



UNITED MOTORS SERVICE

DIVISION OF GENERAL MOTORS CORPORATION

General Offices - Detroit

AUTO RADIO BULLETIN

Bulletin 6D-852

Chevrolet 3706551

Date 7-15-53

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SUBJECT: SERVICE INSTRUCTIONS - CHEVROLET "CORVETTE" MODEL 3706551

GENERAL:

MOUNTING—1953 Chevrolet Corvette.

TUBES—Seven, Plus Rectifier and Trigger.

SPEAKER—8" Round, Permanent Magnet.

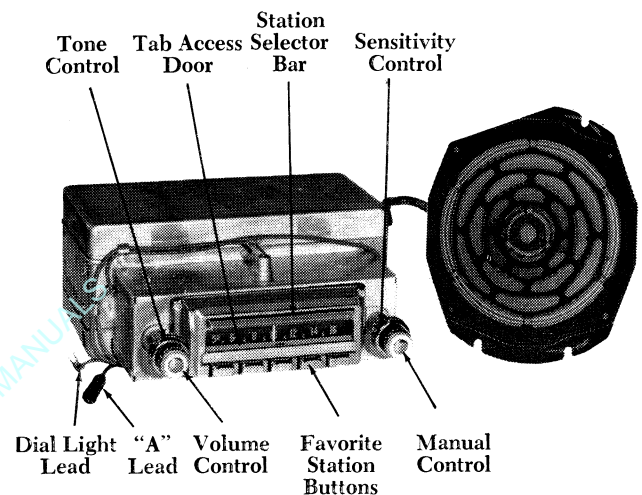
TUNING—Electronic, Push Button, and Manual.—Series F-1.

ANTENNA TRIMMER COMPENSATION—0.000140 - 0.000200 Mfd.

TUNING RANGE—540 - 1600 KC.

PUSHBUTTON SET-UP:

1. Open the hinged door below the dial exposing the selector tabs.
2. Tune in the desired signal nearest the left end of the dial.
3. Move the first selector tab (one farthest left) until it lines up with the pointer tip.
4. Repeat set-up steps 2 and 3 for the remaining selector tabs, choosing stations from left to right on the dial.
5. Check the settings of each selector tab by depressing the corresponding station selector button. If the correct station is not tuned in re-adjust the selector tab.



SIGNAL SEEKING TUNER ALIGNMENT PROCEDURE:

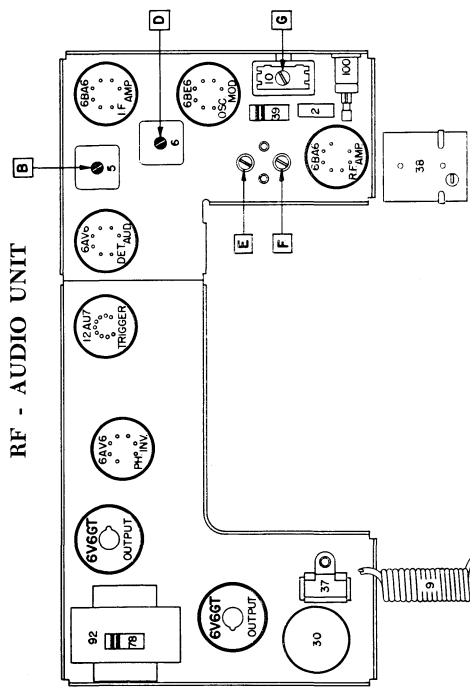
Output Meter ConnectionVTVM From AVC To Chassis (see parts layout page 2)
Generator ReturnReceiver Chassis
Dummy AntennaIn Series With Generator
Volume ControlMaximum Volume
Sensitivity ControlPosition 2. (Position 1 is Maximum)
Tone ControlTreble
Generator OutputUnmodulated Not To Exceed 2 Volts AVC

