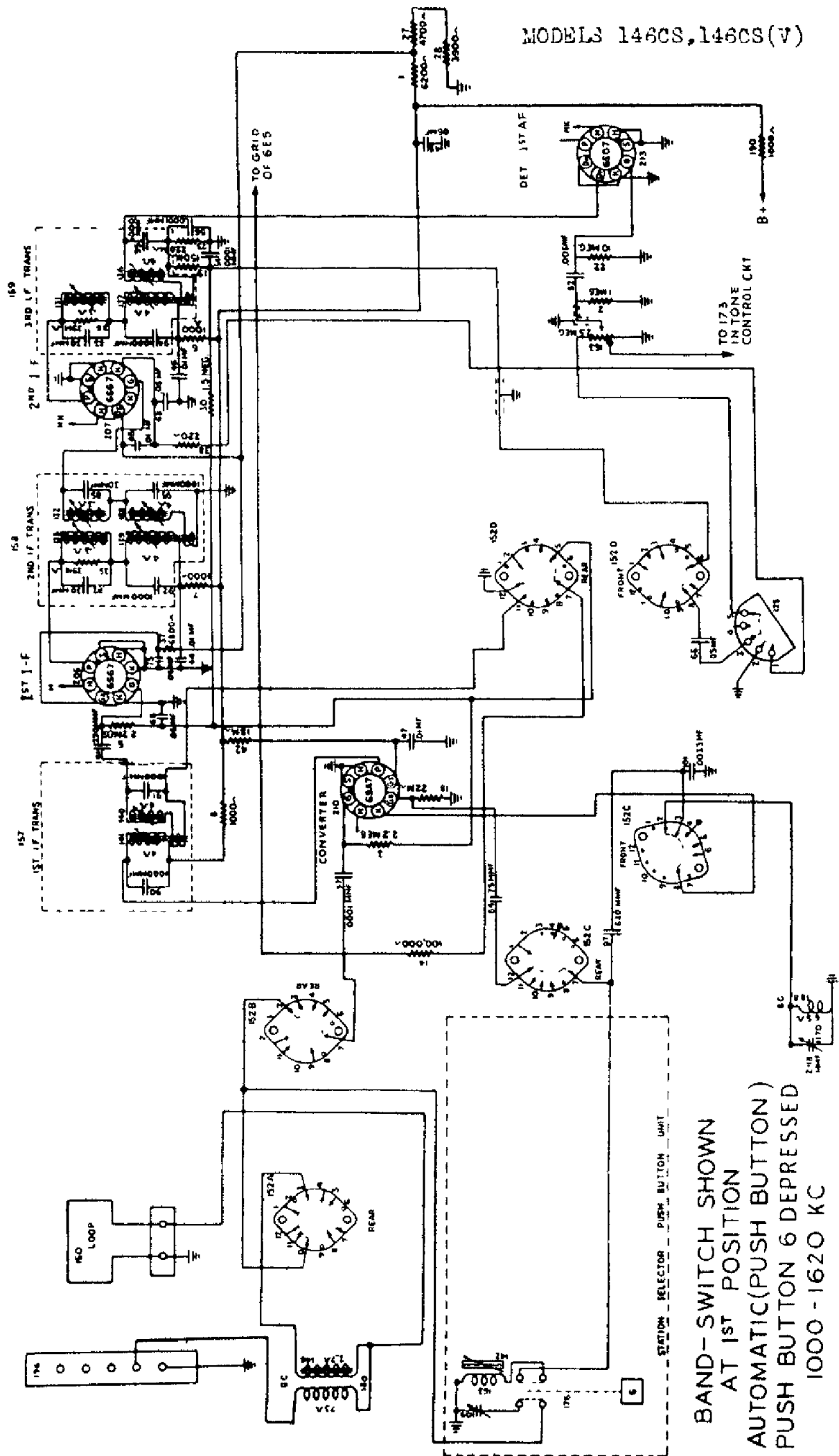
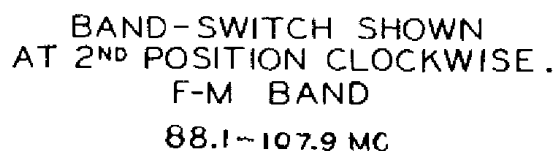


