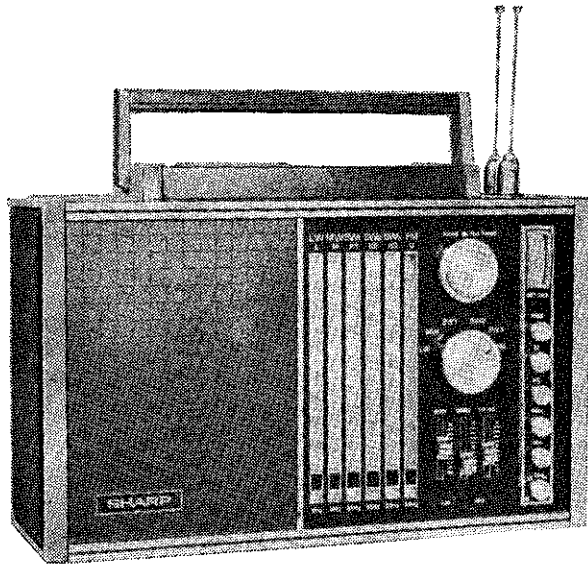


Service Manual

SHARP



MODEL

FV-1800

SPECIFICATIONS

Frequency Range :	LW 150~370 kHz
	MW 520~1620 kHz
	SW1 1.6~4.3 MHz
	SW2 3.9~12.0 MHz
	SW3 12.0~26.5 MHz
	FM 88~108 MHz
Intermediate Frequency :	
	AM 455 kHz
	FM 10.7 MHz
Power Supply :	DC 12V (UM-1 battery × 8) or
	AC 100~120, 200~240V 50/60Hz
Power Output :	Undistorted 2W
	Maximum 3.5W
Speaker :	3-1/2" × 4" (9cm × 10cm) Oval
	P.D.S. V.C. imp. 4 ohms
Dimensions :	35 cm (W) × 23.8 cm (H) × 14 cm (D)
	(13-3/4" × 9-3/8" × 5-1/2")
Weight :	5.5 Kg (121ds) without batteries

TRANSISTOR COMPLEMENT

Q1	2SA234 (B)	AM Oscillator
Q2	2SA234 (C)	AM RF Amplifier
Q3	2SA234 (C)	AM Mixer
Q4	2SK19	FM RF Amplifier
Q5	2SC535 (A)	FM Mixer
Q6	2SC461 (B)	FM Oscillator
Q7	2SA234 (B)	1st IF Amplifier
Q8	2SA234 (A)	2nd IF Amplifier
Q9	2SA234 (A)	3rd IF Amplifier
Q10	2SA12 (C)	BFO
Q11	2SC458 (B)	Audio Amplifier
Q12	2SC458 (B)	Audio Amplifier
Q13	2SB75 (B)	Audio Driver
Q14	2SB370 (B)	Audio Output
Q15	2SB370 (B)	Audio Output
Q16	2SC830 (B)	Power Stabilizer
Q17	2SC458 (B)	Power Stabilizer



SHARP CORPORATION OSAKA, JAPAN

GENERAL DESCRIPTION

The circuit used in this 6 band portable radio incorporates 17 transistors 13 diodes and 2 thermistors.

A ferrite bar antenna feeds the AM broadcasting signal to the AM mixer and a telescopic rod antenna feeds the AM broadcasting signal to the AM mixer, 2 IF amplifiers and a diode detector.

A telescopic rod antenna feeds the FM broadcasting signal to the FM RF amplifier, FM mixer, 3 IF amplifier and FM detector (2 diodes).

The audio signal passes through a 5 transistor audio amplifier circuit.

An AM AVC voltage is fed back to the 1st IF amplifier. An FM AVC voltage is fed back to the FM RF amplifier.

An AFC voltage is fed back to the FM converter.

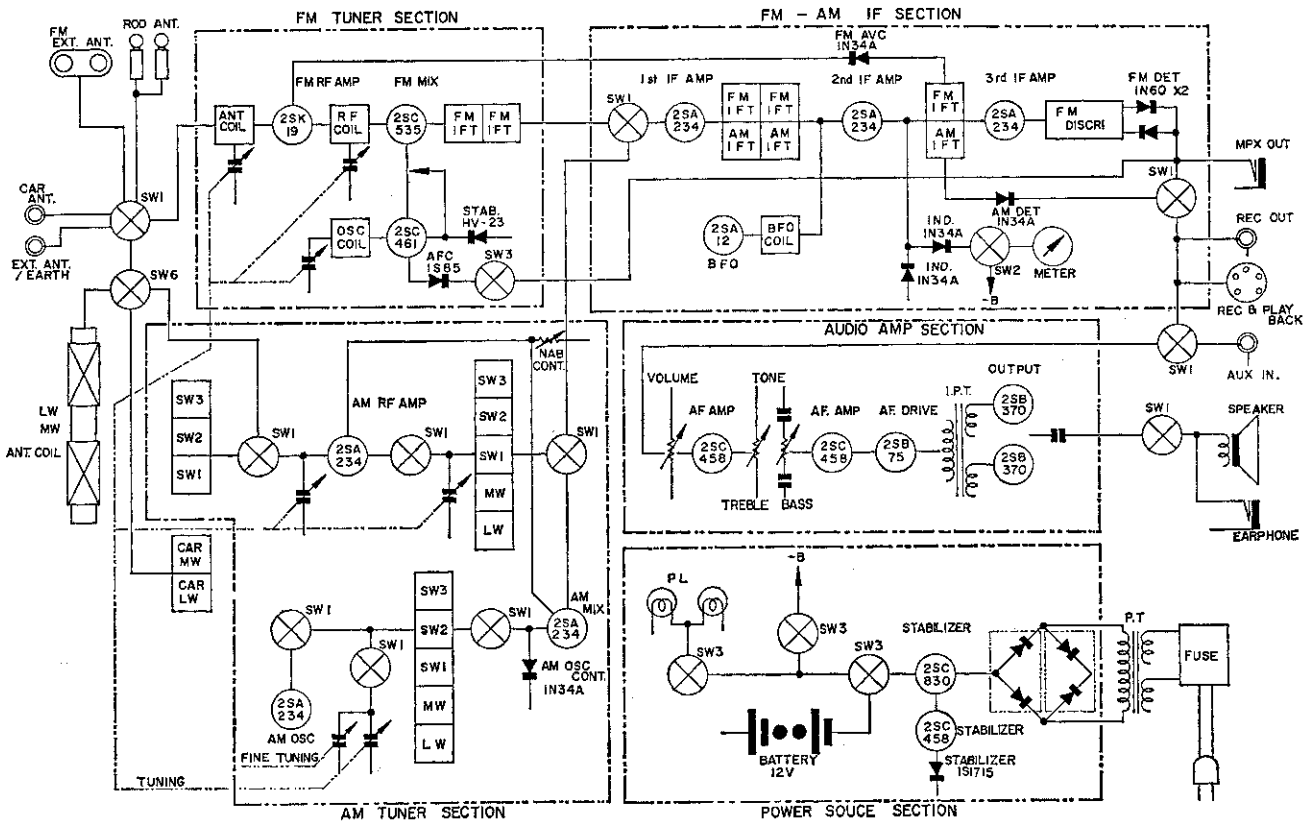


Figure 1 BLOCK DIAGRAM

CHASSIS REMOVAL (Refer to Figure 2)

1. Remove the six control knobs (A) on the front panel.
2. Take off the battery cover.
3. Loosen the five screws (B) on the back of the set.
4. Fasten the terminal compartment cover.
5. Remove the antenna cord (C), indicator cord (D), battery cord (E) and speaker cord (F).
6. Loosen the five chassis retaining screws (G).
7. Gently pull out the chassis toward you.
8. When assembling, reverse the order.

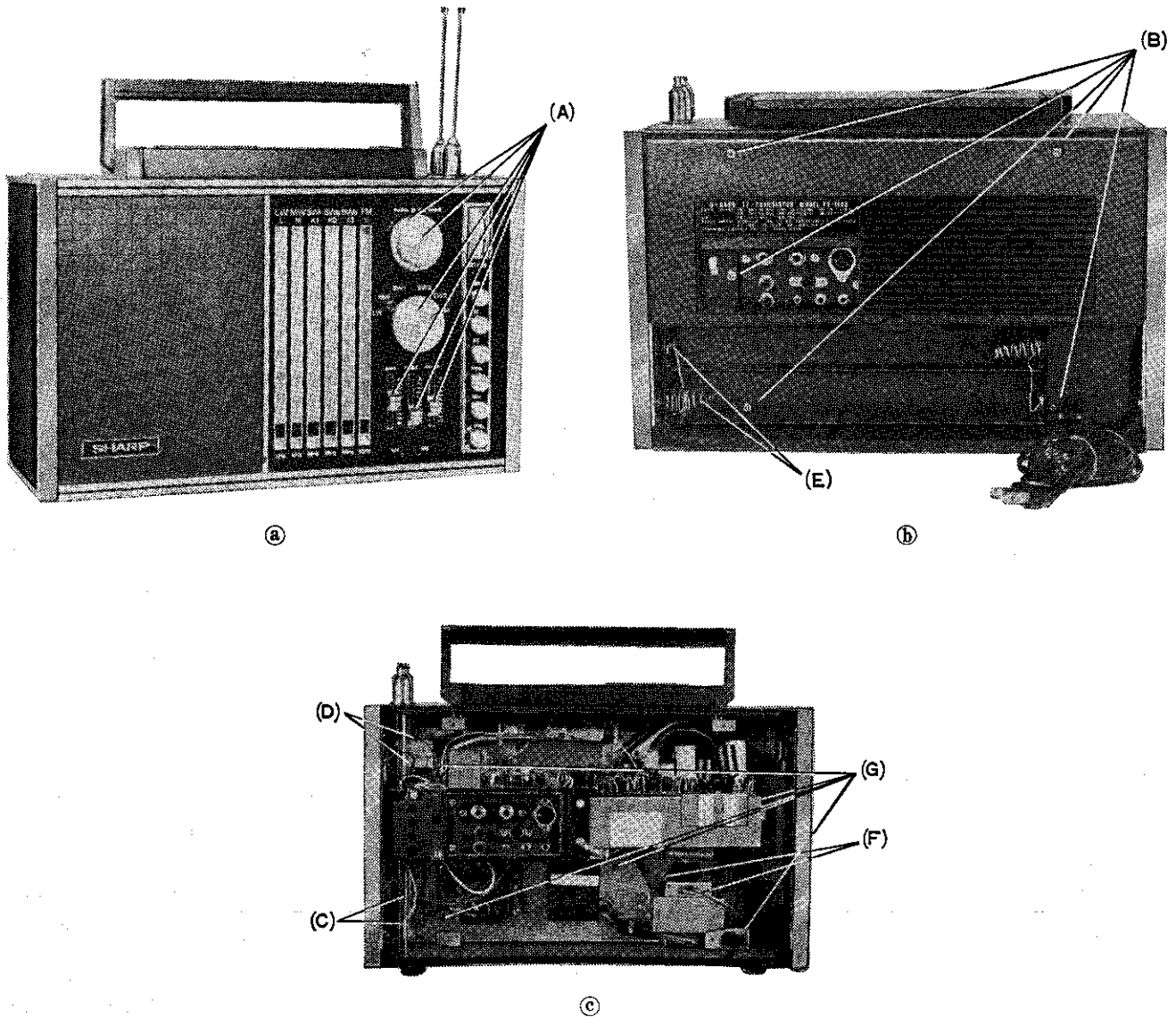


Figure 2 CHASSIS REMOVAL

GENERAL ALIGNMENT INSTRUCTIONS

Should it become necessary at any time to check the alignment of this receiver, proceed as follows;

- 1) Connect an output meter across the speaker voice coil lugs.
- 2) Set the volume control for maximum.
- 3) Attenuate the signals from the generator enough to swing the most sensitive range of the output meter.
- 4) Use a non-metallic alignment tool.
- 5) Repeat adjustments to insure good results.

