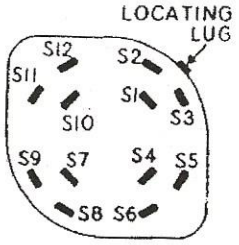
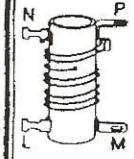
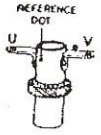
19-34



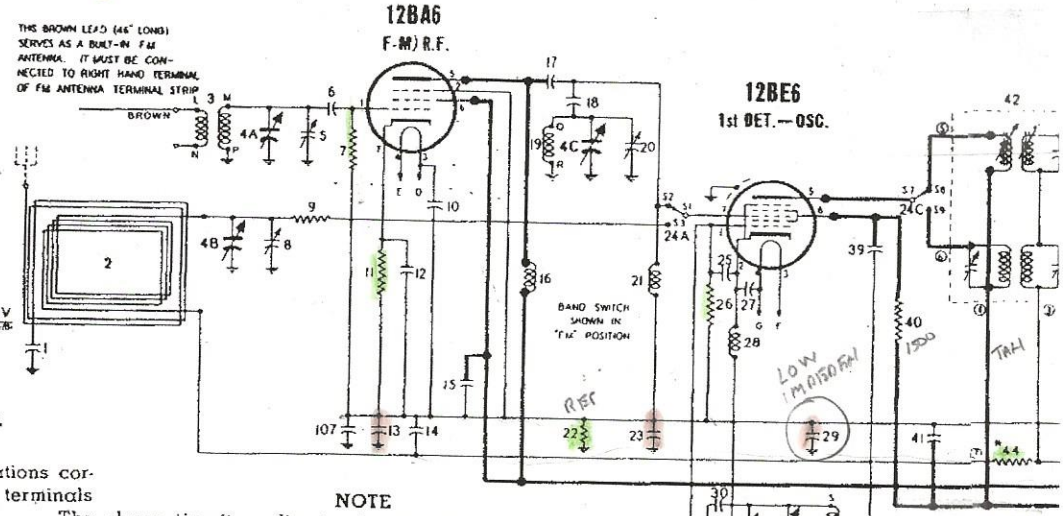
BAND SWITCH
504938



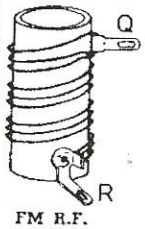
FM ANT. COIL
505062



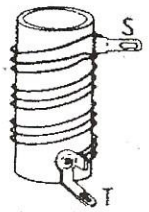
BC. OSC. COIL
505042



Lettered terminals in illustrations correspond to similarly lettered terminals on the circuit diagram.



FM R.F. COIL
505060



FM OSC. COIL
505060

NOTE

The above circuit applies to chassis which have a letter "S" or "H" stomped on rear surface adjacent to model number. Chassis which do not show either of these letter designations have the following circuit differences:

1. Resistor No. 7 is connected to A.V.C. instead of B as shown above.
2. Condensers Nos. 107 and 108 are omitted.
3. Resistor R87 is 33,000 ohms.

Changes 1 and 2 are incorporated in chassis which carry the "S" designation and all three changes appear in chassis with the "H" designation.

These changes were made to increase sensitivity on FM operation.

*Resistor transfor nected be

(F-M)
(A-M)

