

STR-V25

*US Model
Canadian Model*

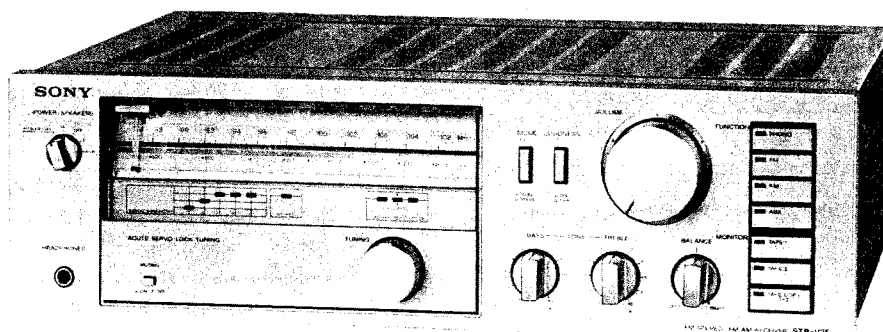


Photo : US model

FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

GENERAL

- System:** Superheterodyne FM/AM tuner
Equalizer amp section: IC op-amp, NF type
Tone amp section: IC op-amp, NF type
Power amp section: Pure-complementary dc amp
- Power Requirements:** 120 V ac, 60 Hz
- Power Consumption:** US model; 80 W
Canadian model; 120 W
- AC Outlets:** Switched 100 W
Unswitched 300 W

- Dimensions:** US model;
Approx. 430 (w) x 135 (h) x 380 (d) mm
16 ¹⁵/₁₆ (w) x 5 ³/₁₆ (h) x 14 ⁷/₈ (d) inches
Canadian model;
Approx. 460 (w) x 135 (h) x 380 (d) mm
18 (w) x 5 ³/₁₆ (h) x 14 ⁷/₈ (d) inches
including projecting parts and controls
- Weight:** US model;
Approx. 7.7 kg, 17 lbs (net)
Approx. 8.8 kg, 19 lbs 3 oz (in shipping carton)
Canadian model;
Approx. 8.5 kg, 18 lbs 12 oz (net)
Approx. 9.6 kg, 21 lbs 3 oz (in shipping carton)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS 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.

ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OUDANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

AMPLIFIER SECTION

**Power Output and
Total Harmonic
Distortion:**

With 8 Ω loads, both channels driven, from 20 — 20,000 Hz; rated 28 W per channel minimum RMS power, with no more than 0.04 % total harmonic distortion from 250 mW to rated output.

— Continued on page 2 —

SONY[®]

SERVICE MANUAL

STR-V25

Damping Factor: 40 at 1 kHz, 8 Ω
 Dynamic Headroom: 1.5 dB
 Intermodulation (IM) Distortion: Less than 0.04 % at rated output
 (60Hz : 7kHz = 4 : 1)
 Residual Noise: Less than 0.2 mV at 8 Ω

Inputs:

	Sensitivity	Impedance	S/N	Weighting network
PHONO	2.5 mV (-50 dB)	50 k Ω	77 dB 76 dB*	A
TAPE 1, 2	150 mV (-14.5 dB)	50 k Ω	97 dB 80 dB*	A
AUX	150 mV (-14.5 dB)	50 k Ω	97 dB 80 dB*	A

Measured with rated output power into 8 Ω loads (both channels driven simultaneously) at 1 kHz

* '78 IHF

Outputs (with rated input):

REC OUT 1, 2	Voltage 150 mV (-14.5 dB), Impedance 10 k Ω
HEADPHONES	Accepts low impedance headphones.
SPEAKER A, B	8 - 16 Ω speakers are suitable.

Measured with rated input, FM 30 % modulation

Frequency Response: PHONO: RIAA equalization curve ± 0.5 dB
 AUX, TAPE 1, 2: 5 Hz - 70 kHz $\begin{smallmatrix} +0 \\ -1 \end{smallmatrix}$ dB
 Tone Controls: BASS ± 10 dB at 50 Hz
 TREBLE ± 10 dB at 20 kHz
 Loudness Control: +10 dB at 50 Hz
 (att. 30dB) +3 dB at 10 kHz

FM TUNER SECTION

Tuning Range: 87.5 - 108 MHz
 Antenna Terminals: 300 Ω balanced
 75 Ω unbalanced
 Intermediate Frequency: 10.7 MHz

Sensitivity at 50dB Quieting: 16.1 dBf, 3.5 μ V (mono)
 36.1 dBf, 35 μ V (stereo)
 Usable Sensitivity: 10.3 dBf, IHF 1.8 μ V
 Signal-to-noise Ratio: 75 dB (mono)
 70 dB (stereo)
 Harmonic Distortion: at 100 Hz
 0.15 % (mono), 0.2 % (stereo)
 at 1 kHz
 0.1 % (mono), 0.15 % (stereo)
 at 6 kHz
 0.15 % (mono), 0.2 % (stereo)
 Separation: 40 dB at 100 Hz
 45 dB at 1 kHz
 35 dB at 10 kHz
 Frequency Response: 30 Hz - 15 kHz ± 1 dB
 Selectivity: 60 dB at 400 kHz
 Capture Ratio: 1.5 dB
 AM Suppression Ratio: 50 dB
 Image Response Ratio: 45 dB
 IF Response Ratio: 90 dB
 Spurious Response Ratio: 75 dB
 RF Intermodulation: 65 dB
 Sub-carrier Product Ratio: 40 dB
 Muting Threshold: Approx. 18 μ V, 25 dBf

AM TUNER SECTION

Tuning Range: 530 kHz - 1,610 kHz
 Antenna: Built-in ferrite-rod antenna,
 External antenna terminal
 Intermediate Frequency: 450 kHz
 Usable Sensitivity: 300 μ V/m, ferrite-rod antenna
 100 μ V, external antenna
 at 1,000 kHz
 Signal-to-noise Ratio: 50 dB at 50 mV/m
 Harmonic Distortion: 0.5 % at 50 mV/m, 400 Hz
 Selectivity: 35 dB at 10 kHz

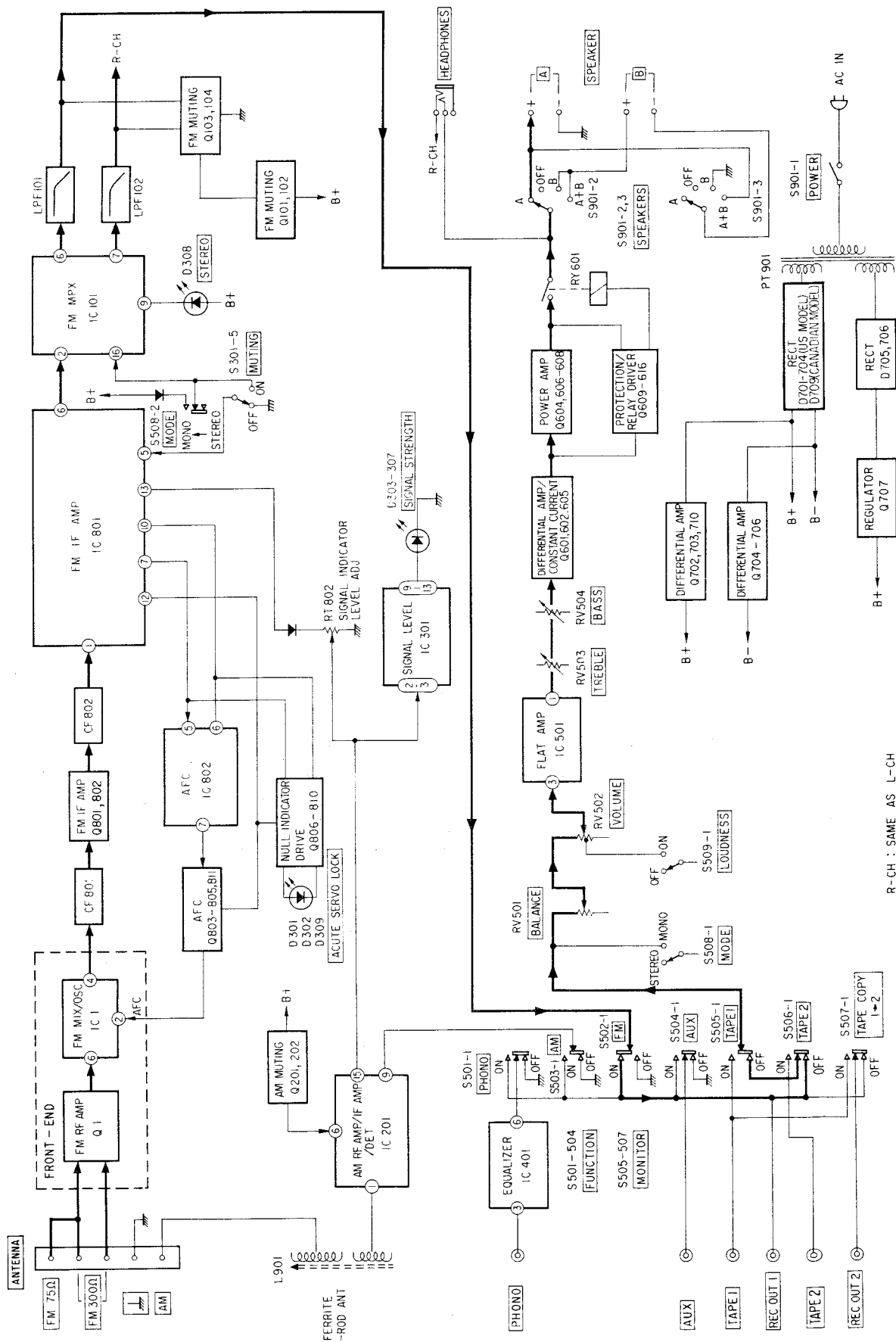
MODEL IDENTIFICATION

- Specification Label -

SONY	FM STEREO / FM - AM RECEIVER
	MODEL NO. STR-V25
	FREQ RANGE: FM 87.5-108MHz AM 530-1610 KHz
	IF : FM 10.7MHz AM 450 KHz
SERIAL NO. _____	