ALIGNMENT CHART

Signal generator				Receiver		Adjustment
Step	Band	Connection to receiver	Input signal frequency	Dial setting	Remarks	
1	MW	Connect signal generator through a 10K ohm dummy to the antenna tuning condenser. Ground lead to the receiver chassis.	Exactly 455kHz (400Hz, 30%, AM modulated)	Tuning gang fully open. (minimum capacity)	Adjust for maximum output on speaker voice coil lugs.	T10 T8 T6 T2 T1
2	MW	Use radiation loop. Loop of several turns of wire, or place generator lead close to receiver for adequate signal pickup. Generator output to one end of this wire.	Exactly 600kHz (400Hz, 30%, AM modulated)	600kHz	Same as step 1	Adjust the MW oscillator core (L7), and then adjust the MW antenna coil (L14, L1). (See NOTE A)
3	MW	Same as step 2	Exactly 1400kHz (400Hz, 30%, AM modulated)	1400kHz	Same as step 1	Adjust the MW oscillator trimmer (C16), and then adjust the MW antenna trimmer (C201, C21). (See NOTE A)
4	MW	Repeat steps 2 and 3 until no further improvement can be made.				
5	LW	Same as step 2	Exactly 180kHz (400Hz, 30%, AM modulated)	180kHz	Same as step 1	Adjust the LW oscillator core (L6), and then adjust the LW antenna coil (L13, L1). (See NOTE A)
6	LW	Same as step 2	Exactly 350kHz (400Hz, 30%, AM modulated)	350kHz	Same as step 1	Adjust the LW oscillator trimmer (C17), and then adjust the LW antenna trimmer (C22, C202). (See NOTE A)
7	LW	Repeat steps 5 and 6 until no further improvement can be made.				
8	SW1	Same as step 2	Exactly 1.7MHz (400Hz, 30%, AM modulated)	1.7MHz	Same as step 1	Adjust the SW1 oscillator core (L8), and then adjust the SW1 antenna core (L2, L15).
9	SW1	Same as step 2	Exactly 3.7MHz (400Hz, 30%, AM modulated)	3.7MHz	Same as step 1	Adjust the SW1 oscillator trimmer (C15), and then adjust the SW1 antenna trimmer (C20, C12).
10	SW1	Repeat steps 8 and 9 until no further improvement can be made.				

Signal generator				Receiver		Adjustment
Step	Band	Connection to receiver	Input signal frequency	Dial setting	Remarks	
11	SW2	Same as step 2	Exactly 4.5MHz (400Hz, 30%, AM modulated.)	4.5MHz	Same as step 1	Adjust the SW2 oscillator core (L9), and then adjust the SW2 antenna core (L16, L3).
12	SW2	Same as step 2	Exactly 10MHz (400Hz, 30%, AM modulated.)	10MHz	Same as step 1	Adjust the SW2 oscillator trimmer (C14), and then adjust the SW2 antenna trimmer (C19, C11).
13	SW2	Repeat steps 11 and 12 until no further improvement can be made.				
14	SW3	Same as step 2	Exactly 13MHz. (400Hz, 30%, AM modulated.)	13MHz	Same as step 1	Adjust the SW3 oscillator core (L10), and then adjust the SW3 antenna core (L17, L4).
15	SW3	Same as step 2	Exactly 23MHz (400Hz, 30%, AM modulated.)	23MHz	Same as step 1	Adjust the SW3 oscillator trimmer (C13), and then adjust the SW3 antenna trimmer (C18, C10).
16	SW3	Repeat steps 14 and 15 until no further improvement can be made.				

NOTE A

Check the alignment of the receiver antenna coil by bringing a piece of ferrite (such as a coil slug) near the antenna loop stick, then a piece of brass. If ferrite increases output, loop requires more inductance. If brass increases output, loop requires less inductance. Change loop inductance by sliding the bobbin toward the center of ferrite core to increase inductance, or away to decrease inductance.

FM ALIGNMENT CHART

Signal generator			Receiver		Adjustment
Step	Connection to receiver	Input signal frequency	Dial setting	Remarks	
1	Connect signal generator through a 5PF dummy to test point TP-1. Generator ground lead to the receiver chassis.	Exactly 10.7MHz (400Hz, 30%, AM modulated)	Tuning gang fully closed. (maximum capacity)	Connect VTVM between test point TP-6 and chassis ground.	Detune T12 and T13 Tune T9, T7, T5, T4 and T3 for maximum indication.
2	Same as step 1	Exactly 10.7MHz (unmodulated)	Same as step 1	See NOTE B	See NOTE B.
3	Connect signal generator through a 75 ohm resistor including output impedance of signal generator to the telescopic rod antenna. Ground lead to the receiver chassis.	Exactly 88MHz (400Hz, 30%, FM modulated)	88MHz	Adjust for maximum output on speaker voice coil lugs.	Adjust the FM oscillator coil (L12), and then adjust the FM RF coil (L11, L5).
4	Same as step 3	Exactly 108MHz (400Hz, 30%, FM modulated)	108MHz	Same as step 3	Adjust the FM oscillator trimmer (C9), and then adjust the FM RF trimmer (C8, C7).
5	Repeat steps 3 and 4 until no further improvement can be made.				

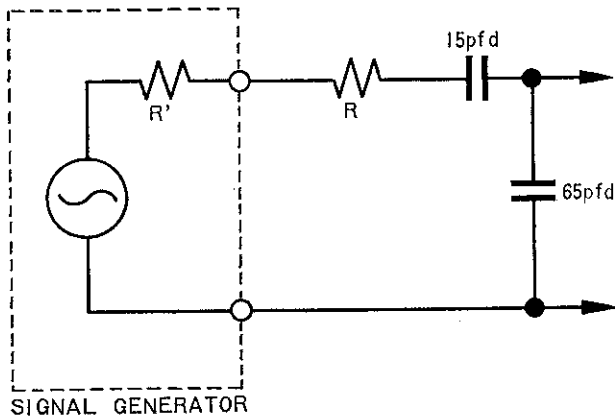
NOTE B

- 1) Connect VTVM (0.1 volt range DC scale) between test point TP-3 and chassis ground.
- 2) Adjust T13 for 0 volt.
- 3) Change signal generator frequency 10.7MHz+100kHz and -100kHz approx.
- 4) Adjust T12 for balanced peaks. Peak separation should be approx. 200kHz.

CAR ANT. ADJUSTMENT

(In case of car use, set the switch (SW6) to "Car (2)" position.)

Signal generator				Receiver		Adjustment
Step	Band	Connection to receiver	Input signal frequency	Dial setting	Remarks	
1	MW	Use radiation loop. Loop of several turns of wire, or place generator lead close to receiver for adequate signal pickup. Connect generator output to one end of this wire.	Exactly 600kHz. (400Hz, 30%, AM modulated.)	600kHz	Adjust for maximum output on speaker voice coil lugs.	Adjust the MW antenna coil (L14, L202). (See NOTE A)
2	MW	Same as step 1	Exactly 1400kHz. (400Hz, 30%, AM modulated.)	1400kHz	Same as step 1	Adjust the MW antenna trimmer (C21, C203). (See NOTE A)
3	MW	Repeat steps 1 and 2 until no further improvement can be made.				
4	LW	Same as step 1	Exactly 180kHz. (400Hz, 30%, AM modulated.)	180kHz	Same as step 1	Adjust the LW antenna coil (L13, L201). (See NOTE A)
5	LW	Same as step 1	Exactly 350kHz. (400Hz, 30%, AM modulated.)	350kHz	Same as step 1	Adjust the LW antenna trimmer (C22, C204). (See NOTE A)
6	LW	Repeat steps 4 and 5 until no further improvement can be made.				