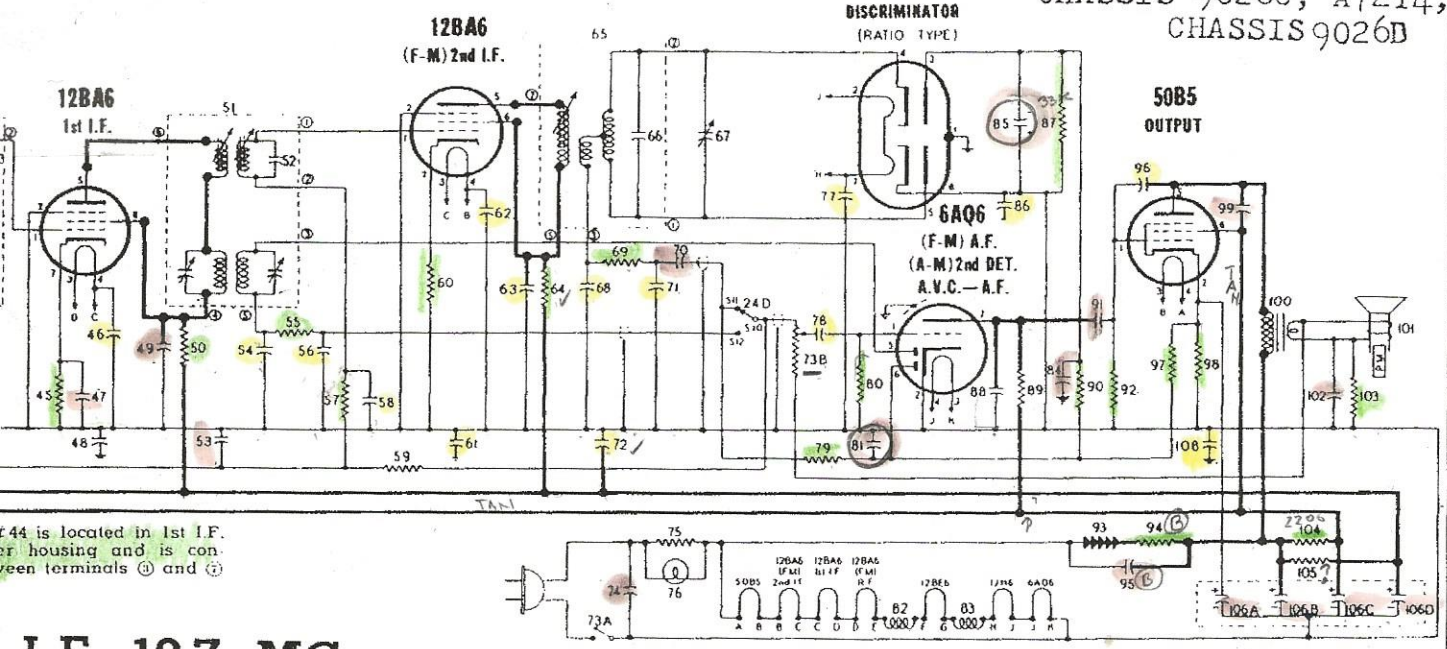
WARNING: Some parts listed below have special characteristics. Do not use substitu