CROSLEY DIVISION
AVCO MFG CORP

MODELS 146CS, 146CS(V)



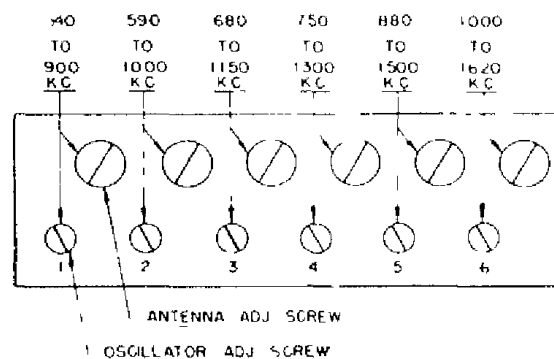
BAND-SWITCH SHOWN
AT 1ST POSITION
AUTOMATIC(PUSH BUTTON)
PUSH BUTTON 6 DEPRESSED
1000-1620 KC

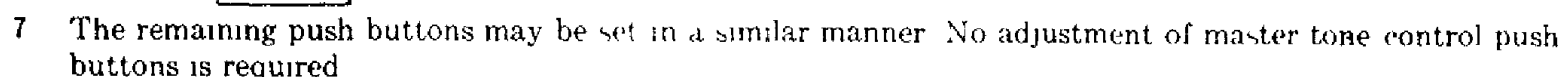


Each of the six push buttons, for automatic tuning, has two adjusting screws by which it may be set to any nearby American broadcast station whose frequency in kilocycles is within the kilocycle range covered by that button. To gain access to these screws, carefully pull off the push button. To set No. 1 push button to a desired position, proceed as follows:

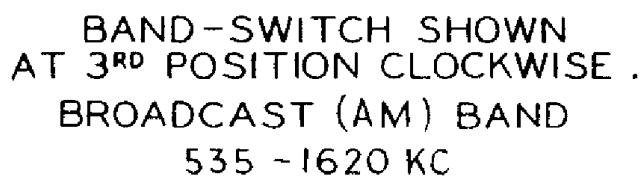
	40	590	680	750	880	1000
	TO	TO	TO	TO	TO	TO

- 1 Turn the ANTENNA ADJ SCREW clockwise until moderately tight, then turn the OSCILLATOR ADJ SCREW counterclockwise until the threaded portion extends approximately $\frac{3}{4}$ inch. Use a small screw-driver and do not exert pressure.
- 2 Turn the band selector switch to the "AM" position and manually tune in the station to which the push button is to be set. The frequency of the station selected must be between 540 and 900 kilocycles. Carefully adjust the tuning control to the point of clearest reception.
- 3 Turn the band selector switch to the "AUTO" position and slowly turn the OSCILLATOR ADJ SCREW clockwise until the same station is heard. Adjust the screw for maximum volume.
- 4 Adjust the ANTENNA ADJ SCREW for maximum volume.
- 5 Turn the band selector switch from "AUTO" to "AM" and back again to check if the adjustment has been correctly made. There should be no change in tone quality when switched from one to the other.
- 6 Place the tab with the call letters of the station, to which the push button has been set, in a celluloid "V" and slide it into the button from the side.



