1-407-519-00	(G-AEP)...INDUCTOR
PL601	1-518-518-00	LAMP, PILOT
PL602	1-518-518-00	LAMP, PILOT
PL603	1-518-518-00	LAMP, PILOT
PL604	1-518-518-00	LAMP, PILOT
PL605	1-518-518-00	LAMP, PILOT
PL606	1-518-518-00	LAMP, PILOT
Q101	8-729-699-51	TRANSISTOR 2SA995
Q102	8-729-201-28	TRANSISTOR 2SK146-BL
Q103	8-729-663-47	TRANSISTOR 2SC1364
Q104	8-729-663-47	TRANSISTOR 2SC1364
Q105	8-729-300-62	TRANSISTOR 2SD666A
Q106	8-729-203-05	TRANSISTOR 2SK30A-GR3

NOTE:

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SEMICONDUCTORS

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

CAPACITORS:

All capacitors are in μf. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μf, PF: μμf.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

MMH : mH, UH : μH

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

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q107	8-729-663-47	TRANSISTOR 2SC1364
Q108	8-729-663-47	TRANSISTOR 2SC1364
Q109	8-729-663-47	TRANSISTOR 2SC1364
Q110	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q111	8-729-114-22	TRANSISTOR 2SA1142
Q112	8-729-114-22	TRANSISTOR 2SA1142
Q113	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q114	8-729-168-22	TRANSISTOR 2SC2682
Q115	8-729-168-22	TRANSISTOR 2SC2682
Q116	8-729-114-22	TRANSISTOR 2SA1142
Q117	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q118	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q151	8-729-699-51	TRANSISTOR 2SA995
Q152	8-729-201-28	TRANSISTOR 2SK146-BL
Q153	8-729-663-47	TRANSISTOR 2SC1364
Q154	8-729-663-47	TRANSISTOR 2SC1364
Q155	8-729-300-62	TRANSISTOR 2SD666A
Q156	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q157	8-729-663-47	TRANSISTOR 2SC1364
Q158	8-729-663-47	TRANSISTOR 2SC1364
Q159	8-729-663-47	TRANSISTOR 2SC1364
Q160	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q161	8-729-114-22	TRANSISTOR 2SA1142
Q162	8-729-114-22	TRANSISTOR 2SA1142
Q163	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q164	8-729-168-22	TRANSISTOR 2SC2682
Q165	8-729-168-22	TRANSISTOR 2SC2682
Q166	8-729-114-22	TRANSISTOR 2SA1142
Q201	8-756-640-10	TRANSISTOR 2SK244
Q202	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q203	8-729-300-62	TRANSISTOR 2SD666A
Q204	8-729-300-62	TRANSISTOR 2SD666A
Q205	8-729-224-61	TRANSISTOR 2SK246
Q206	8-729-224-61	TRANSISTOR 2SK246
Q251	8-756-640-10	TRANSISTOR 2SK244
Q252	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q253	8-729-300-62	TRANSISTOR 2SD666A
Q254	8-729-300-62	TRANSISTOR 2SD666A
Q301	8-729-699-51	TRANSISTOR 2SA995
Q302	8-729-610-92	TRANSISTOR 2SK109
Q303	8-729-663-47	TRANSISTOR 2SC1364
Q304	8-729-663-47	TRANSISTOR 2SC1364
Q305	8-729-300-62	TRANSISTOR 2SD666A
Q306	8-729-663-47	TRANSISTOR 2SC1364
Q307	8-729-203-05	TRANSISTOR 2SK30A-GR3

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q308	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q309	8-729-663-47	TRANSISTOR 2SC1364
Q310	8-729-663-47	TRANSISTOR 2SC1364
Q311	8-729-371-81	TRANSISTOR 2SB718-B
Q312	8-729-114-22	TRANSISTOR 2SA1142
Q313	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q314	8-729-180-93	TRANSISTOR 2SD809
Q315	8-729-168-22	TRANSISTOR 2SC2682
Q316	8-729-168-22	TRANSISTOR 2SC2682
Q317	8-729-114-22	TRANSISTOR 2SA1142
Q318	8-729-107-53	TRANSISTOR 2SC2275A
Q319	8-729-190-53	TRANSISTOR 2SA985A
Q320	8-729-300-11	TRANSISTOR 2SC2922
Q321	8-729-300-10	TRANSISTOR 2SA1216
Q322	8-729-602-67	TRANSISTOR 2SA1026-7
Q351	8-729-699-51	TRANSISTOR 2SA995
Q352	8-729-610-92	TRANSISTOR 2SK109
Q353	8-729-663-47	TRANSISTOR 2SC1364
Q354	8-729-663-47	TRANSISTOR 2SC1364
Q355	8-729-300-62	TRANSISTOR 2SD666A
Q356	8-729-663-47	TRANSISTOR 2SC1364
Q357	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q358	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q359	8-729-663-47	TRANSISTOR 2SC1364
Q360	8-729-663-47	TRANSISTOR 2SC1364
Q361	8-729-371-81	TRANSISTOR 2SB718-B
Q362	8-729-114-22	TRANSISTOR 2SA1142
Q363	8-729-203-04	TRANSISTOR 2SK30A
Q364	8-729-180-93	TRANSISTOR 2SD809
Q365	8-729-168-22	TRANSISTOR 2SC2682
Q366	8-729-168-22	TRANSISTOR 2SC2682
Q367	8-729-114-22	TRANSISTOR 2SA1142
Q368	8-729-107-53	TRANSISTOR 2SC2275A
Q369	8-729-190-53	TRANSISTOR 2SA985A
Q370	8-729-300-11	TRANSISTOR 2SC2922
Q371	8-729-300-10	TRANSISTOR 2SA1216
Q372	8-729-602-67	TRANSISTOR 2SA1026-7
Q401	8-729-612-77	TRANSISTOR 2SA1027R
Q402	8-729-612-77	TRANSISTOR 2SA1027R
Q403	8-729-663-47	TRANSISTOR 2SC1364
Q404	8-729-663-47	TRANSISTOR 2SC1364
Q405	8-729-663-47	TRANSISTOR 2SC1364
Q501	8-729-283-42	TRANSISTOR 2SB834
Q502	8-729-201-52	TRANSISTOR 2SA1015
Q503	8-729-201-52	TRANSISTOR 2SA1015

