

STR-7065A

USA Model

UK Model

AEP Model

GEP Model



(USA Model)



(UK, AEP and GEP Model)

FM STEREO/FM-AM RECEIVER

SPECIFICATIONS

FM TUNER SECTION

Frequency range:	87.5 — 108 MHz
Antenna:	300 Ω terminals, balanced 75 Ω terminals, unbalanced
Intermediate frequency:	10.7 MHz
Sensitivity:	2.0 μ V (IHF) 1.6 μ V (S/N = 30 dB)
Image rejection:	70 dB
I-f rejection:	100 dB
Spurious rejection:	90 dB
A-m suppression:	56 dB
Capture ratio:	1.0 dB
Selectivity:	70 dB (IHF)
S/N ratio:	70 dB
Frequency response:	20 — 15,000 Hz $\pm$ 1 dB
Harmonic distortion:	Mono: 0.2 % Stereo: 0.4 %) at 400 Hz, 100 % modulation (75 kHz deviation)
Stereo separation:	Greater than 43 dB at 400 Hz
SCA suppression:	68 dB
Muting level:	5 μ V

A-M TUNER SECTION

Frequency range:	530 — 1,605 kHz
Antenna:	Built-in bar antenna and external antenna terminal
Intermediate frequency:	455 kHz (USA and GEP Model) 468 kHz (AEP and UK Model)
Sensitivity:	48 dB/m, built-in ferrite-rod antenna at 1,000 kHz 100 μ V, external antenna

Image rejection:	50 dB at 1,000 kHz
I-f rejection:	40 dB at 1,000 kHz
S/N ratio:	50 dB at 50 mV/m
Harmonic distortion:	0.8 % at 50 mV/m

POWER AMPLIFIER SECTION

Continuous RMS power output:	at 20 — 20,000 Hz (Less than 0.2 % THD) 65 + 65 W (8 Ω) (USA and GEP Model) 45 + 45 W (8 Ω) (AEP and UK Model) at 1 kHz 70 + 70 W (8 Ω) (USA and GEP Model) 50 + 50 W (8 Ω) (AEP and UK Model) (both channels driven simultaneously)
Dynamic power output:	240 W (8 Ω) (USA and GEP Model) (IHF constant power supply method) 170 W (8 Ω) (AEP and UK Model) 380 W (4 Ω) (USA and GEP Model) 270 W (4 Ω) (AEP and UK Model)
Power bandwidth, IHF:	15 — 35,000 Hz
Damping factor:	50 (8 Ω)
Harmonic distortion:	Less than 0.2 % at continuous RMS power output Less than 0.1 % at 1 W output
IM distortion:	Less than 0.2 % at continuous RMS power output (60 Hz : 7 kHz = 4 : 1) Less than 0.1 % at 1 W output

— continues to page 2 —

SONY®

SERVICE MANUAL

Residual noise: Less than 0.05 μ W
S/N ratio: Greater than 110 dB (closed circuit)
Frequency response: 10 – 100,000 Hz $\pm \frac{0}{1}$ dB at 1 W output
Input sensitivity and impedance: 1 V at continuous RMS power output 50 k Ω

PREAMPLIFIER SECTION

Input sensitivity and impedance:

	Sensitivity *	Impedance
PHONO	3 mV	47 k Ω
MIC	1.6 mV	47 k Ω
AUX	250 mV	50 k Ω
TAPE 1, 2		
REC/PB(input)		

Note: * Measured with continuous RMS power output into 8 Ω loads (both channels driven simultaneously) at 1 kHz.

Maximum input capability: 100 mV PHONO

Output level and impedance:

	Level	Impedance
REC OUT	250 mV	10 k Ω
REC/PB (output)	30 mV	82 k Ω
PREAMP OUTPUT	1 V	4.7 k Ω

S/N ratio:

	S/N	Weighting network	Input level
PHONO	72 dB	A	3 mV
MIC	65 dB	B	1.6 mV
AUX	90 dB	A	250 mV
TAPE 1, 2			
REC/PB(input)			

Harmonic distortion: Less than 0.2 % at continuous RMS power output
IM distortion: Less than 0.2 % at continuous (60 Hz : 7 kHz = 4 : 1) RMS power output

Frequency response: PHONO RIAA equalization curve ± 1 dB
MIC 100 – 10,000 Hz $\pm \frac{0}{3}$ dB
AUX }
TAPE 1, 2 } 10 – 70,000 Hz $\pm \frac{0}{3}$ dB
REC/PB (input) }
Tone controls: BASS ± 10 dB at 100 Hz
TREBLE ± 10 dB at 10 kHz
High filter: 12 dB/oct. above 9 kHz
Low filter: 12 dB/oct. below 50 Hz
Loudness control: + 10 dB at 50 Hz, + 4 dB at 10 kHz (Attenuation : 30 dB)

GENERAL:

System: Superheterodyne fm/a-m tuner
Complementary symmetry circuit (SEPP OTL), Direct output coupling
Power requirements: 120 Vac, 60 Hz (USA Model)
100, 120, 220, 240 Vac, 50/60 Hz (GEP Model)
110, 127, 220, 240 Vac, 50/60 Hz (UK and AEP Model)
Power consumption: 180 W (USA Model)
300 W (GEP Model)
370 W (UK and AEP Model)
AC outlets: 2 switched, 200 W
1 unswitched, 200 W¹ (USA Model only)
Dimensions: 471 (w) x 157 (h) x 375 (d) mm
18 $\frac{1}{4}$ (w) x 6 $\frac{1}{8}$ (h) x 14 $\frac{3}{4}$ (d) inches (USA Model)
440 (w) x 148 (h) x 375 (d) mm
17 $\frac{3}{8}$ (w) x 5 $\frac{7}{8}$ (h) x 14 $\frac{3}{4}$ (d) inches (UK, AEP and GEP Model)
Net weight: 15.2 kg, 33 lb 10 oz (USA Model)
13.2 kg, 29 lb 2 oz (UK, AEP and GEP Model)
Shipping weight: 18.9 kg, 44 lb 10 oz (USA Model)
16.9 kg, 37 lb 4 oz (UK, AEP and GEP Model)

SECTION 2

DISASSEMBLY AND REPLACEMENT

2-1. BOTTOM PLATE REMOVAL

Remove the eight self-tapping screws shown in Fig. 2-1.

2-2. FRONT PANEL REMOVAL

1. Remove all the knobs on the front panel.
2. Remove the three self-tapping screws shown in Fig. 2-1.
3. Remove the three screws shown in Fig. 2-2.

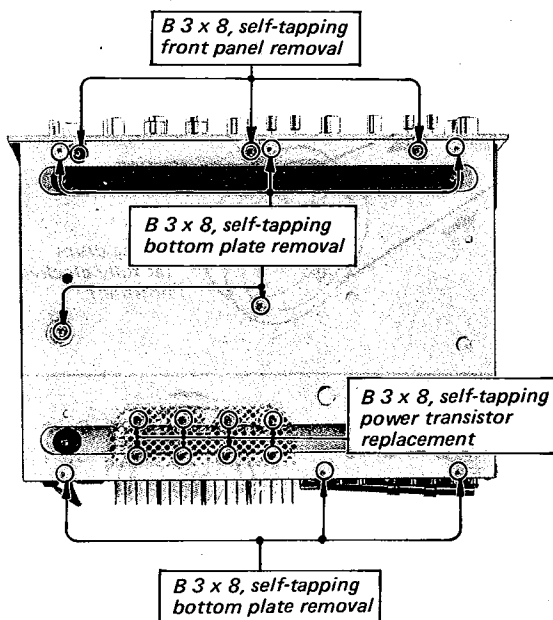


Fig. 2-1. Bottom plate and front panel removal

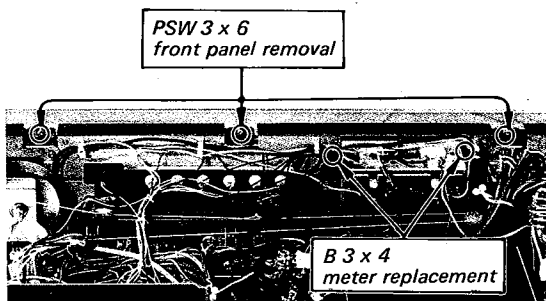


Fig. 2-2. Front panel removal and meter replacement

2-3. POWER TRANSISTOR REPLACEMENT

1. Remove the twelve self-tapping screws shown in Fig. 2-1 and Fig. 2-3.
2. Remove the two screws securing the power transistor to the heat sink.

Note: When replacing the power transistor, apply a coating of a heat-transferring grease to both sides of the mica insulator. Any excess grease squeezed out when the mounting bolts are tightened should be wiped off with a clean cloth. This prevents it from accumulating conductive dust particles that might eventually cause a short.

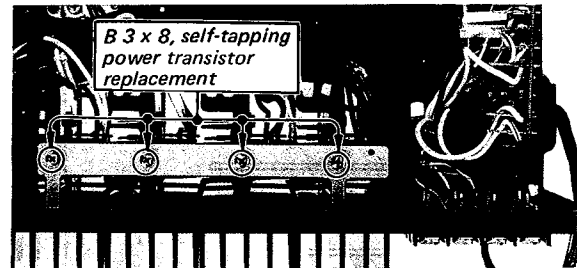


Fig. 2-3. Power transistor replacement

2-4. DIAL GLASS REMOVAL

Remove the five screws shown in Fig. 2-4.