Step	Dummy Antenna	Connect To	Signal Generator Frequency	Tune Receiver To	Adjust in Sequence for Output Indicated
1	0.1 Mfd.	6BE6 Grid (Pin 7)	260 KC	High Freq. Stop	A, B, C Max.
2	0.1 Mfd.	6BE6 Grid (Pin 7)	260 KC	High Freq. Stop	D Min.
3	0.000180 Mfd.	Antenna Connector	1615 KC	High Freq. Stop	*E, F, G Max.
4	0.000180 Mfd.	Antenna Connector	600 KC	Signal Gen. Signal	J, K Max.
5	0.000180 Mfd.	Antenna Connector	1615 KC	Signal Gen. Signal	F, G Max.
6	0.000180 Mfd.	Antenna Connector	1000 KC	Signal Gen. Signal	**L

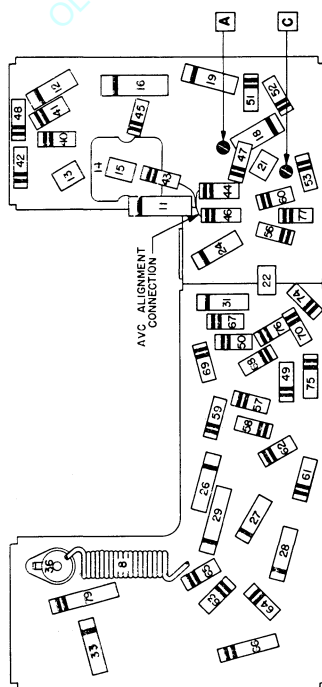
*Before making this adjustment, check the setting of oscillator core "H." The rear of the core should be $1\frac{1}{2}$ " from the mounting end of the coil form. This measurement is readily made by inserting a suitable plug in the mounting end of the coil form. The core adjustment is made from the mounting end of the coil form with an insulated screw-driver. (It will be necessary to steady the core guide bar by applying a downward pressure at the antenna core end of the bar while making these adjustments.) If this adjustment is necessary, first dissolve the glyptal seal on the core stud and be sure to re-seal after making the adjustment.

**"L" is the pointer adjustment screw on the end of the core guide bar—adjust so pointer reads 1000 KC.

With the radio installed and the antenna plugged in, adjust antenna trimmer "G" (See sticker on case) for maximum volume with the radio tuned to a weak station from 600 to 1000 KC.

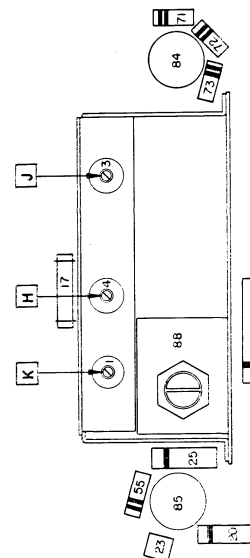


Parts Layout—Tube View



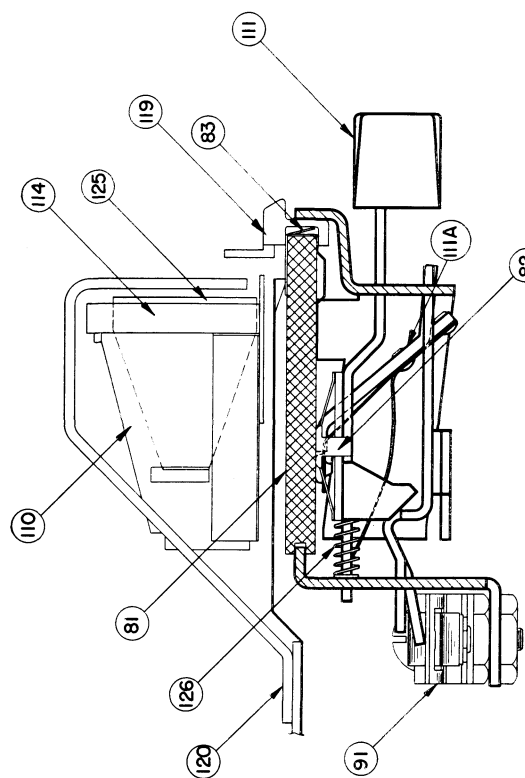
Parts Layout—Chassis View

Connect vacuum tube voltmeter between AVC line and ground during alignment.