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- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ - $\Delta\Delta\Delta$ - $\Delta\Delta\Delta$ -XX or Δ - $\Delta\Delta\Delta$ - $\Delta\Delta\Delta$ -X) may be different from those used in the set.

SEMICONDUCTORS

In each case, U : μ , for example:
 UA... : μ A..., UPA... : μ PA..., UPC... : μ PC,
 UPD... : μ PD...

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS

- MMH : mH, OH : μ H

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
Q504	8-729-203-05	TRANSISTOR 2SK30A-GR3				
Q505	8-729-224-61	TRANSISTOR 2SK246				
Q506	8-729-283-42	TRANSISTOR 2SB834				
Q507	8-729-201-52	TRANSISTOR 2SA1015				
Q508	8-729-663-47	TRANSISTOR 2SC1364				
Q509	8-729-300-62	TRANSISTOR 2SD666A				
Q510	8-729-224-61	TRANSISTOR 2SK246				
Q551	8-729-288-02	TRANSISTOR 2SD880				
Q552	8-729-663-47	TRANSISTOR 2SC1364				
Q553	8-729-663-47	TRANSISTOR 2SC1364				
Q555	8-729-203-05	TRANSISTOR 2SK30A-GR3				
Q556	8-729-288-02	TRANSISTOR 2SD880				
Q557	8-729-663-47	TRANSISTOR 2SC1364				
Q558	8-729-201-52	TRANSISTOR 2SA1015				
Q559	8-729-304-62	TRANSISTOR 2SD646A				
Q560	8-729-224-61	TRANSISTOR 2SK246				
R101	1-244-837-00	CARBON	33	5%	1/2W	
R102	1-244-850-00	CARBON	110	5%	1/2W	
R103	1-244-945-00	CARBON	1M	5%	1/2W	
R104	1-246-467-00	CARBON	560	5%	1/4W	
R105	1-244-861-00	CARBON	330	5%	1/2W	
R106	1-244-861-00	CARBON	330	5%	1/2W	
R107	1-244-845-00	CARBON	68	5%	1/2W	
R108	1-244-913-00	CARBON	47K	5%	1/2W	
R109	1-244-849-00	CARBON	100	5%	1/2W	
R110	1-244-849-00	CARBON	100	5%	1/2W	
R112	1-246-464-00	CARBON	430	5%	1/4W	
R113	1-246-483-00	CARBON	2.7K	5%	1/4W	
R114	1-246-467-00	CARBON	560	5%	1/4W	
R115	1-246-483-00	CARBON	2.7K	5%	1/4W	
R116	1-246-472-00	CARBON	910	5%	1/4W	
R117	1-214-840-00	METAL	100	1%	1/2W	
R118	1-214-816-00	METAL	10	1%	1/2W	
R119	1-214-820-00	METAL	15	1%	1/2W	
R120	1-244-854-00	CARBON	160	5%	1/2W	
R121	1-244-862-00	CARBON	360	5%	1/2W	
R122	1-246-449-00	CARBON	100	5%	1/4W	
R123	1-246-457-00	CARBON	220	5%	1/4W	
R124	1-244-840-00	CARBON	43	5%	1/2W	
R125	1-244-840-00	CARBON	43	5%	1/2W	
R126	1-244-857-00	CARBON	220	5%	1/2W	
R128	1-214-840-00	METAL	100	1%	1/2W	
R129	1-214-880-61	METAL	4.7K	1%	1/2W	
R130	1-214-907-00	METAL	56K	1%	1/2W	
R131	1-246-545-00	CARBON	1M	5%	1/4W	
R132	1-244-854-00	CARBON	160	5%	1/2W	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R151	1-244-837-00	CARBON	33	5%	1/2W	
R152	1-244-850-00	CARBON	110	5%	1/2W	
R153	1-244-945-00	CARBON	1M	5%	1/2W	
R154	1-246-467-00	CARBON	560	5%	1/4W	
R155	1-244-861-00	CARBON	330	5%	1/2W	
R156	1-244-861-00	CARBON	330	5%	1/2W	
R157	1-244-845-00	CARBON	68	5%	1/2W	
R158	1-244-913-00	CARBON	47K	5%	1/2W	
R159	1-244-849-00	CARBON	100	5%	1/2W	
R160	1-244-849-00	CARBON	100	5%	1/2W	
R162	1-246-464-00	CARBON	430	5%	1/4W	
R163	1-246-483-00	CARBON	2.7K	5%	1/4W	
R164	1-246-467-00	CARBON	560	5%	1/4W	
R165	1-246-483-00	CARBON	2.7K	5%	1/4W	
R166	1-246-472-00	CARBON	910	5%	1/4W	
R167	1-214-840-00	METAL	100	1%	1/2W	
R168	1-214-816-00	METAL	10	1%	1/2W	
R169	1-214-820-00	METAL	15	1%	1/2W	
R170	1-244-854-00	CARBON	160	5%	1/2W	
R171	1-244-862-00	CARBON	360	5%	1/2W	
R172	1-246-449-00	CARBON	100	5%	1/4W	
R173	1-246-457-00	CARBON	220	5%	1/4W	
R174	1-244-840-00	CARBON	43	5%	1/2W	
R175	1-244-840-00	CARBON	43	5%	1/2W	
R176	1-244-857-00	CARBON	220	5%	1/2W	
R178	1-214-840-00	METAL	100	1%	1/2W	
R179	1-214-880-61	METAL	4.7K	1%	1/2W	
R180	1-214-907-00	METAL	56K	1%	1/2W	
R181	1-246-545-00	CARBON	1M	5%	1/4W	
R182	1-244-854-00	CARBON	160	5%	1/2W	
R201	1-244-873-00	CARBON	1K	5%	1/2W	
R202	1-244-937-00	CARBON	470K	5%	1/2W	
R203	1-246-485-00	CARBON	3.3K	5%	1/4W	
R204	1-244-897-00	CARBON	10K	5%	1/2W	
R205	1-246-467-00	CARBON	560	5%	1/4W	
R206	1-246-485-00	CARBON	3.3K	5%	1/4W	
R207	1-246-497-00	CARBON	10K	5%	1/4W	
R208	1-244-865-00	CARBON	470	5%	1/2W	
R209	1-214-868-00	METAL	1.5K	1%	1/2W	
R210	1-246-519-00	CARBON	82K	5%	1/4W	
R211	1-214-862-00	METAL	820	1%	1/2W	
R212	1-214-868-00	METAL	1.5K	1%	1/2W	
R213	1-214-862-00	METAL	820	1%	1/2W	
R214	1-228-905-00	RES, VAR, CARBON	50K/50K			
R251	1-244-873-00	CARBON	1K	5%	1/2W	