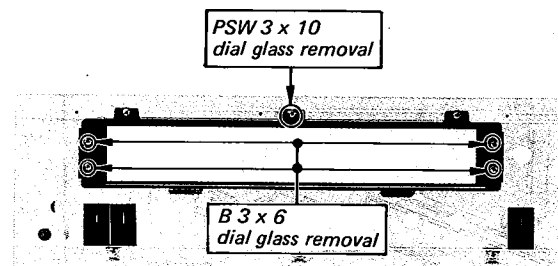


Fig. 2-4. Dial glass removal

2-5. METER REPLACEMENT

1. Remove the meter lamp shade by taking out the two screws shown in Fig. 2-2.
2. Remove the meter.

2.6. DIAL CORD STRINGING

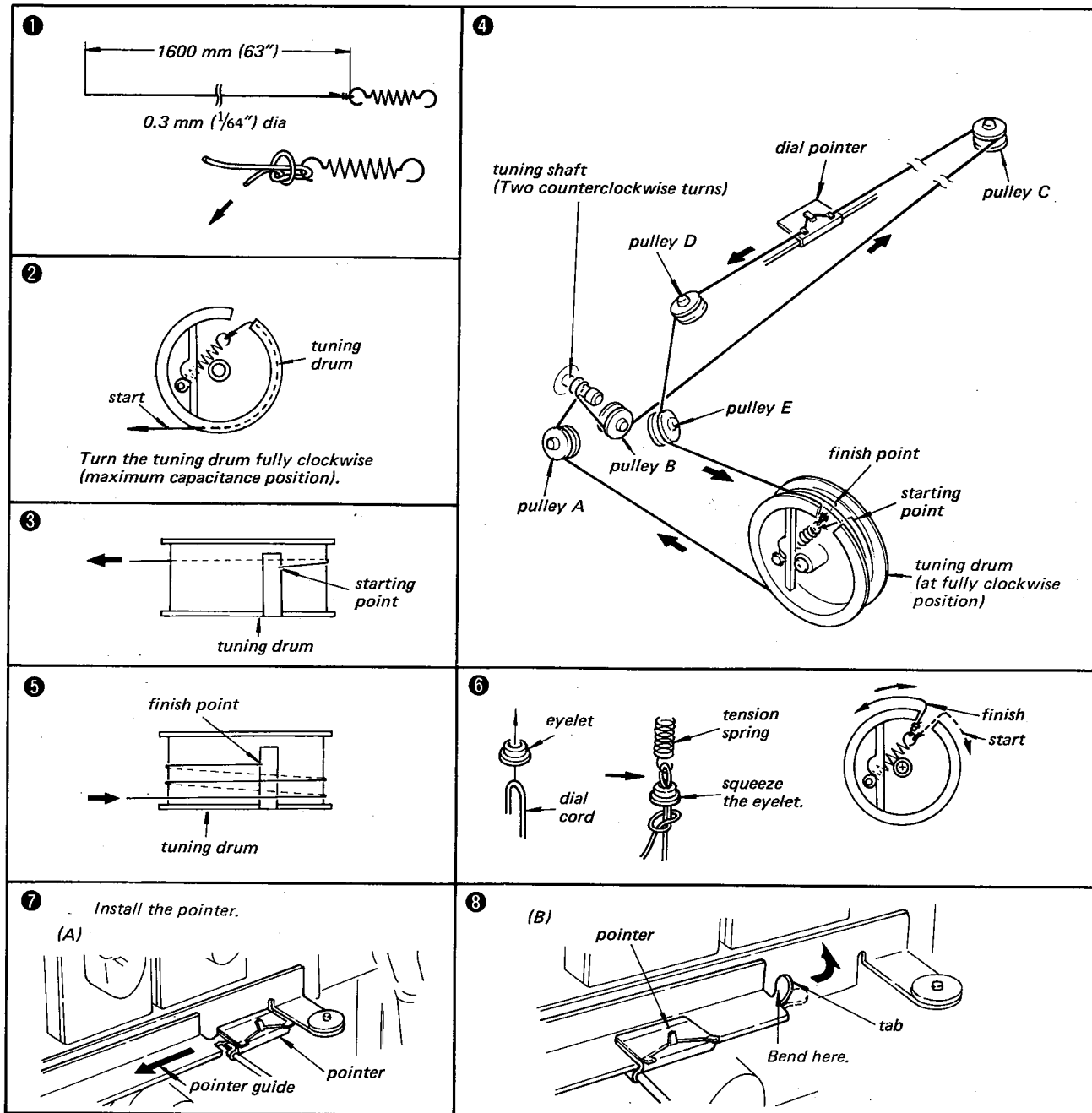


Fig. 2-5 Dial cord stringing

2.7. DIAL CALIBRATION

Tune the receiver to the local station. Move the pointer to the position where the dial indication coincides with the local station's carrier frequency. Apply a drop of contact cement to it.

2-8. VOLUME CONTROL REPLACEMENT

1. Remove the power amp/power supply board bracket (c) by taking out the screw as shown in Fig. 2-6.
2. Remove the front panel as described in Procedure 2-2.
3. Remove the nut securing the VOLUME control to the front subchassis shown in Fig. 2-7.
4. Remove the loudness control board along with the VOLUME control.

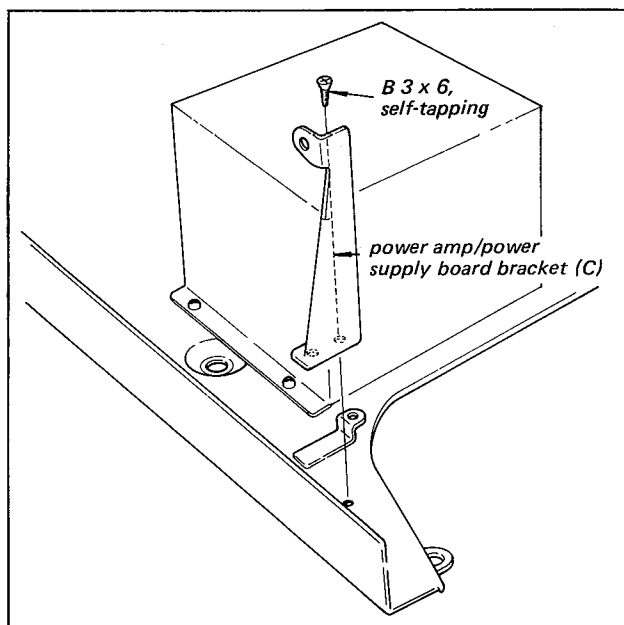


Fig. 2-6. VOLUME control replacement

2-9. CONTROL, JACK AND SWITCH REPLACEMENT

Prepare for replacing any of the controls, jacks or switches by removing the front panel described in Procedure 2-2.

Note: Before removing the front subchassis, fasten the dial cord to the drum, pulleys with cellophane tape. This helps you to re-string the dial cord.

POWER, MIC MIXING Switches and HEADPHONE, MIC Jacks

1. Remove two screws or the nut securing the defective switch or jack to front subchassis as shown in Fig. 2-7.
2. Unsolder the leads of defective switch or jack.
3. Install a new one.

SPEAKER, FILTER, MODE and FUNCTION Switches

1. Remove the retaining ring securing the defective switch, located at the back side of control board bracket, as shown in Fig. 2-8.
2. Pull out the shaft of the defective switch with a screwdriver as shown in Fig. 2-9.

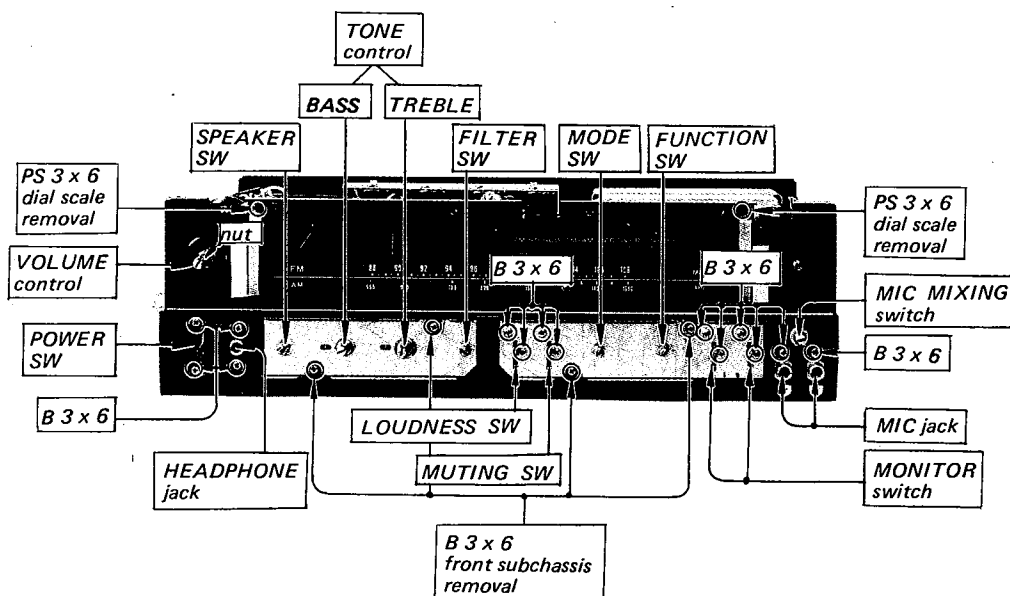


Fig. 2-7. Control, jack and switch replacement (1)

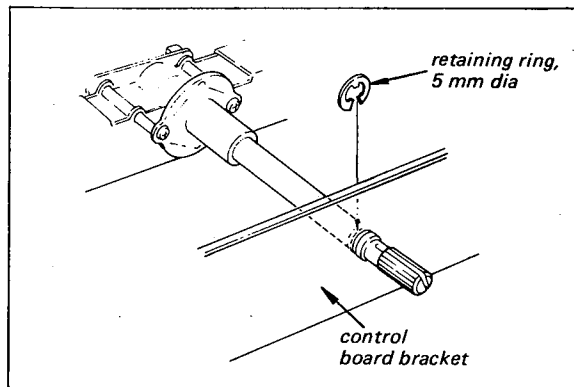


Fig. 2-8. Control board removal

3. Remove the bottom plate as described in Procedure 2-1.
4. With a soldering iron having a solder-sucking tip, clean the solder from each lug of the defective switch and the printed circuit board.
5. Remove the defective switch and install a new one.

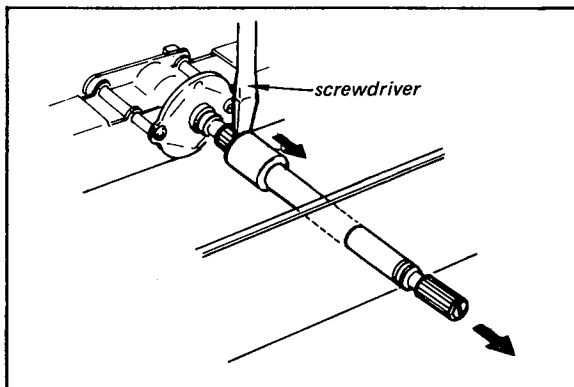


Fig. 2-9. Switch shaft removal

LOUDNESS, MUTING, MONITOR Switches and TONE controls

1. Remove the four screws (B 3 x 6) securing the control board bracket to the front subchassis as shown in Fig. 2-7.
2. Remove the three screws (PSW 3 x 6) securing the control board to the chassis as shown in Fig. 2-10.
3. Remove the nut securing the defective control or two screws (B 3 x 6) securing the defective switch to the control board bracket as shown in Fig. 2-7.
4. Remove the bottom plate as described in Procedure 2-1.
5. Move the control board toward power transformer as far as it goes. This helps in unsoldering the defective part on the board.
6. With a soldering iron having a solder-sucking tip, clean the solder from each lug of the defective part and the printed circuit board.
7. Remove the defective part and install a new one.