CAR ANT. JACK
 $(R = 80 - R')$
 R' = out put impedance
of signal generator

CAR ANT. DUMMY

Figure 3

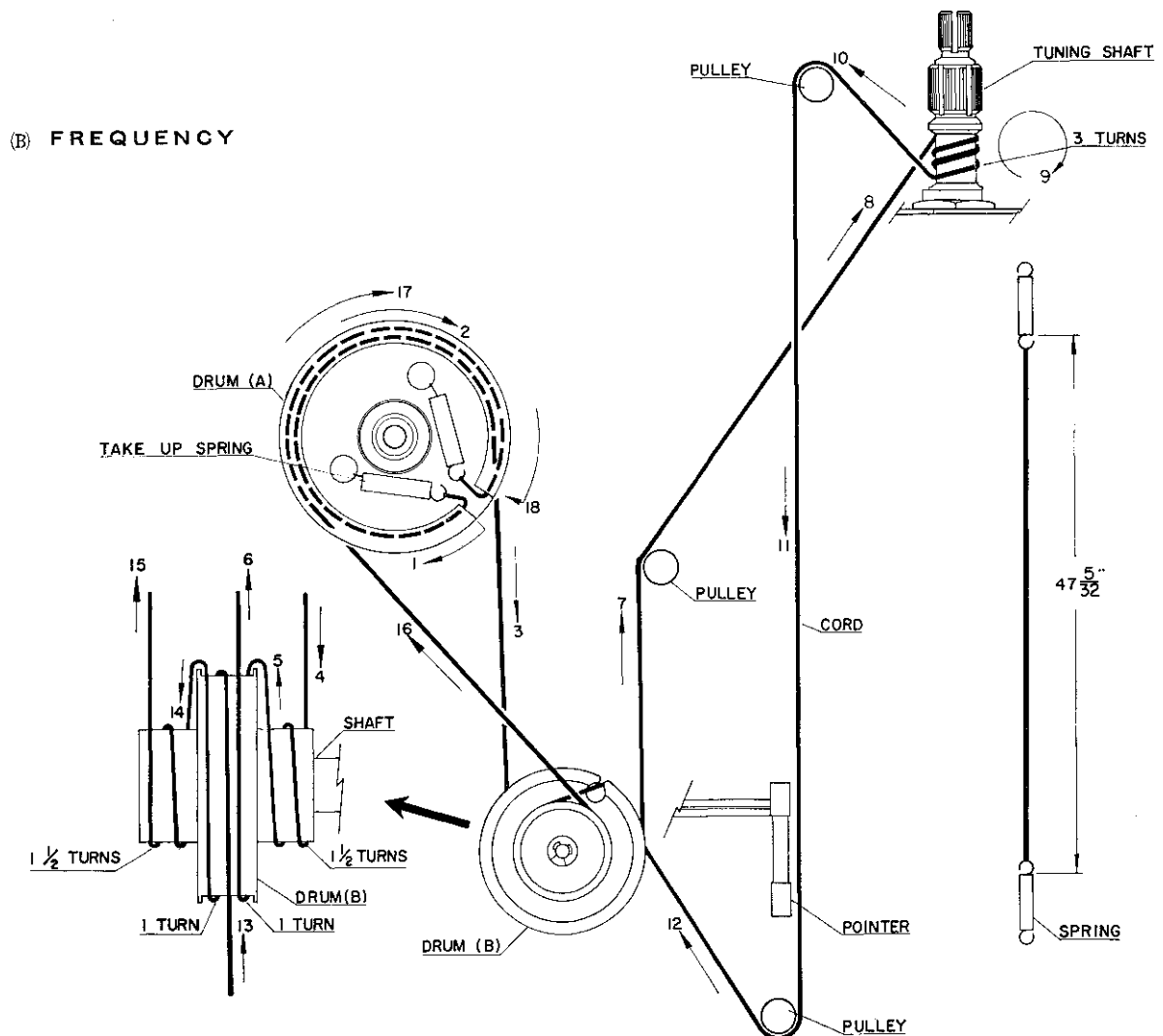
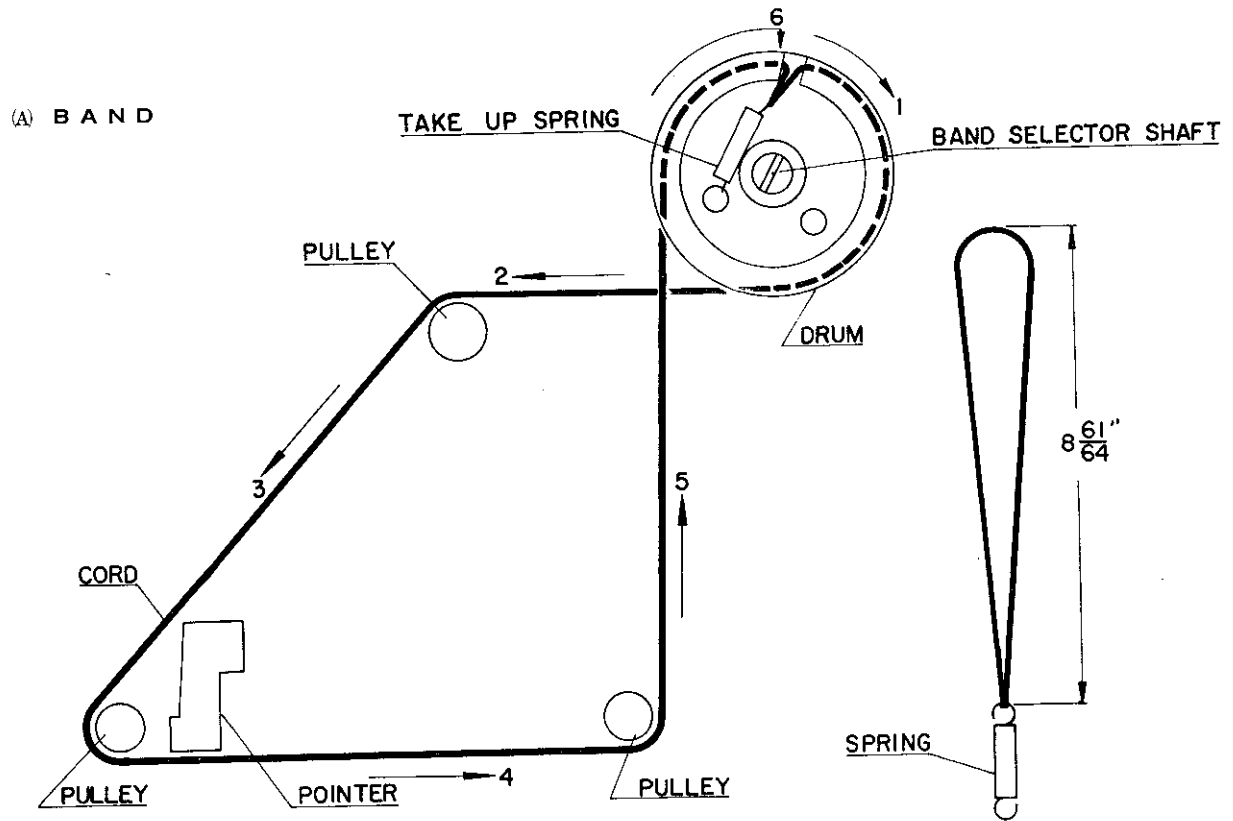