US model: AC 120V 60Hz 80W
 Canadian model: AC 120V 60Hz 120W

SECTION 1 OUTLINE

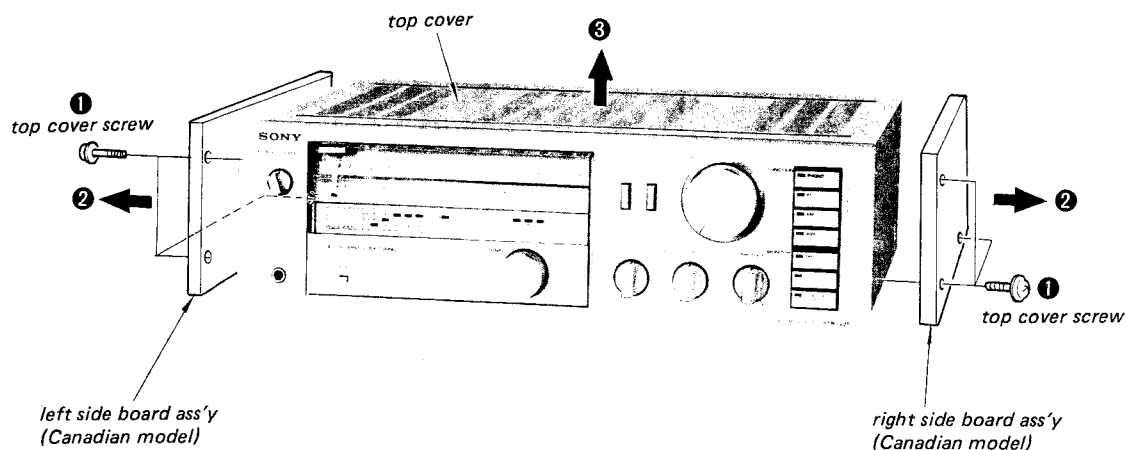


SECTION 2 DISASSEMBLY

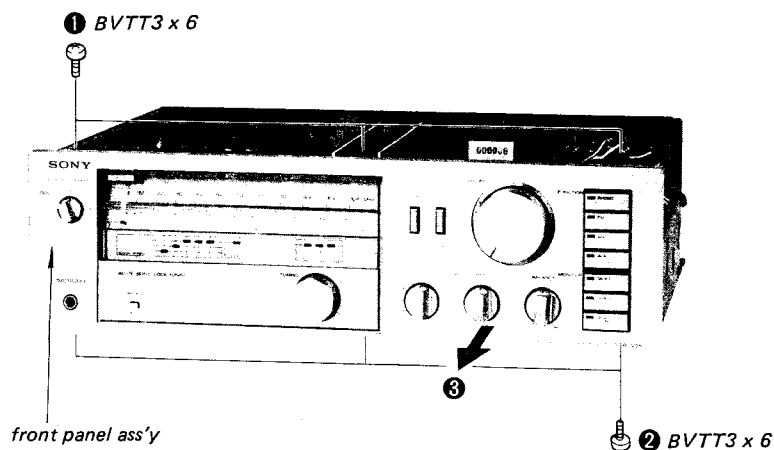
2-1. REMOVAL

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

TOP COVER



FRONT PANEL



BOTTOM PLATE

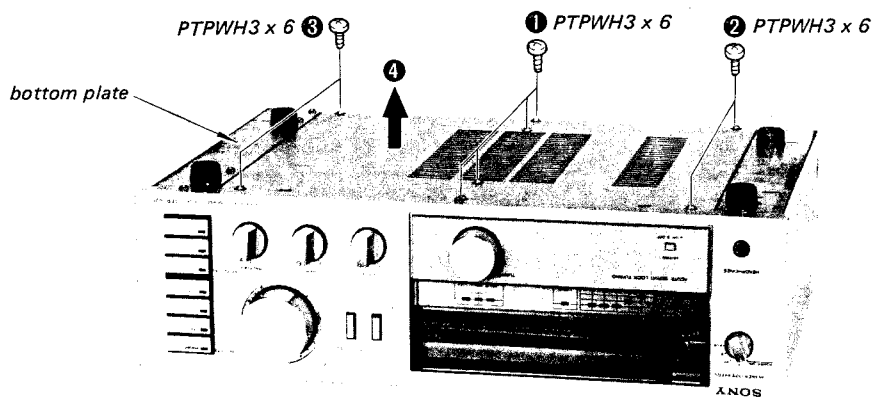
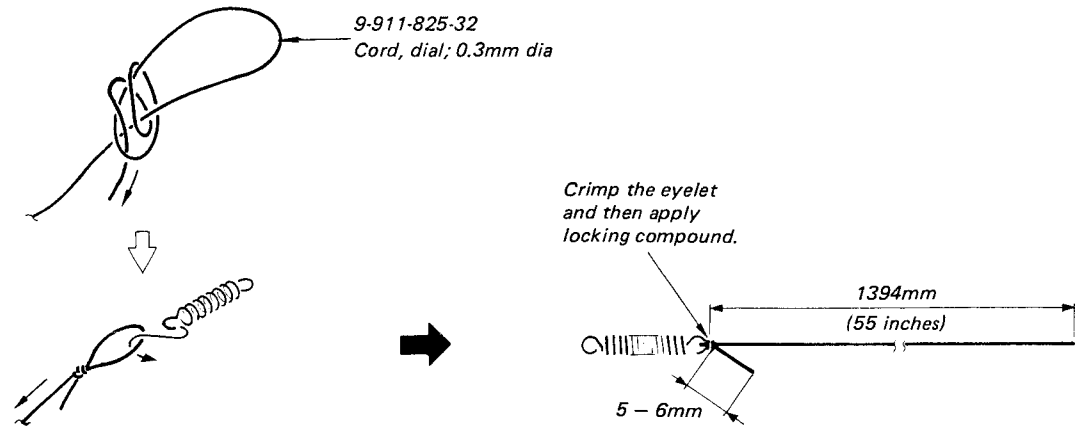


Photo : US model

SECTION 3
ELECTRICAL ADJUSTMENTS

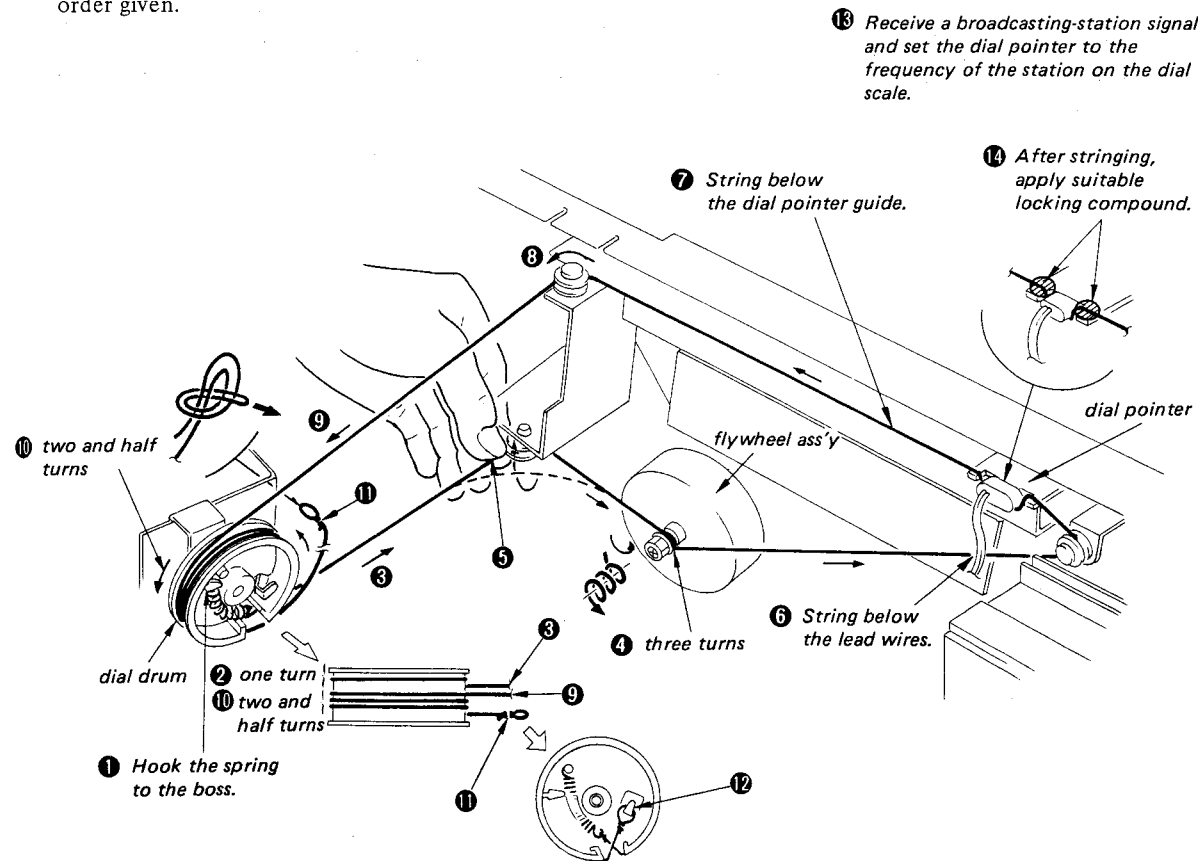
2-2. DIAL CORD STRINGING

1. Preparation



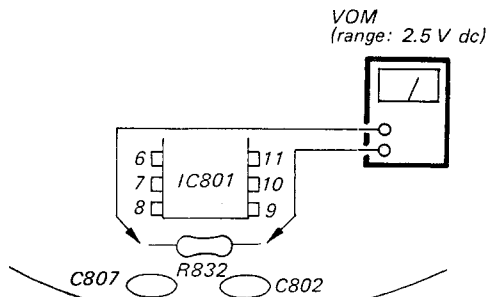
2. Stringing

- 1). Turn the tuning capacitor shaft fully clockwise, and set the dial drum to the position as illustrated.
- 2). Follow the stringing procedure in the numerical order given.



TUNER SECTION

FM Discriminator Alignment 1



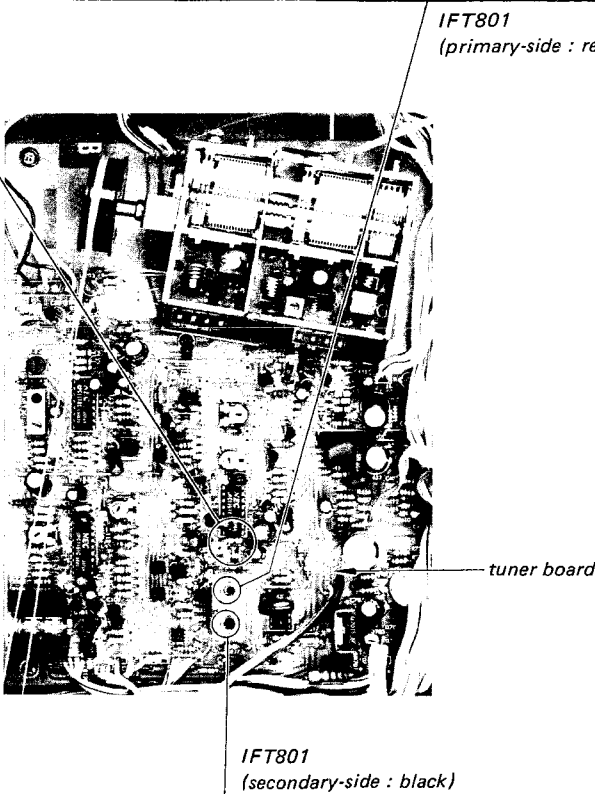
Setting:

MODE switch: MONO

Procedure:

1. Detune the set.
2. Adjust the red core (primary-side) of IFT801 for 0 V dc reading on VOM.

Note: Repeat the secondary-side and primary-side adjustments several times.

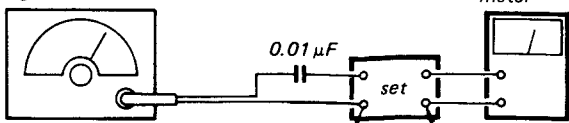


FM Discriminator Alignment 2

Setting:

MODE switch: MONO

FM rf signal generator



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation: 400 Hz, 75 kHz deviation (100 %)

Procedure:

Adjust the black core (secondary side) of IFT801 for minimum distortion.

STR-V25 STR-V25

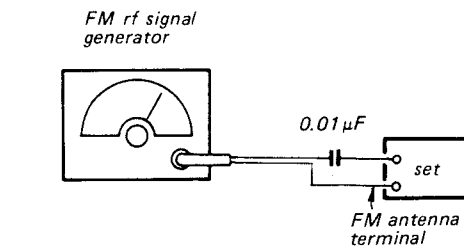
VCO Adjustment

A) Regular Method

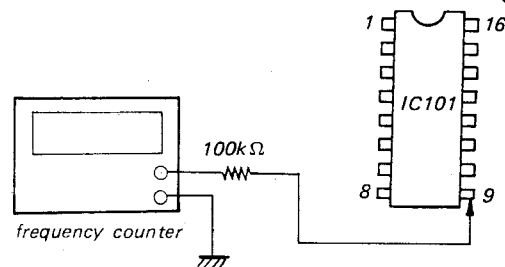
Setting:

MODE switch: MONO

Procedure:



Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100%)
Output level: 1 mV (60 dB)

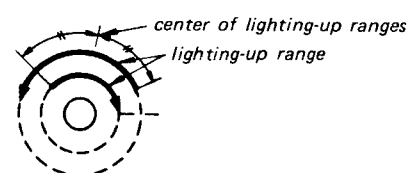


1. Tune the set to 98 MHz.
2. Adjust RT101 for 76 kHz $\pm$ 100 Hz on the counter.

B) Simple Method

Procedure:

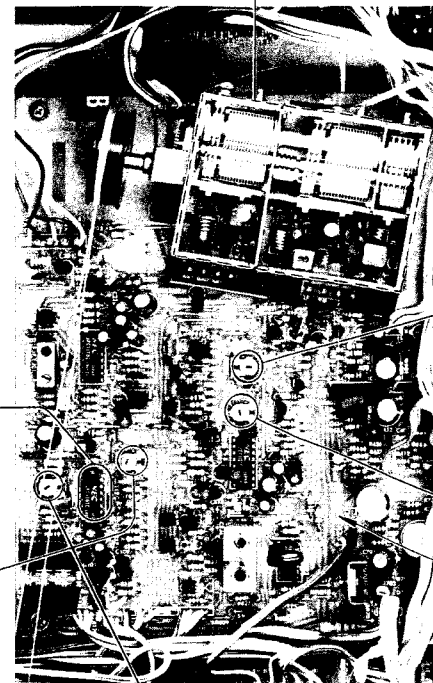
1. Tune the set to the FM stereo broadcasting signal.
2. Turn RT101 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RT101 at the center of the lighting-up range of both turns as shown below.



