

IF = 455KC

NOTE: VOLTAGE AND RESISTANCE READINGS TAKEN WITH BATTERY SWITCH IN 'NEW' POSITION.

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	1LG5	14VDC	70VDC	37VDC	OV.	OV.	OV.	OV.	OV.
2	1LC6	14VDC	72VDC	35VDC	OV.	OV.	OV.	OV.	OV.
3	1LC5	14VDC	72VDC	37VDC	OV.	OV.	OV.	OV.	OV.
4	1LD5	14VDC	33VDC	17VDC	OV.	OV.	-1VDC	OV.	OV.
5	1LB4	14VDC	73VDC	72VDC	OV.	OV.	-7VDC	OV.	OV.

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	1LG5	*	40KΩ	108KΩ	0Ω	25MEG.	24MEG.	0Ω	0Ω
2	1LC6	*	40KΩ	73KΩ	160KΩ	108KΩ	675KΩ	15MEG.	0Ω
3	1LC5	*	40KΩ	108KΩ	0Ω	7MEG.	INF.	0Ω	0Ω
4	1LD5	*	1MEG.	6.8MEG.	40KΩ	INF.	15MEG.	INF.	0Ω
5	1LB4	*	40KΩ	40KΩ	0Ω	24MEG.	750Ω	0Ω	0Ω

THE COOPERATION OF THE MANUFACTURER OF THIS  
RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

\* DO NOT USE OHMMETER TO MEASURE FILAMENT RESISTANCE.  
RESISTANCE READINGS IN THE B+ CIRCUITS MAY VARY WIDELY  
ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS

469-30

The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variations into the measurement operation, such as type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is grounded.

- 1 - DC Voltage measurements are at 20,000 ohms per volt.
- 2 - Socket connections are shown as bottom views.
- 3 - Measured values are from socket pin to common negative.
- 4 - Nominal tolerance on component values makes possible a variation of  $\pm 10\%$  in voltage and resistance readings.
- 5 - Volume control at maximum, no signal applied for voltage measurements.

SILVERTONE  
MODELS 6220, 6220A



SILVERTONE MODEL 6220A

TRADE NAME	Silvertone Models 6220, 6220A (Ch. Nos. 101.801, 101.801-1A)					
MANUFACTURER	Sears, Roebuck & Co., 925 S. Homan St., Chicago, Ill.					
TYPE SET	Battery Operated Superheterodyne Receiver					
TUBES (FIVE)	Types, 1LG5 RF Amp., 1LC6 Osc.-Transl., 1LC5 IF Amp., 1LD5 Det.-AVC.-AF, 1LB4 Power Output.					
POWER SUPPLY	1.5 Volt "A" Battery & 90 Volt "B" Battery in Pack Form. (Silvertone "A-B" Battery Pack #6306 or equivalent)					
TUNING RANGE—BROADCAST	540-1725KC	RATING	230MA @ 1.5V DC; 7.5MA @ 90V DC			
ALIGNMENT INSTRUCTIONS						
To set pointer, turn tuning control fully counter-clockwise and set pointer at last reference mark at the left end of the dial. Set volume control at maximum volume and keep output from signal generator no higher than is necessary to obtain output reading. Use insulated alignment screwdriver for adjusting.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.1 MFD.	High side to pin #6 (signal grid) of 1LC6. Low side to chassis.	455KC	Low freq. end.	Across voice coil	A1, A2, A3, A4.	Adjust for maximum output.
75 MMF.	High side to ant. terminal. Low side to chassis.	1725KC	1725KC	"	A5	" " " "
75 MMF.	"	"	"	"	A6, A7	" " " "
75 MMF.	"	1500KC	1500KC	"	A8, A9, A10	" " " "
75 MMF.	"	1725KC	1725KC	"	A5, A6, A7.	" " " "

HOWARD W. SAMS & CO., INC. •

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SILVERTONE  
MODELS 6220, 6220A