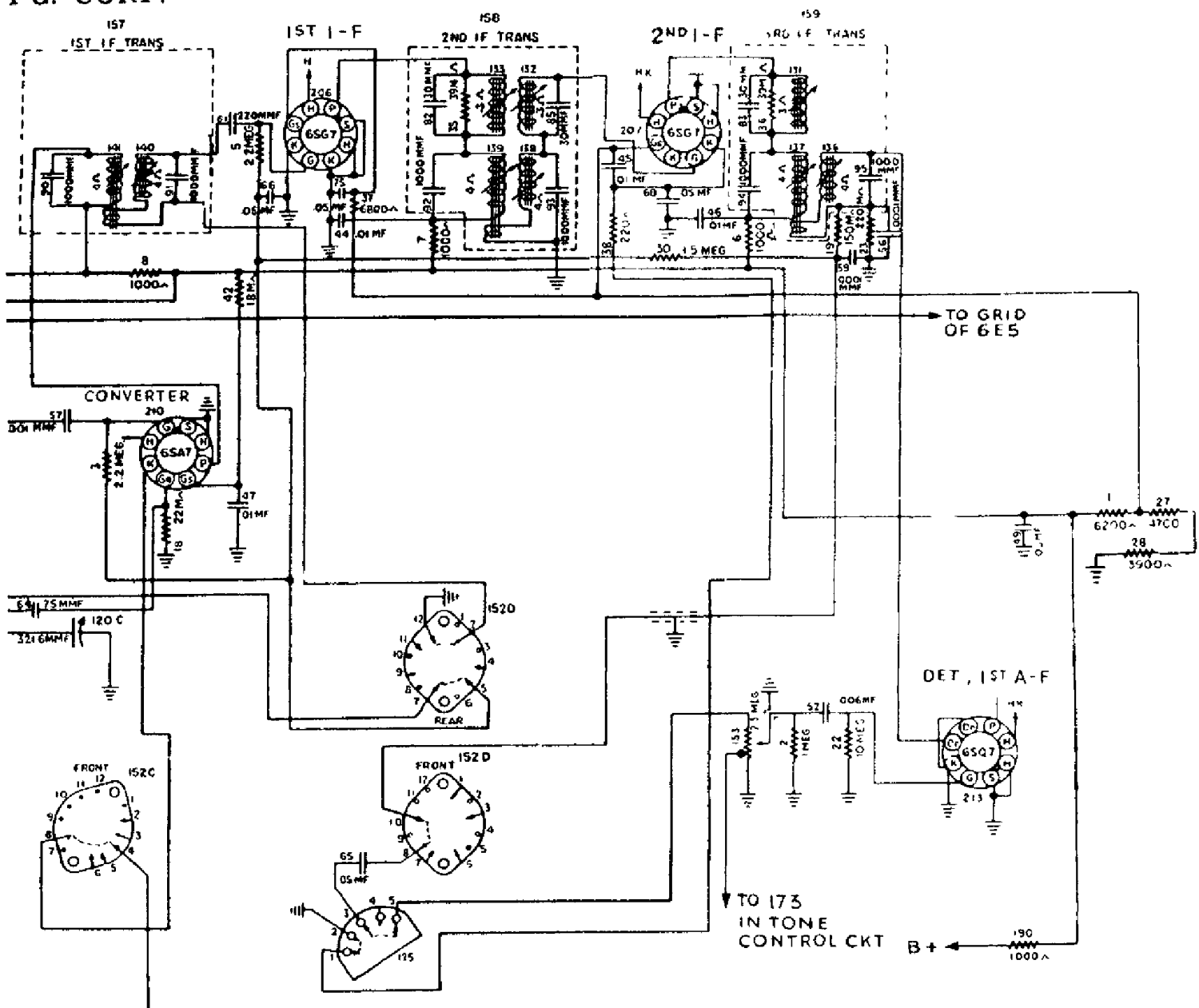


- 1 This receiver has been aligned at the factory for best performance, and no attempt should be made to re-align it unless the proper test equipment is available
- 2 Turn the tuning condenser to full mesh, against stop, and set the dial pointer to the reference line at the end of the dial scale
3. Release all tone control buttons to the out position
- 4 Connect the output meter across the speaker voice coil (3.2 ohms)
- 5 Feed an R F signal modulated 30% at 400 cycle to the receiver as indicated in the alignment procedure chart. Connect signal generator ground terminal to the chassis of the receiver. When F M generator is used, a 30% modulated signal is equal to a deviation of 22.5 kc
6. Turn the volume control knob to maximum clockwise position and adjust the signal generator output to produce a noticeable output meter reading. Keep signal generator output as low as possible to prevent excessive AVC action in the receiver
7. The low impedance "Signal Web" antenna should remain connected at all times. If the chassis is removed from cabinet, use a dummy antenna consisting of a 166 μ h coil in parallel with a 50 mmf capacitor (See Circuit, Fig. 2, page 5)
8. The link must be connected in external antenna position
- 9 For complete receiver alignment see Alignment Procedure Chart