Figure 4 DIAL CORD STRINGING

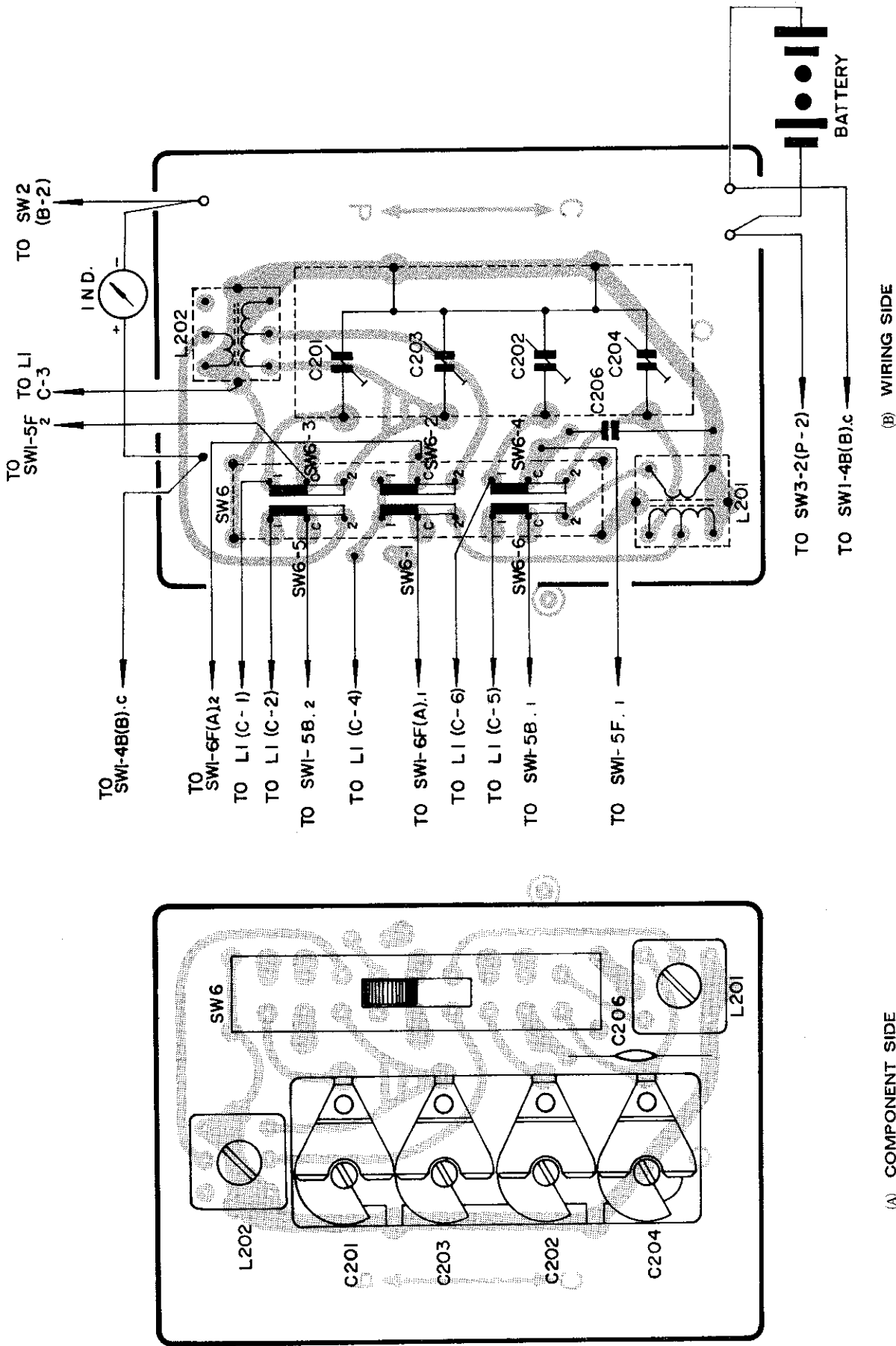
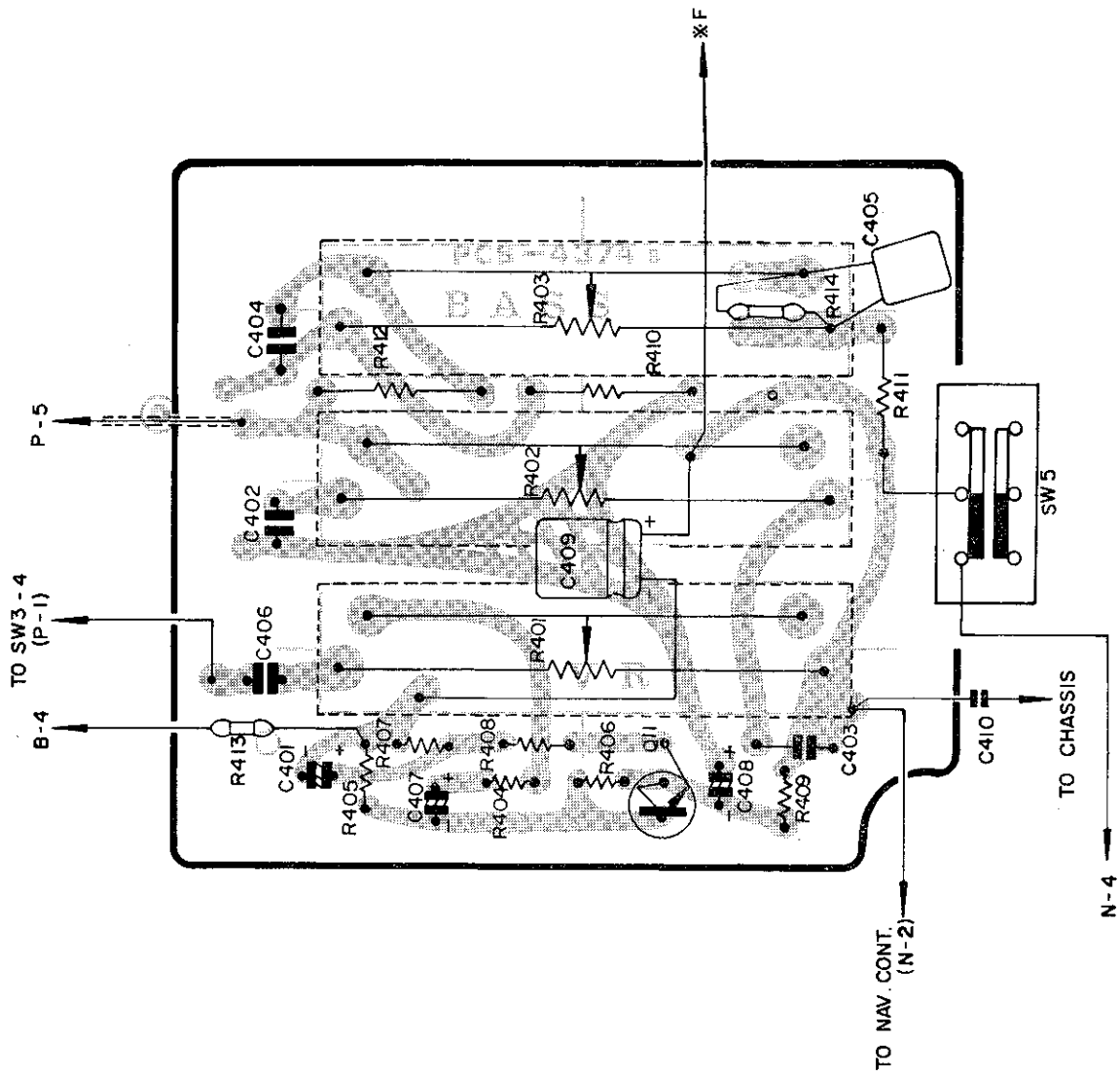
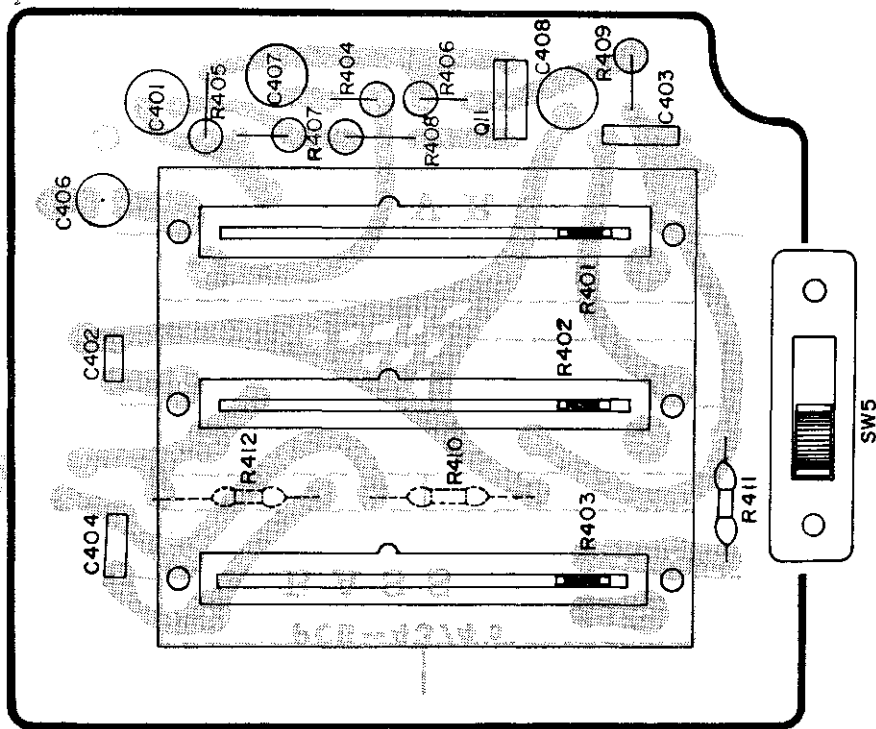


