



**SERVICE REPAIR PARTS LIST
MODEL SX-117**

**ERRATA SHEET
MODEL SX-117**

Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbols	Description	Hallicrafters Part Number	Schematic Symbols	Description	Hallicrafters Part Number
CAPACITORS			CAPACITORS (CONT)			COILS AND TRANSFORMERS			SWITCHES		
C1	620 μ F, 5%, 300V, Plastic Mica	481-162621	C83	10 μ F, 5%, 300V, Plastic Mica	481-132100	L1A&B	Coil, 6-MC Trap	050-000877	S1	Rotary, Wafer, BAND SELECTOR	060-002523
C2	75 μ F, 5%, 300V, Plastic Mica	481-162750	C88	2000 μ F, 5%, 300V, Plastic Mica	481-262202	L2,7	Coil, Shunt (Antenna and Mixer)	051-003496	S2	Rotary, Wafer, NL-CAL	060-002528
C3	Variable, PRESELECTOR	048-000534	C89	1000 μ F, 5%, 300V, Plastic Mica	481-262102	L3,8	Coil, 15-Meter Series (Antenna and Mixer)	051-003494	S3	Rotary, Wafer, CRYSTAL SELECTOR	060-002525
C4,11	470 μ F, 5%, 300V, Plastic Mica	481-162471	C98	25 μ F, 25V, Electrolytic	045-000883	L4,9	Coil, 20-Meter Series (Antenna and Mixer)	051-003495	S4	Rotary, Wafer, SELECTIVITY	060-002511
C5,7,8,9, 12,13,17, 18,19,24, 25,26,27, 29,30,31, 44,54,124	0.01 μ F, +80%, -20%, 500V, Ceramic Disc	047-100224	C107	0.22 μ F, 10%, 200V, Paper Tubular	046-001298-05	L5	Coil, Antenna	051-003498	S5	Rotary, Wafer, FUNCTION (Inc. ON/OFF)	060-002510
C6,10	160 μ F, 5%, 300V, Plastic Mica	481-162161	C108,110	4700 μ F, 5%, 400V, Paper Tubular	046-001312-03	L6	Coil, Mixer	051-003499			
C14,37, 47,50,56, 60,63,64, 73,74,82, 90,99,100, 101,106,121,125	0.02 μ F, +80%, -20%, 500V, Ceramic Disc	047-100242	C109,111	0.01 μ F, 5%, 400V, Paper Tubular	046-001316-03	L10A&B	Coil, Oscillator (10-1 and 80 Meters)	051-003487			
C15	Variable, TUNING	048-000533	C112	0.005 μ F, GMV, 500V, Ceramic Disc	047-100168	L11A&B	Coil, Oscillator (10-2 and 40 Meters)	051-003488			
C16	15 μ F, 5%, 300V, Plastic Mica	481-132150	C113,114	0.01 μ F, 1400V, GMV, Ceramic Disc	047-000752	L12A&B	Coil, Oscillator (10-3 and 15 Meters)	051-003491	Y1	10-4 Meter Band, 36.000 MC	019-002886
C20	56 μ F, 5%, 300V, Plastic Mica	481-162560	C117A,B, & C	60 μ F, 250V: 2 x 80 μ F, 250V, Electrolytic	045-000884	L13A&B	Coil, Oscillator (10-4 and 20 Meters)	051-003490	Y2	10-3 Meter Band, 35.500 MC	019-002885
C21,62, 65,87,95, 103,105	100 μ F, 5%, 300V, Plastic Mica	481-162101	C119,126	0.1 μ F, 10%, 400V, Paper Tubular	046-001329-04	L14	Coil, Oscillator (WWV)	051-003489	Y3	10-2 Meter Band, 35.000 MC	019-002884
C22	68 μ F, 5%, 300V, Plastic Mica	481-162680	RESISTORS*			L15	Coil, RF Choke (22 UH)	053-000659	Y4	10-1 Meter Band, 34.500 MC	019-002883
C23	47 μ F, 5%, 300V, Plastic Mica	481-152470	R1,47	470K ohms	451-252474	L16	Coil, VFO	051-003509	Y5	15-Meter Band, 27.500 MC	019-002882
C28,72,91, 115,116, 120,122,123	0.1 μ F, +80%, -20%, 50V, Ceramic Disc	047-001146	R2,77	180 ohms	451-252181	L17	Coil, RF Choke (1 MH)	053-000580	Y6	20-Meter Band, 20.500 MC	019-002881
C32,33	47 μ F, 10%, 500V, N2200, Ceramic Tubular	479-026470	R3,12,22,29, 45,46,52,62	22K ohms	451-252223	L18	Coil, Peaking	051-003497	Y7	40-Meter Band, 13.500 MC	019-002880
C34	150 μ F, 5%, 300V, Plastic Mica	481-162151	R4,10,13, 17,23,61	1500 ohms	451-252152	L19,25,26	Coil, RF Choke (0.7 MH)	053-000530	Y8	80-Meter Band, 10.000 MC	019-002879
C35,36,52, 57,80,81, 86,92,93, 96,97	0.001 μ F, 20%, 500V, Ceramic Disc	047-100503	R5,8,58,92	100 ohms	451-252101	L20	Coil, RF Choke (2.5 MH)	053-000335	Y9	WWV, 16.000 MC	019-002878
C38	Variable, Trimmer, CAL RESET	044-000565	R6,14,24,50	100K ohms	451-252104	L21	Coil, T-NOTCH (Bridge)	051-202270	Y10	1700 KC	019-002961-02
C39	12 μ F, 10%, N750, Ceramic Tubular	491-006120-95	R7,33	1000 ohms	451-252102	L22	Coil, BFO	054-000059	Y11	1600 KC	019-002961-01
C40	51 μ F, 2%, 300V, Plastic Mica	481-151510	R9,15	470 ohms	451-252471	L23,24	Coil, Warping (Crystal Oscillator)	051-003500	Y12,13, 14,15	General Coverage Crystals (Not Supplied)	
C41,42	1000 μ F, 2%, 300V, Plastic Mica	481-261102	R11,20	150 ohms	451-252151	T1,2	Transformer, Variable IF (6.0 MC to 6.5 MC)	050-000869			