NOTE:

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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

SEMICONDUCTORS

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

CAPACITORS:

All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μF, PF: μμF.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

MMH : mH, UH : μH

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R252	1-244-937-00	CARBON	470K	5%	1/2W	
R253	1-246-485-00	CARBON	3.3K	5%	1/4W	
R254	1-244-897-00	CARBON	10K	5%	1/2W	
R255	1-246-467-00	CARBON	560	5%	1/4W	
R256	1-246-485-00	CARBON	3.3K	5%	1/4W	
R257	1-246-497-00	CARBON	10K	5%	1/4W	
R258	1-244-865-00	CARBON	470	5%	1/2W	
R259	1-214-868-00	METAL	1.5K	1%	1/2W	
R260	1-246-519-00	CARBON	82K	5%	1/4W	
R261	1-214-862-00	METAL	820	1%	1/2W	
R262	1-214-868-00	METAL	1.5K	1%	1/2W	
R263	1-214-862-00	METAL	820	1%	1/2W	
R301	1-244-905-00	CARBON	22K	5%	1/2W	
R302	1-246-467-00	CARBON	560	5%	1/4W	
R303	1-244-848-00	CARBON	91	5%	1/2W	
R304	1-244-857-00	CARBON	220	5%	1/2W	
R305	1-244-873-00	CARBON	1K	5%	1/2W	
R306	1-244-849-00	CARBON	100	5%	1/2W	
R307	1-246-475-00	CARBON	1.2K	5%	1/4W	
R308	1-244-857-00	CARBON	220	5%	1/2W	
R309	1-244-913-00	CARBON	47K	5%	1/2W	
R310	1-246-487-00	CARBON	3.9K	5%	1/4W	
R311	1-244-873-00	CARBON	1K	5%	1/2W	
R312	1-246-467-00	CARBON	560	5%	1/4W	
R313	1-246-483-00	CARBON	2.7K	5%	1/4W	
R314	1-214-867-00	METAL	1.3K	1%	1/2W	
R315	1-246-487-00	CARBON	3.9K	5%	1/4W	
R316	1-246-461-00	CARBON	330	5%	1/4W	
R317	1-214-872-00	METAL	2.2K	1%	1/2W	
R318	1-214-901-00	METAL	33K	1%	1/2W	
R319	1-246-461-00	CARBON	330	5%	1/4W	
R320	1-246-461-00	CARBON	330	5%	1/4W	
R321	1-246-545-00	CARBON	1M	5%	1/4W	
R322	△.1-247-202-00	CARBON	27	5%	1/2W	F
R323	△.1-246-467-00	CARBON	560	5%	1/4W	
R324	△.1-215-499-00	METAL	100	1%	1/4W	F
R325	△.1-215-499-00	METAL	100	1%	1/4W	F
R326	△.1-247-125-00	CARBON	560	5%	1/4W	F
R327	1-246-477-00	CARBON	1.5K	5%	1/4W	
R328	1-244-913-00	CARBON	47K	5%	1/2W	
R329	△.1-247-212-00	CARBON	68	5%	1/2W	F
R330	△.1-247-240-00	CARBON	1K	5%	1/2W	F