Figure 5 CAR-PORTABLE SELECTOR BOARD

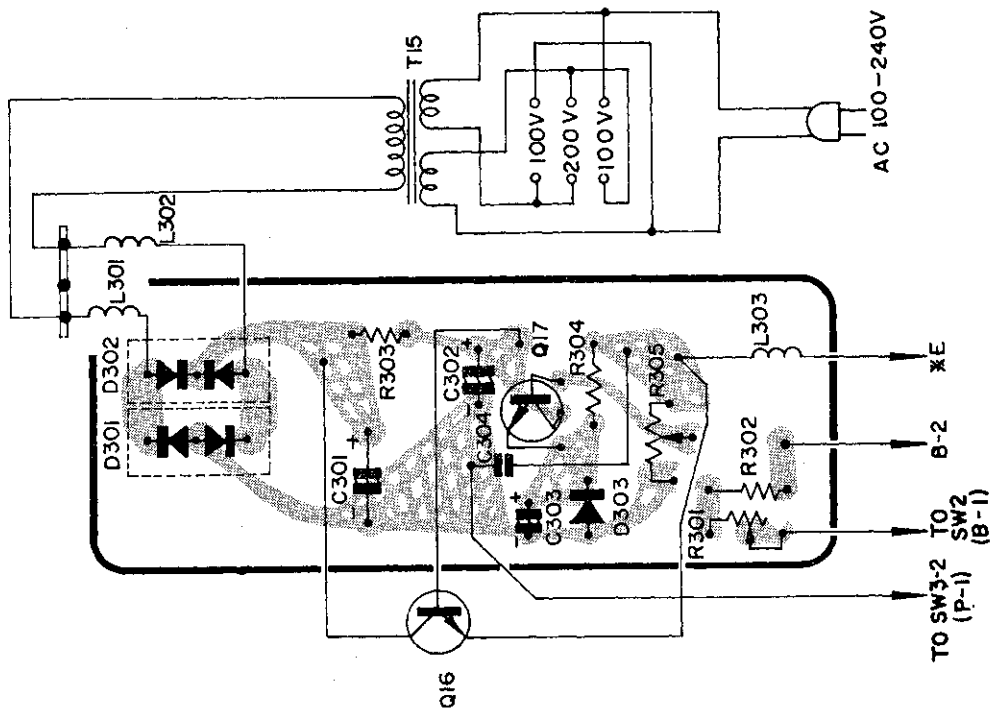


(B) WIRING SIDE

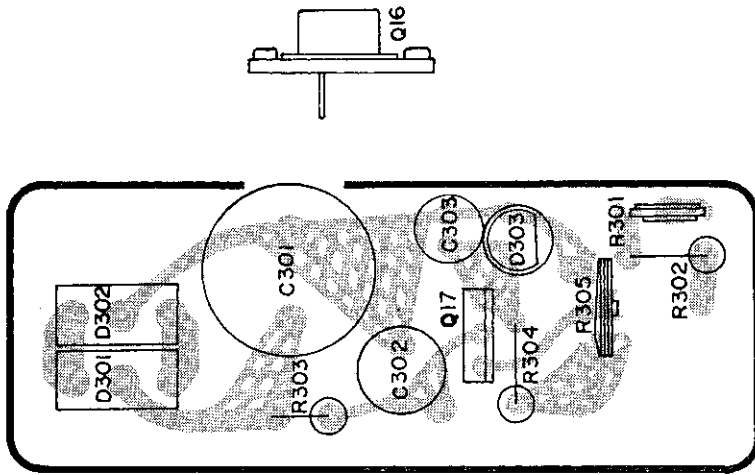


(A) COMPONENT SIDE

Figure 6 CONTROLS BOARD



(A) COMPONENT SIDE



(B) WIRING SIDE

Figure 7 POWER SUPPLY BOARD

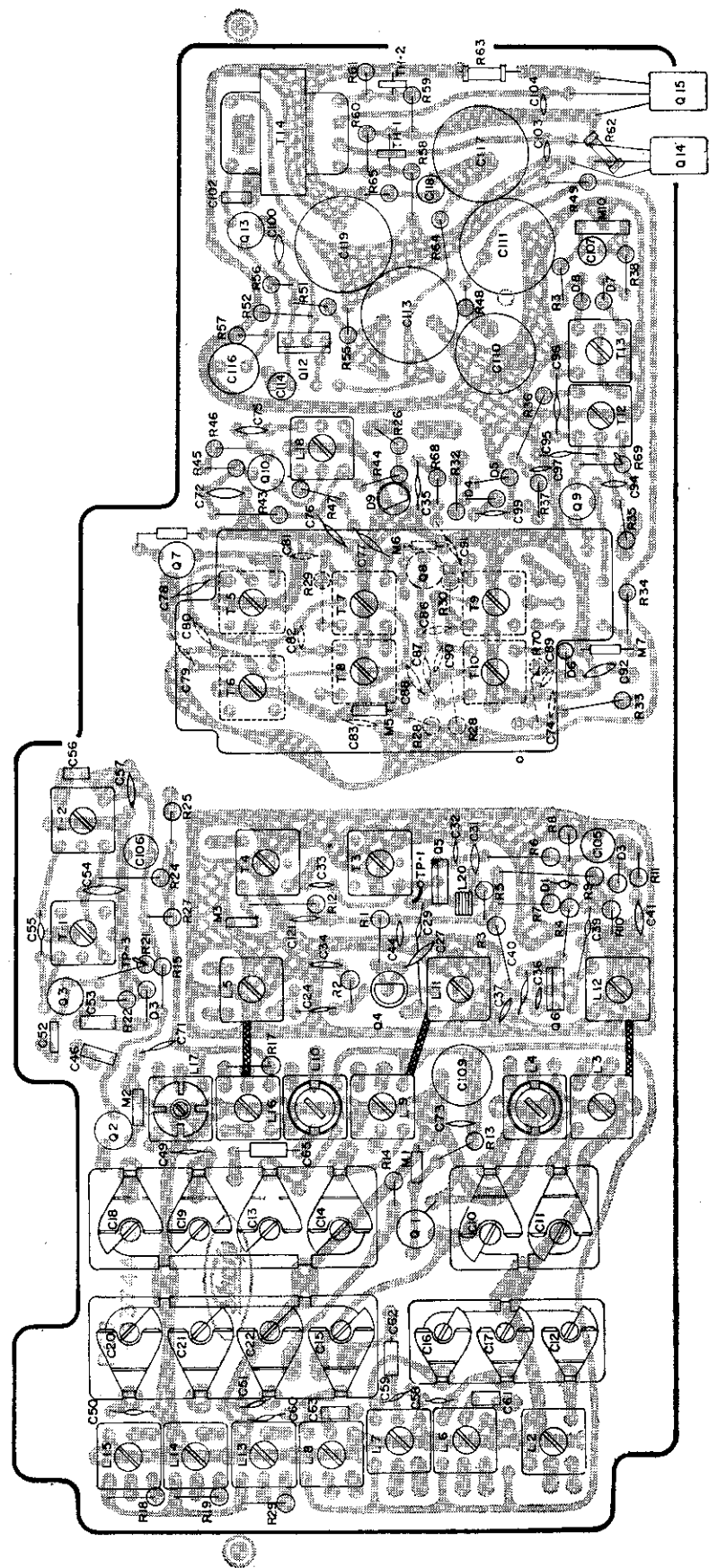


Figure 8 COMPONENT SIDE OF AUDIO BOARD

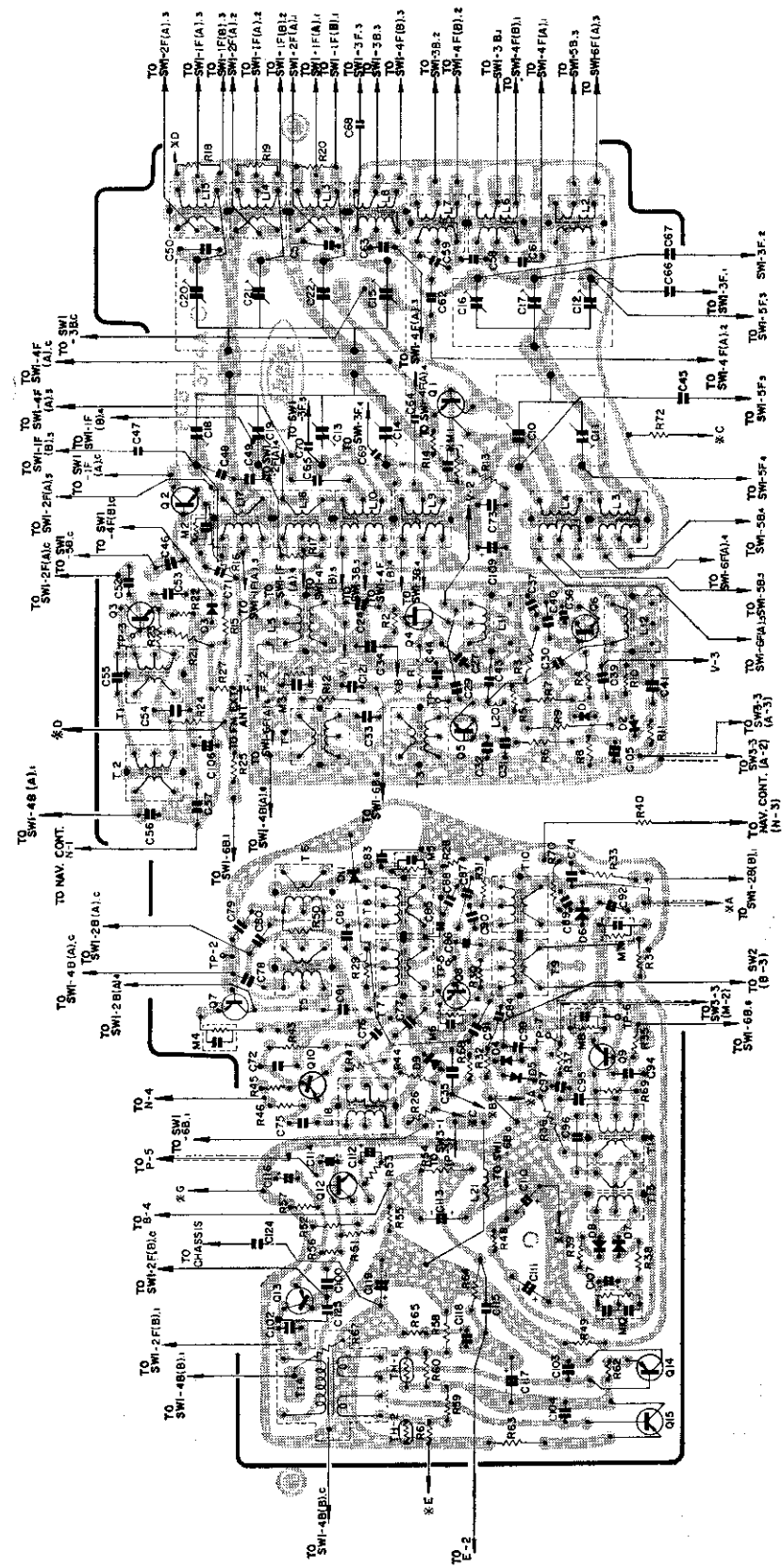


Figure 9 WIRING SIDE OF AUDIO BOARD

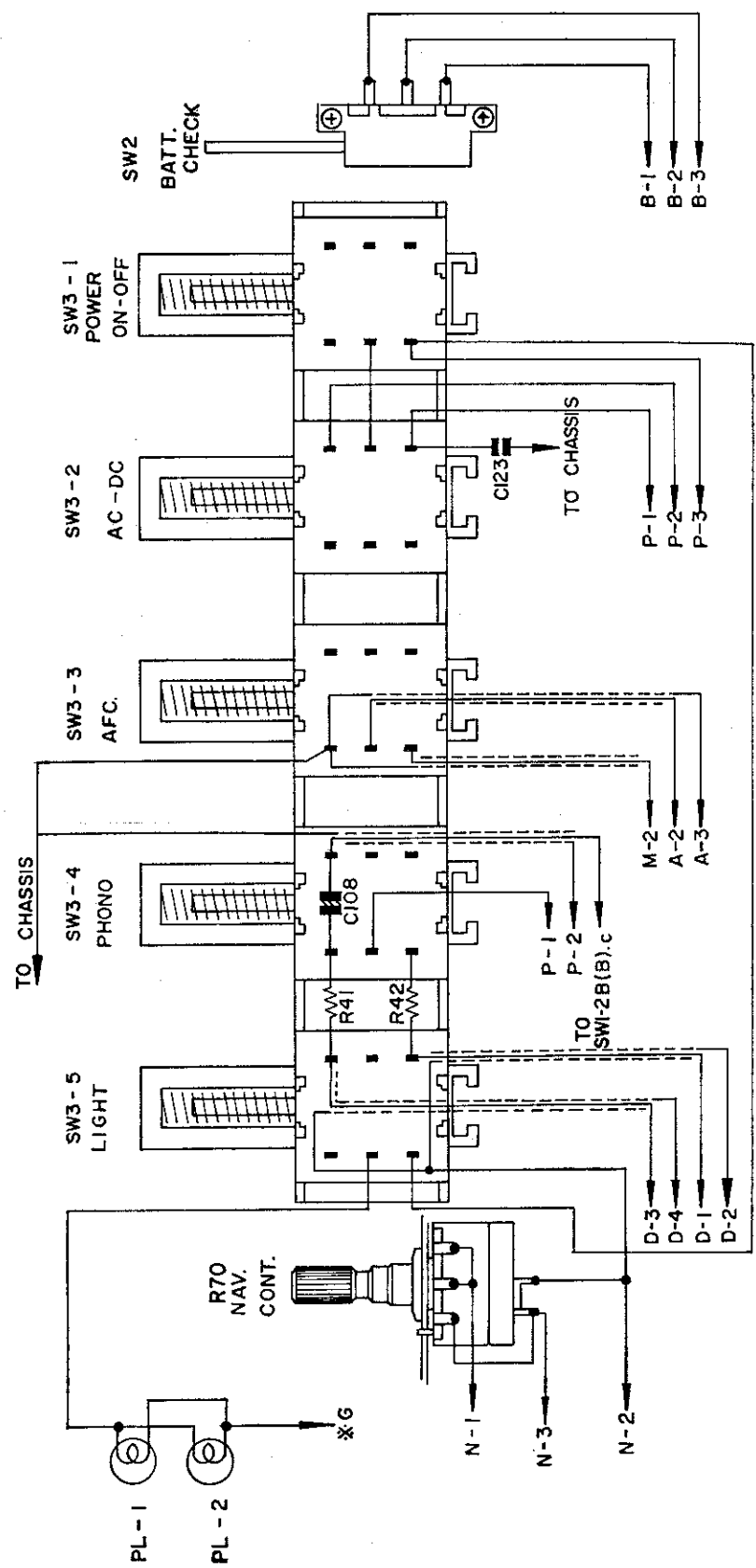


Figure 10 PUSH-SWITCH

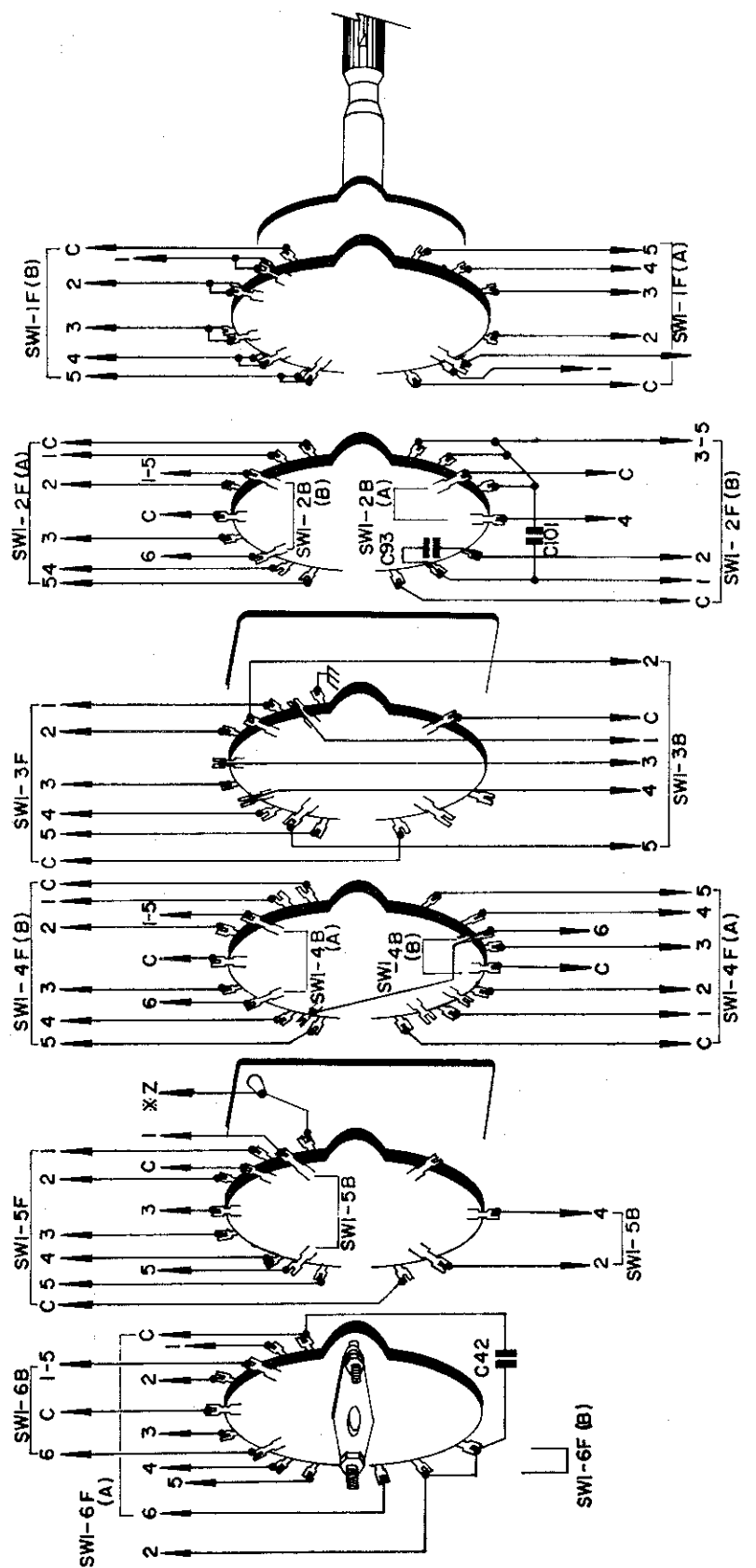


Figure 11 BAND SELECTOR SWITCH

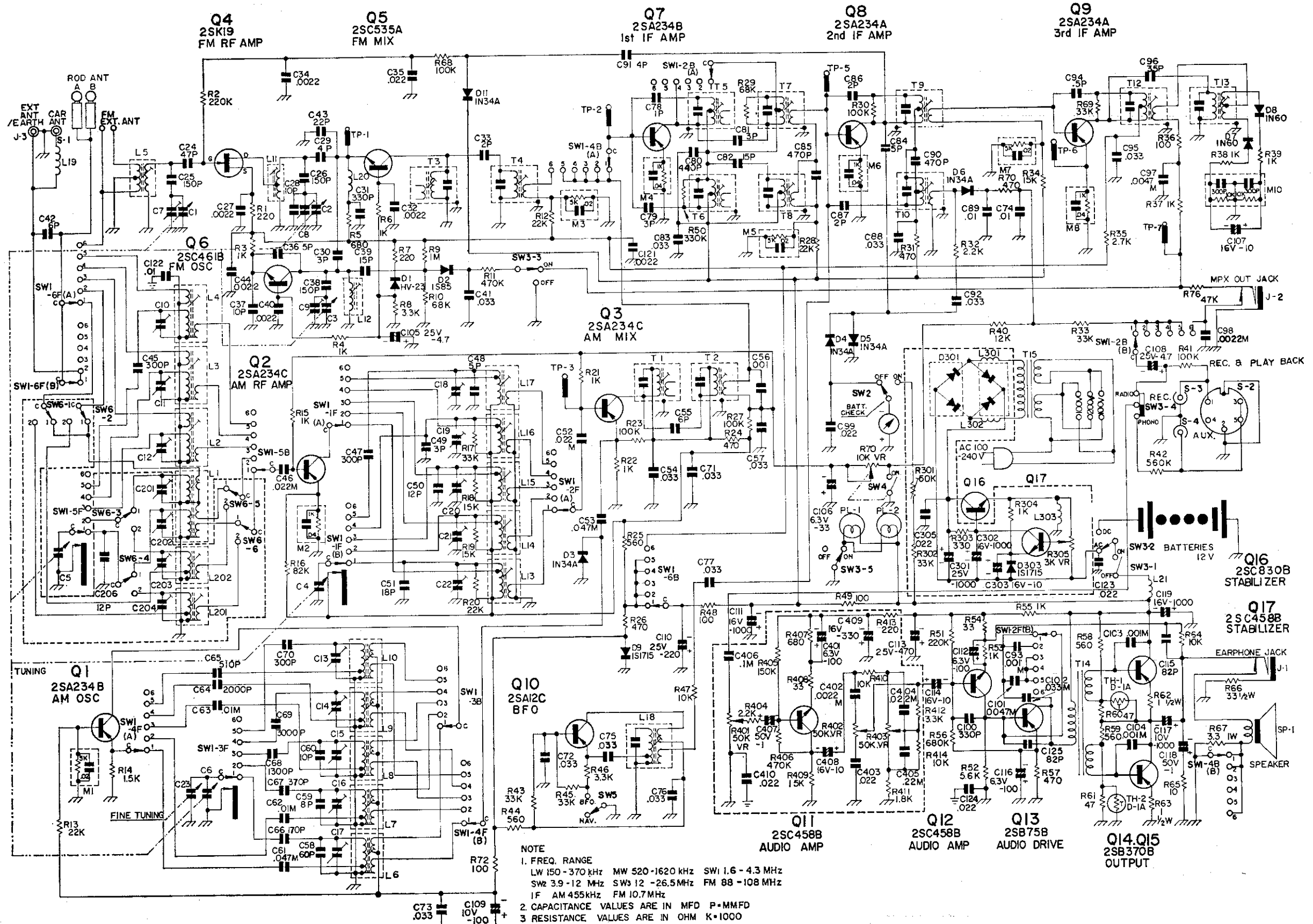


Figure 12 SCHEMATIC DIAGRAM

PARTS LIST

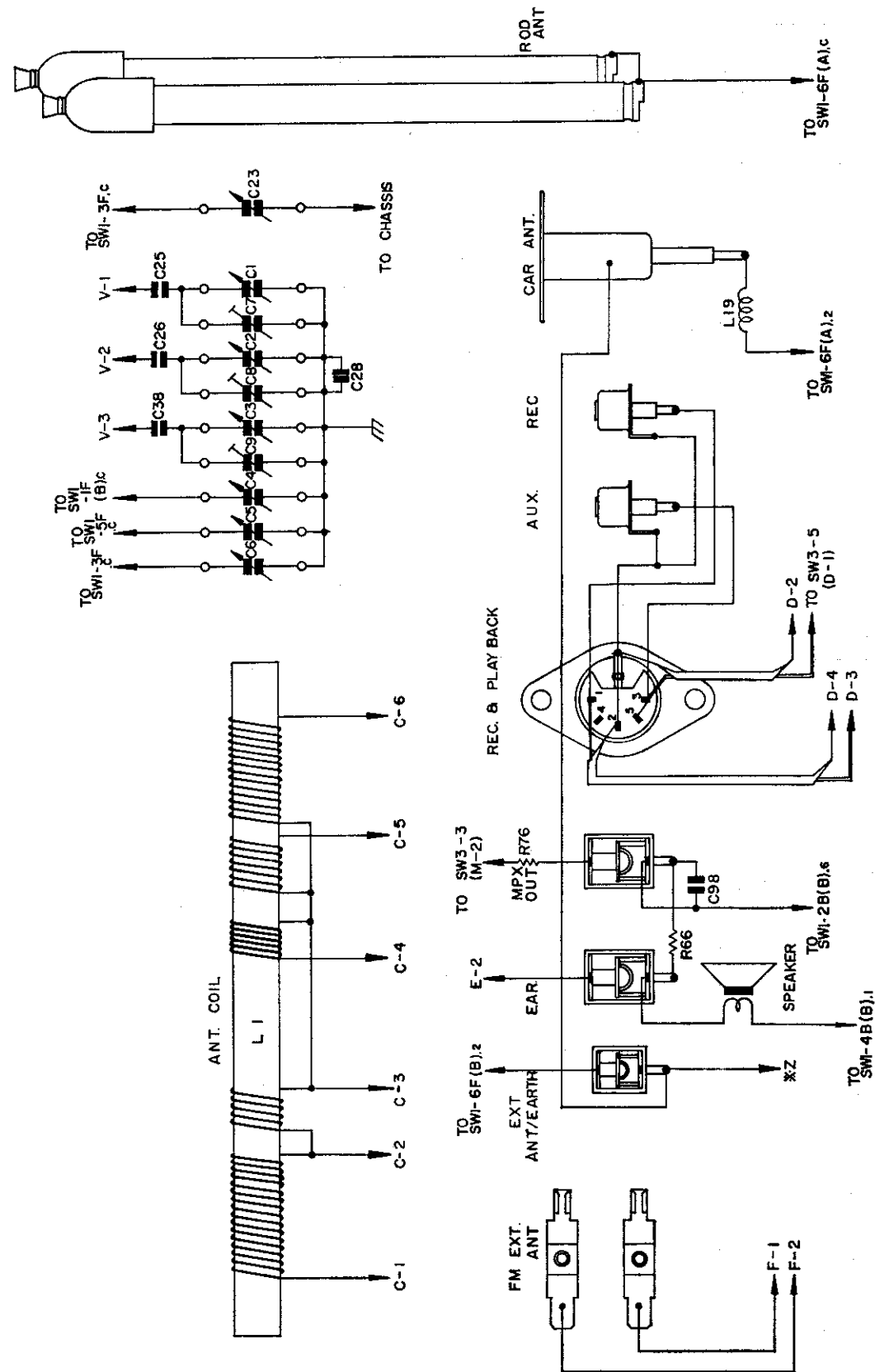


Figure 13 CONNECTING DIAGRAMS

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
RESISTORS					
(Unless otherwise specified resistors are 1/4W, 10% carbon type)					
R1, R7	1545222121	220 ohm	(1/4SU-220K)		
R2, R51	1545222421	220K ohm	(1/4SU220KK)		
R3, R4, R6, R15, R22, R37, R38, R39, R55, R304	1545210221	1K ohm	(1/4SU-1KK)		
R5, R407	1545268121	680 ohm	(1/4SU-680K)		
R8, R46	1545233221	3.3K ohm	(1/4SU3.3KK)		
R9	1545210521	1Meg ohm	(1/4SU-1MK)		
R10, R29	1545268321	68K ohm	(1/4SU-68KK)		
R11, R406	1545247421	470K ohm	(1/4SU470KK)		
R12, R13, R20, R28	1545222321	22K ohm	(1/4SU-22KK)		
R14	1545215221	1.5K ohm	(1/4SU1.5KK)		
R16	1544282321	82K ohm	(1/4SA-82KK)		
R17, R43, R45, R302	1545233321	33K ohm	(1/4SU-33KK)		
R18, R19, R34, R409	1545215321	15K ohm	(1/4SU-15KK)		
R21, R53	1544210221	1K ohm	(1/4SA-1KK)		
R23, R41	1544210421	100K ohm	(1/4SA100KK)		
R24, R26, R31, R57, R70	1545247121	470 ohm	(1/4SU-470K)		
R25, R44, R58, R59	1545256121	560 ohm	(1/4SU-560K)		
R27, R30, R68	1545210421	100K ohm	(1/4SU100KK)		
R32, R404	1545222221	2.2K ohm	(1/4SU2.2KK)		
R33, R69	1544233321	33K ohm	(1/4SA-33KK)		
R35	1545227221	2.7K ohm	(1/4SU2.7KK)		
R36, R48, R49	1545210121	100 ohm	(1/4SU-100K)		
R40	1545212321	12K ohm	(1/4SU-12KK)		
R42	1544256421	560K ohm	(1/4SA560KK)		
R47, R64	1545210321	10K ohm	(1/4SU-10KK)		
R50	1544233421	330K ohm	(1/4SA330KK)		
R52	1545256221	5.6K ohm	(1/4SU5.6KK)		
R54	1545233021	33 ohm	(1/4SU-33K)		
R56	1545268421	680K ohm	(1/4SU680KK)		