FREQUENCY COVERAGE ADJUSTMENT, TRACKING ADJUSTMENT and IF ALIGNMENT

The front-end section has been carefully adjusted at the factory, so the adjustment is unnecessary in the field.

FRONT-END SECTION

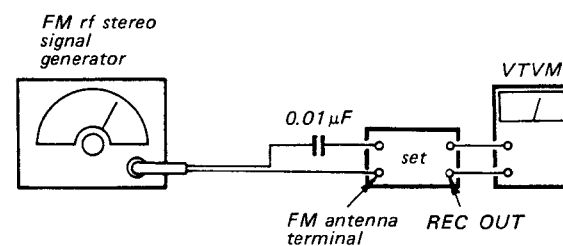


FM Stereo Separation Adjustment

Setting:

MODE switch: STEREO
MUTING switch: ON

Procedure:



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation: Audio (400 Hz): 33.75 kHz deviation (45%)
Pilot (19 kHz): 7.5 kHz deviation (10%)

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RT102 for minimum reading
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RT102 for minimum reading.

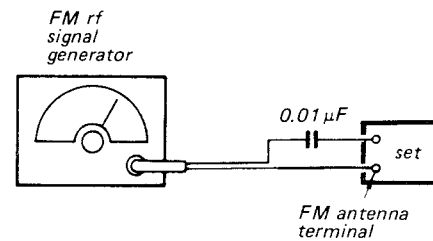
L-CH Stereo separation: (A) - (B)
R-CH Stereo separation: (C) - (D)

The separations of both channels should be equal.

Signal Indicator Level Adjustment

Setup:

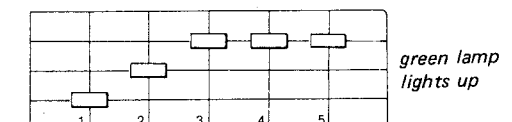
MODE switch: MONO



Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100%)
Output level: 1 mV (60 dB)

Procedure:

Tune the set to 98 MHz and adjust RT802 so that all signal elements light up. (See figure below.)

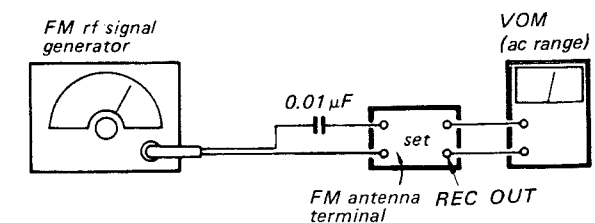


FM Muting Level Adjustment

Setting:

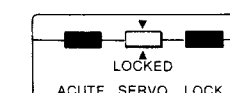
MODE switch: STEREO
MUTING switch: ON

Procedure:



Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100%)
Output level: 10 μV (20 dB)

1. Tune the set to 98 MHz.
2. Turn RT801 and stop it just when the VOM indication suddenly decreases.
3. Receive a signal stronger than the muting level. Confirm that the ACUTE SERVO LOCK lamp (green) lights up. (See figure below.)



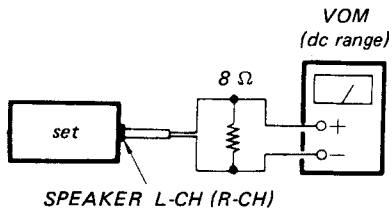
The green lamp at the center lights up.

AUDIO SECTION

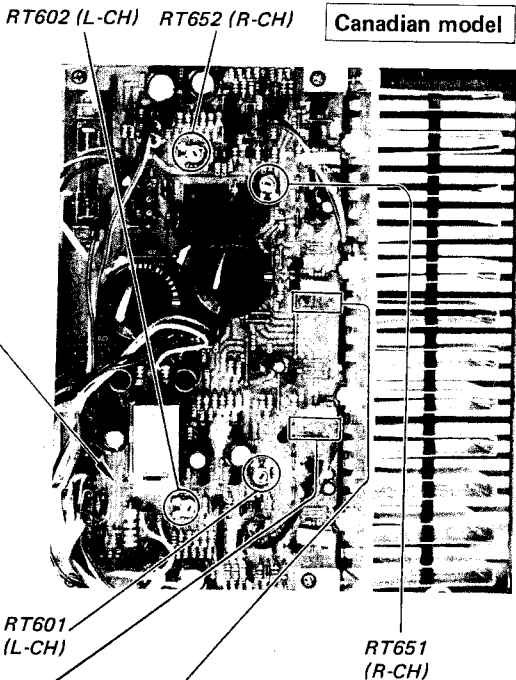
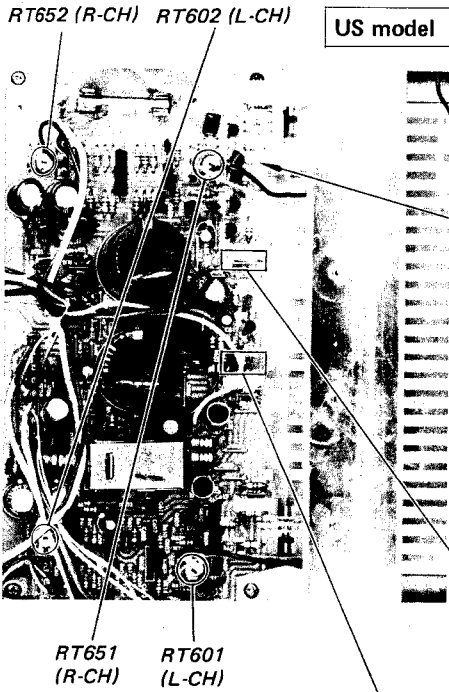
Note 1. DC bias and DC balance adjustments should be performed about five minutes later after the POWER switch is turned ON.

2. Repeat DC bias and DC balance adjustments two or three times.

DC Balance Adjustment
(with no signal input)



Adjust RT602 (L-CH) and RT652 (R-CH) for 0V dc reading on VOM.

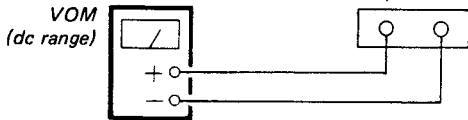


power amp board

DC Bias Adjustment
(with no signal input)

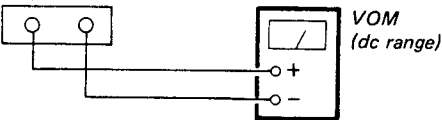
— L-CH —

Adjust RT601 for 20mV dc reading on VOM.



— R-CH —

Adjust RT651 for 20mV dc reading on VOM.



- Note on Schematic Diagram:
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalum.
 - All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
 - : nonflammable resistor.
 - Δ : internal component.
 - : panel designation.
 - : adjustment for repair.
 - : B+ bus.
 - : B- bus.
 - Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken under with a VOM (20 $\text{k}\Omega/\text{V}$).
 - no mark: { FM section (FM stereo)
 - AM section (detuned)
 - () : FM (detuned)
 - Voltage variations may be noted due to normal production tolerances.
 - Switch

Ref. No.	Switch	Position
S301-5, 6	MUTING	OFF
S501-1 to 3	PHONO	ON
S502-1 to 4	FM	OFF
S503-1 to 4	AM	OFF
S504-1 to 3	AUX	OFF
S505-1 to 4	TAPE 1	OFF
S506-1 to 4	TAPE 2	OFF
S507-1 to 4	TAPE COPY 1→2	OFF
S508-1, 2	MODE	STEREO
S509-1, 2	LOUDNESS	OFF
S901-1 to 3	POWER/SPEAKERS	POWER OFF

Replacement Semiconductors

For replacement, use semiconductors except in ().

SECTION 4
DIAGRAMS

ssd. pF : $\mu\mu$ F
electrolytics

wise noted.

ss otherwise

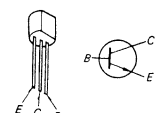
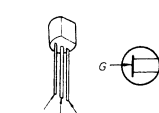
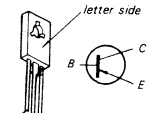
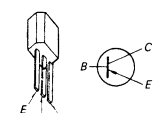
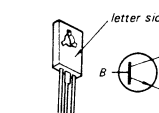
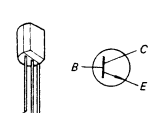
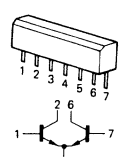
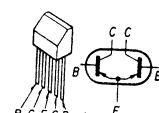
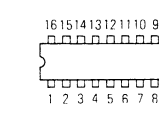
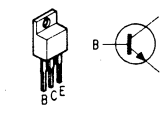
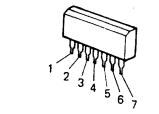
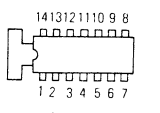
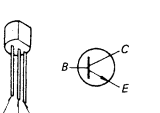
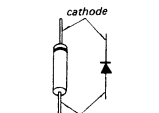
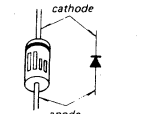
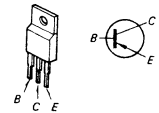
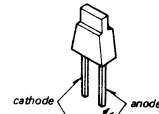
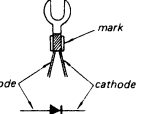
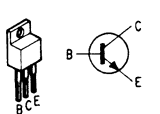
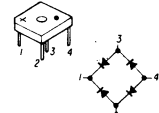
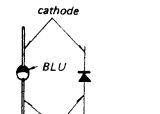
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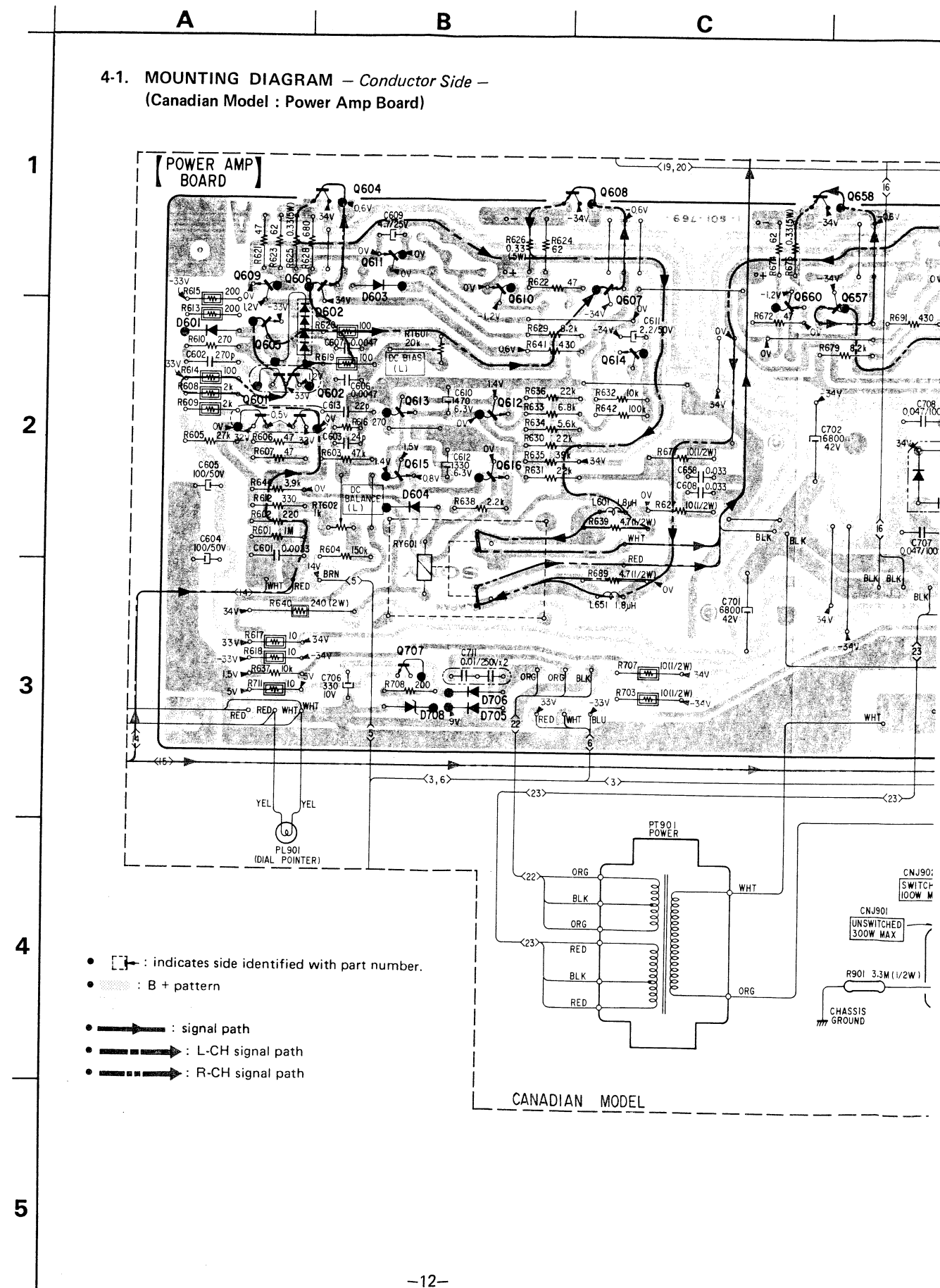
normal pro-