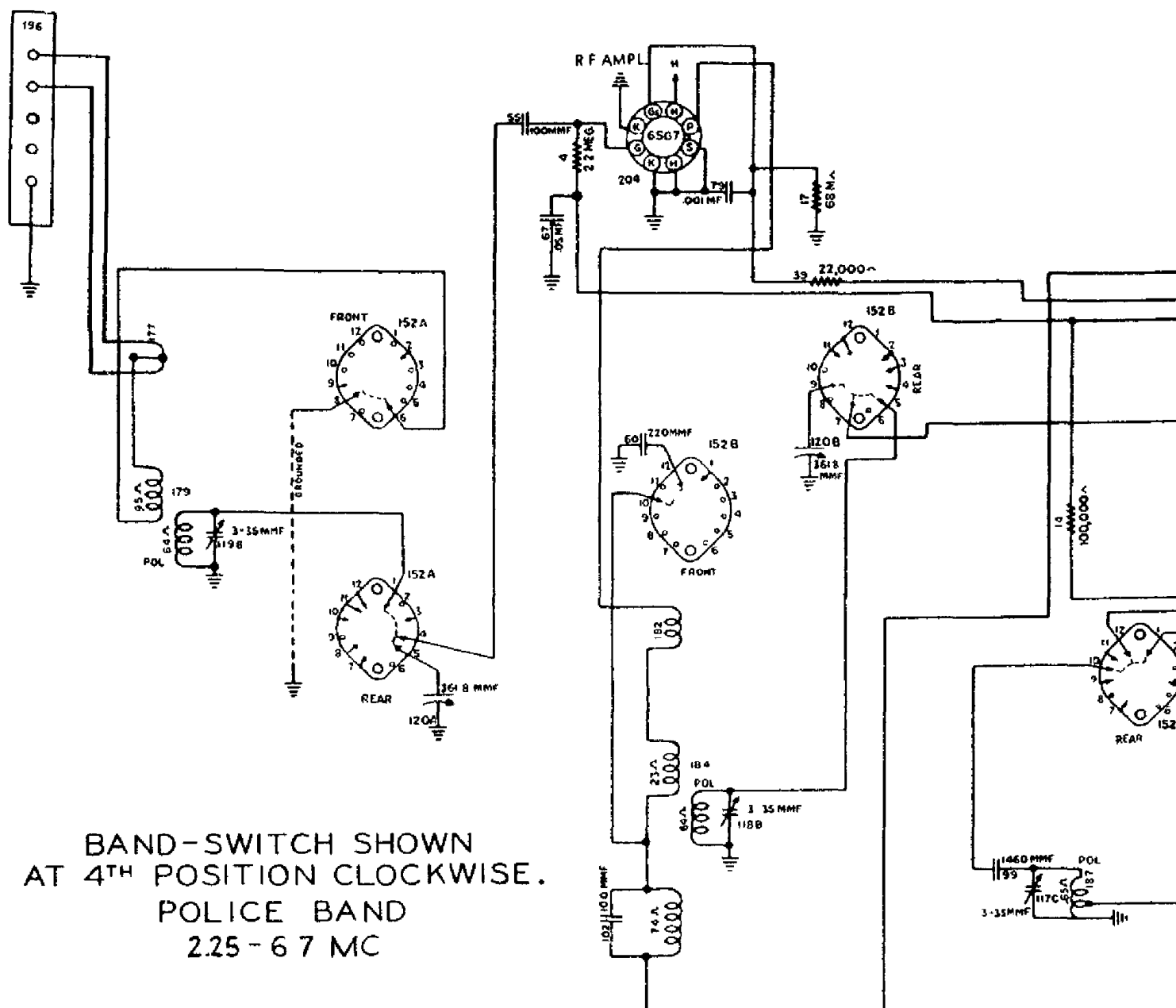


Item No	Part No	Description	Item No	Part No	Description
1	39372-10	Resistor, 6,000 ohm, 10 w	27	39373-157	Resistor, 4,700 ohm, 1 w
2	39373-92	Resistor, 10 megohm, $\frac{1}{2}$ w	28	39373-155	Resistor, 3,900 ohm, 1 w
3	39373-97	Resistor, 2.2 megohm, $\frac{1}{2}$ w	29	39373-239	Resistor, 220 ohm, 2 w
4	39373-97	Resistor, 2.2 megohm, $\frac{1}{2}$ w	30	39373-94	Resistor, 1.5 megohm, $\frac{1}{2}$ w
5	39373-97	Resistor, 2.2 megohm, $\frac{1}{2}$ w	31	39373-94	Resistor, 1.5 megohm, $\frac{1}{2}$ w
6	39373-33	Resistor, 1,000 ohm, $\frac{1}{2}$ w	32	39373-84	Resistor, 330,000 ohm, $\frac{1}{2}$ w
7	39373-33	Resistor, 1,000 ohm, $\frac{1}{2}$ w	33	39373-84	Resistor, 330,000 ohm, $\frac{1}{2}$ w
8	39373-33	Resistor, 1,000 ohm, $\frac{1}{2}$ w	34	Part of Item 157	Resistor, 39,000 ohm, $\frac{1}{2}$ w
9	39373-33	Resistor, 1,000 ohm, $\frac{1}{2}$ w	35	Part of Item 158	Resistor, 39,000 ohm, $\frac{1}{2}$ w
10	39373-33	Resistor, 1,000 ohm, $\frac{1}{2}$ w	36	Part of Item 159	Resistor, 39,000 ohm, $\frac{1}{2}$ w
11	39373-75	Resistor, 120,000 ohm, $\frac{1}{2}$ w	37	39373-51	Resistor, 6,800 ohm, $\frac{1}{2}$ w
12	39373-74	Resistor, 100,000 ohm, $\frac{1}{2}$ w	38	39373-19	Resistor, 220 ohm, $\frac{1}{2}$ w