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
R331	△.1-215-500-00	METAL	220	1%	1/4W	F
R332	△.1-215-498-00	METAL	10	1%	1/4W	F
R333	△.1-215-498-00	METAL	10	1%	1/4W	F
R334	△.1-205-647-00	CEMENTED	0.22	5%	5W	F
R335	1-246-501-00	CARBON	15K	5%	1/4W	
R336	△.1-247-123-00	CARBON	470	5%	1/4W	F
R337	△.1-217-582-00	CEMENTED	8.2	10%	5W	F
R338	△.1-217-582-00	CEMENTED	8.2	10%	5W	F
R339	1-246-401-00	CARBON	1	5%	1/4W	
R340	1-246-461-00	CARBON	330	5%	1/4W	
R341	1-246-480-00	CARBON	2K	5%	1/4W	
R342	1-246-470-00	CARBON	750	5%	1/4W	
R343	1-246-493-00	CARBON	6.8K	5%	1/4W	
R344	1-246-491-00	CARBON	5.6K	5%	1/4W	
R345	1-244-945-00	CARBON	1M	5%	1/2W	
R346	1-246-489-00	CARBON	4.7K	5%	1/4W	
R351	1-244-905-00	CARBON	22K	5%	1/2W	
R352	1-246-467-00	CARBON	560	5%	1/4W	
R353	1-244-848-00	CARBON	91	5%	1/2W	
R354	1-244-857-00	CARBON	220	5%	1/2W	
R355	△.1-244-873-00	CARBON	1K	5%	1/2W	
R356	1-244-849-00	CARBON	100	5%	1/2W	
R357	1-246-475-00	CARBON	1.2K	5%	1/4W	
R358	1-244-857-00	CARBON	220	5%	1/2W	
R359	1-244-913-00	CARBON	47K	5%	1/2W	
R360	1-246-487-00	CARBON	3.9K	5%	1/4W	
R361	1-244-873-00	CARBON	1K	5%	1/2W	
R362	1-246-467-00	CARBON	560	5%	1/4W	
R363	1-246-483-00	CARBON	2.7K	5%	1/4W	
R364	1-214-867-00	METAL	1.3K	1%	1/2W	
R365	1-246-487-00	CARBON	3.9K	5%	1/4W	
R367	1-214-872-00	METAL	2.2K	1%	1/2W	
R368	1-214-901-00	METAL	33K	1%	1/2W	
R370	1-246-461-00	CARBON	330	5%	1/4W	
R371	1-246-545-00	CARBON	1M	5%	1/4W	
R372	△.1-247-202-00	CARBON	27	5%	1/2W	F
R373	1-246-467-00	CARBON	560	5%	1/4W	
R374	△.1-215-499-00	METAL	100	1%	1/4W	F
R375	△.1-215-499-00	METAL	100	1%	1/4W	F
R376	△.1-247-125-00	CARBON	560	5%	1/4W	F
R377	1-246-477-00	CARBON	1.5K	5%	1/4W	
R378	1-244-913-00	CARBON	47K	5%	1/2W	
R379	△.1-247-212-00	CARBON	68	5%	1/2W	F

NOTE:

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- Due to standardization, parts with part numbers (△-△△△-△△△-XX or △-△△△△-△△△-X) may be different from those used in the set.

SEMICONDUCTORS

In each case, U : μ , for example:
 UA... : μ A... , UPA... : μ PA... , UPC... : μ PC...
 UPD... : μ PD...