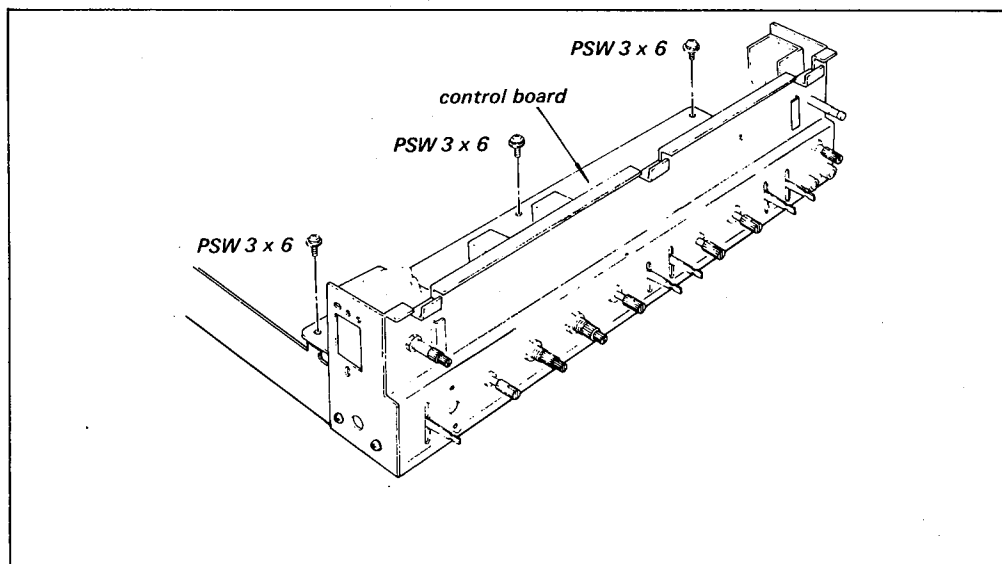
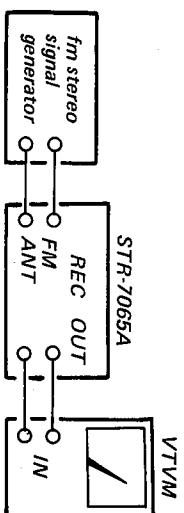


Fig. 2-10. Control, jack and switch replacement (2)

3-5. FM STEREO SEPARATION ADJUSTMENT

Test Setup:



FM Stereo Signal Generator Setting:

Carrier frequency: 98 MHz
Output level: 60 dB (1,000 μ V)

Mode: Stereo

Audio (400 Hz) Mod: 67.5 kHz (90 %)
Pilot (19 kHz) Mod: 7.5 kHz (10 %)

Procedure:

1. Set the signal generator input selector to the left.
2. Tune the receiver to 98 MHz.
3. Adjust **RV302** for maximum output on the VTVM at the left channel, and record the output level.
4. Record the residual signal level when the stereo signal generator input selector is to the right.

Note: The output level to residual-level ratio represents the separation.

5. Measure the separation at the right channel.
6. Readjust **RV302** for minimum difference between left and right channel separation.

3-6. FM FREQUENCY COVERAGE ALIGNMENT

ALIGNMENT

CAUTION

Never attempt alignment of the front-end section except for the frequency-coverage and dial-calibration adjustments. The front-end section of the receiver has been carefully adjusted at the factory. If an rf-stage adjustment is required, ask your nearest SONY Service Station to send your unit to the Factory Service Center for a complete front-end alignment.

Preparation:

1. Short the AFC circuit to ground as shown in Fig. 3-1.
2. Before starting this alignment, the fm discriminator alignment should be performed, and that the dial is mechanically calibrated as described in procedure 2-7 on Page 6.

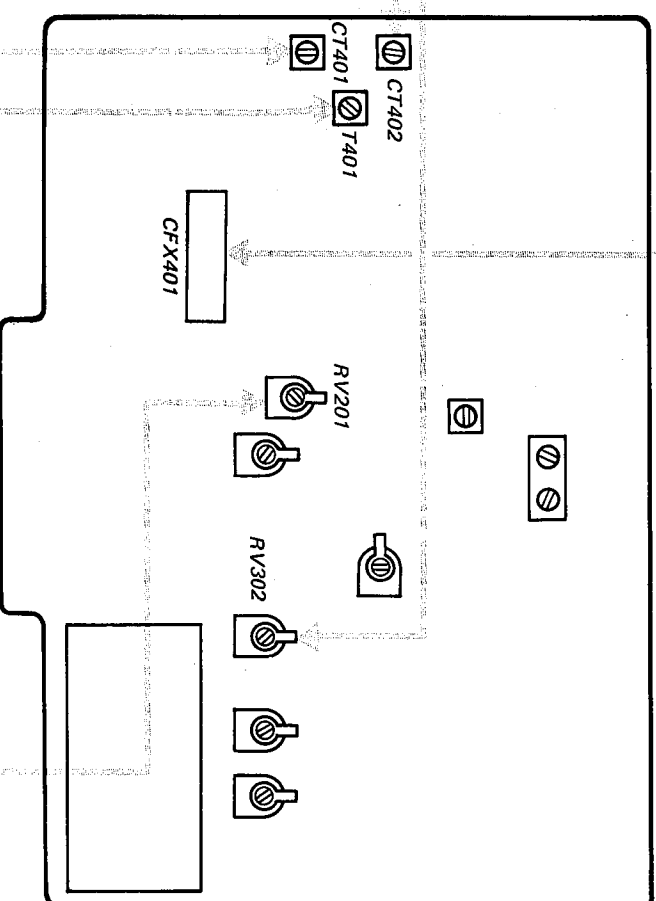
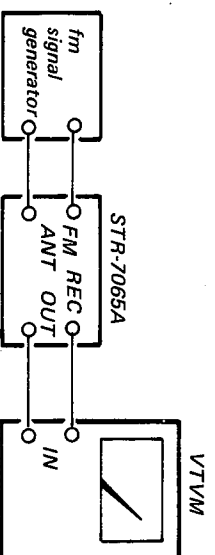


Fig. 3-4. Adjustment parts location

Test Setup:



Adjust for maximum reading.

FM FREQUENCY COVERAGE ALIGNMENT

87.5 MHz (modulated)
108 MHz (modulated)

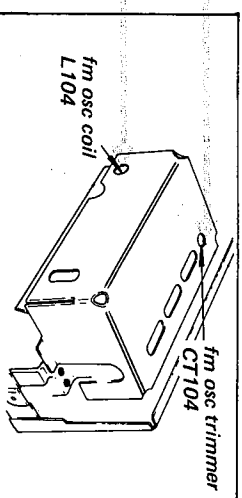


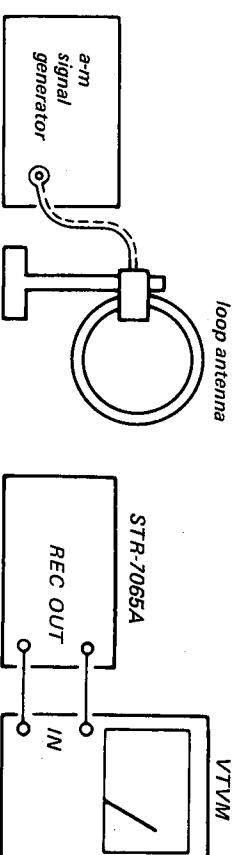
Fig. 3-5. Adjustment parts location

3-7. A-M I-F STRIP ALIGNMENT

Note: The i-f transformers (**CFX401**) in the a-m i-f amplifier circuit are adjusted at the factory, so very little adjustment is necessary in the field even if replacing any of these i-f transformers.

3-8. AM FREQUENCY COVERAGE AND AM TRACKING ALIGNMENT

Test Setup:



Procedure:

Adjust for maximum reading.

AM FREQUENCY COVERAGE
550 kHz (modulated)
1,600 kHz (modulated)

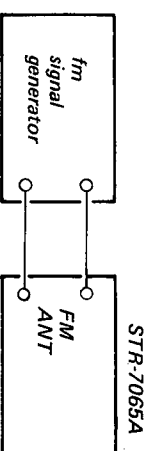
AM TRACKING
600 kHz (modulated)
1,400 kHz (modulated)

L901

A-m Ferrite-rod antenna

3-9. TUNER INPUT METER CALIBRATION

Test Setup:

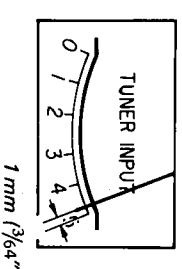


FM Signal Generator Setting:

Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100 %)
Output level: 60 dB (1,000 μ V)

Procedure:

1. Precisely tune the receiver to 98 MHz.
2. Adjust **RV201** for specified position on the SIGNAL meter.



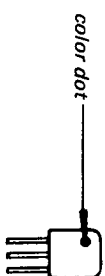
SECTION 3

ALIGNMENTS AND ADJUSTMENTS

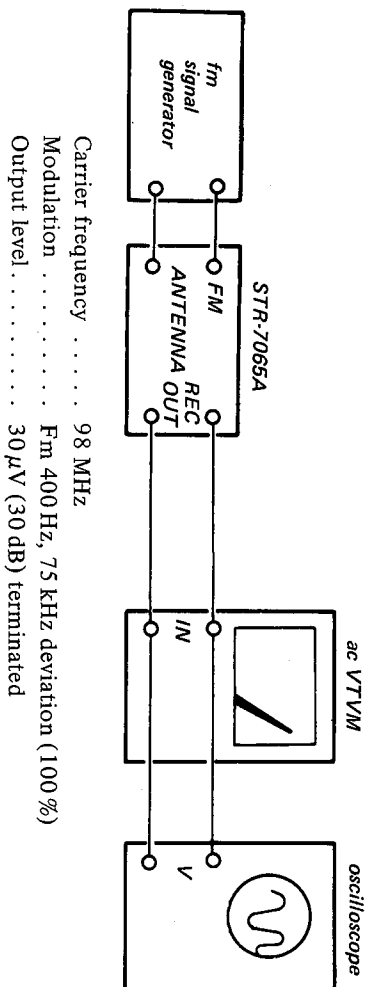
3-1. FM I-F STRIP ALIGNMENT

The center frequency (color code) of CF1 and CF2 should coincide with each other.

Note: It makes no difference, if the center frequency of the new filters is not the same as that of the defective ones.



Test setup:



Preparation:

Short the AFC circuit to ground as shown in Fig. 3-1.

Procedure:

1. Precisely tune the receiver to the SG frequency.
2. Adjust IFT101 (See Fig. 3-2.) for maximum deflection on the TUNER INPUT meter.
3. Carefully adjust IFT101 so that maximum reading on the TUNER INPUT meter always coincides with null-point of the TUNING meter.
4. Adjust the core (primary side) of IFT201 for maximum output on the VTVM, and adjust it so that the VTVM indication falls as the receiver is detuned in either direction (maximum output corresponds to null-point on the TUNING meter).