R60, R61	1545247021	47 ohm	(1/4SU-47K)		
R62, R63	1641310822	1 ohm, 1/2W, 10%, Resin	(1/2LL-1K)		
R65	1545210021	10 ohm	(1/4SU-10K)		
R66	1641333322	33 ohm, 1/2W, 10%, Resin	(1/2LL-33K)		
R67	1641333824	3.3 ohm, 1W, 10%, Resin	(1LL-3.3K)		
R72	1544210121	100 ohm	(1/4SA-100K)		
R76	1544247321	47K ohm	(1/4SA-47KK)		
R303	1545233121	330 ohm	(1/4SU-330K)		
R405	1545215421	150K ohm	(1/4SU150KK)		
R408	1545233021	33 ohm	(1/4SU-33K)		
R410, R414	1544210321	10K ohm	(1/4SA-10KK)		
R411	1544218221	1.8K ohm	(1/4SA1.8KK)		
R412	1544233221	3.3K ohm	(1/4SA3.3KK)		
R413	1544222121	220 ohm	(1/4SA-220K)		
CAPACITORS					
C1, C2, C3, C4, C5, C6, C7, C8	1560220700	Variable Tuning Gang with Trimmer	(XVC-207)		
C9	1560270200	Trimmer	(TO-702)		
C10, C11	1560283300	Trimmer	(TO-833)		
C12, C16, C17	1560283200	Trimmer	(TO-832)		
C13, C14, C15, C18, C19, C20, C21, C22, C201, C202, C203, C204	1560283400	Trimmer	(TO-834)		
C23	1560200200	Fine Tuning	(VC-2)		
C24	1552347817	47PF, 50V, 5%, Discap	(DS-5-478J)		
C25, C26, C38	1552315717	150PF, 50V, 5%, Discap	(DS-5-157J)		
C27, C32, C34, C40, C44, C121	1552613300	.0022MFD, 50V, Discap	(D-5-226Z)		
C28, C37, C60	1552210827	10PF, 50V, .5PF, Discap	(D-5-108D)		
C29, C91	1552240917	4PF, 50V, .25PF, Discap	(D-5-409C)		
C30, C49, C79, C81	1552230917	3PF, 50V, .25PF, Discap	(D-5-309C)		
C31, C100	1552333717	330PF, 50V, 5%, Discap	(DS-5-337J)		
C33, C86, C87	1552220927	2PF, 50V, .5PF, Discap	(D-5-209D)		
C35, C99, C123, C124, C305, C410	1552614700	.022MFD, 50V, Discap	(D-5-225Z)		
C36, C48, C84	1552250917	5PF, 50V, .25PF, Discap	(D-5-509C)		
C39, C82	1552215817	15PF, 50V, 5%, Discap	(D-5-158J)		
C41, C54, C57, C71, C72, C73, C75, C76, C77, C83, C88, C92, C95	1552618300	.033MFD, 50V, Discap	(D-5-335P)		
C42, C55	1552260917	6PF, 50V, .25PF, Discap	(D-5-609C)		
C43	1552222817	22PF, 50V, 5%, Discap	(D-5-228J)		
C45, C47, C70	1558230717	300PF, 50V, 5%, Styrol	(S-5-307J)		
C46, C52, C403, C404	1556222537	.022MFD, 50V, 20%, Mylar	(ML-5-225M)		
C50, C206	1552212817	12PF, 50V, 5%, Discap	(D-5-128J)		
C51	1552218817	18PF, 50V, 5%, Discap	(D-5-188J)		
C53, C61	1556247537	.047MFD, 50V, 20%, Mylar	(ML-5-475M)		