PARTS LIST AND DESCRIPTIONS

TUBES

ITEM No.	USE	REPLACEMENT DATA		BMA BASE TYPE	INSTALLATION NOTES
		SILVERTONE PART No.	STANDARD REPLACEMENT		
1	RF Amp.	1L25	1L25	7AK	
2	Osc.-Transl.	1L08	1L08	7AK	
3	IF Amp.	1L08	1L08	7AK	
4	Det.-AVC-AF	1L08	1L08	6AX	
5	Power Output	1L24	1L24	5AD	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES AND INSTALLATION NOTES
		SILVERTONE PART No.	SOLAR PART No.	SPRAGUE PART No.	
6A	10 CAP. 150	R57125	DY-2x10-150	EL-101	FP217 Pwr. Supp. Bypass
7	.001 150		S-6-001	TC-21	TP404 Output Plate Bypass
8	.005 600		S-6-005	TC-25	TP408 Audio Coupling
9	.01 200		S-4-01	TC-11	TP421 Audio Screen Bypass
10	.001 600		S-6-001	TC-21	TP404 Audio Coupling
11	.05 200		S-4-05	TC-15	TP426 Pwr. Supp. Bypass
12	.01 200		S-4-01	TC-11	TP421 Osc. anode Decoupling
13	.01 200		S-4-01	TC-11	TP421 AVC Filter
14	.05 200		S-4-05	TC-15	TP426 Screen Bypass
15	.01 200		S-4-01	TC-11	TP421 RF Plate Decoupling
16	.01 200		S-4-01	TC-11	TP421 Tone Compensation
17	250 500		MO. S-325	1FM-325	MC240 Osc. Grid Capacitor
18	50 500		MO. S-45	1FM-45	MC225 RF Coupling
19	50 500		MO. S-45	1FM-45	MC225 RF Coupling
20	100 500		MO. S-31	1FM-31	MC240 AVC Filter
21	250 500		MO. S-325	1FM-325	MC240 RF Coupling
22	150 500		MO. S-315	1FM-315	MC240 RF Coupling

CONTROLS

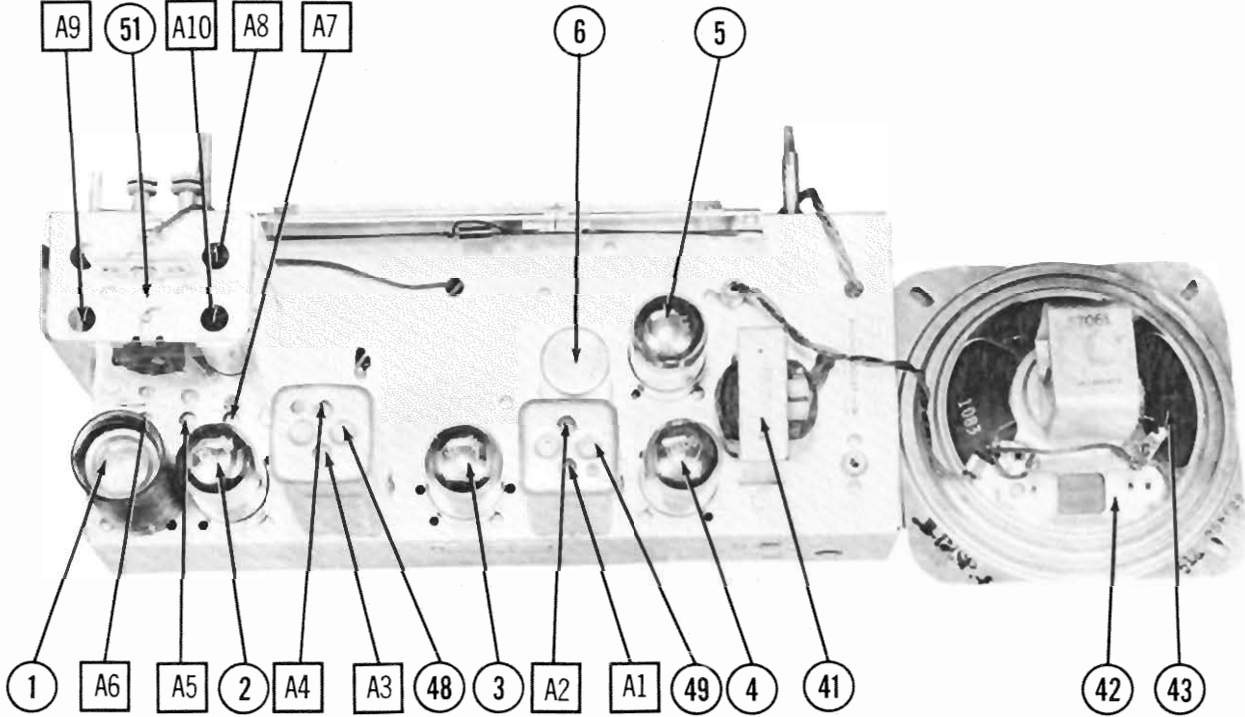
ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		SILVERTONE PART No.	MALLOY PART No.	IRC PART No.	
23A	Switch				Tone Switch-Front Section-See Note Volume Control-Center Section-See Note Off-On Switch-Rear Section-See Note
23B	Switch				

Note-This is a 3 gang unit operated by concentric shafts.