13	39373-51	Resistor, 6,800 ohm, $\frac{1}{2}$ w	39	39373-170	Resistor, 22,000 ohm, 1 w
14	39373-74	Resistor, 100,000 ohm, $\frac{1}{2}$ w	40	39373-170	Resistor, 22,000 ohm, 1 w
15	39373-74	Resistor, 100,000 ohm, $\frac{1}{2}$ w	41	39373-170	Resistor, 22,000 ohm, 1 w
16	39373-74	Resistor, 100,000 ohm, $\frac{1}{2}$ w	42	39373-278	Resistor, 18,000 ohm, 2 w
17	39373-71	Resistor, 68,000 ohm, $\frac{1}{2}$ w	43	39373-87	Resistor, 470,000 ohm, $\frac{1}{2}$ w
18	39373-60	Resistor, 22,000 ohm, $\frac{1}{2}$ w	44	39001-13	Condenser, .01 mfd, 600 v, paper
19	39373-77	Resistor, 150,000 ohm, $\frac{1}{2}$ w	45	39001-13	Condenser, .01 mfd, 600 v, paper
20	39373-67	Resistor, 47,000 ohm, $\frac{1}{2}$ w	46	39001-13	Condenser, .01 mfd, 600 v, paper
21	39373-107	Resistor, 10 megohm, $\frac{1}{2}$ w	47	39001-13	Condenser, .01 mfd, 600 v, paper
22	39373-107	Resistor, 10 megohm, $\frac{1}{2}$ w	48	39001-13	Condenser, .01 mfd, 600 v, paper
23	39373-80	Resistor, 220,000 ohm, $\frac{1}{2}$ w	49	39001-17	Condenser, .05 mfd, 600 v, paper
24	39373-80	Resistor, 220,000 ohm, $\frac{1}{2}$ w	50	39001-17	Condenser, .05 mfd, 600 v, paper
25	39373-80	Resistor, 220,000 ohm, $\frac{1}{2}$ w	51	39001-17	Condenser, .05 mfd, 600 v, paper
26	39373-80	Resistor, 220,000 ohm, $\frac{1}{2}$ w	52	39001-78	Condenser, .006 mfd, 600 v, paper