C43	24 μ F, 2%, 300V, Plastic Mica	481-151240	R16,53	22K ohms, 1 watt	451-352223	T3,4	Transformer, IF (1650 KC)	050-000788	J1	Connector, LF Antenna	036-100041
C45	18 μ F, 2%, 300V, Plastic Mica	481-131180	R18,30,38, 42,56	1 megohm	451-252105	T5,6,7,8	Transformer, IF (50.75 KC)	050-200735	J2	Connector, Antenna	036-100041
C46	5.6 μ F, 2%, 300V, Plastic Mica	481-131056	R19	Variable, 2 megohms, 30%, 1/4 watt, Factory Gain	025-001957	T9	Transformer, Output	055-000449	J3	Connector, 100-KC Crystal, 5-pin	006-100186
C48,61	30 μ F, 2%, 300V, Plastic Mica	481-151300	R21	Variable, 400 ohms, 2 watts, Meter Zero	025-002121	T10	Transformer, Power	032-000989	J4	Connector, Crystal Oscillator Output	036-100041
C49	7.5 μ F, 2%, 300V, Plastic Mica	481-131075	R25	Variable, 10K ohms, 20%, 1 watt, RF GAIN	025-002120	ELECTRON TUBES AND DIODES			J5	Connector, VFO Output	036-100041
C51	22 μ F, 2%, 300V, Plastic Mica	481-151220	R26,27	270 ohms	451-252271	V1	Electron Tube, type 6DC6; RF Amplifier	090-901328	J6	Connector, PHONES	036-100002
C53	4.7 μ F, \pm 0.5 μ F, 300V, Plastic Mica	481-135047	R28	47 ohms	451-252470	V2	Electron Tube, type 6EA8; First Mixer, Cathode Follower	090-901350	SO1	Socket, VFO Crystal	006-100320
C55,102, 104	22 μ F, 5%, 300V, Plastic Mica	481-152220	R31,39,48, 64,65,74	220K ohms	451-252224	V3	Electron Tube, type 12AT7; Amateur-Band Crystal Oscillator	090-900034	MISCELLANEOUS		
C58	20 μ F, 5%, 300V, Plastic Mica	481-152200	R32,35,37, 40	1200 ohms	451-252122	V4	Electron Tube, type 6BA6; 6-MC to 6.5-MC IF Amplifier	090-901112	F1	Fuse, 1 Ampere, 3AG, Slow-Blow Type	067-010598
C59	120 μ F, 5%, 300V, Plastic Mica	481-162121	R34,43	47K ohms	451-252473	V5	Electron Tube, type 6BE6; Second Mixer	090-901124		Bracket, Meter	076-000986
C66,67,76, 77	390 μ F, 5%, 300V, Plastic Mica	481-162391	R36,41,49, 81,82	4700 ohms	451-252472	V6	Electron Tube, type 6EA8; VFO, Cathode Follower	090-901350		Clip, Coil Mounting	076-100682
C68,78,118	2.2 μ F, 10%, Gimmick	047-200403-04	R44,70	330 ohms	451-252331	V7	Electron Tube, type 6DC6; 1650-KC IF Amplifier	090-901328		Clip, Spring	077-002158
C69,84,85	220 μ F, 5%, 300V, Plastic Mica	481-162221	R51	2200 ohms	451-252222	V8	Electron Tube, type 6EA8; Third Mixer, SSB-Switching Crystal Oscillator	090-901350		Core, Coil (L19,25)	016-201072
C70,71	7500 μ F, 5%, 500V, Silver Mica	470-422752	R54	8200 ohms	451-252822	V9	Electron Tube, type 6BA6; 50.75-KC IF Amplifier	090-901112		Foot, Mounting	068-001309
C79,94	0.002 μ F, 500V, Ceramic Disc	047-100395	R55	Variable, 5000 ohms, 20%, 1/4 watt, NOTCH DEPTH	025-201716	V10	Electron Tube, type 6BN8; AM Detector, AVC Amplifier, AVC Rectifier	090-001465		Front Panel	039-100438
			R57	3300 ohms	451-252332	V11	Electron Tube, type 6BE6; Product Detector, BFO	090-901124		Socket, Pilot Light (Y10&11)	006-200873
			R59	39K ohms	451-252393	V12	Electron Tube, type 6GW8; First Audio Amplifier, Audio Output	090-001502		Socket, Pilot Light	086-000626
			R60	270K ohms	451-252274	V13	Electron Tube, type 6EA8; Auxiliary Crystal Oscillator, Cathode Follower (Not Supplied)	090-901350		Socket, Tube, 7-pin miniature	006-001048
			R63	6.8 megohms	451-252685	V14	Electron Tube, type 6AU6; See Repair Parts List for 100-KC Crystal Calibrator	-----		Socket, Tube, 9-pin miniature	006-000913
			R66	390K ohms	451-252394	CR1,2	Diode, Type HD 6225	019-002354		Switch Wafer, Antenna	062-000203
			R67,76	680K ohms	451-252684	CR3,4	Diode, Rectifier, Silicon	027-000306		Switch Wafer, Mixer	062-000204
			R68,90	10K ohms	451-252103					Terminal Board, Antenna (5 Connection)	088-002442
			R69	15K ohms	451-252153					Window, Dial	022-000696
			R71	68K ohms	451-252683						
			R75	10 megohms	451-252106						
			R78	12K ohms	451-252123						
			R79	120 ohms, 1 watt	451-352121						
			R80	47 ohms, 1 watt	451-352470						
			R84,86	220 ohms	451-252221						
			R85,87	390 ohms	451-252391						
			R88	Variable, 500K ohms, 20%, 1/8 watt, AF GAIN	025-002119						
			R89	33 ohms, 2 watts	451-652330						
			R91	350 ohms, 10 watts, Wire Wound	453-062351						