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES
		SILVERTONE PART No.	MALLOY PART No.	IRC PART No.	
24	1 Meg. 1/3				BTS-1 Meg. Br.-Bik.-Grn. AVC Network
25	1 Meg. 1/3				BTS-1 Meg. Or.-Bik.-Grn. Converter Grid
26	3.3 Meg. 1/3				BTS-3.3 Meg. Blue-Gray-Or. Converter Screen Dropping
27	68K 1/3				BTS-68K Or.-Or.-Gr. Oscillator Grid
28	180K 1/3				BTS-180K Br.-Gray-Yl. Oscillator Anode
29	33K 1/3				BTS-33K Or.-Or.-Gr. Oscillator Anode
30	68K 1/3				BTS-68K Blue-Gray-Br. Voltage Dropping
31	2.2 Meg. 1/3				BTS-2.2 Meg. Red-Red-Grn. AVC Network
32	15 Meg. 1/3				BTS-15 Meg. Br.-Grn.-Blue 1st AF Grid
33	15 Meg. 1/3				BTS-15 Meg. Blue-Gray-Grn. 1st AF Screen Dropping
34	6.8 Meg. 1/3				BTS-6.8 Meg. Br.-Bik.-Grn. 1st AF Plate Load
35	1 Meg. 1/3				BTS-1 Meg. Yl.-Red-Silver Battery Saver
36	2.2 Meg. 1/3				BTS-2.2 Meg. Gray-Red-Br. Bias
37	75K 1/3				BTS-75K Blue-Gray-Br. Filter
38	180K 1/3				BTS-180K
39	520K 1/3				BTS-520K
40	680K 1/3				BTS-680K

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		SILVERTONE PART No.	STANCOR PART No.	THORDAR PART No.	
41	1000VA 3-10 120V .35A	R57075	A-3575*	T-22547*	*Full and low voltage note

SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA			INSTALLATION NOTES
		SILVERTONE PART No.	JENSEN PART No.		
42	VC 10W 8-16V	R57061	SP-100		
43	VC 10W 8-16V		Mod. R-X		

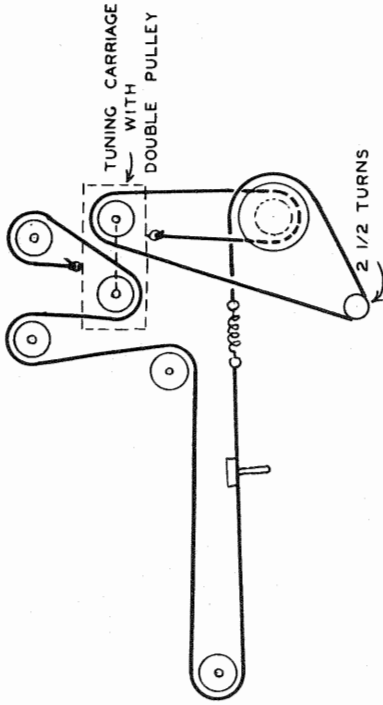
R F COILS

ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES
		DC RES. PRI. SEC.	SILVERTONE PART No.	MEISSNER PART No.	
44	Ant. Choke	100Ω			
45	Ant. Coil	10.5Ω	R45255		
46	RF Coil	5.5Ω			
47	Dec. Coil	3.5Ω			
48	Input IF	10.5Ω	R57120		
49	Output IF	12Ω	R57095		

Items 45, 46, 47 ganged together and slug tuned; and may be obtained under Part No. R57102. 1From low end secondary add 15 Meg. resistor and 250 MFD cap to ground.

MISCELLANEOUS

ITEM No.	PART NAME	SILVERTONE PART No.	NOTES
50	Switch	R57095	
51	Tuner Assy.	R57102	Turift (Slide DPST)
45	Trimmer Cap.	R57081	Pureability
46	Dial Cover	R45218	Re Adj.
47	Station Pointer	R57085	Ant. Adj.
48	Knob	R57180	On-Off-Ind. & Volume
49		R57151	Tuning
50		R52355	Tone



DIAL CORD DRIVE

CHASSIS—BOTTOM VIEW