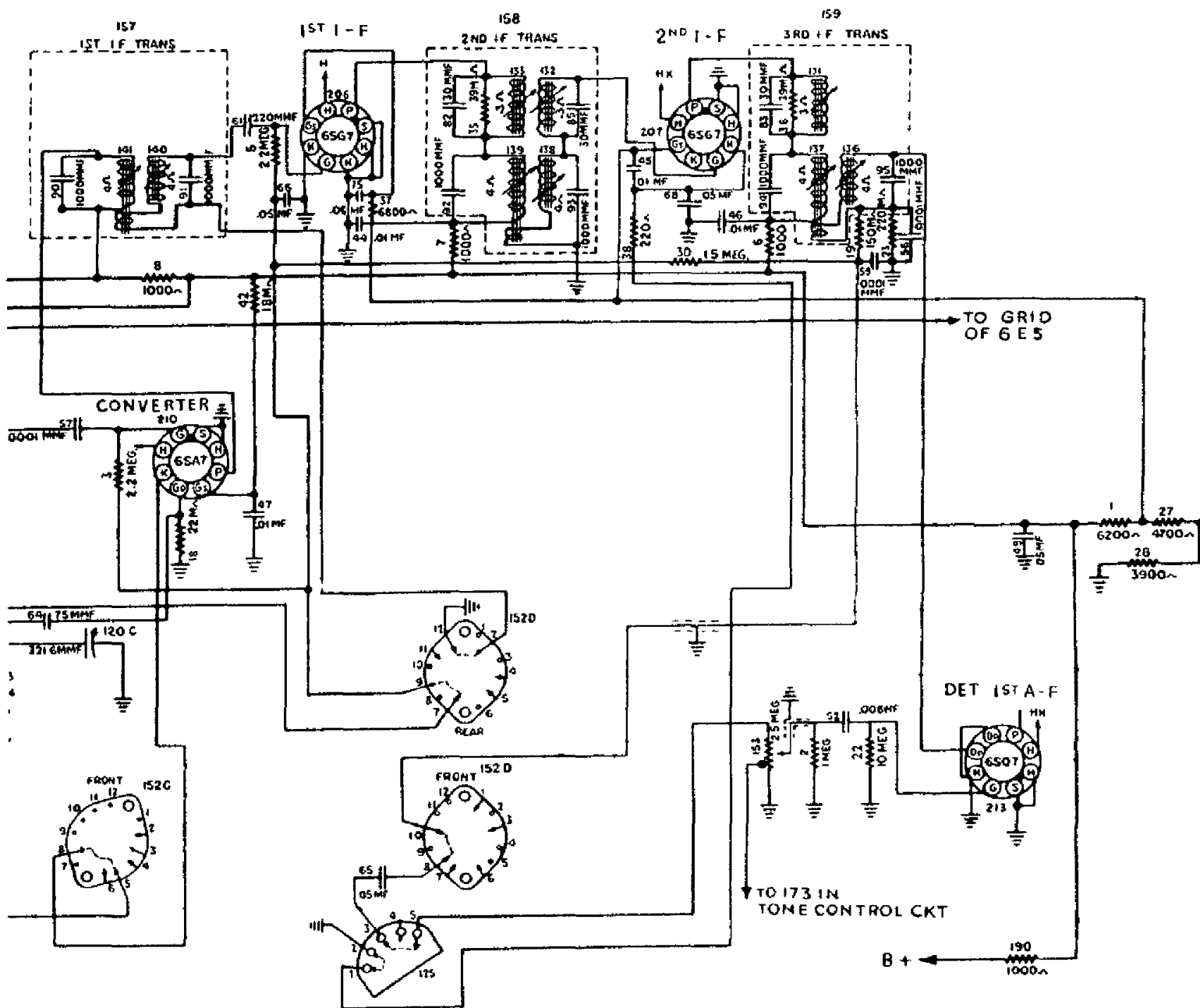
DIVISION
FG. CORP.