C56	1552210637	.001MFD, 50V, 20%, Discap	(D-5-106M)		
C58	1552360817	60PF, 50V, 5%, Discap	(D-5-608J)		
C59	1552280817	8PF, 50V, .5PF, Discap	(D-5-809D)		
C62, C63	1556210537	.01MFD, 50V, 20%, Mylar	(ML-5-105M)		
C64	1558220617	.002MFD, 50V, 5%, Styrol	(S-5-206J)		
C65	1558251717	510PF, 50V, 5%, Styrol	(S-5-517J)		
C66	1552317717	170PF, 50V, 5%, Discap	(DS-5-177J)		
C67	1558237727	370PF, 50V, 10%, Styrol	(S-5-377K)		

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
C68	1558213617	.0013MFD, 50V, 5%, Styrol (S-5-136J)
C69	1558230617	.003MFD, 50V, 5%, Styrol (S-5-306J)
C74, C89	1552210537	.01MFD, 50V, 20%, Discap (D-5-105M)
C78	1552210917	1PF, 50V, .25PF, Discap (D-5-109C)
C80	1552344717	440PF, 50V, 5%, Discap (DS-5-447J)
C85, C90	1552347717	470PF, 50V, 5%, Discap (DS-5-477J)
C93, C103, C104	1556210637	.001MFD, 50V, 20%, Mylar (ML-5-106M)
C94	1552205917	.5PF, 50V, Discap (D-5-059C)
C96	1552235917	3.5PF, 50V, .25PF, Discap (D-5-359C)
C97, C101	1556247637	.0047MFD, 50V, 20%, Mylar (ML-5-476M)
C98	1552222637	.0022MFD, 50V, 20%, Discap (D-5-226M)
C102	1556233537	.033MFD, 50V, 20%, Mylar (ML-5-335M)
C105, C108	1661247325	4.7MFD, 25V, Electrolytic (CU2.5-473R)
C106	1661233211	33MFD, 6.3V, Electrolytic (CU-06-332Q)
C107, C114	1661210213	10MFD, 16V, Electrolytic (CU1.6-102Q)
C109	1661210112	100MFD, 10V, Electrolytic (CU-1-101Q)
C110	1661222115	220MFD, 25V, Electrolytic (CU2.5-221Q)
C111, C117	1661210012	1000MFD, 10V, Electrolytic (CU-1-100Q)
C112, C116, C401	1661210111	100MFD, 6.3V, Electrolytic (CU-06-101Q)
C113	1661247115	470MFD, 25V, Electrolytic (CU2.5-471Q)
C115, C125	1552382817	82PF, 50V, 5%, Discap (DS-5-828J)
C118, C407	1661210327	1MFD, 50V, Electrolytic (CU-5-103R)
C119, C302	1661210013	1000MFD, 16V, Electrolytic (CU1.6-100Q)
C122	1552614300	.01MFD, 50V, Discap (D-5-105Z)
C301	1661210015	1000MFD, 25V, Electrolytic (CU2.5-100Q)
C303, C408	1661210213	10MFD, 16V, Electrolytic (CU1.6-102Q)
C402	1556222637	.0022MFD, 50V, 20%, Mylar (ML-5-226M)
C405	1556222437	.22MFD, 50V, 20%, Mylar (ML-5-224M)
C406	1556210437	.1MFD, 50V, 20%, Mylar (ML-5-104M)
C409	1661233113	330MFD, 16V, Electrolytic (CU1.6-331Q)