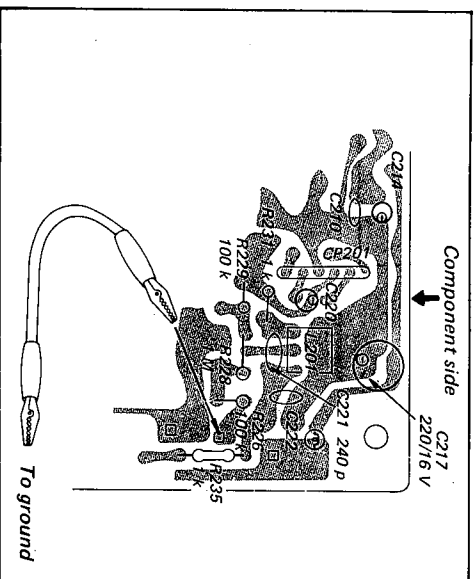


Fig. 3-1. Interruption of AFC circuit.

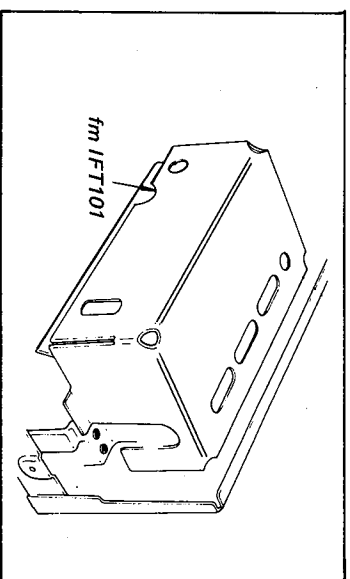


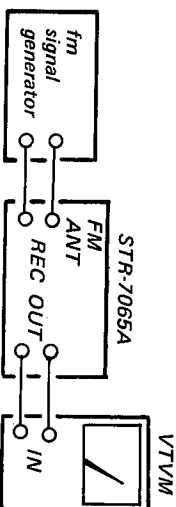
Fig. 3-2. Adjustment parts location

3-2. FM DISCRIMINATOR ALIGNMENT

1. Detune the receiver.
2. Turn the core (secondary side) of IFT201 for null-point reading on the TUNING meter.

3-3. MUTING ADJUSTMENT

Test Setup:



FM Signal Generator Setting:

Carrier frequency: 98 MHz
Modulation: Fm 400 Hz, 75 kHz deviation (100%)
Output level: 60 dB (1,000 μV)

Preparation:

Short the AFC circuit to ground as shown in Fig. 3-1 on Page 9.

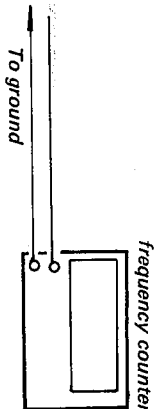
Procedure:

1. Tune the receiver to 98 MHz.
2. Adjust IFT202 for proper muting operation. Muting should begin at point equidistant from zero center.

3-4. 19 kHz ADJUSTMENT

A) With frequency counter

Test setup:



1. Tune the receiver to 98 MHz.
2. Adjust RV301 for 19 kHz ± 100 Hz on the counter.
B) Without frequency counter
1. Tune the set to FM stereo signals.
2. Turn RV301 clockwise and counter-clockwise and secure RV301 to the center in lighting up range of stereo lamp as shown below.

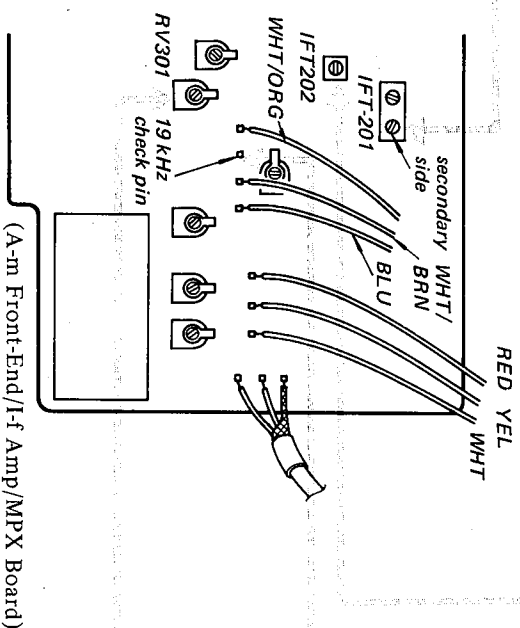
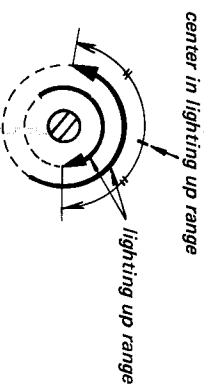
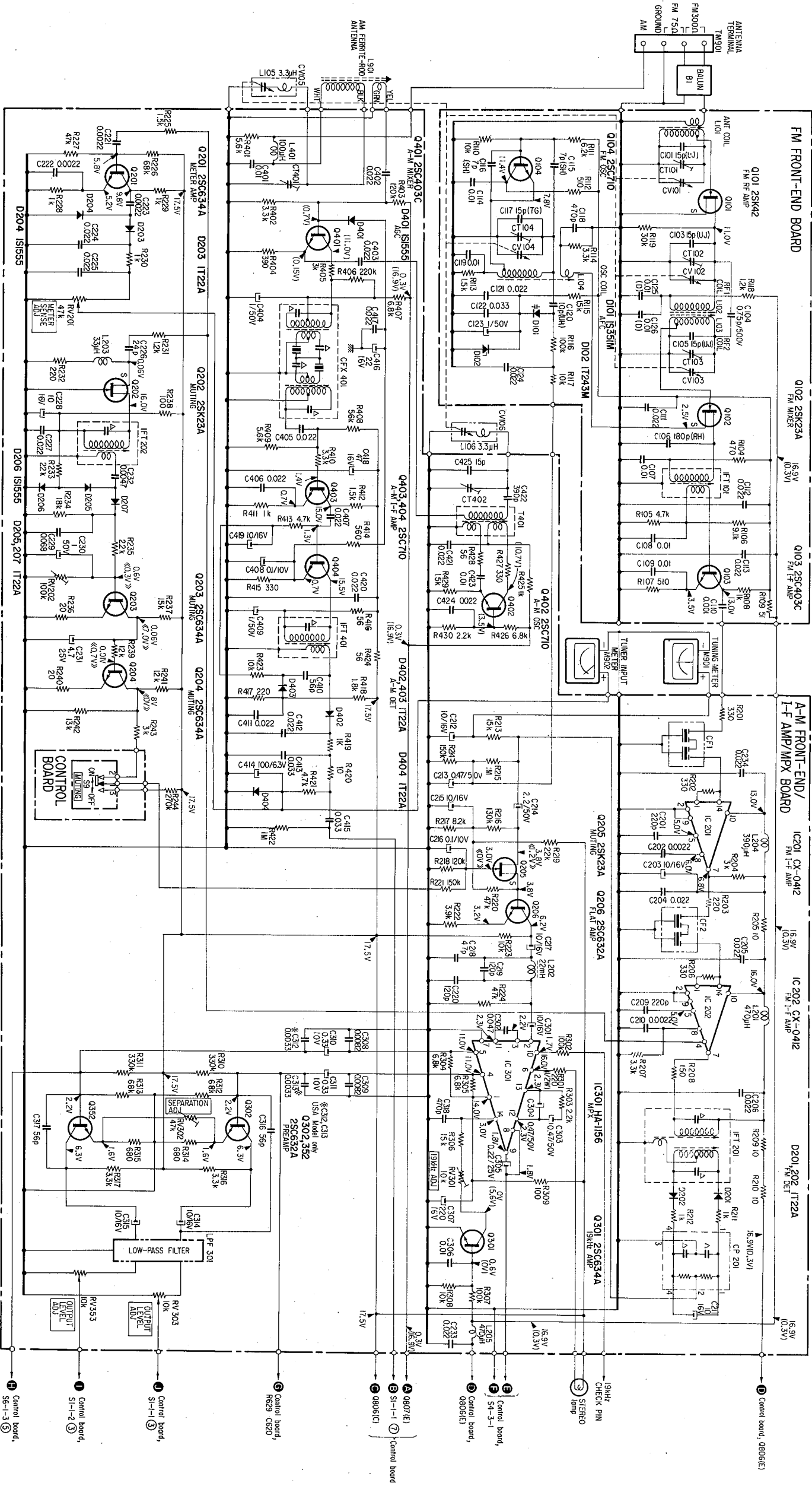


Fig. 3-3. Adjustment parts location

4.3. SCHEMATIC DIAGRAM – Tuner Section –

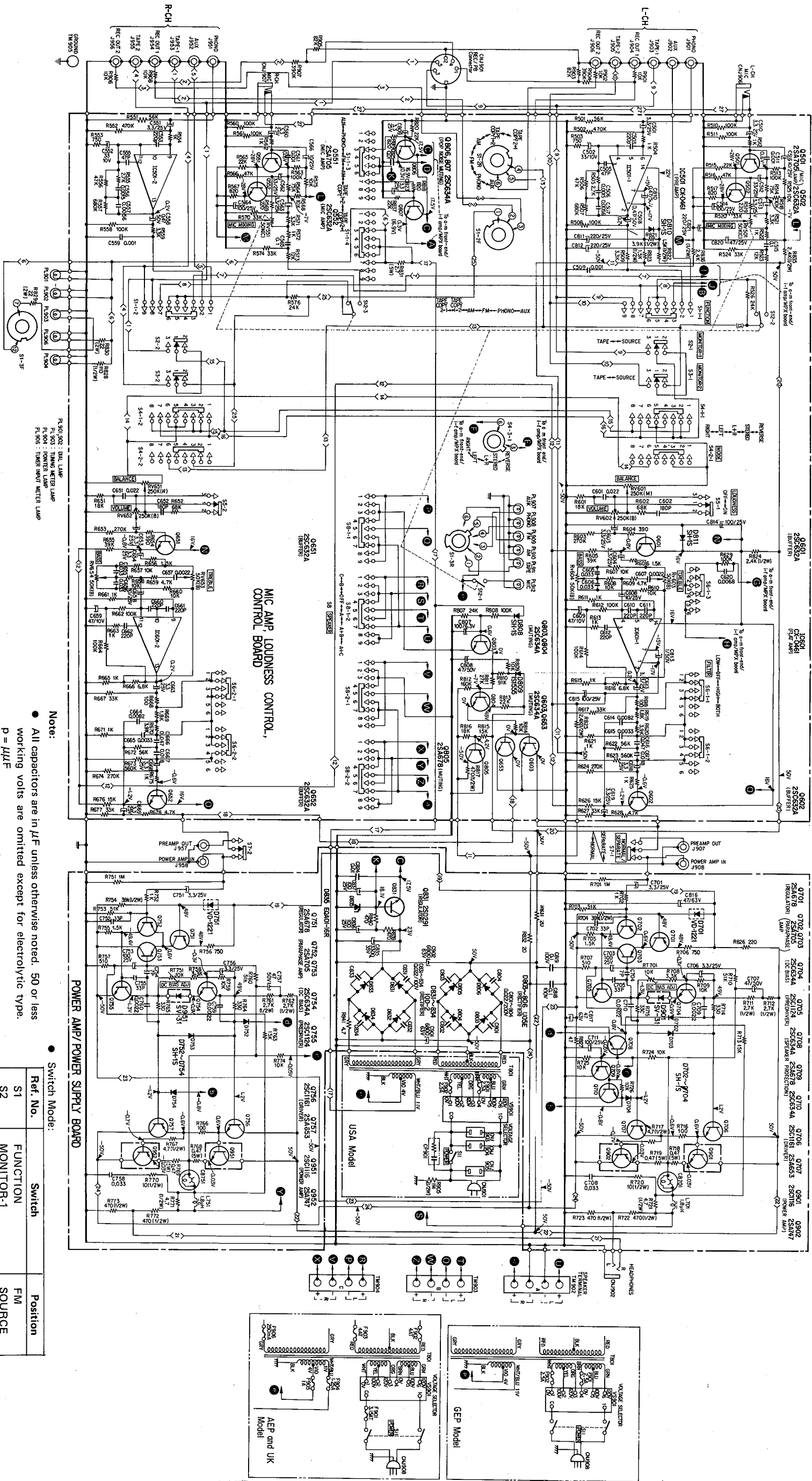


Note:

- All capacitors are in μF unless otherwise noted. 50 or less working volts are omitted except for electrolytic type. $P = \mu\text{F}$
- All resistors are in Ω , $\frac{1}{2}W$, unless otherwise noted. $k = 1,000$ $M = 1,000k$.
- Δ indicates internal components.
- Voltages are DC with respect to ground unless otherwise noted. Readings taken under no-signal conditions with a VOM (20k Ω /V).
- () : AM, $\ll$: MUTING ON
- Voltage variations may be noted due to normal production tolerances.
- Switch Mode:

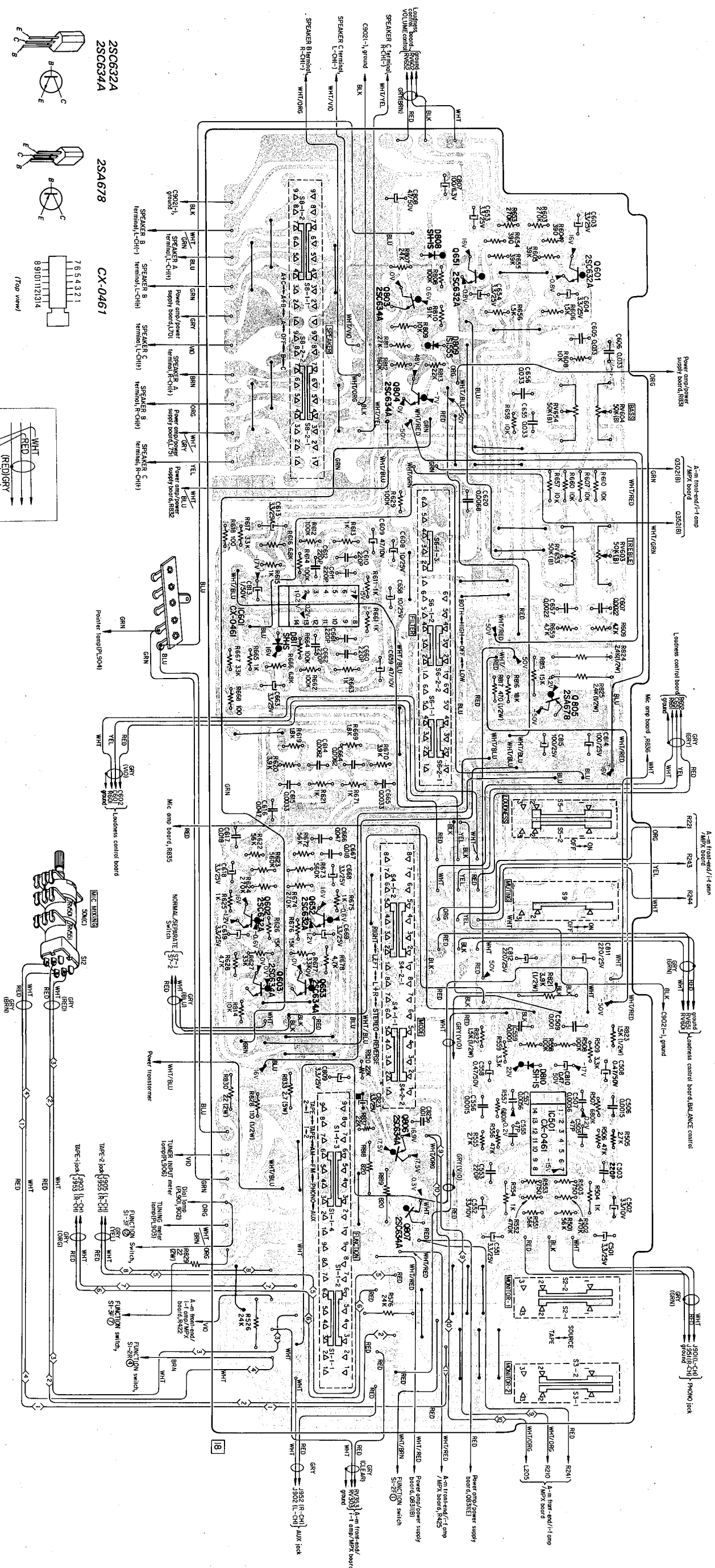
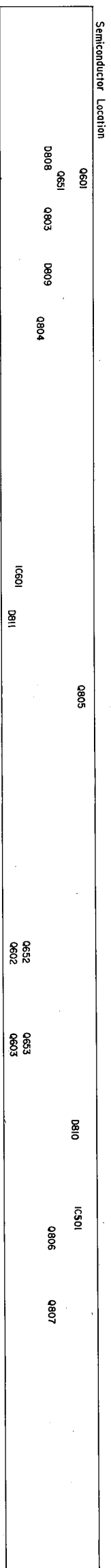
Ref. No.	Switch	Position
S9	MUTING	ON

STR-7065A STR-7065A



STR-7065A STR-7065A

4-6. MOUNTING DIAGRAM – Control Board –
– *Conductor Side* –



SH-1S

1S1555

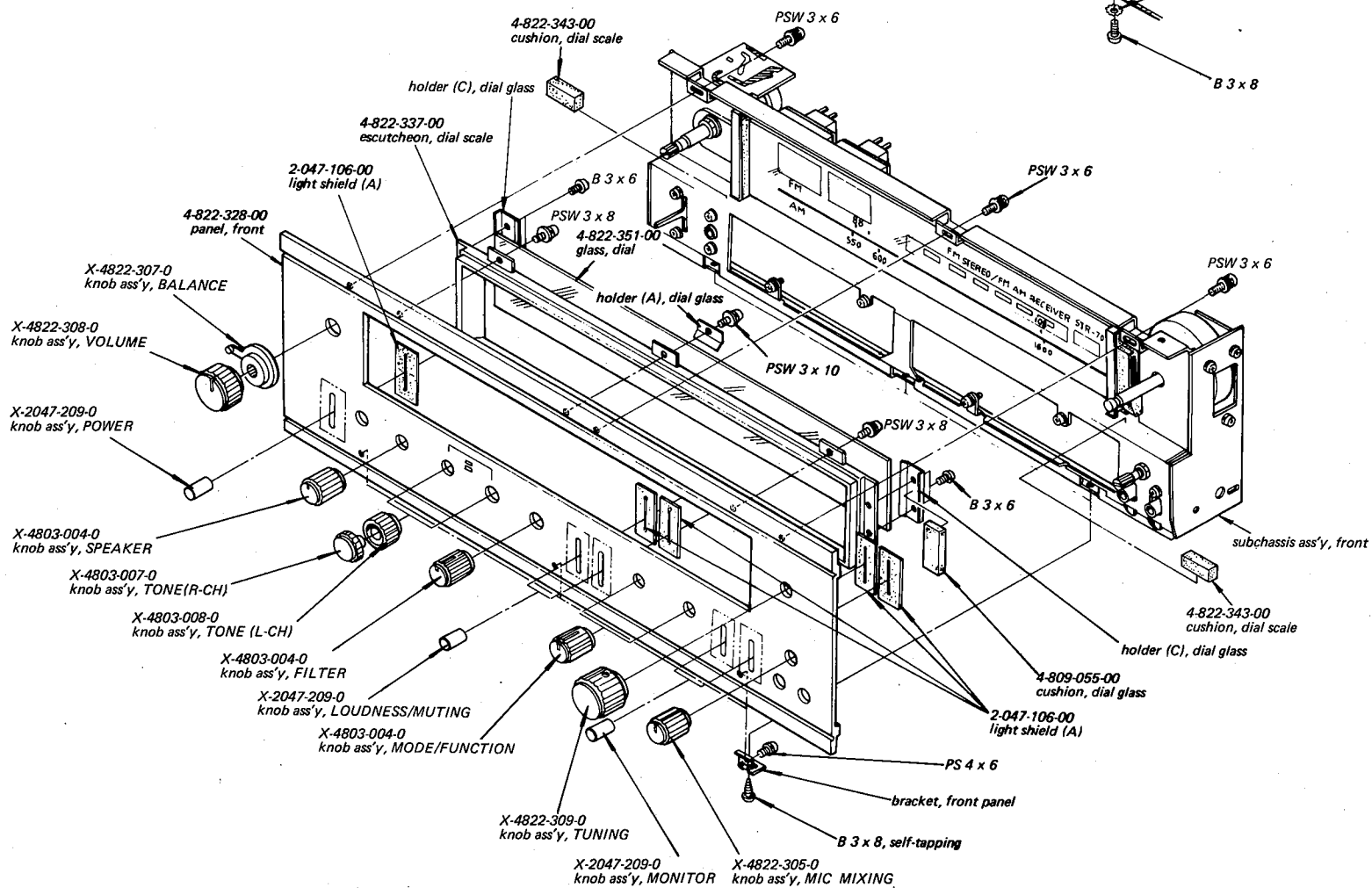
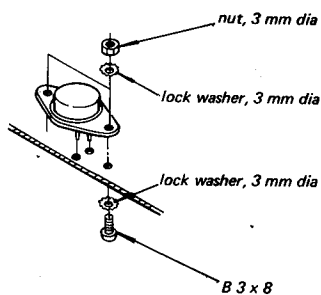
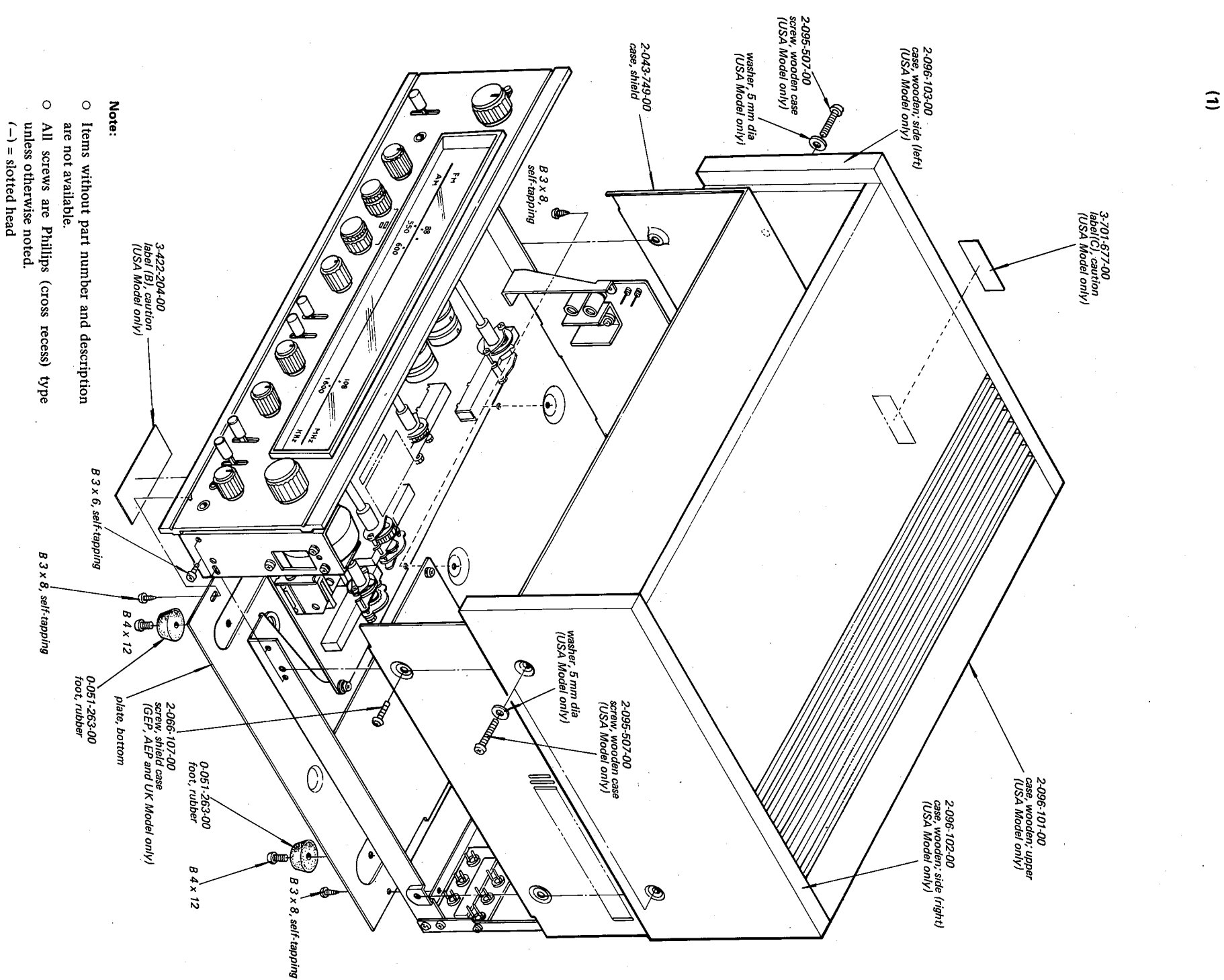
— 23 —