Item No	Part No	Description	Item No	Part No	Description
53	39001-78	Condenser, 006 mfd, 600 v, paper	79	B-226638-31	Condenser, 001 mfd, 300 v, ceramic
54	39001-1	Condenser, 0001 mfd, 600 v, paper	80	B-226638-31	Condenser, 001 mfd, 300 v, ceramic
55	B-226638-2	Condenser, 100 mmf, 300 v, ceramic	81	B-226638-31	Condenser, 001 mfd, 300 v, ceramic
56	39001-1	Condenser, 0001 mfd, 600 v, paper	82	Part of Item 158	Condenser, 30 mmf, 500 v, ceramic
57	39001-1	Condenser, 0001 mfd, 600 v, paper	83	Part of Item 159	Condenser, 30 mmf, 500 v, ceramic
58	39001-1	Condenser, 0001 mfd, 600 v, paper	84	Part of Item 159	Condenser, 30 mmf, 500 v, ceramic
59	39001-1	Condenser, 0001 mfd, 600 v, paper	85	Part of Item 158	Condenser, 30 mmf, 500 v, ceramic
60	39004-9	Condenser, 220 mmf, 500 v, mica	86	W-137398-2	Condenser, 1 mmf, 500 v, silver mica
61	39004-9	Condenser, 220 mmf, 500 v, mica	87	G-131502-20	Condenser, 680 mmf, 400 v, silver mica
62	B-226638-54	Condenser, 75 mmf, 500 v, ceramic	88	G-131502-5	Condenser, 500 mmf, 400 v, silver mica
63	B-226638-54	Condenser, 75 mmf, 500 v, ceramic	89	G-131502-5	Condenser, 500 mmf, 400 v, silver mica
64	B-226638-54	Condenser, 75 mmf, 500 v, ceramic	90	Part of Item 157	Condenser, 1,000 mmf, 500 v, mica
65	39001-17	Condenser, 05 mfd, 600 v, paper	91	Part of Item 157	Condenser, 1,000 mmf, 500 v, mica
66	39001-17	Condenser, 05 mfd, 600 v, paper	92	Part of Item 158	Condenser, 1,000 mmf, 500 v, mica
67	39001-17	Condenser, 05 mfd, 600 v, paper	93	Part of Item 158	Condenser, 1,000 mmf, 500 v, mica
68	39001-17	Condenser, 05 mfd, 600 v, paper	94	Part of Item 159	Condenser, 1,000 mmf, 500 v, mica
69	39001-17	Condenser, 05 mfd, 600 v, paper	95	Part of Item 159	Condenser, 1,000 mmf, 500 v, mica
70	39001-76	Condenser, 003 mfd, 600 v, paper	96	Part of Item 156	Condenser, 180 mmf, 500 v, mica
71	39001-76	Condenser, 003 mfd, 600 v, paper	97	Part of Item 156	Condenser, 180 mmf, 500 v, mica
72	39001-76	Condenser, 003 mfd, 600 v, paper	98	Part of Item 156	Condenser, 82 mmf, 500 v, silver mica
73	39001-11	Condenser, 005 mfd, 600 v, paper	99	GC-210685-179	Condenser, 1,460 mmf, 500 v, mica
74	39001-11	Condenser, 005 mfd, 600 v, paper	100	GC-210685-178	Condenser, 4,140 mmf, 500 v, mica
75	39001-17	Condenser, 05 mfd, 600 v, paper	101	GC-210685-168	Condenser, 3,300 mmf, 500 v, mica
76	39001-13	Condenser, 01 mfd, 600 v, paper	102	39004-7	Condenser, 100 mmf, 500 v, mica
77	B-226638-53	Condenser, 50 mmf, 500 v, ceramic	104	B-136327-12	Condenser, Trimmer
78	39004-7	Condenser, 100 mmf, 500 v, mica	105	B-136327-24	Condenser, Trimmer