tion

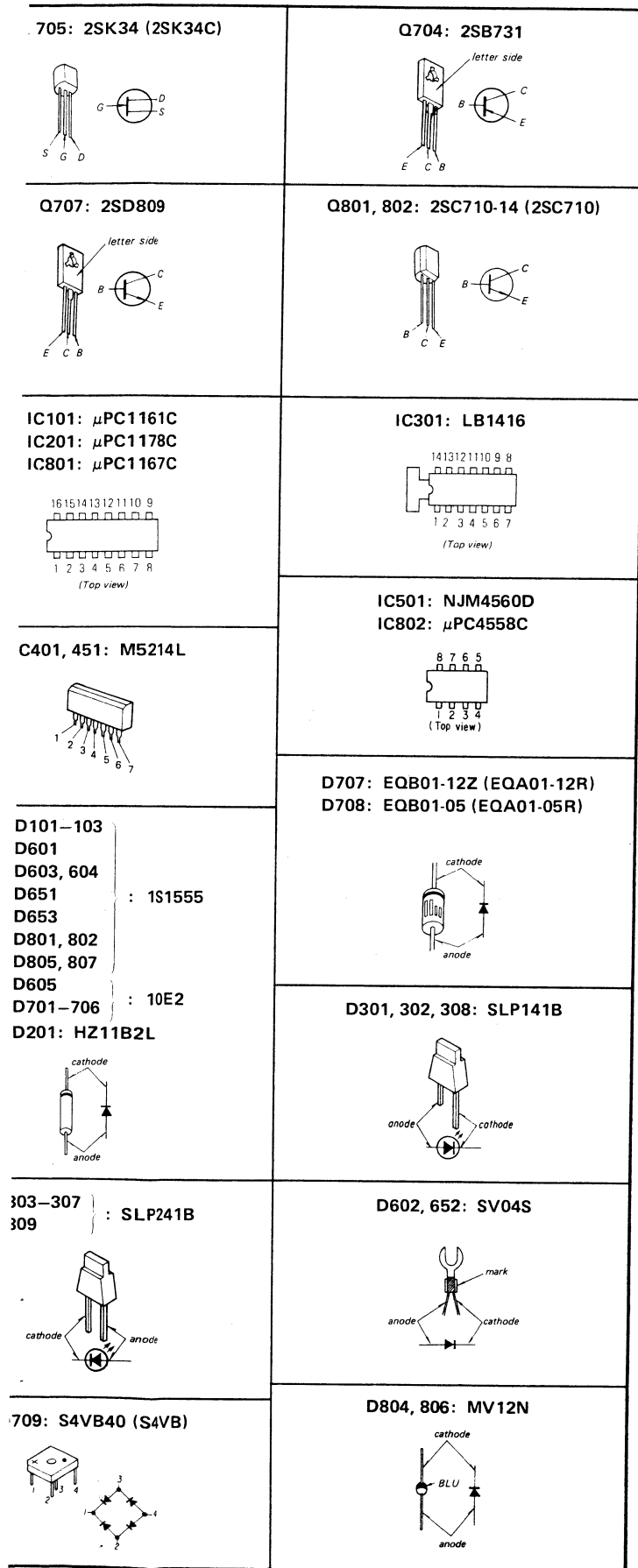
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OFF

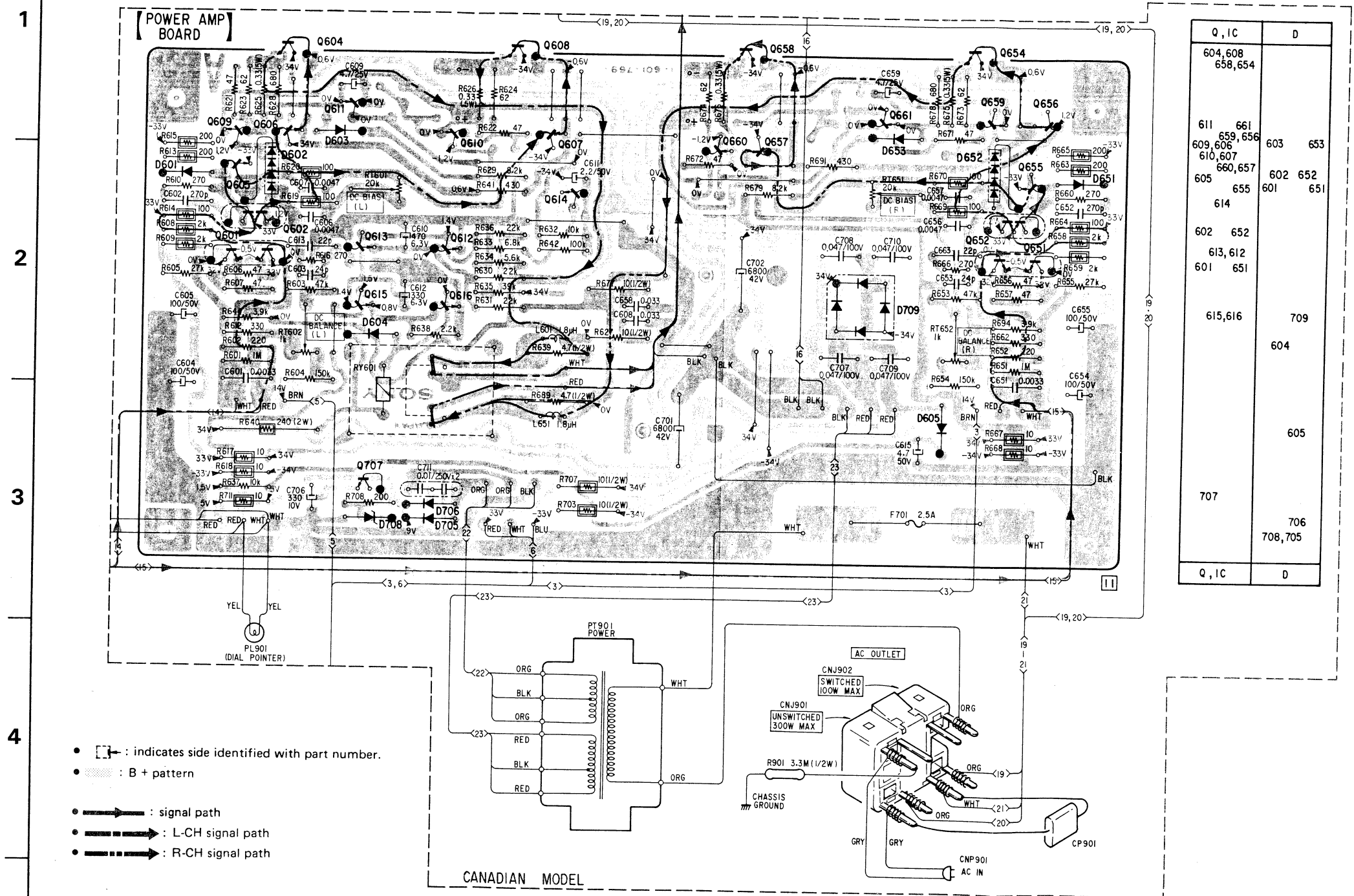
Q101, 103 Q104, 201 Q202, 609 Q659 Q612-616 Q803-807 Q811 : 2SC1364 (2SC1815) 	Q702, 705: 2SK34 (2SK34C) 	Q704: 2SB731 letter side 
Q102, 610 Q660, 706 Q808-810 Q611, 661 : 2SA1027R (2SA1015) : 2SA1049 	Q707: 2SD809 letter side 	Q801, 802: 2SC710-14 (2SC710) 
Q601, 651: 2SC2725 	Q602, 652: 2SA979 	IC101: μPC1161C IC201: μPC1178C IC801: μPC1167C 
Q604, 654: 2SC1986D (2SC1827) 	IC401, 451: M5214L 	IC301: LB1416 
Q605, 655: 2SC1914A Q606, 656: 2SC1735 	D101-103 D601 D603, 604 D651 D653 D801, 802 D805, 807 D605 D701-706 D201: HZ11B2L : 1S1555 : 10E2 	D707: EQB01-12Z (EQA01-12R) D708: EQB01-05 (EQA01-05R) 
Q608, 658: 2SA771 (2SA769) 	D303-307 D309 : SLP241B 	D602, 652: SV04S 
Q701: 2SC1986D (2SC1826) 	D709: S4VB40 (S4VB) 	D804, 806: MV12N 