DIA-GRAM NO.	PART NO.	DESCRIPTION
		CONDENSERS
1	504725	Condenser—.02 Mfd. 200 volt
4-A to E	504955	Condenser—variable gang and drum
5	504954	Condenser—trimmer; 3 to 12 Mmfd.
6	504974	Condenser—ceramic 47 Mmfd. 500 volt
8	504069	Condenser—trimmer; 3 to 35 Mmfd.
10	504976	Condenser—ceramic 1500 Mmfd. 150 volt
12	505025	Condenser—ceramic 100 Mmfd. 350 volt
13	505052	Condenser—.002 Mfd. 400 volt
14	505073	Condenser—.05 Mfd. 400 volt
15	504975	Condenser—ceramic 470 Mmfd. 350 volt
17	502295	Condenser—ceramic 10 Mmfd. 500 volt
18	505053	Condenser—ceramic 15 Mmfd. 500 volt
20	504954	Condenser—trimmer; 3 to 12 Mmfd.
23	505027	Condenser—.01 Mfd. 400 volt
25	504730	Condenser—ceramic 3 Mmfd. 500 volt
27	504973	Condenser—ceramic 22 Mmfd. 500 volt
29	505454	Condenser—.05 Mfd. 400 volt (low impedance at 455 Kc.—do not substitute ordinary capacitor)
30	505072	Condenser—ceramic 33 Mmfd. 350 volt
31	504954	Condenser—trimmer; 3 to 12 Mmfd.
33	504974	Condenser—ceramic 47 Mmfd. 500 volt
34	119491	Condenser—trimmer; 10 to 90 Mmfd.
36	505051	Condenser—trimmer; 440 to 660 Mmfd.
37	504979	Condenser—ceramic .01 Mfd. 150 volt
38	504975	Condenser—ceramic 470 Mmfd. 350 volt
39	504979	Condenser—ceramic .01 Mfd. 150 volt
41	504979	Condenser—ceramic .01 Mfd. 150 volt
43	505068	Condenser—ceramic 91 Mmfd. 350 volt
46	504976	Condenser—ceramic 1500 Mmfd. 150 volt
47	505028	Condenser—.05 Mfd. 150 volt
48	504979	Condenser—ceramic .01 Mfd. 150 volt
49	505211	Condenser—.08 Mfd. 400 volt
52	505068	Condenser—ceramic 91 Mmfd. 350 volt
53	505028	Condenser—.05 Mfd. 150 volt
54	505026	Condenser—ceramic 150 Mmfd. 350 volt
56	505026	Condenser—ceramic 150 Mmfd. 350 volt
58	504978	Condenser—ceramic .005 Mfd. 150 volt
61	504979	Condenser—ceramic .01 Mfd. 150 volt
62	504976	Condenser—ceramic 1500 Mmfd. 150 volt
63	504978	Condenser—ceramic .005 Mfd. 150 volt
66	505074	Condenser—ceramic 43 Mmfd. 350 volt
67	504954	Condenser—trimmer; 3 to 12 Mmfd.
68	505025	Condenser—ceramic 100 Mmfd. 350 volt
70	505028	Condenser—.05 Mfd. 150 volt
71, 72	504979	Condenser—ceramic .01 Mfd. 150 volt
74	505083	Condenser—.02 Mfd. 400 volt
77	504976	Condenser—ceramic 1500 Mmfd. 150 volt
78	504977	Condenser—ceramic .002 Mfd. 150 volt
81	505082	Condenser—.02 Mfd. 150 volt
84	505027	Condenser—.01 Mfd. 400 volt
85	504937	Condenser—electrolytic 5 Mfd. 50 volt
86	504979	Condenser—ceramic .01 Mfd. 150 volt
88	505025	Condenser—ceramic 100 Mmfd. 350 volt
91	505028	Condenser—.05 Mfd. 150 volt
95	505073	Condenser—.05 Mfd. 400 volt
96	504973	Condenser—ceramic 22 Mmfd. 500 volt
99	505027	Condenser—.01 Mfd. 400 volt
102	505071	Condenser—.2 Mfd. 400 volt
106-A, B, C, D	504980	Condenser—electrolytic A—20 Mfd. 25 volt B—60 Mfd. 150 volt C—40 Mfd. 150 volt D—40 Mfd. 150 volt
107	504975	Condenser—ceramic 470 Mmfd. 350 volt
108	504979	Condenser—ceramic .01 Mfd. 150 volt
		RESISTORS
7	502134	Resistor—carbon 470,000 Ohms ¼ watt
9	504969	Resistor—carbon 33 Ohms ¼ watt
11	502794	Resistor—carbon 68 Ohms ¼ watt
22	502133	Resistor—carbon 220,000 Ohms ¼ watt
26	502130	Resistor—carbon 22,000 Ohms ¼ watt
40	502406	Resistor—carbon 1,500 Ohms ¼ watt
44	502134	Resistor—carbon 470,000 Ohms ¼ watt
45	502794	Resistor—carbon 68 Ohms ¼ watt
50	502287	Resistor—carbon 680 Ohms ¼ watt
55	504710	Resistor—carbon 33,000 Ohms ¼ watt
57	502134	Resistor—carbon 470,000 Ohms ¼ watt
59	502268	Resistor—carbon 1 Meg. ¼ watt
60	504968	Resistor—carbon 10 Ohms ¼ watt
64	502287	Resistor—carbon 680 Ohms ¼ watt
69	502514	Resistor—carbon 3,300 Ohms ¼ watt
73-A, B	504967	Resistor—Volume control 1 Meg (with Switch)
75	505024	Resistor—carbon 22 Ohms 2 watt
79	502134	Resistor—carbon 470,000 Ohms ¼ watt
80	502136	Resistor—carbon 10 Meg. ¼ watt
	504710	Resistor—carbon 33,000 Ohms ¼ watt
87	502408	Resistor—carbon 68,000 Ohms ¼ watt (used only in chassis stamped with letter "H")
89, 90	502134	Resistor—carbon 470,000 Ohms ¼ watt
92	502134	Resistor—carbon 470,000 Ohms ¼ watt
94	505023	Resistor—carbon 33 Ohms 1 watt
97	502135	Resistor—carbon 2.2 Meg. ¼ watt
98	504437	Resistor—carbon 150 Ohms ½ watt
103	502132	Resistor—carbon 100,000 Ohms ¼ watt
104	504971	Resistor—carbon 2,200 Ohms ½ watt
105	504970	Resistor—carbon 470 Ohms, 2 watt
		COILS AND TRANSFORMERS
2	505054	Loop Antenna
3	505062	Coil—F.M. antenna
16	505075	Coil—R.F. choke (FM)
19	505060	Coil—FM R.F.
21	505076	Coil—R.F. choke (FM)
28	505076	Coil—R.F. choke (FM)