— 24 —

Note:

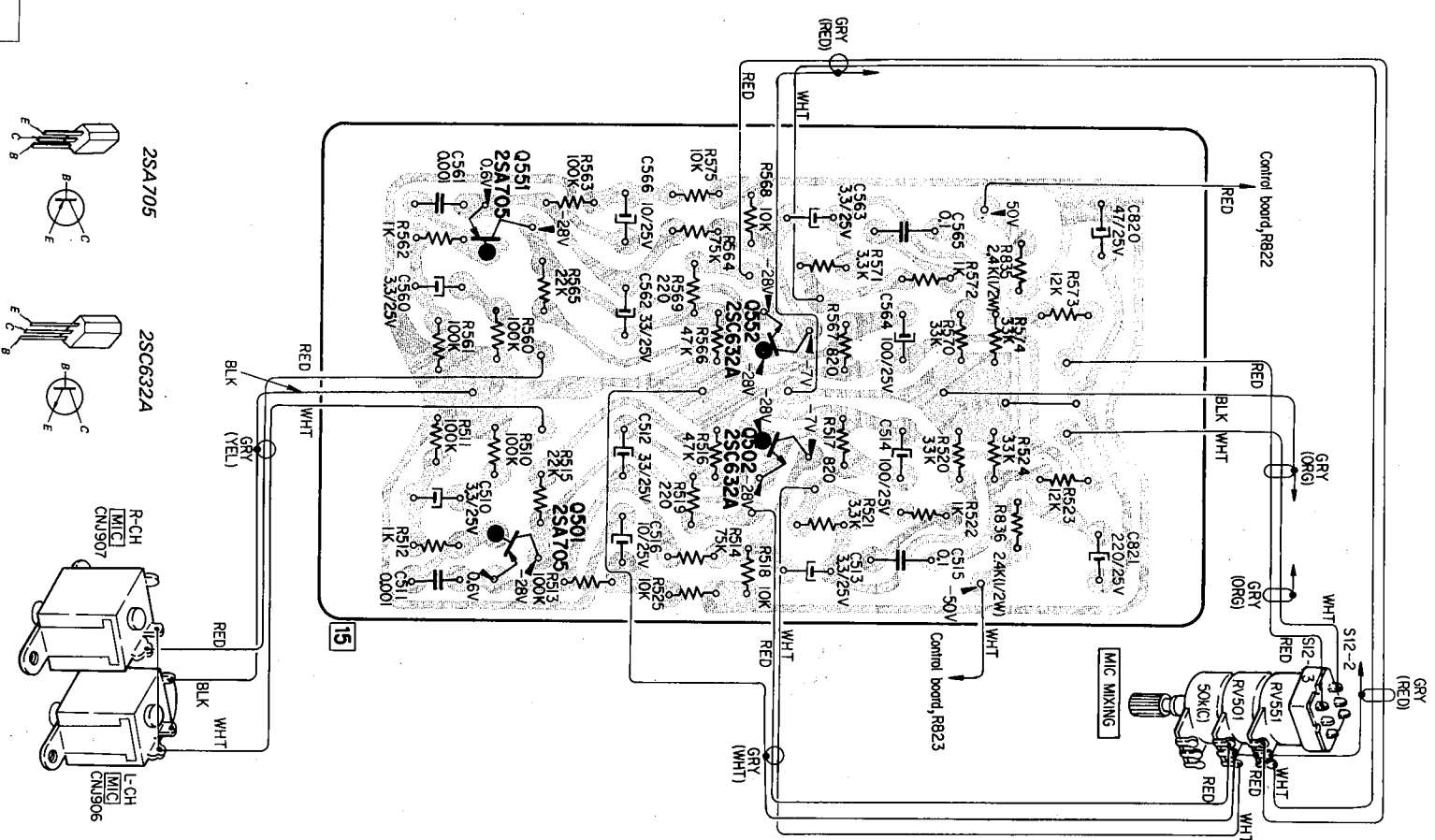
- indicates parts on the conductor side.
- indicates lead wire connection on the conductor side.
- indicates lead wire connection through the component side.

SECTION 5 EXPLODED VIEWS

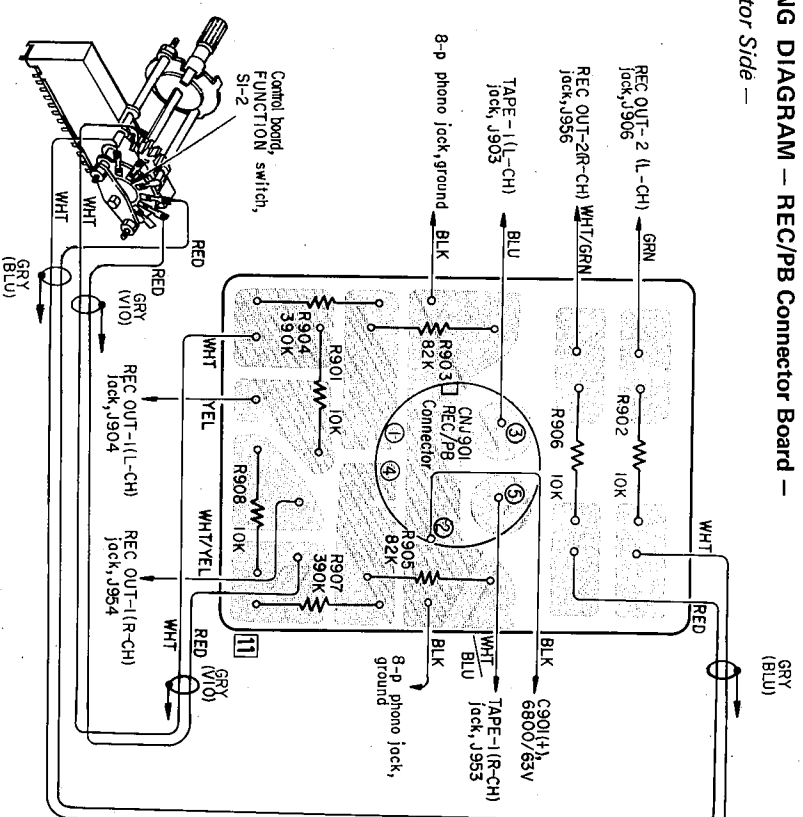


- Note:**
- Items without part number and description are not available.
 - All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head

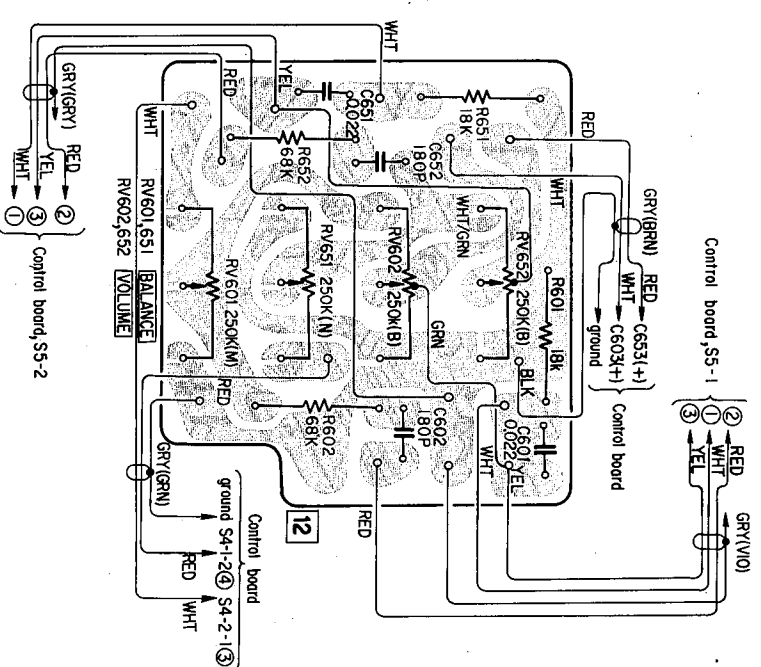
4-7. MOUNTING DIAGRAM – MIC Amp Board – – Conductor Side –