* All RESISTORS are carbon type, 1/2 watt, 10% unless otherwise stated.

Prior to production but after the Handbook was printed, certain wiring and component changes were made in the Model SX-117 Receiver to improve its performance.

These changes are contained in the schematic diagram and parts list herein enclosed. Please discard the schematic diagram and parts list contained in the Handbook and refer to those contained within this sheet whenever necessary.

Additional changes in the Handbook, as caused by this improvement, are to be made as noted below:

- Page 20, Paragraph 6-12: Change this paragraph to read as follows:

Readjustment of the notch filter circuit is not normally necessary unless the components in the notch circuit are replaced. To check the circuit, proceed as follows:

- Check the BFO frequency as previously described so that zero beat is maintained in either sideband position.
- Set FUNCTION to USB, SELECTIVITY to 2.5 KC, and tune in an unmodulated signal (strength approximately S9) to zero beat.
- Tune NOTCH control for minimum audio output.
- Adjust notch depth (on top of chassis, right side of VFO) for further decrease in audio output.
- Repeat steps c and d until no further decrease in audio output is noted. At this point, the notch frequency should indicate 50 KC.

- Page 22, Figure 13: Change the following voltages to read as follows:

- Change pin 3 of V2 to read 160 volts.
- Change pin 7 of V8 to read 4 volts.

- Page 23, Figure 13: Change the following resistances to read as follows:

- Change pin 3 of V2 to read 580K ohms.
- Change pin 7 of V8 to read 2.2K ohms.

Form Number 094-903475B
Pack with Instruction
Manual 094-903123