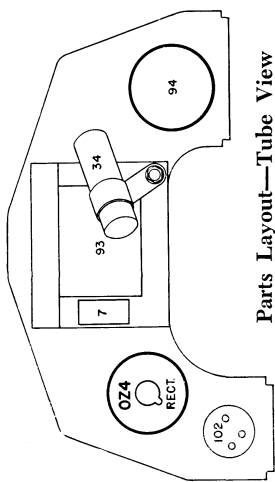


Parts Layout—Coil View

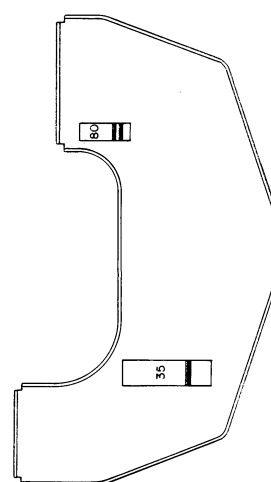
NOTE: This radio uses Series F-1 Tuner. For complete tuner information see Bulletin 6D-621.



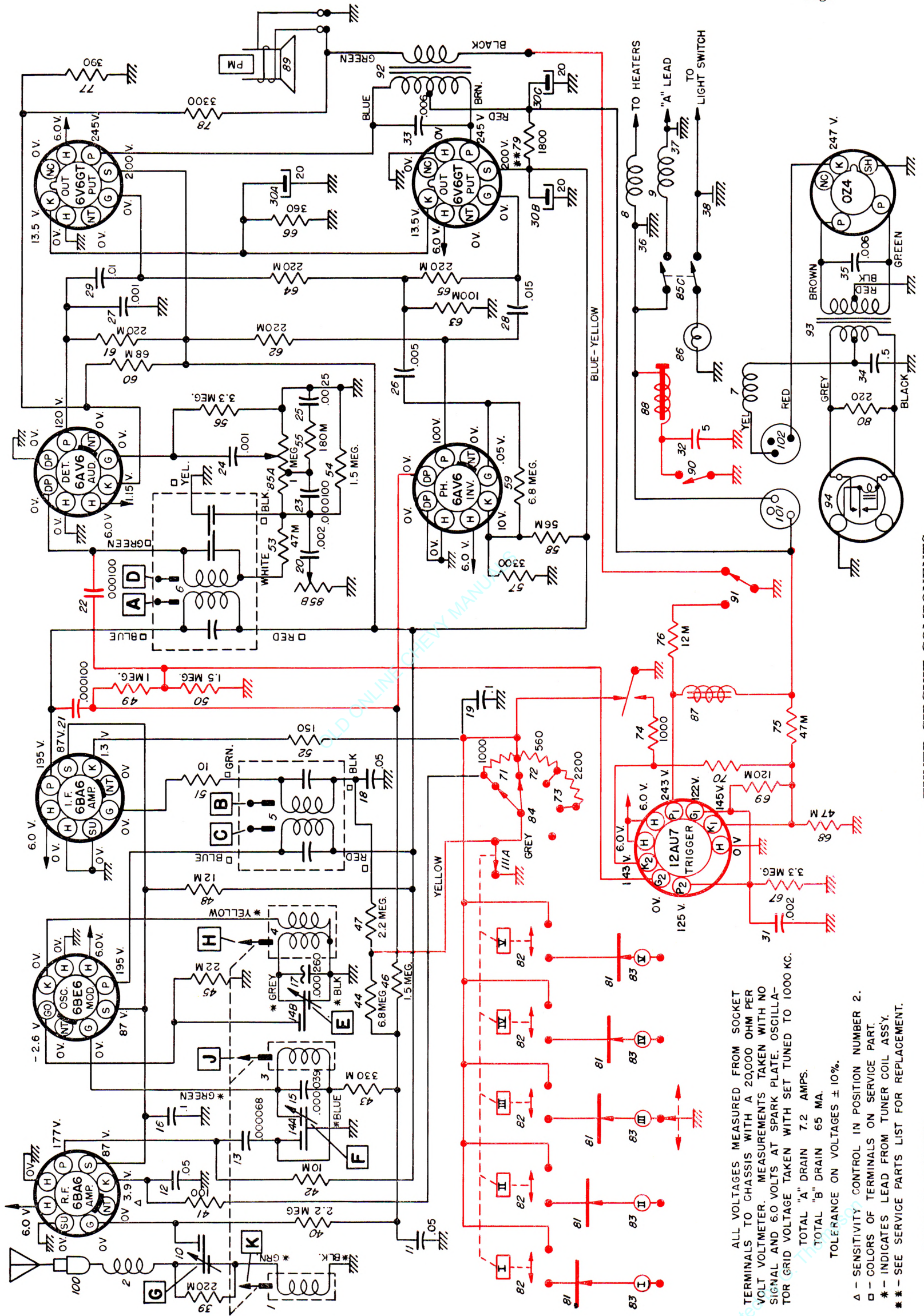
PORTION OF DRAWING OUTLINED IN HEAVY LINES IS THE BUTTON AND SLIDE ASS'Y, ILLUS. III
Tuner Button Mechanism—Cross Section
SPEAKER—POWER SUPPLY UNIT