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS

- MMH : mH, UH : μ H

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

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description					
R380	△.1-247-240-00	CARBON	1K	5%	1/2W	F	
R381	△.1-215-500-00	METAL	220	1%	1/4W	F	
R382	△.1-215-498-00	METAL	10	1%	1/4W	F	
R383	△.1-215-498-00	METAL	10	1%	1/4W	F	
R384	△.1-205-647-00	CEMENTED	0.22	5%	5W	F	
R385	1-246-501-00	CARBON	15K	5%	1/4W		
R386	△.1-247-123-00	CARBON	470	5%	1/4W	F	
R387	△.1-217-582-00	CEMENTED	8.2	10%	5W	F	
R388	△.1-217-582-00	CEMENTED	8.2	10%	5W	F	
R389	1-246-401-00	CARBON	1	5%	1/4W		
R390	1-246-461-00	CARBON	330	5%	1/4W		
R391	1-246-480-00	CARBON	2K	5%	1/4W		
R392	1-246-470-00	CARBON	750	5%	1/4W		
R393	1-246-493-00	CARBON	6.8K	5%	1/4W		
R394	1-246-491-00	CARBON	5.6K	5%	1/4W		
R395	1-244-945-00	CARBON	1M	5%	1/2W		
R396	1-246-489-00	CARBON	4.7K	5%	1/4W		
R401	1-246-519-00	CARBON	82K	5%	1/4W		
R402	1-246-521-00	CARBON	100K	5%	1/4W		
R403	1-246-521-00	CARBON	100K	5%	1/4W		
R404	1-246-489-00	CARBON	4.7K	5%	1/4W		
R405	△.1-206-675-00	METAL OXIDE	3K	5%	2W	F	
R406	1-246-529-00	CARBON	220K	5%	1/4W		
R407	1-246-513-00	CARBON	47K	5%	1/4W		
R408	1-246-484-00	CARBON	3K	5%	1/4W		
R409	△.1-213-144-00	METAL OXIDE	1.2K	5%	1W	F	
R410	△.1-206-656-00	METAL OXIDE	470	5%	2W	F	
R411	△.1-206-656-00	METAL OXIDE	470	5%	2W	F	
R412	△.1-213-132-00	METAL OXIDE	120	5%	1W	F	
R413	△.1-206-658-00	METAL OXIDE	560	5%	2W	F	
R414	△.1-206-658-00	METAL OXIDE	560	5%	2W	F	
R415	1-246-491-00	CARBON	5.6K	5%	1/4W		
R416	1-246-489-00	CARBON	4.7K	5%	1/4W		
R417	1-246-513-00	CARBON	47K	5%	1/4W		
R418	△.1-206-674-00	METAL OXIDE	2.7K	5%	2W	F	
R419	1-246-507-00	CARBON	27K	5%	1/4W		
R420	1-246-513-00	CARBON	47K	5%	1/4W		
R421	△.1-213-151-00	METAL OXIDE	4.7K	5%	1W	F	
R422	1-244-889-00	CARBON	4.7K	5%	1/2W		
R423	1-246-513-00	CARBON	47K	5%	1/4W		
R424	1-246-481-00	CARBON	2.2K	5%	1/4W		
R425	1-246-501-00	CARBON	15K	5%	1/4W		
R501	1-214-749-00	METAL	6.8K	1%	1/4W		
R502	1-214-756-00	METAL	13K	1%	1/4W		
R503	1-246-473-00	CARBON	1K	5%	1/4W		

ELECTRICAL PARTS

Ref.No.	Part No.	Description					
R504	△.1-206-471-00	METAL OXIDE	22	5%	2W	F	
R505	△.1-206-471-00	METAL OXIDE	22	5%	2W	F	
R506	△.1-206-644-00	METAL OXIDE	150	5%	2W	F	
R507	△.1-206-644-00	METAL OXIDE	150	5%	2W	F	
R508	△.1-206-644-00	METAL OXIDE	150	5%	2W	F	
R509	△.1-206-486-00	METAL OXIDE	91	5%	2W	F	
R510	1-244-913-00	CARBON	47K	5%	1/2W		
R511	1-246-467-00	CARBON	560	5%	1/4W		
R512	△.1-206-657-00	METAL OXIDE	510	5%	2W	F	
R513	△.1-206-657-00	METAL OXIDE	510	5%	2W	F	
R514	△.1-206-657-00	METAL OXIDE	510	5%	2W	F	
R515	△.1-206-657-00	METAL OXIDE	510	5%	2W	F	
R516	△.1-206-657-00	METAL OXIDE	510	5%	2W	F	
R517	1-246-457-00	CARBON	220	5%	1/4W		
R518	1-246-483-00	CARBON	2.7K	5%	1/4W		
R519	1-246-477-00	CARBON	1.5K	5%	1/4W		
R551	1-214-749-00	METAL	6.8K	1%	1/4W		
R552	1-214-756-00	METAL	13K	1%	1/4W		
R553	1-246-473-00	CARBON	1K	5%	1/4W		
R554	△.1-206-471-00	METAL OXIDE	22	5%	2W	F	
R555	△.1-206-471-00	METAL OXIDE	22	5%	2W	F	
R701	1-246-545-00	CARBON	1M	5%	1/4W		
R702	1-246-545-00	CARBON	1M	5%	1/4W		
R703	1-246-545-00	CARBON	1M	5%	1/4W		
R704	1-246-545-00	CARBON	1M	5%	1/4W		
R705	1-246-545-00	CARBON	1M	5%	1/4W		
R706	1-246-473-00	CARBON	1K	5%	1/4W		
R707	1-246-473-00	CARBON	1K	5%	1/4W		
R708	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W		
R709	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W		
R710	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W		
R711	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W		
R712	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W		
R713	1-246-461-00	(G-AEP)...CARBON	330	5%	1/4W		
R714	1-246-461-00	(G-AEP)...CARBON	330	5%	1/4W		
R715	△.1-247-114-00	CARBON	200	5%	1/4W	F	
R716	△.1-247-124-00	CARBON	510	5%	1/4W	F	
R751	1-246-545-00	CARBON	1M	5%	1/4W		
R752	1-246-545-00	CARBON	1M	5%	1/4W		
R753	1-246-545-00	CARBON	1M	5%	1/4W		
R754	1-246-545-00	CARBON	1M	5%	1/4W		
R755	1-246-545-00	CARBON	1M	5%	1/4W		
R756	1-246-473-00	CARBON	1K	5%	1/4W		
R757	1-246-473-00	CARBON	1K	5%	1/4W		
R758	1-246-465-00	(G-AEP)...CARBON	470	5%	1/4W		

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- Due to standardization, parts with part numbers (△-△△△-△△△-XX or △-△△△△-△△△-X) may be different from those used in the set.