4-8. MOUNTING DIAGRAM — REC/PB Connector Board —
— *Conductor Side* —



4-9. MOUNTING DIAGRAM – Loudness Control Board –
– Conductor Side –





- Items without part number and description are not available.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head



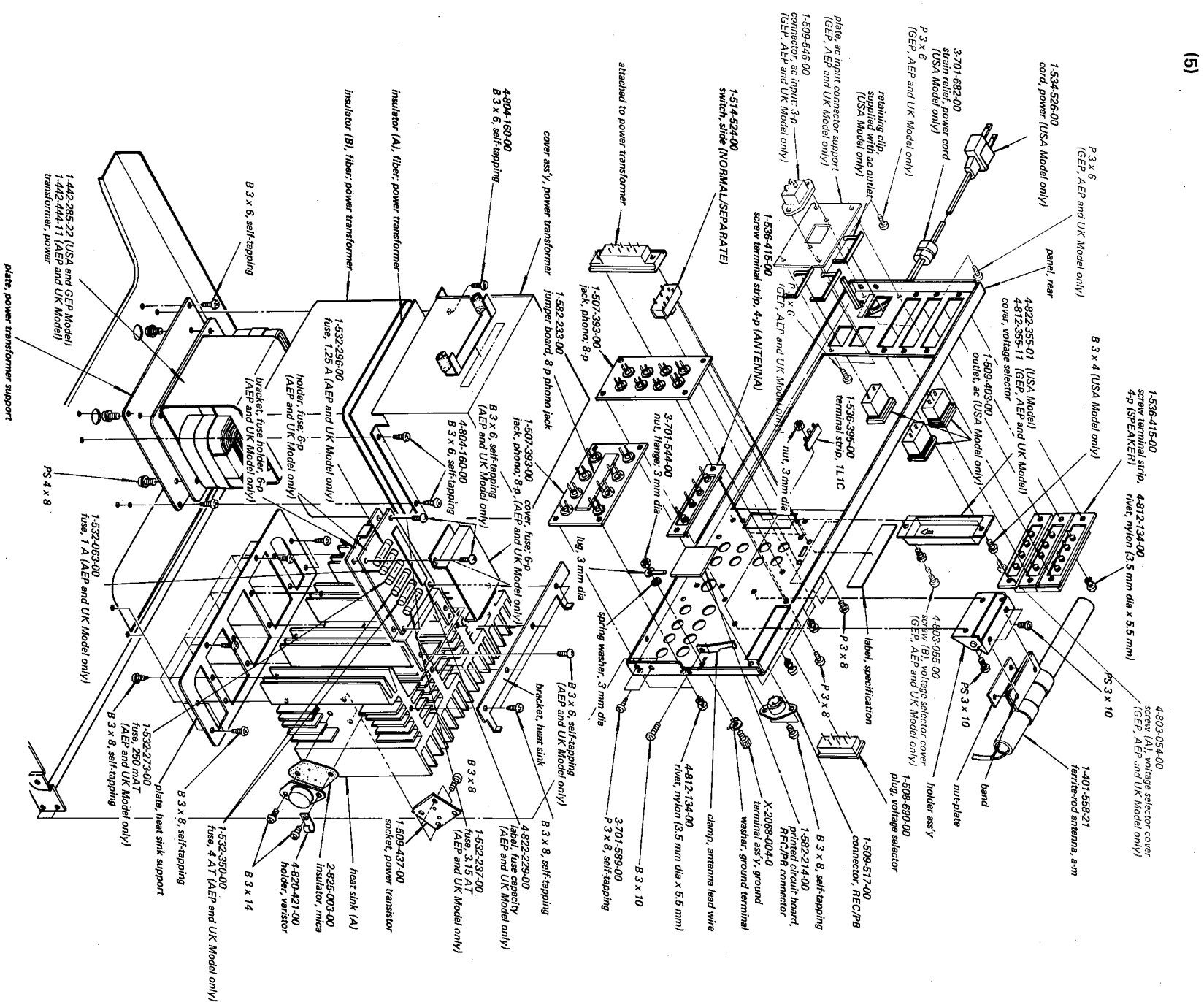
- Items without part number and description are not available.
 - All screws are Phillips (cross recess) type unless otherwise noted.
- (-) = slotted head

STR-7065A STR-7065A

SECTION 6

ELECTRICAL PARTS LIST

<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>	<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>
CIRCUIT BOARDS					
A-4344-001-A	F-m Front-end (FAF-022BWG), complete	Q701 (751)	2SA678		
A-4351-036-A	A-m Front-end/I-f Amp/MPX, complete (USA, GEP Model)	Q702 (752)	2SA705		
A-4351-037-A	A-m Front-end/I-f Amp/MPX, complete (AEP, UK Model)	Q703 (753)	2SA705		
A-4363-011-A	MIC Amp, complete	Q704 (754)	2SC634A		
A-4368-001-A	Loudness Control, complete	Q705 (755)	2SC1124		
A-4388-053-A	Power Amp/Power Supply, complete (GEP Model)	Q706 (756)	2SC1161		
A-4388-054-A	Power Amp/Power Supply, complete (USA Model)	Q707 (757)	2SA653		
A-4388-055-A	Power Amp/Power Supply, complete (AEP, UK Model)	Q708	2SC634A		
X-4824-721-1	Control (CCB-115), complete	Q709	2SA678		
I-582-214-00	REC/PB Connector	Q710	2SC634A		
SEMICONDUCTORS					
Transistors					
Q101	2SK42 (FET)	Q901 (951)	2SC1116		
Q102	2SK23A (FET)	Q902 (952)	2SA747		
Q103	2SC403C				
Q104	2SC710	IC301	HA-1156		
Q201	2SC634A	IC501	CX-0461		
Q202	2SK23A (FET)				
Q203, 204	2SC634A	IC601	CX-0461		
Q205	2SK23A (FET)				
Q206	2SC632A				
Q301	2SC634A				
Q302 (352)	2SC632A	D101	1S351M		
		D102	1T243M		
Q401	2SC403C	D201~203	1T22A		
Q402~404	2SC710	D204	1S1555		
		D205	1T22A		
Q501 (551)	2SA705	D206	1S1555		
Q502 (552)	2SC632A	D207	1T22A		
Q601 (651)	2SC632A	D401	1S1555		
Q602 (652)	2SC632A	D402~404	1T22A		
Q603 (653)	2SC634A	D701 (751)	VD-1221		



Note:

- Items without part number and description are not available.
- All screws are Phillips (cross recess) type unless otherwise noted.
- (—) = slotted head

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D702 (752)		SH-1S	CAPACITORS			C218	1-101-880-11	47 p	C415	1-105-679-12	0.033
D703 (753)		SH-1S	Capacitors here are in μ F, ceramic type unless otherwise noted (p = μ F, elect = electrolytic) The working voltages of 50 volts or less are omitted except for electrolytic type.			C219, 220	1-102-816-11	120 p	C416	1-121-479-11	22
D704 (754)		SH-1S				C221~223	1-101-919-11	0.0022			
D803~806		UO-5E				C224, 225	1-101-924-11	0.022	C417	1-101-924-11	0.022
D808		SH-1S				C226	1-102-960-11	24 p	C418	1-121-409-11	47
D809		1S1555				C227	1-101-924-11	0.022	C419	1-121-651-11	10
D810, 811		SH-1S				C228	1-121-651-11	10	C420, 421	1-101-924-11	0.022
D831~834		10D-2				C229	1-105-683-12	0.068	C422	1-103-715-11	390 p
D835		EQA01-16R							C423	1-101-923-11	0.01
						C230	1-121-391-11	1	C424	1-101-924-11	0.022
D901 (951)		SV-31				C231	1-121-395-11	4.7	C425	1-102-951-11	15 p
						C232	1-105-509-12	0.0047			
TRANSFORMERS, COILS AND INDUCTORS						C233, 234	1-101-924-11	0.022			
B1	1-417-014-00	Balun	C110	1-101-918-11	0.001				C501 (551)	1-131-206-11	3.3
CFX401	1-403-963-11	IFT, a-m (USA, GEP Model)	C111~113	1-101-924-11	0.022				C502 (552)	1-121-926-11	33
	1-403-963-21	IFT, a-m (AEP, UK Model)	C114	1-101-923-11	0.01				C503 (553)	1-102-978-11	220 p
IFT101	1-403-295-00	IFT, fm	C115, 116	1-102-875-11	7 p				C505 (555)	1-101-880-11	47 p
IFT201	1-403-964-00	Transformer, discriminator	C117	1-102-894-11	15 p				C506 (556)	1-106-005-12	0.0015
IFT202	1-403-299-00	Coil, muting	C118	1-102-114-11	470 p				C507 (557)	1-106-019-12	0.0056
IFT401	1-403-149-00	IFT, a-m	C119	1-101-118-11	0.01				C508 (558)	1-121-911-11	0.47
L101	1-401-489-00	Coil, antenna	C120	1-102-986 11	10 p				C509 (559)	1-105-661-12	0.001
L102	1-425-446-00	Coil, rf1	C121	1-101-924-11	0.022				C510 (560)	1-131-206-21	3.3
L103	1-425-668-00	Coil, rf2	C122	1-105-679-12	0.033				C511 (561)	1-105-661-12	0.001
L104	1-405-377-00	Coil, osc	C123	1-121-391-11	1				C512 (562)	1-123-044-11	33
L105, 106	1-407-184-00	Microinductor, 3.3 μ H	C124	1-101-924-11	0.022				C513 (563)	1-121-913-11	3.3
L201	1-407-177-00	Microinductor, 470 μ H	C125, 126	1-101-118-11	0.01				C514 (564)	1-121-416-11	100
L202	1-407-418-00	Shielded Inductor, 22 mH							C515 (565)	1-105-685-12	0.1
L203	1-407-163-00	Microinductor, 33 μ H							C516 (566)	1-121-398-11	10
L204	1-407-176-00	Microinductor, 390 μ H									
L205	1-407-177-00	Microinductor, 470 μ H							C601 (651)	1-105-677-12	0.022
L401	1-407-169-00	Microinductor, 100 μ H							C602 (652)	1-107-137-11	180 p
									C603 (653)	1-131-206-11	3.3
L701 (751)	1-407-592-00	Microinductor, 1.8 μ H							C604 (654)	1-121-392-11	3.3
L901	1-401-558-21	Ferrite-rod Antenna, a-m							C605 (655)	1-105-679-12	0.033
T401	1-405-459-00	Coil, a-m osc									
	1-442-285-22	Transformer, power (USA, GEP Model)							C606 (656)	1-105-679-12	0.033
T801	1-442-444-11	Transformer, power (AEP, UK Model)							C607 (657)	1-105-665-12	0.0022
									C608 (658)	1-121-398-11	10
									C609 (659)	1-121-352-11	47
									C610 (660)	1-102-978-11	220 p
									C611 (661)	1-102-978-11	220 p
									C612 (662)	1-102-978-11	220 p
									C613 (663)	1-121-392-11	3.3