Parts Layout—Tube View



Parts Layout—Chassis View



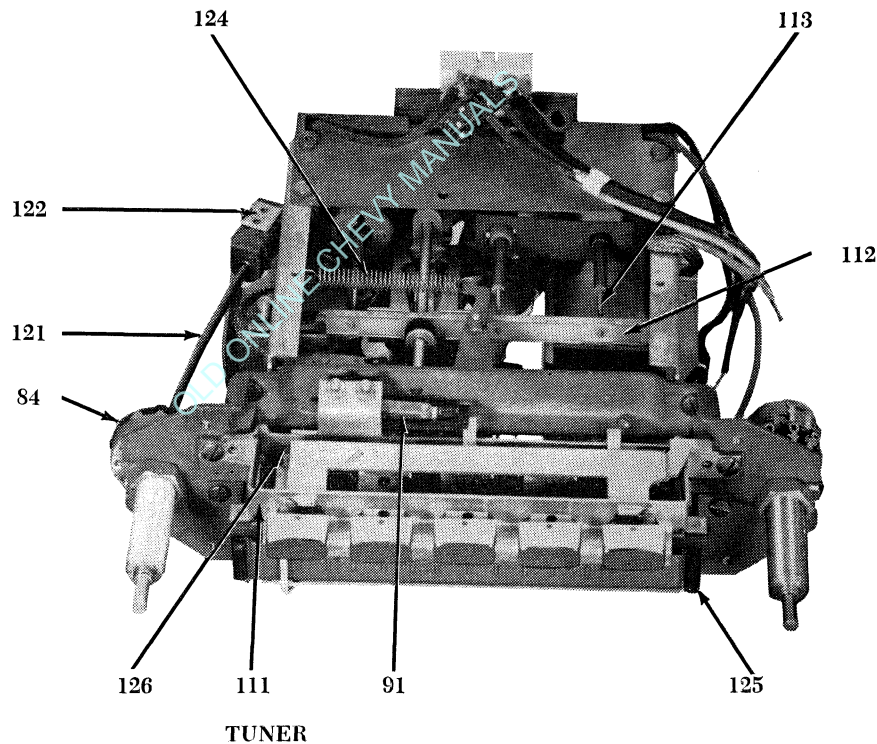
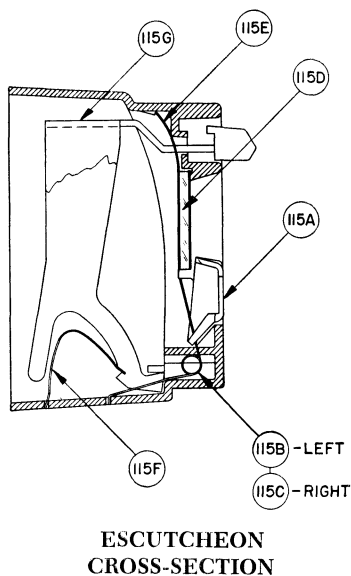
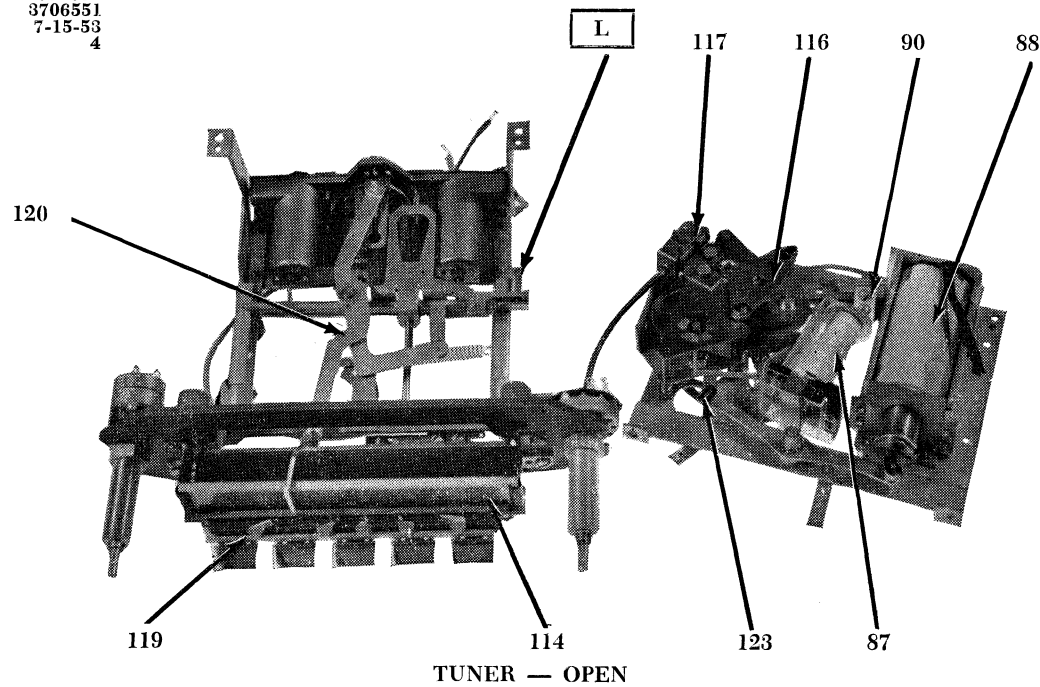
ALL VOLTAGES MEASURED FROM SOCKET TERMINALS TO CHASSIS WITH A 20,000 OHM PER VOLT VOLTMETER. MEASUREMENTS TAKEN WITH NO SIGNAL AND 6.0 VOLTS AT SPARK PLATE. OSCILLATOR GRID VOLTAGE TAKEN WITH SET TUNED TO 1000 KC.