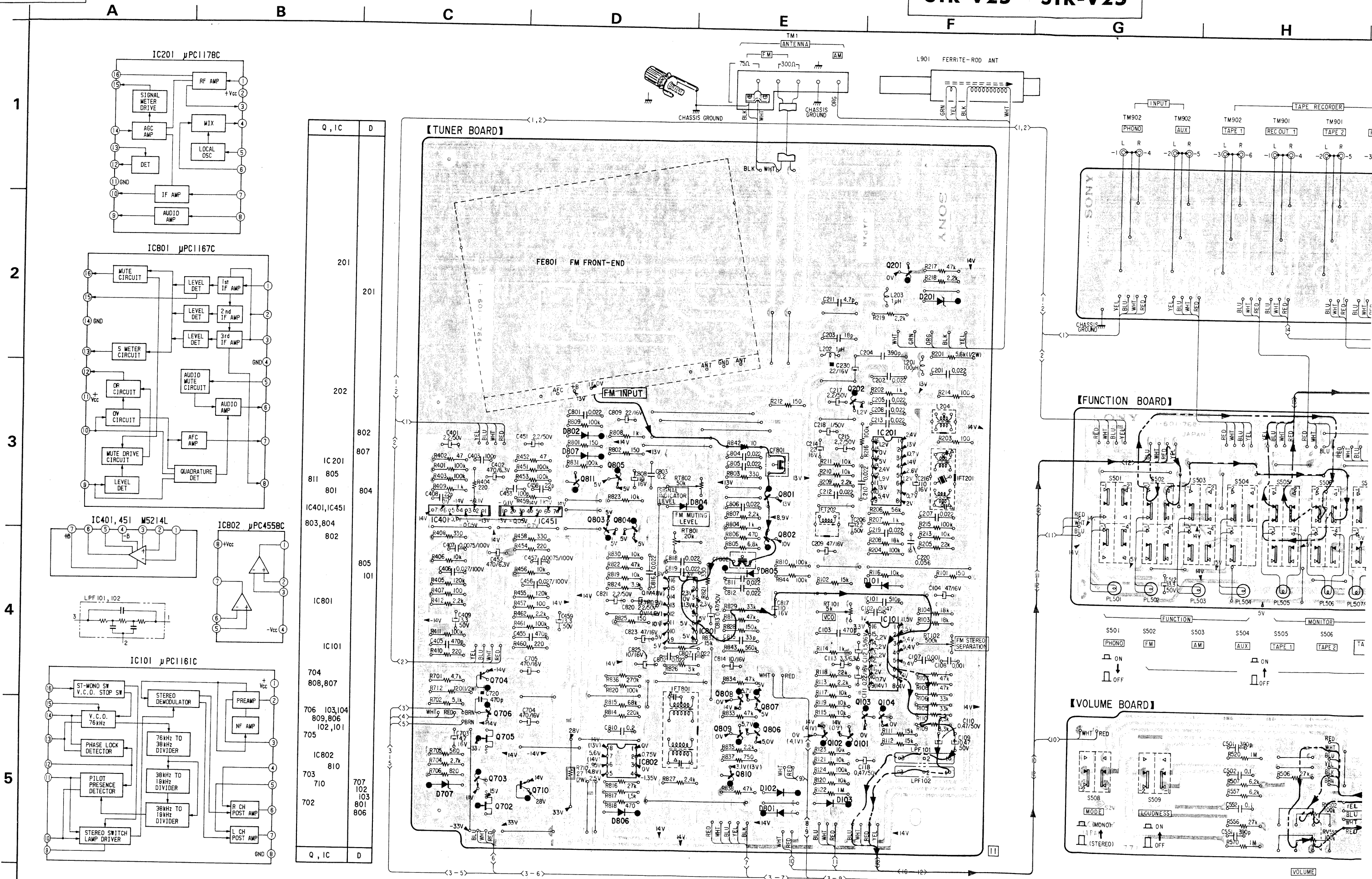


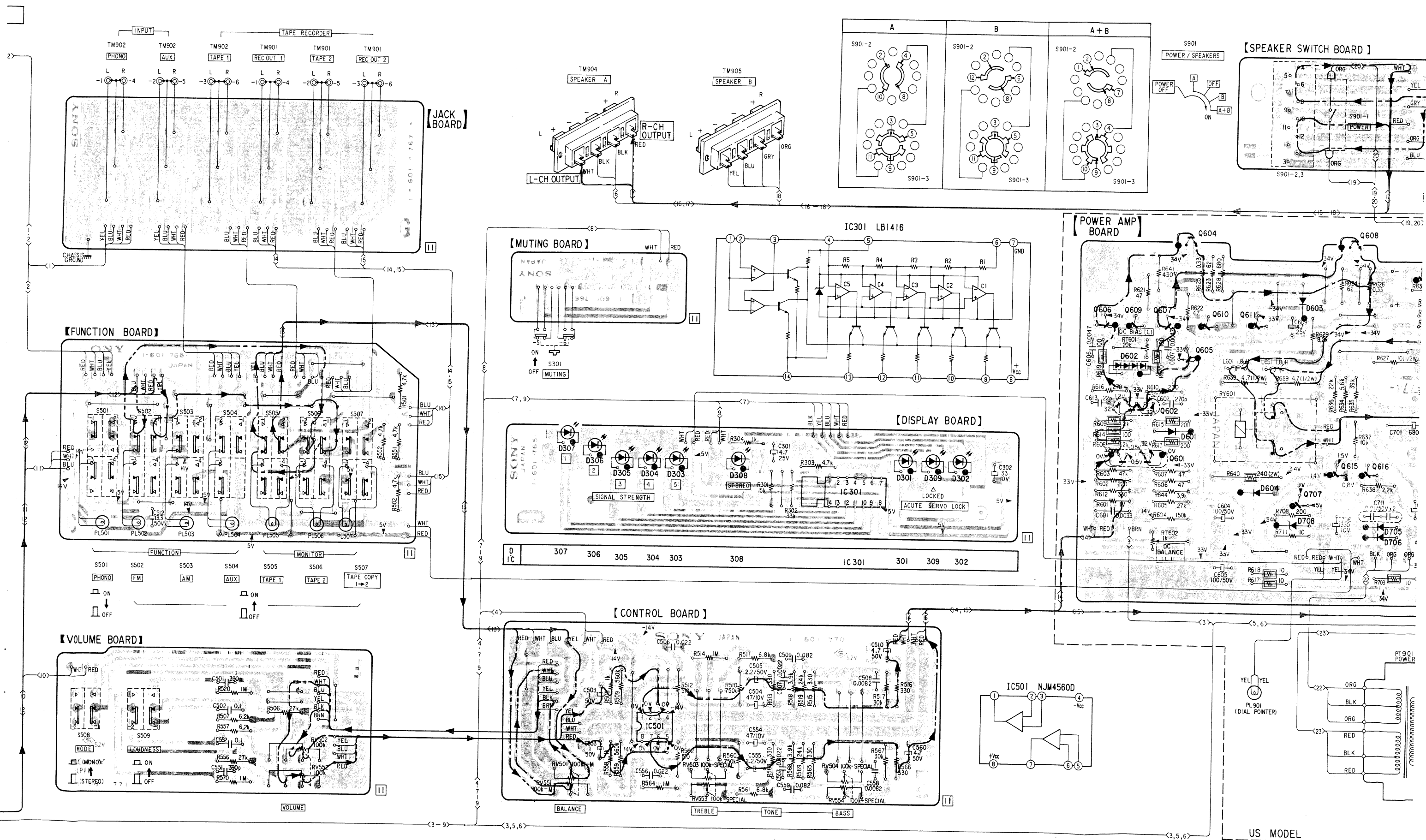
SECTION 4 DIAGRAMS



4-1. MOUNTING DIAGRAM — *Conductor Side* — (Canadian Model : Power Amp Board)







STR-V25 STR-V25

K

L

M

N

O

P

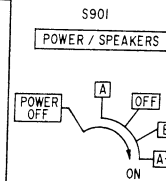
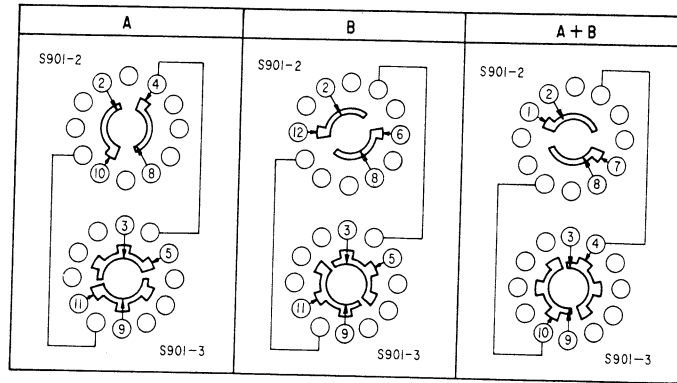
Q

R

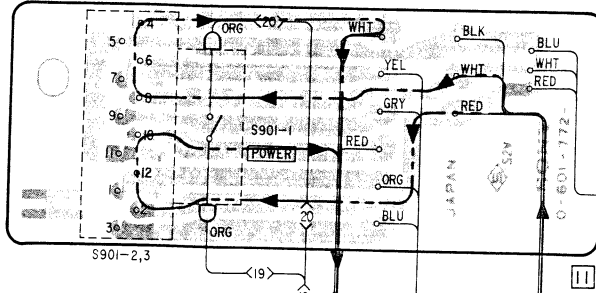
Note:

- : B+ pattern
- : part mounted on the conductor side.
- : indicates side identified with part number.

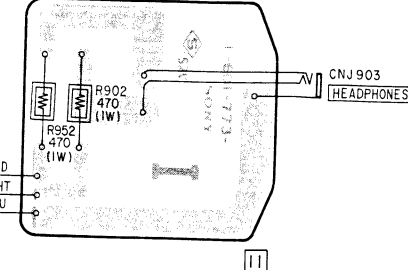
- : B+ pattern
- : B- pattern
- : signal path
- : L-CH signal path
- : R-CH signal path



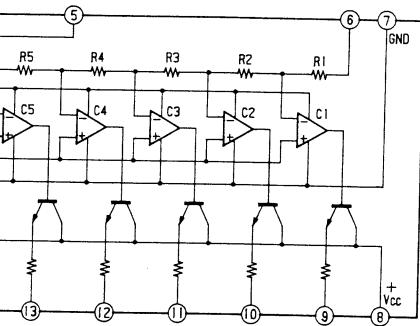
【SPEAKER SWITCH BOARD】



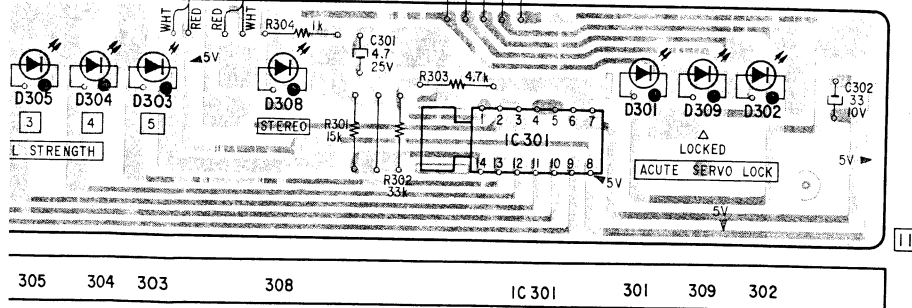
【HEADPHONE BOARD】



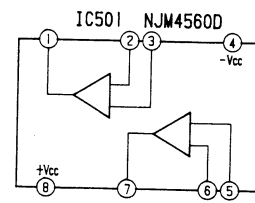
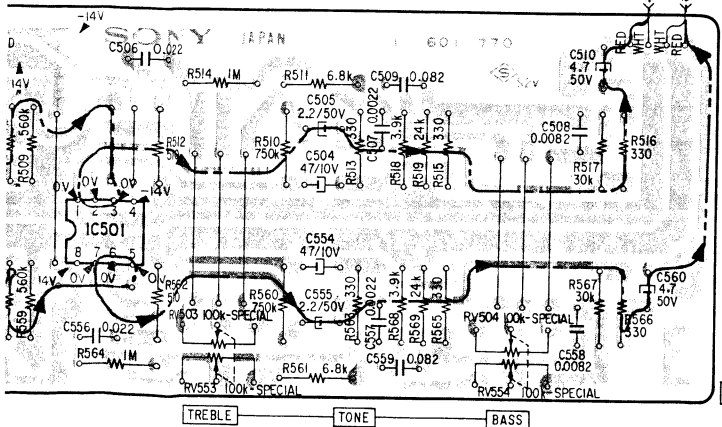
IC301 LB1416