PACKAGED CIRCUITS		
M1, M3, M5, M7	1656631500	Capristor, 5K ohm+.02MFD (PRC-315)
M2, M4, M6, M8	1656630600	Capristor, 1K ohm+.04MFD (PRC-306)
M10	1656640300	Capristor, 10Kohm x 2 + 300PF x 2 (PRC-403)

CONTROLS		
R70/SW4	1548286900	10K ohm, Pot., NAV. Control, off-on (8V-869)
R301	1548272300	50K ohm, Pot., Battery Indication Control (8V-723)
R305	1548275500	3K ohm, Pot., Voltage Control (8V-755)
R401	1548285000	50K ohm, Pot., Volume Control (8V-850)
R402	1548285000	50K ohm, Pot., Treble Control (8V-850)
R403	1548285000	50K ohm, Pot., Bass Control (8V-850)

REF. NO.	PART NO.	DESCRIPTION
SEMICONDUCTORS		
Q1	1522214821	Transistor, AM Oscillator (2SA234@)
Q2	1522214831	Transistor, AM RF Amplifier (2SA234@)
Q3	1522214831	Transistor, AM Mixer (2SA234@)
Q4	1527217305	Transistor, FM RF Amplifier (2SK19)
Q5	1522222710	Transistor, FM Mixer (2SC535@)
Q6	1527210721	Transistor, FM Oscillator (2SC461@)
Q7	1522214821	Transistor, 1st IF Amplifier (2SA234@)
Q8	1522214811	Transistor, 2nd IF Amplifier (2SA234@)
Q9	1522214811	Transistor, 3rd IF Amplifier (2SA234@)
Q10	1522210131	Transistor, BFO (2SA12@)
Q11	1522223720	Transistor, Audio Amplifier (2SC458@)
Q12	1522223720	Transistor, Audio Amplifier (2SC458@)
Q13	1522211221	Transistor, Audio Driver (2SB75@)
Q14, Q15	1522219121	Transistor, Output (Matched Pair) (2SB370@)
Q16	1527217921	Transistor, Stabilizer (2SC830@)
Q17	1522223720	Transistor, Stabilizer (2SC458@)
D1	1527270204	Diode, FM Bias Stabilizer (HV-23)
D2	1522275501	Diode, FM AFC (1S85)
D3	1522270101	Diode, AM Oscillator Control (1N34A)
D4	1522270101	Diode, Detector Tuning Eye (1N34A)
D5	1522270101	Diode, Detector Tuning Eye (1N34A)
D6	1522270101	Diode, AM Detector (1N34A)
D7, D8	1522270208	Diode, FM Detector (Matched Pair) (1N60)
D9	1527271301	Diode, Stabilizer (1S1715)
D11	1522270101	Diode, FM AVC (1N34A)
D303	1527270301	Diode, Stabilizer (1S1715)
S R-1	1522260500	Power Rectifier (SI-RECT-53)
S R-2	1522261300	Power Rectifier (SI-RECT-59)
T H-1	1522280101	Thermistor, AOC (D-1A)
T H-2	1522280101	Thermistor, AOC (D-1A)

COILS AND TRANSFORMERS		
L1	1508226601	Coil, LW & MW Antenna (8L-266A01)
L2	1507229600	Coil, SW1 Antenna (7L-296A)
L3	1508225300	Coil, SW2 Antenna (8L-253A)
L4	1508225400	Coil, SW3 Antenna (8L-254A)
L5	1508210200	Coil, FM Antenna (8L-102A)
L6	1507201400	Coil, LW Oscillator (7L-014B)
L7	1507201500	Coil, MW Oscillator (7L-015B)

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
L8	1507201600	Coil, SW1 Oscillator (7L-016B)
L9	1507201700	Coil, SW2 Oscillator (7L-017B)
L10	1507201800	Coil, SW3 Oscillator (7L-018B)
L11	1507264500	Coil, FM RF (7L-645C)
L12	1507201900	Coil, FM Oscillator (7L-019B)
L13	1507254900	Coil, LW RF (7L-549C)
L14	1507255000	Coil, MW RF (7L-550C)
L15	1507255100	Coil, SW1 RF (7L-551C)
L16	1507255200	Coil, SW2 RF (7L-552C)
L17	1507264400	Coil, SW3 RF (7L-644C)
L18	1507255400	Coil, BFO (7L-554C)
L19	1507292000	Coil, Car Loading (7L-920)
L20	1507295400	Coil, Emitter Choke (7L-954)
L21, L301, L302, L303	1507299500	Coil, Power Choke (7L-995)
L201	1507254900	Coil, LW Car Antenna (7L-549C)
L202	1508210900	Coil, MW Car Antenna (8L-109A)
T1, T2	1507278800	Transformer, 1st AM IF (7IF-788)
T3, T4	1507287400	Transformer, 1st FM IF (7IF-874)
T5, T7	1507274500	Transformer, 2nd FM IF (7IF-745)
T6	1507289800	Transformer, 2nd AM IF (7IF-898)
T8	1507276500	Transformer, 2nd AM IF (7IF-765)
T9	1507274500	Transformer, 3rd FM IF (7IF-745)
T10	1507273400	Transformer, 3rd AM IF (7IF-734)
T12	1507282900	Transformer, Discriminator (7IF-829)
T13	1507283000	Transformer, Discriminator (7IF-830)
T14	1516282900	Transformer, Input (6T-829)
T15	1515281400	Transformer, Power (5T-814)

MISCELLANEOUS		
11033034	Cabinet, Front Assembly (3CAB-4374A)	
11122731	Cabinet, Back (U-BUTA4374)	
11092491	Knob, Band Selector (9K-491)	
11092492	Knob, Fine Tuning (9K-492)	
11092493	Knob, Tuning (9K-493)	
11092494	Knob, NAV. Control (9K-494)	
11092495	Knob, Power, AC, AFC, Phono, Light (9K-495)	
11092496	Knob, Battery Check (9K-496)	
11092456	Knob, Bass, Treble, Volume Control (9K-456)	
11202874	Pointer, Dial Frequency (SISIN4374A)	
11202875	Pointer, Dial Band (SISIN4374B)	
11213788	Dial (DIAL-4374)	
11232867	Backplate, Dial (DIAL-P4374)	
11243770	Indication Plate, Map (IND-P4374A)	
1133237058	Decoration Metal, Front (XDECM4374A)	
11332378	Decoration Metal, Top & Under (DEC-M4374C)	
1133237958	Decoration Metal, Center (DEC-M4374D)	
11352729	Emblem, SHARP (DEC-B4374A)	

REF. NO.	PART NO.	DESCRIPTION
11352730	Decoration Badge, Multi Band Deluxe (DEC-B4374B)	
11302915	Punching Metal, Speaker (PUNCH4374)	
11362718	Decoration Plate, Cabinet Assembly (DEC-P4374)	
1150240532	Leg (LEG-405)	
11933309	Cover, Battery (B-BUTA4374)	
1193394732	Holder, Socket (SO-HOL4374)	
11933335	Cover, Map (COVER-4374)	
11933336	Case, Map (CASE-4374)	
11933748	Cover, Terminal Compartment (S-BUTA4374)	
1193333900	Holder, Switch (SW-HOL4374)	
1143260153	Angle, Speaker (SP-ANGLE1)	
1322220100	Lug Plate (LG-201)	
1193257358	Spring, Map Case (BANE-4374A)	
1193257451	Spring, Socket Cover (BANE-4374B)	
1193233732	Case, Fuse (FUSE-CASEA)	
1193233832	Cover, Fuse Case (FUSE-CASEB)	
1170277232	Felt (FELT-772)	
11822704	Handle, Assembly (HANDLE4374)	
1193216232	Rubber Cushion, Speaker (GOMU-4374A)	
1193216332	Rubber Cushion, Meter (GOMU-4374B)	
1303238200	Printed Circuit Board, Audio Circuit (PCB-4374A)	
1303238300	Printed Circuit Board, Controls Circuit (PCB-4374B)	
1324210200	Holder, Fuse (110V) (FH-102)	
1324212900	Holder, Fuse (220V) (FH-129)	
1330280851	Radiator (HON-P4137A)	
1333272400	Holder, Antenna Core (CH-724)	
1343212453	Bracket, Varicon Retaining (XVC-A029A)	
1343236053	Bracket, Switch Retaining (XSW-A4374)	
1343204553	Bracket, Slide Volume (VR-A4374)	
1345275853	Bracket, Printed Circuit Board (XPCBA4374A)	
1345275953	Bracket, Printed Circuit Board (XPCBA4374B)	
1353278100	Drum, Double (DP-781)	
1353274500	Drum, Dial Cord Drive (DP-745)	
1385270500	Dial Cord (HARIITO)	
1343205156	Bracket, Pilot Lamp (PL-A4374)	
1385550150	Spring (SPRING)	
1393239700	Pipe, Battery (B-PIPE397)	
1393299656	Terminal Battery (+) (B-TANS1)	
1393252856	Spring, Terminal Battery (-) (SPR-827)	
SW1	1531226100	Switch, Band Selector (X2S-61)
SW2	1533262000	Switch, Battery Check (36S-20)
SW3	1533262100	Switch, Power, AC, AFC, Phono, Light Selector (36S-21)

PARTS LIST

	REF. NO.	PART NO.	DESCRIPTION
C0	SW4/R70	1548286900	10K ohm, Pot., NAV. Control, off-on (8V-869)
C0	SW5	1531242700	Switch, NAV.-BFO Selector (X4S-27)
C0	SW6	1533243000	Switch, Car-Portable Selector (34S-30)
C0	J1, J2	1530213500	Jack, Earphone, MPXOUT (J-135)
C0	J3	1530213300	Jack, AM Ext. Antenna (J-133)
C0		1587202600	Wire, Antenna (ANT-WIRE26)
C0	SP1	1570247800	Speaker (1910H-45A)
C0		1571208700	Telescopic Rod Antenna (XROD-ANT87)
C0	PL1, PL2	1593251400	Pilot Lamp (3PL-514)
C1	S1	1323293000	Socket, Car Ant. (SO-930)
C1	S2	1320297100	Socket, DIN (SO-971)
C1	S3, S4	1320292300	Socket, AUX., REC. (SO-923)
C1		1593240100	Earphone (3MR-401)
C1		1323211800	Plug (PG-118)
C1		1586272590	AC Cord (ACC-725)
C1		1593230800	Fuse, 110V (3FUSE0.2A)
C4		1590231700	Fuse, 220V (FUSE0.2A)

M1
M5
M2
M6
M1

R7
R3
R3
R4
R4
R4