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
C614 (664)	1-106-023-11	0.0082		mylar	
C615 (665)	1-106-013-12	0.0033		mylar	
C616 (666)	1-106-041-12	0.047		mylar	
C617 (667)	1-106-031-12	0.018		mylar	
C618 (668)	1-121-392-11	3.3	25 V	elect	
C619 (669)	1-121-392-11	3.3	25 V	elect	
C620	1-105-671-12	0.0068		mylar	
C701 (751)	1-121-392-11	3.3	25 V	elect	
C702 (752)	1-102-963-11	33 p			
C703 (753)	1-121-935-11	100	25 V	elect	
C704 (754)	1-102-944-11	7 p			
C705 (755)	1-102-963-11	33 p			
C706 (756)	1-121-392-11	3.3	25 V	elect	
C707 (757)	1-123-058-11	47	50 V	elect	
C708 (758)	1-105-679-12	0.033		mylar	
C709 (759)	1-105-665-12	0.0022		mylar	
C710 (760)	1-105-665-12	0.0022		mylar	
C711	1-121-935-11	100	25 V	elect	
C801~804	1-105-917-12	0.022	200 V	mylar	
C807	1-121-413-11	100	6.3 V	elect	
C808	1-121-411-11	47	50 V	elect	
C809	1-121-392-11	3.3	25 V	elect	
C810	1-121-726-11	0.47	50 V	elect	
C811, 812	1-121-936-11	220	25 V	elect	
C814, 815	1-121-935-11	100	25 V	elect	
C816, 817	1-123-090-11	47	63 V	elect	
C818, 819	1-105-725-12	0.1	100 V	mylar	
C820	1-121-410-11	47	25 V	elect	
C821	1-121-936-11	220	25 V	elect	
C823	1-121-392-11	3.3	25 V	elect	
C824	1-105-673-12	0.01		mylar	
C825	1-101-923-11	0.01			
C831~834	1-105-717-12	0.022	100 V	mylar	
C835	1-123-118-11	3300	35 V	elect	
C836, 837	1-121-935-11	100	25 V	elect	
C901, 902	1-123-089-11	6,800	63 V	elect	
CT401, 402	1-141-147-00	trimmer			

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
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RESISTORS

All resistors are in Ω . $\frac{1}{4}$ W, $\pm 5\%$, carbon resistors (except special type) are omitted.

Check schematic diagram for the resistance values.

(k = 1000, M = 1000k)

R301	1-202-557-11	220	$\frac{1}{2}$ W	composition
R704 (754)	1-211-676-11	39 k	$\frac{1}{2}$ W	carbon (nonflammable)
R711 (761)	1-202-583-11	2.7 k	$\frac{1}{2}$ W	composition
R712 (762)	1-202-583-11	2.7 k	$\frac{1}{2}$ W	composition
R714 (764)	1-211-534-11	330	$\frac{1}{4}$ W	carbon (nonflammable)
R715 (765)	1-211-534-11	330	$\frac{1}{4}$ W	carbon (nonflammable)
R716 (766)	1-211-522-11	100	$\frac{1}{4}$ W	carbon (nonflammable)
R717 (767)	1-211-582-11	4.7	$\frac{1}{2}$ W	carbon (nonflammable)
R718 (768)	1-217-158-11	0.47	5 W	metal
R719 (769)	1-217-158-11	0.47	5 W	metal
R720 (770)	1-202-525-11	10	$\frac{1}{2}$ W	composition
R721 (771)	1-202-517-11	4.7	$\frac{1}{2}$ W	composition
R722 (772)	1-202-565-11	470	$\frac{1}{2}$ W	composition
R723 (773)	1-202-565-11	470	$\frac{1}{2}$ W	composition
R817	1-202-565-11	470	$\frac{1}{2}$ W	composition
R821	1-202-587-11	3.9 k	$\frac{1}{2}$ W	composition
R822, 823	1-202-577-11	1.5 k	$\frac{1}{2}$ W	composition
R824, 825	1-202-582-11	2.4 k	$\frac{1}{2}$ W	composition
R826	1-211-530-11	220	$\frac{1}{4}$ W	carbon (nonflammable)
R827	1-211-514-11	47	$\frac{1}{4}$ W	carbon (nonflammable)
R828	1-202-550-11	110	$\frac{1}{2}$ W	composition
R829, 830	1-207-630-11	22	2 W	wirewound
R831, 832	1-211-505-11	20	$\frac{1}{4}$ W	carbon (nonflammable)
R833	1-207-929-11	2.7	5 W	wirewound
R835, 836	1-202-582-11	2.4 k	$\frac{1}{2}$ W	composition
R841	1-211-490-11	4.7	$\frac{1}{4}$ W	carbon (nonflammable)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
R905	1-202-719-11	1 M $\frac{1}{2}$ W composition (USA Model only)

RT701 (751)	1-221-967-00	10 k, adjustable
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RV201	1-222-765-00	47 k, adjustable
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RV202	1-222-766-00	100 k, adjustable
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RV301	1-222-752-00	10 k, adjustable
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RV302	1-222-765-00	47 k, adjustable
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RV303 (353)	1-222-752-00	10 k, adjustable
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RV501 (551)	1-224-103-00	50 k(C), variable (MIC MIX)
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RV601 (651)	1-224-102-00	250 k(M/N), variable (BALANCE)
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RV602 (652)	1-224-102-00	250 k(B), variable (VOLUME)
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RV603 (653)	1-224-101-00	50 k(B), variable (TREBLE)
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RV604 (654)	1-224-101-00	50 k(B), variable (BASS)
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SWITCHES

S1	1-516-199-00	Rotary/Slide (FUNCTION)
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S2, 3	1-516-036-00	Lever/Slide (MONITOR)
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S4	1-516-196-00	Rotary/Slide (MODE)
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S5	1-516-036-00	Lever/Slide (LOUDNESS)
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S6	1-516-197-00	Rotary/Slide (FILTER)
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S7	1-514-524-00	Slide (NORMAL/SEPARATE)
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S8	1-516-198-00	Rotary/Slide (SPEAKER)
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S9	1-516-036-00	Lever/Slide (FM MUTING)
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S11	1-516-007-00	Lever (POWER) (USA Model)
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S11	1-516-315-00	Lever (POWER) (AEP, GEP, UK Model)
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S12		- built in RV501 (551) -
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FILTERS

CF1, 2	1-527-240-00	Fm I-f, ceramic
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LPF301	1-231-219-00	Low-pass
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LAMPS

PL901, 902	1-518-116-00	Dial, 11 V 360 mA
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PL903	1-518-124-00	TUNING Meter, 8 V 250 mA
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PL904	1-518-151-00	Pointer (with lamp), 5 V 60 mA
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PL905	1-518-169-XX	STEREO, 4.5 V 40 mA
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PL906	1-518-124-00	TUNER INPUT Meter, 8 V 250 mA
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PL907~912	1-518-169-XX	FUNCTION 4.5 V 40 mA
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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
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FUSES

F901	1-532-237-00	3.15 AT (AEP, UK Model)
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	1-532-252-00	2.5 A (GEP Model)
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	1-532-269-00	2.5 A (USA Model)
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F902	1-532-252-00	2.5 A (GEP Model)
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	1-532-269-00	2.5 A (USA Model)
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	1-532-350-00	4.0 AT (AEP, UK Model)
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F903	1-532-350-00	4.0 AT (AEP, UK Model only)
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F904	1-532-296-00	1.25 A (AEP, UK Model only)
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F905	1-532-063-00	1.0 A (AEP, UK Model only)
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F906	1-532-273-00	0.25 A (AEP, UK Model only)
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MISCELLANEOUS

CB701 (751)	1-515-194-00	Breaker, circuit
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CNJ902	1-507-265-00	Jack, HEADPHONE
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CNJ903	1-509-403-00	Outlet, ac (USA Model only)
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~905		
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CNJ906, 907	1-507-394-00	Jack, MIC
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CP201	1-231-278-00	Encapsulated Component
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CP901	1-231-057-00	Encapsulated Component (USA Model only)
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J901~908 (J951~958)	1-507-393-00	Jack, phono; 8-p
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M901	1-520-140-00	Meter, TUNING
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M902	1-520-141-00	Meter, TUNER INPUT
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TM901	1-536-415-00	Screw Terminal Strip, 4-p (SPEAKER/ANTENNA)
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~904		
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1-508-690-00	Plug, voltage selector
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1-509-437-00	Socket, power transistor
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1-509-517-00	Connector, REC/PB
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1-509-546-00	Connector, ac input; 3-p (AEP, GEP, UK Model only)
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1-517-057-00	Holder, meter lamp; 2-p
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1-533-090-00	Holder, dial lamp
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1-534-526-00	Cord, power (USA Model only)
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1-535-054-00	Lug Terminal (A)
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1-535-055-00	Lug Terminal (B)
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1-536-395-00	Terminal Strip, 1L1 (C)
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1-536-398-00	Terminal Strip, 2L2 (C)
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1-536-430-00	Terminal Strip
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1-582-233-00	Jumper Board, 8-p phono jack
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ACCESSORIES AND PACKING MATERIALS

<u>Part No.</u>	<u>Description</u>
X-3701-029-0	Card Ass'y, warranty (USA Model only)
X-4490-002-0	Cloth Ass'y, polishing
1-501-083-21	Ribbon Antenna, fm
1-506-138-11	Plug, phono (red)
1-506-138-12	Plug, phono (white)
3-429-126-00	Bag, polyethylene; unit
3-701-020-00	Bag, polyethylene; instruction manual
3-701-622-00	Bag, polyethylene; warranty card (UK Model only)
3-701-730-00	Bag, polyethylene; IBM card (USA Model only)
3-701-742-00	Card, IBM (USA Model only)
3-780-670-11	Manual, instruction (AEP, GEP, UK Model)
3-780-670-21	Manual, instruction (USA Model)
3-793-520-00	Card, warranty (UK Model only)
3-793-831-11	Diagram, schematic (AEP, GEP, UK Model)
3-793-831-21	Diagram, schematic (USA Model)
4-822-390-00	Carton (AEP, GEP, UK Model)
4-822-391-00	Carton (USA Model)
4-822-392-00	Cushion