SEMICONDUCTORS

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

CAPACITORS:

All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μF, PF: μuF.

RESISTORS

All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

MMH : mH, UH : μH

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

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R759	1-246-465-00	(G-AEP)...CARBON 470 5% 1/4W
R760	1-246-465-00	(G-AEP)...CARBON 470 5% 1/4W
R761	1-246-465-00	(G-AEP)...CARBON 470 5% 1/4W
R762	1-246-465-00	(G-AEP)...CARBON 470 5% 1/4W
R763	1-246-461-00	(G-AEP)...CARBON 330 5% 1/4W
R764	1-246-461-00	(G-AEP)...CARBON 330 5% 1/4W
R902	1-244-825-00	(G-AEP)...CARBON 10 5% 1/2W
RT101	1-224-660-00	RES, ADJ, METAL FILM 1K
RT151	1-224-249-XX	RES, ADJ, SOLID 1K
RT201	1-224-249-XX	RES, ADJ, SOLID 1K
RT251	1-224-249-XX	RES, ADJ, SOLID 1K
RT301	1-224-248-XX	RES, ADJ, SOLID 470
RT351	1-224-248-XX	RES, ADJ, SOLID 470
RV202	1-228-904-00	RES, VAR, CARBON 10K/10K
RV301	1-228-906-00	RES, VAR, CARBON 37K/37K
RV302	1-228-907-00	RES, VAR, CARBON 24K/24K
RY401	1-515-401-00	RELAY
RY403	1-515-356-00	RELAY
S101	1-554-349-00	SWITCH, ROTARY SLIDE (REMOTE)
S101	1-554-350-00	SWITCH, SLIDE
S102	1-554-354-00	SWITCH, PUSH (6 KEY)
S201	1-554-352-00	SWITCH, PUSH (1 KEY)
S301	1-554-353-00	SWITCH, PUSH (2 KEY)
S302	1-554-353-00	SWITCH, PUSH (2 KEY)
S401	1-554-351-00	SWITCH, ROTARY SLIDE
S402	△,1-552-141-00	(AEP,G-AEP).....SWITCH, PUSH
S402	△,1-552-246-00	(US,Canadian)...SWITCH, PUSH
S403	△,1-554-347-00	SWITCH, SEESAW
S701	1-553-598-00	SWITCH, SLIDE (REMOTE TYPE)
S701	1-554-348-00	SWITCH, ROTARY SLIDE (REMOTE)
T401	△,1-447-581-00	(US,Canadian)...TRANSFORMER, POWER
T401	△,1-447-582-00	(AEP,G-AEP).....TRANSFORMER, POWER
TM401	1-536-767-00	TERMINAL BOARD, SPEAKER
TM402	1-536-767-00	TERMINAL BOARD, SPEAKER

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (△-△△△-△△△-XX or △-△△△△-△△△-X) may be different from those used in the set.

SEMICONDUCTORS

In each case, U : μ , for example:
 UA...: μ A...; UPA...: μ PA...; UPC...: μ PC...
 UPD...: μ PD...

CAPACITORS:

- All capacitors are in μ F. Common capacitors are omitted. Refer to the following lists for their part numbers.
 MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