TOTAL "A" DRAIN 7.2 AMPS.
TOTAL "B" DRAIN 65 MA.
TOLERANCE ON VOLTAGES $\pm 10\%$.

Δ - SENSITIVITY CONTROL IN POSITION NUMBER 2.
□ - COLORS OF TERMINALS ON SERVICE PART.
* - INDICATES LEAD FROM TUNER COIL ASS'Y.
** - SEE SERVICE PARTS LIST FOR REPLACEMENT.

TUNER CIRCUIT COMPONENTS

MODEL 3706551



NOTE: This radio uses a Series F-1 Tuner. For additional tuner information see Bulletin 6D-621.

SERVICE PARTS LIST

Illus. No.	Production Part No.	Service Part No.	Description
ELECTRICAL PARTS			
Coils			
1	7257979	7257979	Antenna
2	7258502	7255738	Antenna Series Choke
3	7257979	7257979	R.F.
* 4	7263287	7263287	Oscillator
5	7259790	1219508	1st I.F.
* 6	7263882	1220204	2nd I.F.
7	7262504	1217846	Hash Choke
8	7264088	1217846	Choke, Heater
9	7264090	1217846	Choke, "A" Lead

Contributed by G. Thompson

SERVICE PARTS LIST

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Illus. No.	Production Part No.	Service Part No.	DESCRIPTION
Capacitors			
* 10	7264097	7264097	Antenna Trimmer
11	7236842	6512	.05 Mfd. 200V Tubular
12	7236842	6512	.05 Mfd. 200V Tubular
13	1219550	G-680	.000068 Mfd. Molded Mica
14	7242454	7242454	Dual Trimmer
14A		**	R.F. Section
14B		**	Oscillator Section
15	7258221	G-390	.000039 Mfd. Molded Mica
16	7238788	6513	.1 Mfd. 400V Tubular
17	7257567	7257567	.00026 Mfd. Temperature Compensating
18	7236842	6512	.05 Mfd. 200V Tubular
19	7238789	6590	.1 Mfd. 200V Tubular
20	1219632	6528	.002 Mfd. 600 V Tubular
21	1219498	1219498	.0001 Mfd. Molded Mica, 5% Tolerance
22	1219498	1219498	.0001 Mfd. Molded Mica, 5% Tolerance
23	1219593	G-101	.0001 Mfd. Molded Mica
24	1218883	6527	.001 Mfd. 600V Tubular
25	7240578	7240578	.0025 Mfd. 400V Tubular
26	7230912	6531	.005 Mfd. 600V Tubular
27	1218883	6527	.001 Mfd. 600V Tubular
28	7237719	7237719	.015 Mfd. 600V Tubular
29	1208600	6533	.01 Mfd. 600V Tubular
30	7240724	M-908	Electrolytic
30A		**	20 Mfd. 25V
30B		**	20 Mfd. 400V
30C		**	20 Mfd. 400V
31	1219632	6528	.002 Mfd. 600V Tubular
32	1219511	6592	.5 Mfd. 100V Tubular
33	1219084	H-602	.006 Mfd. 800V Tubular
34	7259954	6592	.5 Mfd. 100V Tubular