DIA-GRAM NO.	PART NO.	
32	505060	Coil—F
35	505042	Coil—B
42	505066	Transfo
51	505067	Transfo
65	505391	Transfo
82, 83	505392	Coil—B
100	502213	Transfo
	504244	Transfo
	502904	Transfo
		OTHER
24-A, B, C, D	504938	Switch
76	110629	Lamp—
93	504972	Rectifie
101	502998	Speake
		MISCE
	505084	Back fo
	505093	Back fo
	504981	Base fo
	504598	Base t
	502666	Cabinet
	502665	Cabinet
	502506	Clamp
	504691	Clip -c
	500497	Clip r
	114955	Clip r
	117057	Cord
	505085	Dial sc
	505092	Dial sc
	502563	Knob
	502564	Knob
	505086	Knob-
	505087	Knob-
	505090	Knob
	505091	Knob
	505088	Knob—
	505089	Knob-
	505095	Metal c
	502690	Pointer
	81145	Retainir
	119087	Ring fo
	17063	Screw-
	114628	Screw-
	79905	Screw-
	83047	Screw-
	501777	Screw
	505045	Shaft -
	504599	Shield
	500499	Socket-
	504597	Socket
	116690	Socket-
	161384	Spring-

ARNER CORP.

MODELS A72T1, CHASSIS 9026A; A72T2, CHASSIS 9026B; A72T3, CHASSIS 9026C; A72T4, CHASSIS 9026D



f 44 is located in 1st I.F.
er housing and is con-
veen terminals ⑪ and ⑫

I.F. 10.7 MC.
I.F. 455 KC.

es for replacement purposes.

DESCRIPTION

- l oscillator
- oscillator
- mer---1st I.F.
- mer---2nd I.F.
- mer---discriminator
- F. choke (FM)
- mer--output (for R-502998 sp'k'r)
- mer---output (for W-502998 sp'k'r)
- mer--output (for A-502998 sp'k'r)

ELECTRICAL PARTS

- band
- lid (Mazda #44) 6.3V 0.25 Amps
- selenium
- -P.M. dynamic (5 inch)
- cludes transformer