Item No	Part No	Description	Item No	Part No	Description
106	B-136327-24	Condenser, Trimmer	121	W-43567	Bulb (Dial), Type 51, 7.5 v, 0.2 amp
107	B-136327-25	Condenser, Trimmer	122 A	B-137003	Condenser, 40 mfd, 400 w v } Two Section
108	B-136327-26	Condenser, Trimmer	122 B		Condenser, 20 mfd, 25 w v } Elec Filter
109	B-136327-27	Condenser, Trimmer	123 A	B-137002	Condenser, 50 mfd, 400 w v } Two Section
110	Part of Item 157	Condenser, 16 mmf, 500 v, ceramic	123 B		Condenser, 10 mfd, 300 w v } Elec Filter
111	Part of Item 157	Condenser, 27 mmf, 500 v, ceramic	124	W-135695	Socket, Tube (6E5)
112	B-136327-28	Condenser, Trimmer	125	B-135870	Switch, Phono
113	B-136327-29	Condenser, Trimmer	126	C-132300-2	Cable and Plug, Power
114	Part of Item 189	Condenser, 50 mmf, ceramic	127	B-135600	Transformer, Power
115	B-136327-22	Condenser, Trimmer	128	Part of Item 156	Iron Core
116	B-137001	Transformer, Output	129	Part of Item 156	Iron Core
117 A	W-135818	Condenser, Trimmer	130	Part of Item 159	Iron Core
117 B		Condenser, Trimmer	131	Part of Item 159	Iron Core
117 C		Condenser, Trimmer	132	Part of Item 158	Iron Core
117 D		Condenser, Trimmer	133	Part of Item 158	Iron Core
118 A	W-135821	Condenser, Trimmer	134	Part of Item 157	Iron Core
118 B		Condenser, Trimmer	135	Part of Item 157	Iron Core
118 C		Condenser, Trimmer	136	Part of Item 159	Iron Core
119 A	W-135821	Condenser, Trimmer	137	Part of Item 159	Iron Core
119 B		Condenser, Trimmer	138	Part of Item 158	Iron Core
119 C		Condenser, Trimmer	139	Part of Item 158	Iron Core
120 A	C-134895	Condenser, Variable	140	Part of Item 157	Iron Core
120 B		Condenser, Variable	141	Part of Item 157	Iron Core
120 C		Condenser, Variable			



Item No	Part No	Description	Item No	Part No	Description
142	G-39012-7	Iron Core (P B #6)	159	AC-136112	Transformer, 3rd I F
143	G-39012-7	Iron Core (P B #5)	160	D-137057	Record Changer ("OD" Model 146CS)
144	G-39012-7	Iron Core (P B #4)	161	AW-134089	Coil, P B Oscillator, No 2
145	G-39012-7	Iron Core (P B #3)	162	AW-134090	Coil, P B Oscillator, No 5
146	G-39012-7	Iron Core (P B #2)	163	AW-134091	Coil, P B Oscillator, No 6
147	G-39012-7	Iron Core (P B #1)	164	AW-134092	Coil, P B Oscillator, No 1
148	Part of Item 180	Iron Core	165	AW-134230	Coil, P B Oscillator, No 3
149	W-136778	Cable and Plug, Power (Phono)	166	AW-134231	Coil, P B Oscillator, No 4
150	W-137143	Loop Assy, Transmission Line	167	C-137058	Speaker (Less Transformer)
151	W-135421	Switch, Power	168	39001-17	Condenser, .05 mfd, 600 v, paper
152 A	C-135976	Switch, Band Change	169	39373-33	Resistor, 1,000 ohm, 1/2 w
152 B		Switch, Band Change Four-	170	W-43567	Bulb (Dial), Type 51, 7.5 v, 0.2 amp
152 C		Switch, Band Change Section		138437-4	Bulb (Dial), Type 51, 7.5 v, 0.2 amp
152 D		Switch, Band Change			(Carton of Ten Bulbs)
153	B-135828	Control, Volume (2.5 meg, Tap 750,000 ohm)	171	39001-76	Condenser, .003 mfd, 600 v, paper
	39368-19	Control, Volume	172	39001-76	Condenser, .003 mfd, 600 v, paper
	39370-1	Shaft, Volume (Plug-in)	173	39373-71	Resistor, 68,000 ohm, 1/2 w
154	D-134946-1	Record Changer ("SL", Model 146CS)	174	39373-80	Resistor, 220,000 ohm, 1/2 w
155	W-135741	Switch Assy, P B (Tone)	175	39373-80	Resistor, 220,000 ohm, 1/2 w
156	AC-136090	Transformer, Discriminator	176	W-135742	Switch, P B Tuning
157	AC-136073	Transformer, 1st I F	177	AB-137433	Coupling, F M Antenna
158	AC-136059	Transformer, 2nd I F	178	AW-136737	Coil, Antenna, Secondary
			179	AW-136411	Coil Antenna