35	7240906	H-602	.006 Mfd. 1600V Tubular
36	1217848	1217848	Chassis Plate
37	1212278	1212278	Chassis Plate
38	7262937	7262937	Spark Plate Assembly
Resistors			
39	1214555	A-224	220,000 ohms 1/2W Insulated
40	1211147	A-225	2.2 Megohms 1/2W Insulated
41	1213217	A-101	100 ohms 1/2W Insulated
42	1211085	B-103	10,000 ohms 1W Insulated
43	7240732	A-334	330,000 ohms 1/2W Insulated
44	7241937	A-685	6.8 Megohms 1/2W Insulated
45	1211192	A-223	22,000 ohms 1/2W Insulated
46	1213283	A-155	1.5 Megohms 1/2W Insulated
47	1211147	A-225	2.2 Megohms 1/2W Insulated
48	1212491	C-123	12,000 ohms 2W Insulated
* 49	1220169	1220169	1 Megohm 1/2W Insulated 5%
* 50	1219492	1219492	1.5 Megohms 1/2W Insulated 5%
51	1219755	A-100	10 ohms 1/2W Insulated
52	1213220	A-151	150 ohms 1/2W Insulated
53	1214553	A-473	47,000 ohms 1/2W Insulated
54	1219492	A-155	1.5 Megohms 1/2W Insulated
55	1215560	1215560	180,000 ohms 1/2W Insulated
56	1211150	A-335	3.3 Megohms 1/2W Insulated
57	1213481	A-332	3300 ohms 1/2W Insulated
* 58	1220213	1220213	56,000 ohms 1W Insulated 5%
59	7241937	A-685	6.8 Megohms 1/2W Insulated
60	1215575	B-683	68,000 ohms 1W Insulated
61	1214555	A-224	220,000 ohms 1/2W Insulated
62	1214555	A-224	220,000 ohms 1/2W Insulated
63	1213270	A-104	100,000 ohms 1/2W Insulated
64	1214555	A-224	220,000 ohms 1/2W Insulated
65	1214555	A-224	220,000 ohms 1/2W Insulated
66	7234563	7234563	360 ohms 1W Insulated
67	1211150	A-335	3.3 Megohms 1/2W Insulated
68	1216157	B-473	47,000 ohms 1W Insulated
69	1213271	A-124	120,000 ohms 1/2W Insulated
70	1216154	1216154	6800 ohms 1W Insulated
71	1213235	A-102	1000 ohms 1/2W Insulated
72	1220175	A-561	560 ohms 1/2W Insulated
73	1219772	A-222	2200 ohms 1/2W Insulated
* 74	1220176	1220176	1000 ohms 1/2W Insulated 5%
* 75	1220188	1220188	47,000 ohms 1W Insulated 5%
76	1213740	B-123	12,000 ohms 1W Insulated
77	1213482	A-391	390 ohms 1/2W Insulated
78	1213481	A-332	3300 ohms 1/2W Insulated
79	1214573	{ C-272 }	1800 ohms 2W Wire Wound
		{ B-562 }	(Replace with C-272 and B-562 in parallel)
80	1219738	B-221	220 ohms 1W Insulated