LANEOUS PARTS

- cabinet (Models A72T1, A72T2)
- cabinet (Models A72T3, A72T4)
- mounting electrolytic condenser
- be shield
- -Mahogany (Model A72T1)
- Ivory (Model A72T2)
- dial scale mounting
- l mounting; BC oscillator
- ainer for cabinet back
- ainer on end of dial cord
- al drive (6 ft. required) per ft.
- le (Models A72T1, A72T2)
- le (Models A72T3, A72T4)
- olume or tuning (Model A72T1)
- olume or tuning (Model A72T2)
- olume or tuning (Model A72T3)
- olume or tuning (Model A72T4)
- and (Model A72T1)
- and (Model A72T2)
- and (Model A72T3)
- and (Model A72T4)
- ille (Models A72T3, A72T4)
- g ring for tuning shaft
- dial cord
- No. 6 x ¼ holds dial clamp
- No. 8 x ½; chassis mounting
- No. 8 x 1½ for loop mounting
- No. 8 x ⅞; chassis mounting
- No. 4 x ½ for mounting back
- r ring
- ube
- dial lamp (with leads)
- miniature
- octal base
- dial cord tension

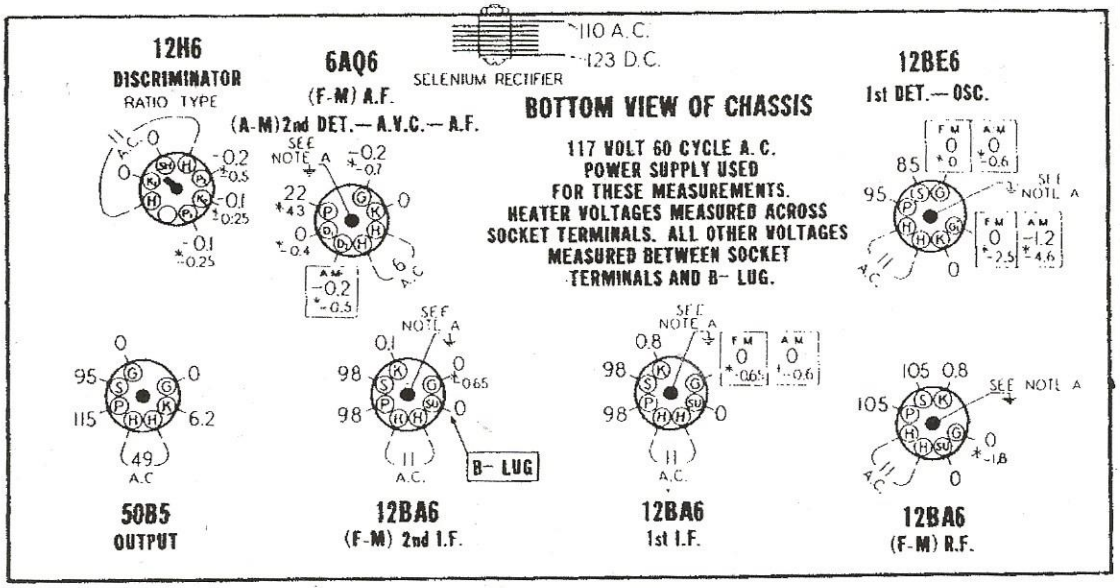
AUDIO OSCILLATION

The audio system of this receiver utilizes a two stage type of inverse feed-back arrangement and, should it ever be necessary to replace the speaker or output transformer, it is important to maintain a definite phase relationship in the feed-back circuit. If the connections to the output transformer are reversed or if the feed-back connection is made to the wrong side of the output transformer secondary, the system will become regenerative instead of degenerative. Under those conditions audio oscillation may result. If that occurs, oscillation may be prevented by reversing the connections to the secondary of the output transformer.

SOCKET VOLTAGES

Measured with voltmeter having sensitivity of 1000 ohms per volt except where indicated by (*). The (*) symbol designates a vacuum tube voltmeter measurement.

ALL MEASUREMENTS MADE WITH BAND SWITCH IN "FM" POSITION UNLESS OTHERWISE INDICATED
DIAL TUNED TO 108MC. FOR "FM" MEASUREMENTS
DIAL TUNED TO 540KC. FOR "AM" MEASUREMENTS
VOLUME CONTROL SET TO MINIMUM WITH NO SIGNAL



REAR OF CHASSIS

NOTE A: Grounding of center stud on tube socket is necessary to reduce capacity coupling between other pins. Oscillation may result if this ground is omitted.