【DISPLAY BOARD】



【CONTROL BOARD】

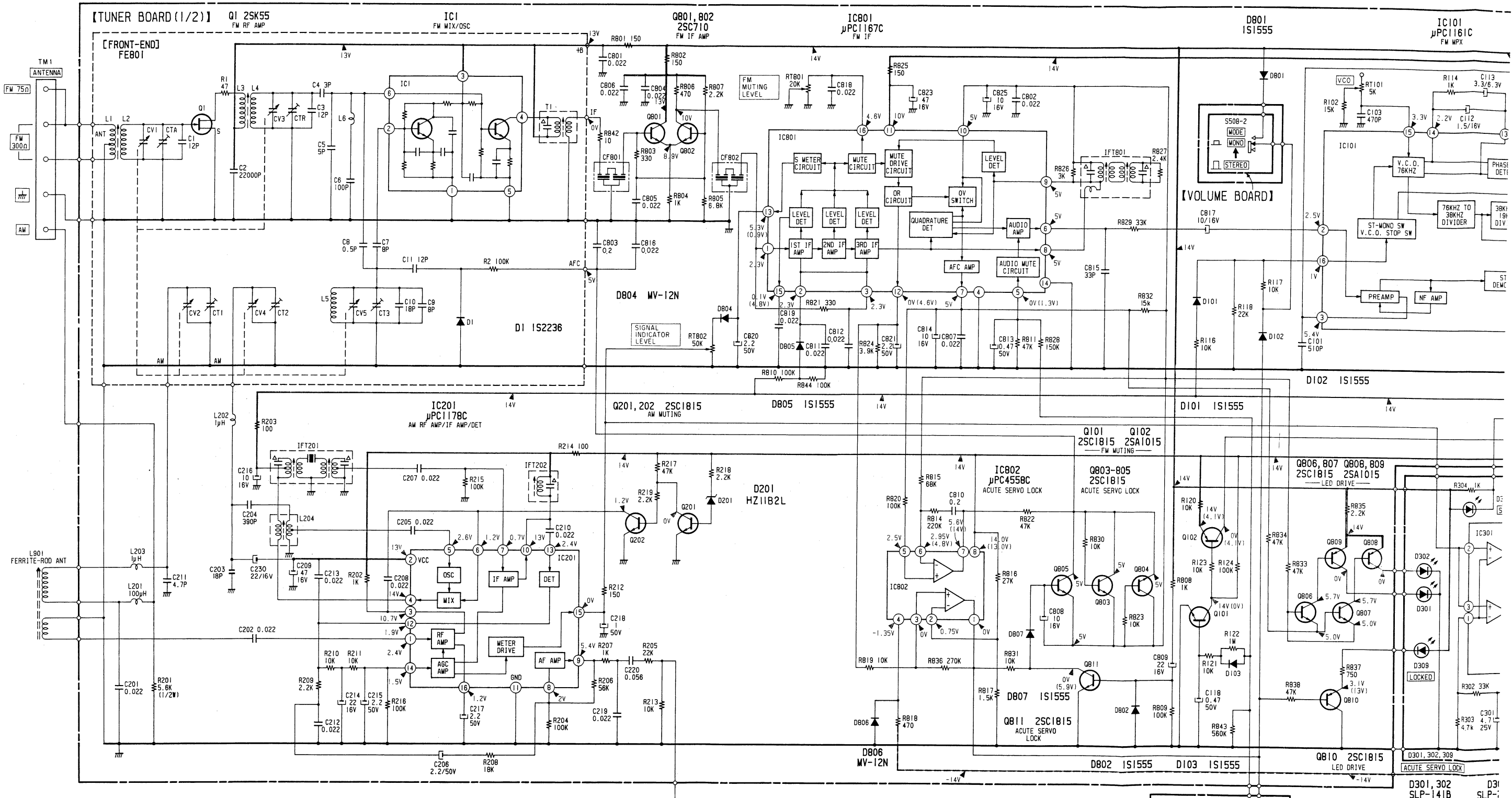


US MODEL

Q, IC	D
604, 608	
658, 654	
614	
613, 612	
657, 606, 656	603
659, 661	
606, 609, 607	653
610, 611	
605	655
652	602
602	651
651	601
601	615, 616
707	604
708	704, 703
705	605
706	702, 701
702, 701	
Q, IC	D

4-3. SCHEMATIC DIAGRAM (Tuner Section)

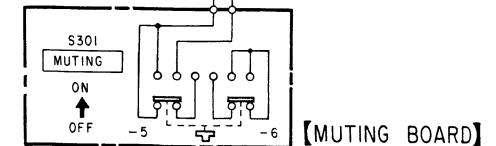
• See page 10 for the notes.

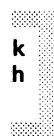


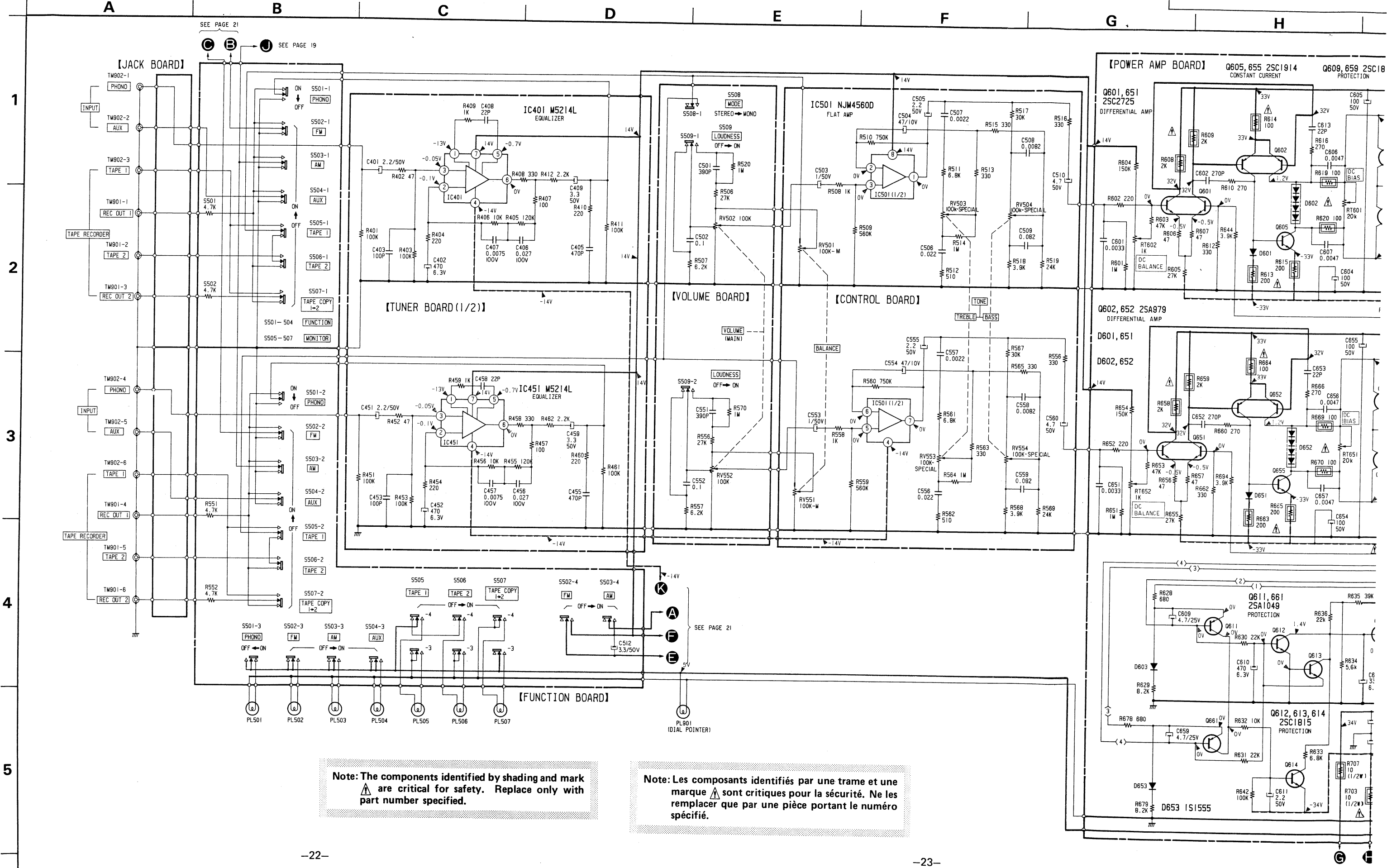
Note: Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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