F : nonflammable

COILS

- MMH : mH, UH : μ H

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

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TA-F555ES¹⁵⁸

SERVICE MANUAL

US Model

No. 1
August, 1983

SUPPLEMENT

Subject: Safety-related Component Addition

ELECTRICAL PARTS ADDED

Ref. No.	Part No.	Description
C309	▲ .1-123-357-00	ELECT 22 μ F 20% 50V
C359	▲ .1-123-357-00	ELECT 22 μ F 20% 50V
C407	▲ .1-123-843-00	ELECT 0.002 μ F 20% 63V
C408	▲ .1-123-843-00	ELECT 0.002 μ F 20% 63V
C411	▲ .1-125-325-00	ELECT 22000 μ F 20% 63V
C412	▲ .1-125-325-00	ELECT 22000 μ F 20% 63V
C501	▲ .1-123-624-00	ELECT 470 μ F 20% 120V
C551	▲ .1-123-624-00	ELECT 470 μ F 20% 120V
D301	▲ .8-719-910-11	DIODE HZ11A1L
D305	▲ .8-719-300-28	DIODE STV-2H
D351	▲ .8-719-910-11	DIODE HZ11A1L
D355	▲ .8-719-300-28	DIODE STV-2H
D501	▲ .8-719-910-69	DIODE HZ6C3L
D504	▲ .8-719-931-08	DIODE EQB01-08
D551	▲ .8-719-910-69	DIODE HZ6C3L
Q312	▲ .8-729-114-22	TRANSISTOR 2SA1142
Q314	▲ .8-729-180-93	TRANSISTOR 2SD809
Q316	▲ .8-729-168-22	TRANSISTOR 2SC2682
Q317	▲ .8-729-114-22	TRANSISTOR 2SA1142
Q318	▲ .8-729-107-53	TRANSISTOR 2SC2275A
Q320	▲ .8-729-300-11	TRANSISTOR 2SC2922
Q321	▲ .8-729-300-10	TRANSISTOR 2SA1216
Q362	▲ .8-729-114-22	TRANSISTOR 2SA1142
Q364	▲ .8-729-180-93	TRANSISTOR 2SD809
Q366	▲ .8-729-168-22	TRANSISTOR 2SC2682
Q367	▲ .8-729-114-22	TRANSISTOR 2SA1142
Q368	▲ .8-729-107-53	TRANSISTOR 2SC2275A
Q370	▲ .8-729-300-11	TRANSISTOR 2SC2922
Q371	▲ .8-729-300-10	TRANSISTOR 2SA1216
Q501	▲ .8-729-283-42	TRANSISTOR 2SB834
Q506	▲ .8-729-283-42	TRANSISTOR 2SB834
Q551	▲ .8-729-288-02	TRANSISTOR 2SD880
Q556	▲ .8-729-288-02	TRANSISTOR 2SD880