SERVICE PARTS LIST

Illus. No.	Production Part No.	Service Part No.	DESCRIPTION
Tubes			
	1218506	6AV6	6AV6
	1217690	6BA6	6BA6
	1217691	6BE6	6BE6
	1213793	6V6GT	6V6GT
	1219485	12AU7	12AU7
	1211924	0Z4	0Z4
Miscellaneous			
* 81	7263703	7263916	Board, Tab Rail
* 82	1220193	1220193	Contact, Push Button Slide (set of 5)
* 83	1220191	1220191	Contact, Selector Tab (set of 5)
* 84	7264091	7264091	Control, Sensitivity
* 85	7264100	7264100	Control, Volume, Tone, and Switch
85A		**	Volume Control
85B		**	Tone Control
85C		**	On-off Switch
86	187189	44	Dial Light
* 87	7264140	7263365	Relay
88	7263363	7259010	Solenoid and Plunger Assembly
89	7264182	7264182	Speaker 8" Round PM
* 90	7263340	7263340	Switch, Tuner Return
	7259072	7259072	"U" Spring
* 91	7263912	7263912	Switch, Station Selector
	7259072	7259072	"U" Spring
92	7264125	6063	Transformer, Output
93	7262511	6055	Transformer, Power
94	7239124	8542	Vibrator, 6V Non-Synchronous
MECHANICAL PARTS			
R.F. - Audio Chassis			
100	7239475	7239475	Antenna Connector
	7258073	6072	Socket, 7 Pin Miniature
	7259307	6073	Socket, 9 Pin Miniature
	7236279	6070	Socket, Octal
*	1220174	1220174	Socket, Dial Light
*101	1220183	1220183	Socket Package, Cable Connecting
*	7262464	7262464	Tube Retainer
Power Supply Chassis			
102	7258111	7258111	Plug, Cable Connecting
	7239125	6036	Socket, Vibrator
Tuner			
*110	7264086	7264086	Backplate, Dial
*111	7264162	7263368	Button and Slide Assembly
111A		**	Contact, Grounding
112	7259178	7259178	Core Bar Assembly
113	7259201	7259201	Core, Powered Iron Tuning
*114	7264102	7264102	Dial, Calibrated
*115	7264098	7264098	Escutcheon
* 115A	1220190	1220190	Door, Tab Access
* 115B	7263411	7263411	Spring, Access Door, Left
* 115C	7263412	7263412	Spring, Access Door, Right
* 115D	7263408	7263408	Glass, Dial
* 115E	7263409	7263409	Spring, Dial Glass Retainer
* 115F	7263439	7263439	Spring, Station Selector Bar
115G		**	Station Selector Bar
116	1219610	1219610	Gear Train Assembly
117	7259026	7259026	Gear, Worm and Bracket Assembly
*119	1220192	1220192	Indicator, Selector Tab (set of 5)
*120	7263360	7263360	Pointer Arm Assembly
*121	1220247	1220247	Shaft, Manual Drive
122	7259207	7259207	Spring, Anti-squeak
123	7259100	6047	Spring Clip
124	7259055	7259055	Spring, Gear Train Power
*125	7263398	7263398	Spring, Dial Retainer
*126	7263371	7263371	Spring, Slide Return
Installation Parts			
	*1220246	1220246	Fuse Holder Assembly
	1911095	6030	Capacitor, Generator
	147685	147685	Fuse, 14 amp.
	*7264150	7264150	Knob, Control
	1341337	1341337	Knob, Sensitivity
	1341536	1341536	Knob, Tone

* New Part

** Not available separately. Order the complete assembly.

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