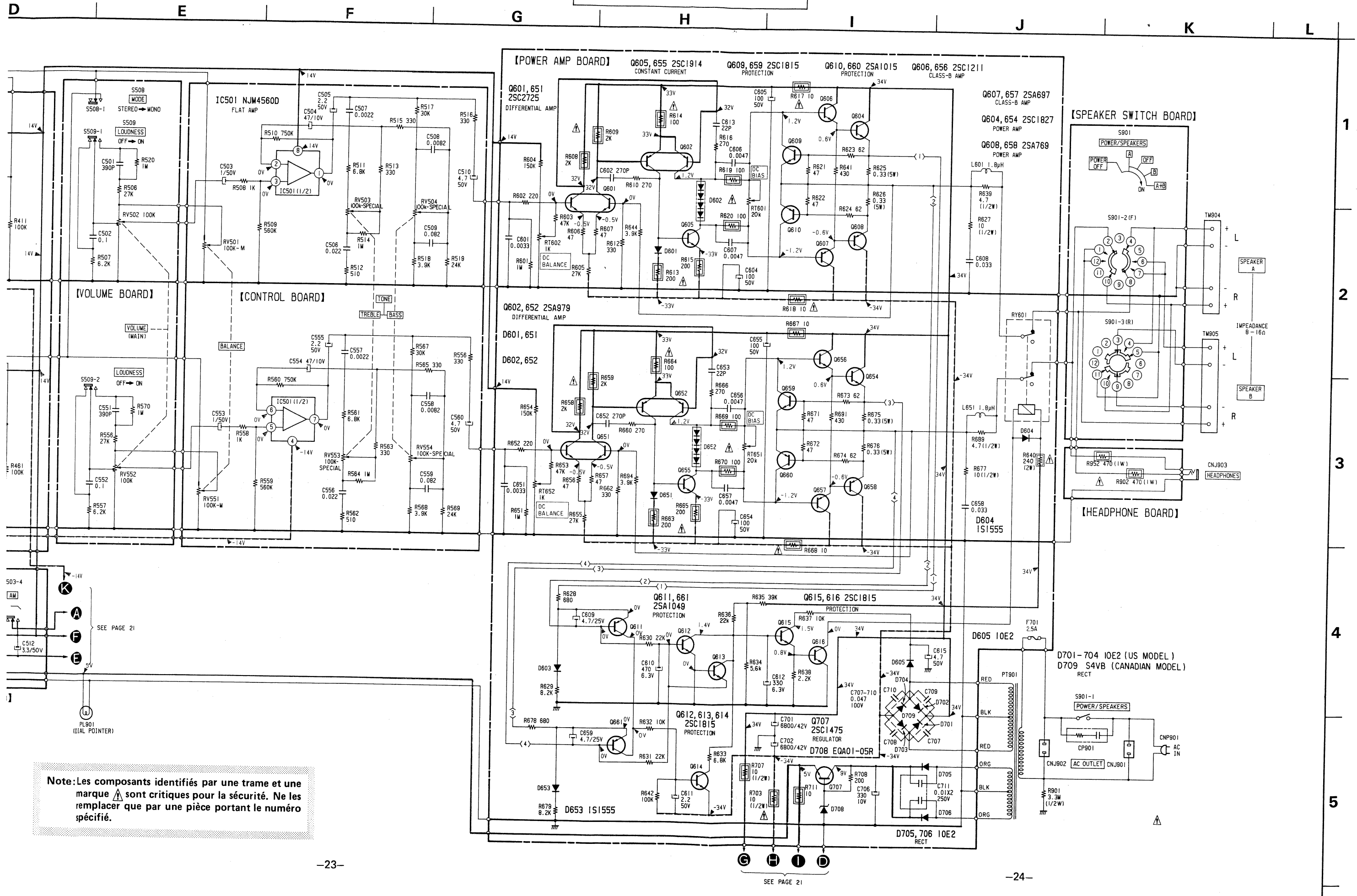
SEE PAGE 22







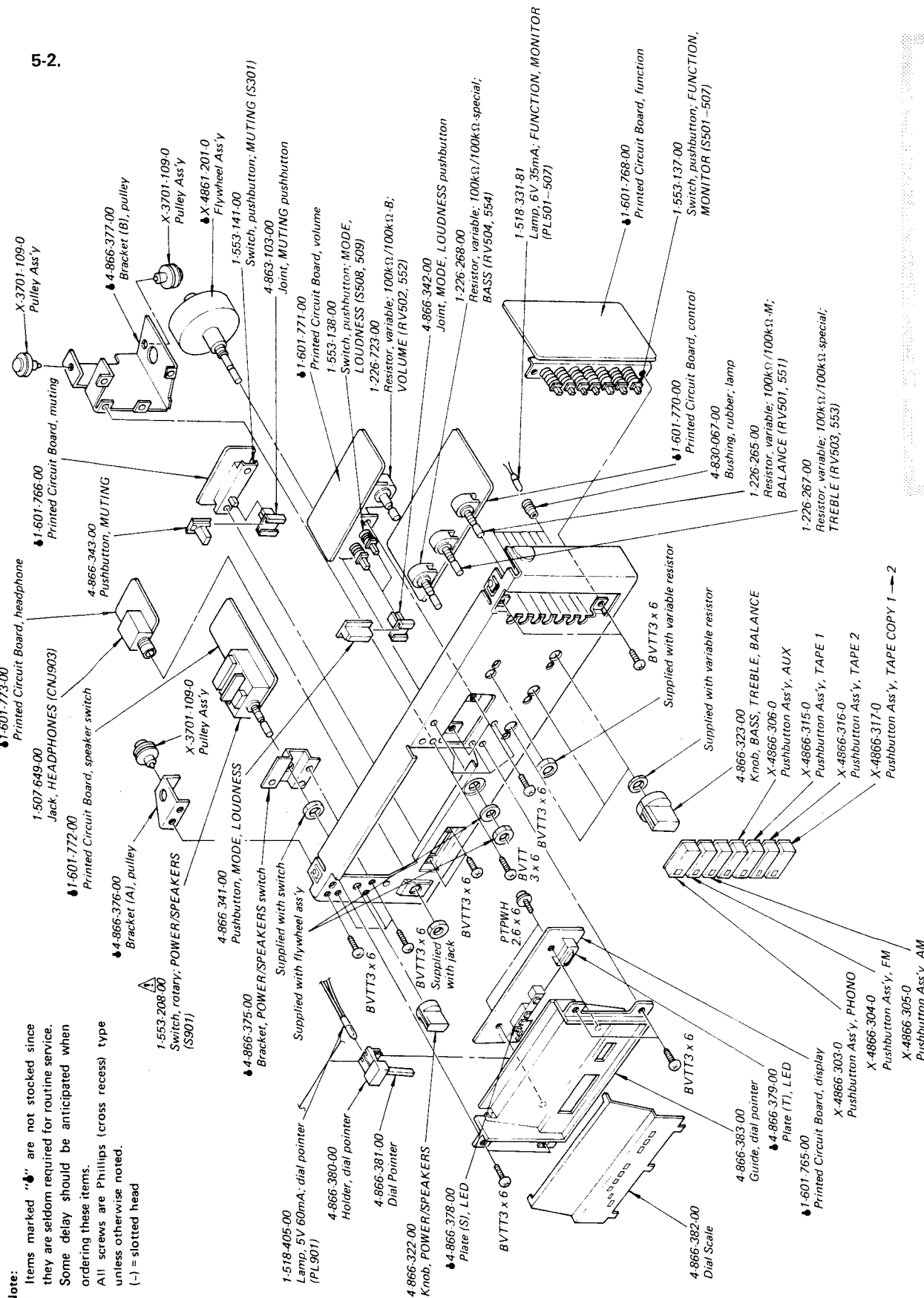
STR-V25 STR-V25



STR-V25



5-2.



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

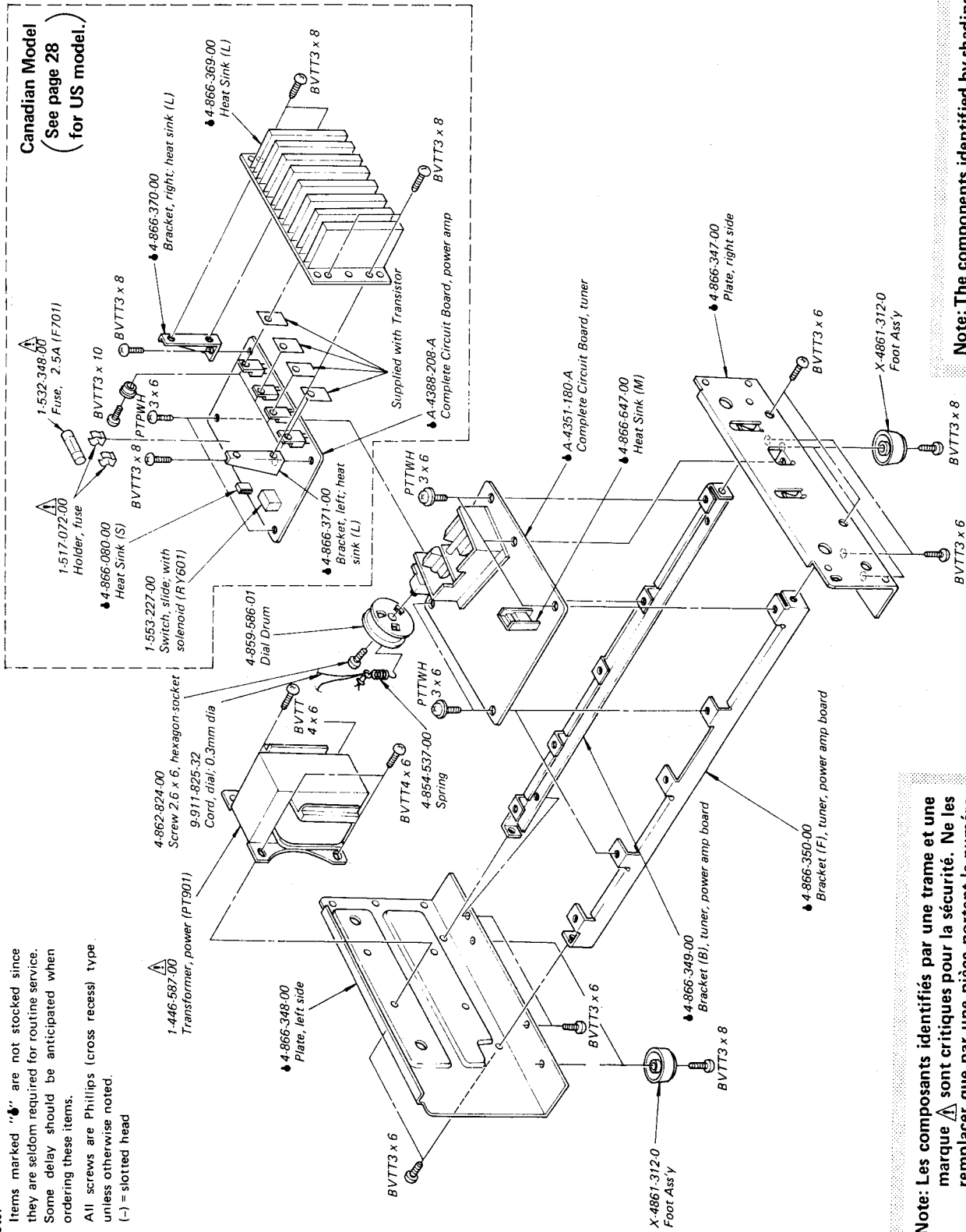
Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

W

Canadian Model
(See page 28)
(for US model)

Note:

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head

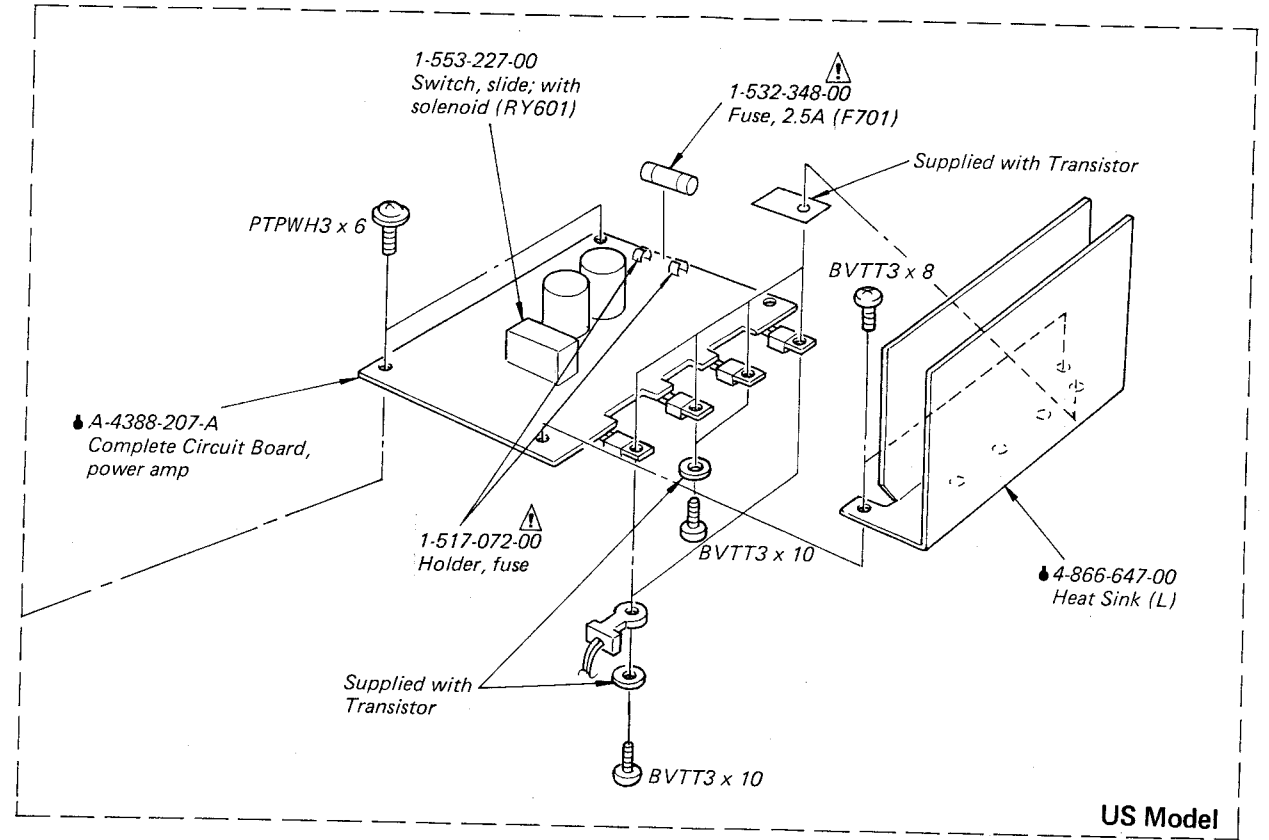


Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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.

Note:

- Items marked "X" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head



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 6
ELECTRICAL PARTS LIST

STR-V25 STR-V25

Ref. No. Part No. Description

SEMICONDUCTORS

Transistors

⇒ Q101	8-729-663-47	2SC1364
⇒ Q102	8-729-612-77	2SA1027R
⇒ Q103, 104	8-729-663-47	2SC1364
⇒ Q201, 202		
Q601, 651	8-729-672-52	2SC2725
Q602, 652	8-729-697-92	2SA979
⇒ Q604, 654	8-729-308-72	2SC1986D
Q605, 655	8-729-601-42	2SC1914A
Q606, 656	8-729-673-53	2SC1735
Q607, 657	8-729-685-03	2SA850

⇒ Q608, 658	8-729-377-12	2SA771
⇒ Q609, 659	8-729-663-47	2SC1364
⇒ Q610, 660	8-729-612-77	2SA1027R
Q611, 661	8-729-204-91	2SA1049
⇒ Q612-616	8-729-663-47	2SC1364

⇒ Q701	8-729-308-72	2SC1986D
⇒ Q702	8-729-634-03	2SK34
⇒ Q703	8-729-663-47	2SC1364
Q704	8-729-173-13	2SB731

⇒ Q705	8-729-634-03	2SK34
⇒ Q706	8-729-612-77	2SA1027R
Q707	8-729-180-93	2SD809
⇒ Q801, 802	8-729-671-14	2SC710-14
⇒ Q803-807	8-729-663-47	2SC1364
⇒ Q808-810	8-729-612-77	2SA1027R
⇒ Q811	8-729-663-47	2SC1364

ICs

IC101	8-759-111-61	μPC1161C
IC201	8-759-111-78	μPC1178C
IC301	8-759-814-16	LB1416
IC401, 451	8-759-652-14	M5214L
IC501	8-759-745-60	NJM4560D
IC801	8-759-111-67	μPC1167C
IC802	8-759-145-58	μPC4558C

Diodes

D101-103	8-719-815-55	1S1555
D201	8-819-910-15	HZ11B2L

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

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

Ref. No. Part No. Description

D301, 302	8-719-900-41	SLP141B
D303-307	8-719-922-41	SLP241B

D308	8-719-900-41	SLP141B
D309	8-719-922-41	SLP241B
D601, 651	8-719-815-55	1S1555
D602, 652	8-719-300-11	SV04S
D603, 653	8-719-815-55	1S1555
D604		