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

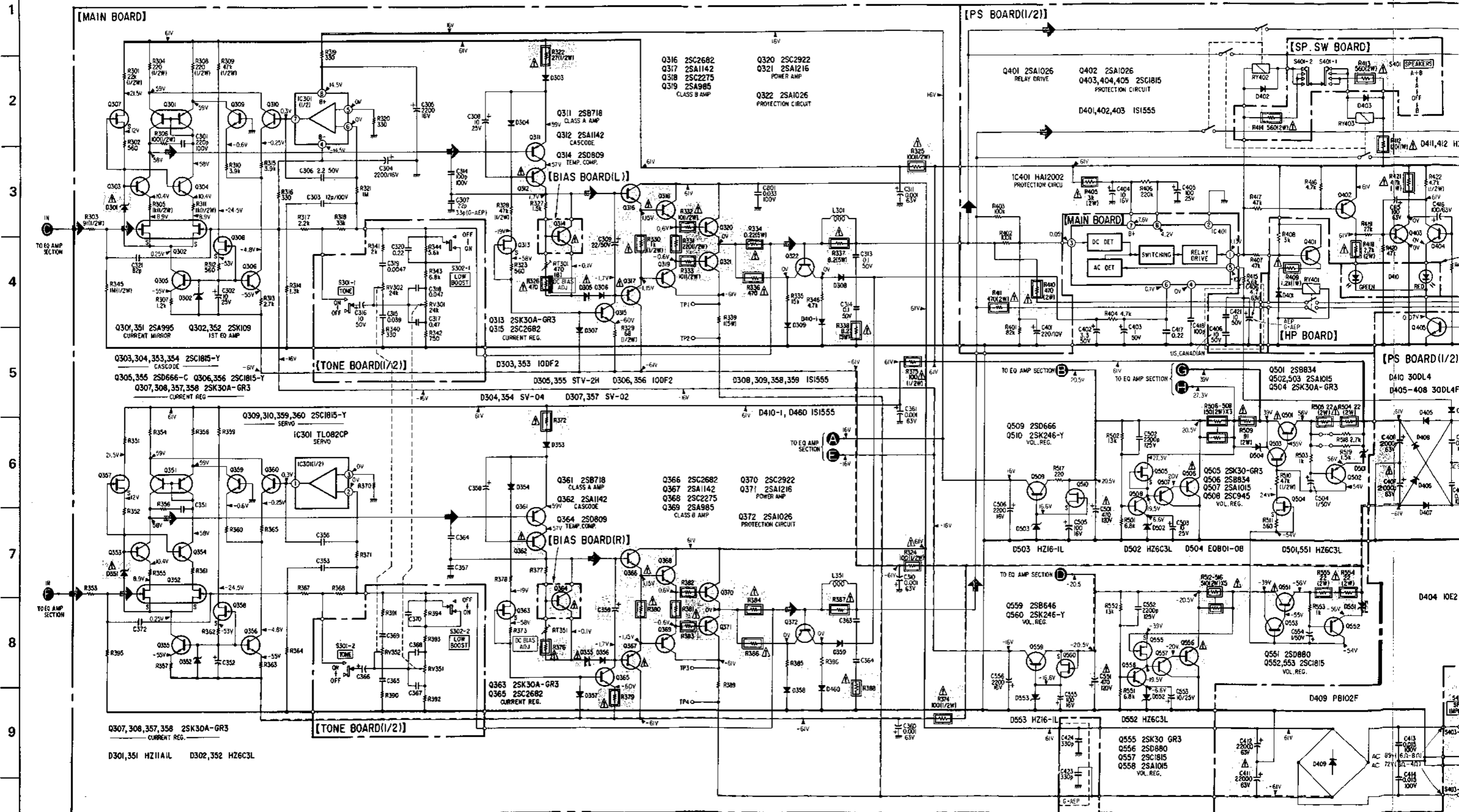
INTEGRATED STEREO AMPLIFIER
SONY®



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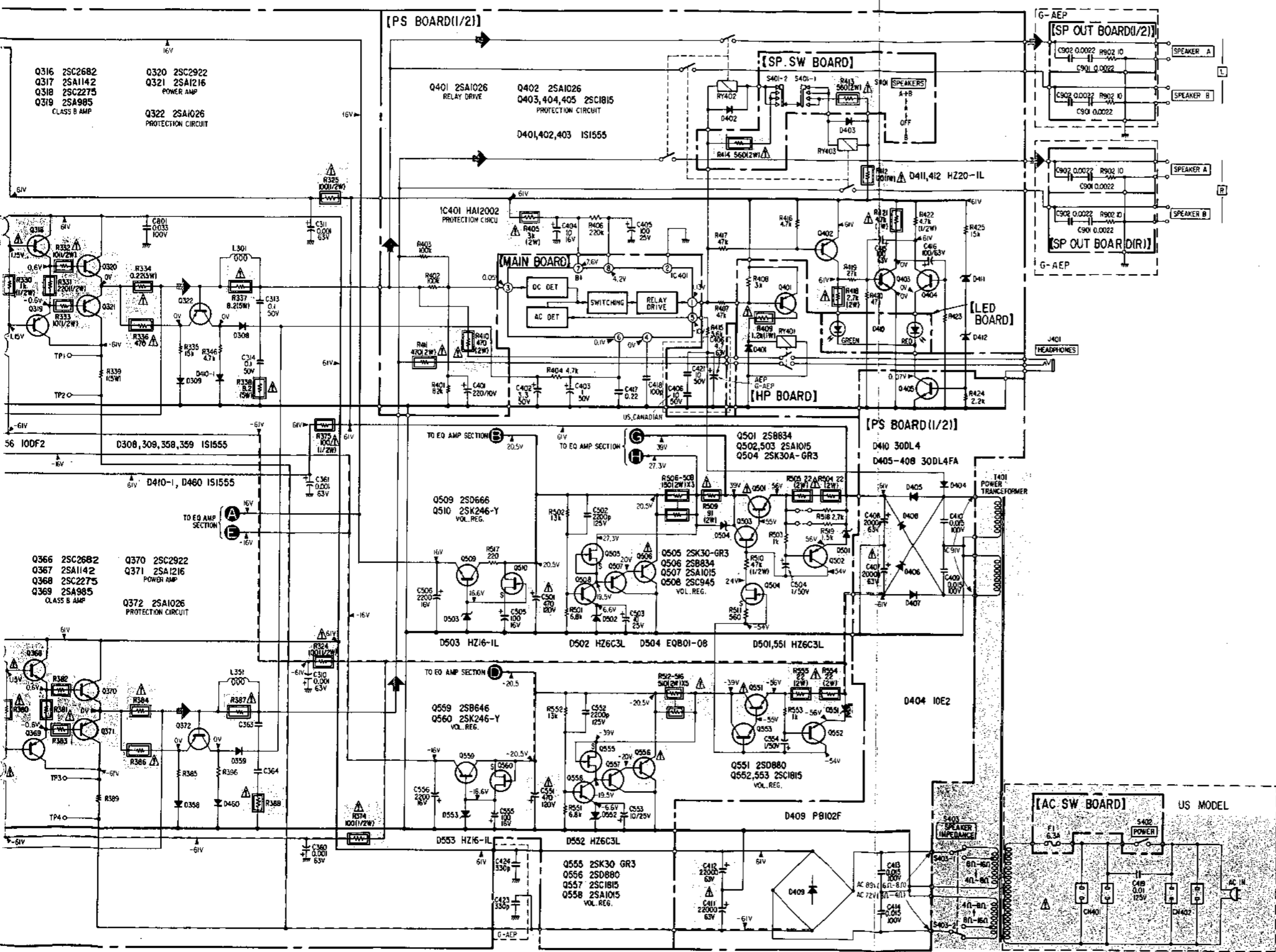
Super

4.4. SCHEMATIC DIAGRAM (2)



TA-F555ES TA-F555ES

H I J K L M N O P Q R S T U V W



Note:

- → : signal path
- Components for right channel have same values as for left channel.
- All capacitors are in μF unless otherwise noted. pF : μF 50V or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
- : nonflammable resistor.
- : panel designation.
- : adjustment for repair.
- : B+ bus.
- : B- bus.
- Readings are taken under no-signal (detuned) conditions. No mark: PHONO
- Switches

Ref. No.	Switch	Position
S101	CARTRIDGE LOAD	3 Ω (MC)
S102-1	PHONO	ON
S102-2	TUNER	OFF
S102-3	CD	OFF
S102-4	AUX	OFF
S102-5	TAPE 1	OFF
S102-6	TAPE 2	OFF
S201	SUBSONIC	OFF
S301	STONE	OFF
S302	LOW BOOST	OFF
S401	SPEAKERS	A + B
S402	POWER	OFF
S403	SPEAKER IMPEDANCE	8 Ω - 16 Ω
S701	REC OUT SELECTOR	PHONO

Note: Voltages are measured with a VOM (50k Ω /V).

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