D605	 8-719-200-02	10E2
D701-704	 8-719-200-02	10E2 (US model)
D705, 706	 8-719-200-02	10E2
⇒ D707	8-719-930-12	EQB01-12Z
⇒ D708	8-719-931-05	EQB01-05
⇒ D709	 8-719-504-40	S4VB40 (Canadian model)
D801, 802	8-719-815-55	1S1555
D804	8-719-912-00	MV12N
D805	8-719-815-55	1S1555
D806	8-719-912-00	MV12N

CAPACITORS

Common capacitors are omitted. Refer to the lists on pages 32 and 33 for their part numbers. pF : μF

C111	1-131-453-00	0.22μF	16V	tantalum
C201, 202	1-161-494-00	0.022μF	25V	ceramic
C203	1-161-282-00	18pF	50V	ceramic
C211	1-161-255-00	4.7pF	50V	ceramic
C212	1-161-494-00	0.022μF	25V	ceramic

C405, 455	1-161-319-00	470pF	50V	ceramic
C406, 456	1-130-307-00	0.027μF	100V	polyethylene
C407, 457	1-130-294-00	0.0075μF	100V	polyethylene
C501, 551	1-102-113-00	390pF	50V	ceramic
C615	 1-123-182-00	4.7μF	50V	electrolytic

C701, 702	1-125-157-00	6800μF	42V	electrolytic
C707-710	 1-108-385-00	0.047μF	100V	mylar
C711	 1-102-394-00	(0.01μF 250V) x 2	ceramic	

C801, 804	1-161-494-00	0.022μF	25V	ceramic
C805, 806				
C811, 812				

C815	1-161-265-00	33pF	50V	ceramic
C816, 818	1-161-494-00	0.022μF	25V	ceramic
C819				

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.

Ref. No. Part No. Description

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on the last page for their part numbers.
kΩ : 1000Ω, MΩ : 1000kΩ
All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

R201	1-244-891-00	5.6k	½W	carbon
R608, 658	 1-247-138-00	2k	¼W	carbon (nonflammable)
R609, 659				
R613, 663	 1-247-114-00	200	¼W	carbon (nonflammable)
R614, 664	 1-247-107-00	100	¼W	carbon (nonflammable)

R615, 665	 1-247-114-00	200	¼W	carbon (nonflammable)
R617, 667	 1-247-083-00	10	¼W	carbon (nonflammable)
R618, 668				
R619, 669	 1-247-107-00	100	¼W	carbon (nonflammable)
R620, 670				

R625, 675	1-217-157-00	0.33	5W	metal plate
R626, 676				
R627, 677	1-244-825-00	10	½W	carbon
R639, 689	1-244-817-00	4.7	½W	carbon
R640	 1-206-649-00	240	2W	metal oxide (nonflammable)

R703, 707	 1-247-192-00	10	½W	carbon (nonflammable)
R710	 1-206-473-00	27	2W	metal oxide (nonflammable)
R711	 1-247-083-00	10	¼W	carbon (nonflammable)
R712	1-244-851-00	120	½W	carbon
R901	 1-202-725-00	3.3M	½W	composition

R902, 952	 1-213-139-00	470	1W	metal oxide (nonflammable)
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RT101	1-226-235-00	5k, adjustable; VCO
RT102	1-226-241-00	500k, adjustable; FM stereo separation
RT601, 651	1-226-237-00	20k, adjustable; DC bias
RT602, 652	1-226-233-00	1k, adjustable; DC balance
RT801	1-226-237-00	20k, adjustable; FM muting level

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

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

Ref. No. Part No. Description

RT802	1-226-238-00	50k, adjustable; signal indicator level
RV501, 551	1-226-265-00	100k/100k-M, variable; BALANCE
RV502, 552	1-226-723-00	100k/100k, variable; VOLUME
RV503, 553	1-226-267-00	100k/100k-special, variable; TREBLE
RV504, 554	1-226-268-00	100k/100k-special, variable; BASS

MISCELLANEOUS

CF801, 802	1-527-307-XX	Filter, ceramic
CNJ901	 1-561-161-00	Socket, AC OUTLET
CNJ902		
CNJ903	1-507-649-00	Jack, HEADPHONES
CP901	 1-231-326-11	Encapsulated Component (US model)
CP901	 1-231-341-00	Encapsulated Component (Canadian model)

F701	 1-532-348-00	Fuse, 2.5A
FE801	1-463-298-00	Front-end
IFT201	1-404-254-00	AM IFT
IFT202	1-404-189-00	AM IFT
IFT801	1-404-170-00	FM IFT

L201	1-407-169-XX	Microinductor, 100μH
L202, 203	1-407-178-XX	Microinductor, 1μH
L204	1-405-864-00	Coil, AM OSC
• L601, 651	1-420-838-00	Coil, 1.8μH
L901	1-401-783-00	Antenna, ferrite-rod

LPF101, 102	1-231-224-12	Filter, low-pass
PL501-507	1-518-331-81	Lamp, 6V 35mA; FUNCTION, MONITOR
PL901	1-518-405-00	Lamp, 5V 60mA; dial pointer
PT901	 1-446-587-00	Transformer, power
RY601	1-553-227-00	Switch, slide; with solenoid

S301	1-553-141-00	Switch, pushbutton; MUTING
S501-507	1-553-137-00	Switch, pushbutton; FUNCTION MONITOR
S508, 509	1-553-138-00	Switch, pushbutton; MODE, LOUDNESS

S901	 1-553-208-00	Switch, rotary; POWER/SPEAKERS
TM1	1-536-616-00	Plate, terminal; ANTENNA

TM901, 902	1-507-637-21	Jack, 6P phono; PHONO, AUX, TAPE 1, 2, REC OUT 1, 2
TM904, 905	1-536-571-00	Plate, terminal; SPEAKER A, B

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.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
	▲ 1-517-072-00	Holder, fuse
	▲ 1-534-986-XX	Cord, power
	● 1-508-799-00	Base Post, U-type
	● 1-535-115-00	Terminal, 2P; with base
	● 1-535-116-00	Terminal, 3P; with base
	● 1-535-118-00	Terminal 5P; with base
	● 1-535-119-00	Terminal, 6P; with base
	● 1-535-121-00	Terminal, 8P; with base
	● A-4351-180-A	Complete Circuit Board, tuner
	● A-4388-207-A	Complete Circuit Board, power amp
	● 1-601-765-00	Printed Circuit Board, display
	● 1-601-766-00	Printed Circuit Board, muting
	● 1-601-767-00	Printed Circuit Board, jack
	● 1-601-768-00	Printed Circuit Board, function
	● 1-601-770-00	Printed Circuit Board, control
	● 1-601-771-00	Printed Circuit Board, volume
	● 1-601-772-00	Printed Circuit Board, speaker switch
	● 1-601-773-00	Printed Circuit Board, headphone

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

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

ACCESSORIES AND PACKING MATERIALS

<u>Part No.</u>	<u>Description</u>
1-501-161-00	Antenna, feeder
3-701-630-00	Bag, plastic
3-783-076-21	Manual, instruction (US model)
3-783-076-21	Manual, instruction (Canadian model)
3-794-665-31	
3-794-233-21	Sheet, consumer products (US model)
4-809-251-00	Bag, plastic; set
4-866-398-00	Cushion, upper; front
4-866-399-00	Cushion, lower; left
4-868-701-00	Carton (US model)
4-868-702-00	Carton (Canadian model)
4-868-713-00	Cushion, upper; rear
4-868-714-00	Cushion, lower; right

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.

ELECTROLYTIC CAPACITORS

RATING → : Use the high voltage rated one.						
CAP. (μF)	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					→	1-121-726-00
1.0					→	1-121-391-00
2.2					→	1-121-450-00
3.3	→	→	→	1-121-392-00	→	1-121-393-00
4.7	→	→	→	1-121-395-00	→	1-121-396-00
10	→	→	1-121-651-00	1-121-398-00	→	1-121-738-00
22	→	→	1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33	→	→	1-121-403-00	1-121-404-00	1-121-652-00	1-121-405-00
47	→	1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	→	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-419-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000	—	1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	—
3300	1-121-661-00	1-123-075-00	1-123-071-00	—	—	—

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	—	—	—	—
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-250-00	1-123-026-00	—	1-123-028-00
3.3	1-121-995-00	—	1-123-004-00	1-123-006-00
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-121-997-00	1-121-757-00	—	—
47	1-123-251-00	1-121-919-00	—	—
100	1-123-084-00	—	—	—

CERAMIC CAPACITORS

RATING							
CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS

RATING → : Use the high voltage rated one.					
CAP. (μF)	25 VOLT.	50 VOLT.	CAP. (μF)	25 VOLT.	50 VOLT.
	PART No.	PART No.		PART No.	PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-020-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

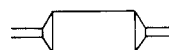
MYLAR CAPACITORS

RATING											
CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	—	—
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	—	—
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	—	—
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	—	—
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				



TANTALUM CAPACITORS

RATING → : Use the high voltage rated one.							
CAP. (μF)	3.15 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	25 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.01					→	→	1-131-396-00
0.015					→	→	1-131-397-00
0.022					→	→	1-131-398-00
0.033					→	→	1-131-399-00
0.047					→	→	1-131-400-00
0.068					→	→	1-131-401-00
0.1					→	→	1-131-402-00
0.15					→	→	1-131-403-00
0.22					→	→	1-131-404-00
0.33					→	1-131-409-00	1-131-405-00
0.47	—	—	—	—	1-131-412-00	→	1-131-406-00
0.68	—	—	—	1-131-415-00	→	1-131-410-00	1-131-407-00
1.0	—	—	1-131-418-00	—	1-131-413-00	→	1-131-408-00
1.5	—	1-131-421-00	—	1-131-416-00	→	1-131-411-00	1-131-348-00
2.2	1-131-424-00	—	1-131-419-00	—	1-131-414-00	1-131-355-00	1-131-349-00
3.3	—	1-131-422-00	—	1-131-417-00	1-131-362-00	1-131-356-00	1-131-350-00
4.7	1-131-425-00	—	1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00
6.8	—	1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00
10	1-131-426-00	1-131-383-00	1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00	1-131-360-00	—
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00		
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00			
47	1-131-393-00	1-131-387-00	1-131-381-00	—			
68	1-131-394-00	1-131-388-00	—	—			
100	1-131-395-00	—	—	—			



TANTALUM CAPACITORS

RATING						
CAP. (μF)	3 VOLT.	6.3 VOLT.	10 VOLT.	16 VOLT.	20 VOLT.	35 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.033						1-131-273-00
0.047						1-131-274-00
0.068						1-131-275-00
0.1						1-131-276-00
0.15						1-131-277-00
0.22			—	—	1-131-262-00	1-131-278-00
0.33			—	—	1-131-263-00	1-131-279-00
0.47			1-131-169-00	—	1-131-264-00	1-131-280-00
0.68			—	1-131-258-00	1-131-265-00	1-131-281-00
1.0			1-131-254-00	—	1-131-266-00	1-131-282-00
1.5		1-131-250-00	—	—	1-131-267-00	1-131-283-00
2.2		—	—	1-131-259-00	1-131-268-00	1-131-284-00
3.3		—	1-131-255-00	—	1-131-269-00	—
4.7		1-131-251-00	1-131-171-00	—	1-131-270-00	—
6.8		—	—	1-131-260-00	1-131-271-00	—
10	—	—	1-131-256-00	—	1-131-272-00	—
15	—	1-131-252-00	—	1-131-261-00		
22	—	—	1-131-257-00	—		
33	1-131-176-00	1-131-253-00	1-131-173-00	—		
47	1-131-288-00	1-131-174-00	—	—		
100	1-131-177-00					

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE

Screw:

P 3 x 10

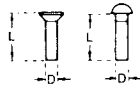
L: Length in mm

D: Diameter in mm

Type of head

Indicated slotted-head only.

Unless otherwise indicated, it means cross-recessed head (Phillips type).



Nut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft

Reference designation

Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	