			Reference
Index #	Location	Part Name / Description PRELIMINARY	Symbol
1	A1	Riveted locking plate	A216
2	A1	Spur gear	0323
3	A1	Rack gear springs (2 used)	0322
4	A1	7/16-inch retaining ring ("E" snap ring)	H213
5	A1	4-40 square nut	H219
6	A1	Gear clamp	0207
7	A1	3-56 by 1/4-inch socket head screw	H217
8	A1 A1	Gear clamp Bevel gear	H231 O202
10	A1 A2	Bevel gear	0202
10	A2 A2	4-40 by 9/16-inch socket head screw	H218
12	A2	No. 8 split lockwashers (6 used)	H201
13	A2	8-32 by 3/8-inch binder head screws (6 used)	H230
14	A2	Gear bushing .2025 (approx. 13/64) inch thick	0221
15	A2	Gear clamp	H231
16	B1	Washers shim as needed with .01 washers.	H251
17	B1	Mechanical counter	M201
18	A1	No. 4 split lockwashers (4 used)	H202
19	A1	4-40 by 5/16-inch machine screws (4 used)	H227
20	A1	4-40 by 9/16-inch socket head screw	H218
21	A1 B1	Locked clutch gear assembly	O295
22	B1	3-56 by 1/4-inch socket head screw	H217
23	B1	Gear clamp	H231
24	B1	Bevel gear	0212
25	B1	Pressed bevel gear	O296
26	B1	6-32 by 3/16-inch machine screws (2 used)	H228
27	B1	Staked gear post	O252
		Special screw 5-40 .4476	
		Length overall: .4476"	
28	B1	Threads length: .24"	
20	ы	Unthreaded shoulder: .095;	
		Head height: .09"	110.40
20	D1	Head diameter .25 inch.	H240
29	B1	No.5 split lockwasher 1/4" max outside diameter	H212
30	C1	8-32 by 3/8-inch binder head screws (6 used)	H230
31	C1	No. 8 split lockwashers (6 used)	H201
32	A2 B2 B1 C1	Front gear plate	A201
33	B2	4-40 square nut	H219
34	B2	0.312-inch hole gear clamp	H233
35	B2	4-40 by 1/2-inch socket head screw	H215
36	B2	Idler gear	O204
37	B2	Gear bushing .110 (approx. 7/64) inch thick	O242
38	B2	Shaft sleeve	O215
39	C2 C3	Final differential gear assembly	O219

		ning for REF Gear Train Assembly, Exploded Vi	Reference	
Index #	Location	Part Name / Description PRELIMINARY	Symbo	
		Gear panel spacing posts (2 used). One located right-		
		hand edge of front gear plate - other located top-left		
		corner of front gear plate. Overall length is 1.55"		
40	C2 C3	diameter is .315". Each end has a shoulder2185	H236	
40		diameter. One shoulder is .1, the other .03. The .1 end	HZ30	
		goes into the front gear plate (32) while the .03" end		
		goes into the riveted front gear plate (109).		
41	C2	1/4-inch retaining ring (Snap ring)	H224	
41A	C2	Shim(s) - Use .017 brass washer(s) as needed		
42	C2	No. 8 riveted gear	O205	
43	C2	4-40 square nut	H219	
4.4	C1 D1	Coldered real geor	0001	
44	C2 D2	Soldered rack gear	0201	
45	D2	4-40 by 9/16-inch socket head screw	H218	
46	D2 C2	Gear clamp	O208	
47	D2	Retaining ring (Snap ring)	H234	
48	C2 D2	Soldered gear	0392	
49	C2 D2	Spur gear	O254	
50	C2 D2	Gear rack springs (2 used)	O325	
51	D2	4-40 by 9/16-inch socket head screw	H218	
52	C2	Gear clamp	O209	
53	C2	Soldered rack gear	O363	
54	C2	4-40 square nut	H219	
55	C3	4-40 by 1/4-inch machine screws (3 used)	H241	
56	D2 D3	0.5 to 1.0 MHz RF cam, front	0311-1	
57	D2	No. 6/0 taper pin / or .08 X 3/8 spring pin (roll pin)	0311-2	
58	C3	Retaining ring (Snap ring)	H234	
		No. 2 gear assembly consisting of: Retaining ring Spur		
59	C3 D3	gear Springs (2 used) Soldered gear H234 O259 O270		
		0271		
60	C3 D3	2.0 to 4.0 MHz RF cam, front	0313-1	
61	C3	No. 6/0 taper pin / or .08 X 3/8 spring pin (roll pin)	0313-2	
62	C3	8.0 to 16.0 MHz RF cam and gear, front	0315-1	
63	C3	8.0 to 16.0 MHz spur gear	O328	
64	C3	8.0 to 16.0 MHz loading gear	O324	
65	C3	8.0 to 16.0 MHz gear rack springs (2 used)	0273	
66	B2 B3	Pinned spur gear	O390	
67	C3	6-32 by 1/4-inch binder head screws (2 used)	H216	
68	C3	No. 6 split lockwashers (2 used)	H203	
69	C3	No. 6 flat washers (2 used)	H213	
70	C3	Detent spring	O244	
71	B3 C3	0.312-inch hole gear clamp	H233	
72	C3	4-40 by 1/2-inch socket head screw	H215	
73	C3	Differential shaft	O206	
74	C3 C4	Pinned gear assembly	0261	
75	C3	No. 6/0 taper pin / or .08 X <b>1/2</b> spring pin (roll pin)	0315-2	
76	C4	Washers (2 used) .013 thick (each)	H254	

	201		Reference	5.00
Index #	Location	Part Name / Description PRELIMINARY	Symbol	
		Shim as needed .005 thick washers Note: may also be	ojiiooi	
76A	C4	used on other end shaft #74 as well.		
77	C4	Gear bushing .2054 (13/64) inch thick	0222	
78	C3 C4	Gear bushing .215 (7/32) inch thick	0223	
79	C3	Spur gear	0243	
80	B3	4-40 square nut	H219	
81	B3	7/16-inch retaining ring	H213	
82	B3	4-40 by 9/16-inch socket head screw	H218	
83	B3	Gear clamp	0211	
84	B3	4-40 square nut	H219	
85	B2	1/4-inch E-type retaining ring	H222	
86	B2	Pressed gear	O253	
87	B3 A3	Switch gear assembly (Geneva Gear Assy).	O307	
87A	A3	Ball, Geneva Gear .1871 (just under 3/16) Inch diameter	er (4.5mm ball	should work OK).
88	A3	Retaining ring (Snap ring or "E" clip)	H237	
89	B3	Multi-turn gear springs (2 used)	O319	
90	B3	Megahertz gear	O218	
91	B3	Soldered megahertz gear	0321	
92	B3	Wash .01" brass	H251	
93	B3	Spur gear	O245	
94	B3 B4	Pinned stop assembly	O316	
95	B4 A4	Pinned gear assembly	O246	
96	B4	Washers, steel (or plated brass, magnetic) (2 used)	H254	
04.4	Δ.4	.012" thick. Shims as needed .01 brass		
96A	A4	Panel spacing posts (4 used) Length: 1.412" Diameter		
97	B4	.315 Do not confuse with Index #40	H235	
98	B4	4-40 square nut	H219	
99	B4	0.312-inch hole gear clamp	H233	
100	B4	4-40 by 1/2-inch socket head screw	H215	
100	B3 B4	RF stop assembly	0317	
101	B3 B4	1/8-inch E-type retaining ring	H221	
102A	B4	Shim Washers as needed	11221	
103	B4	Locking gear (Shim to mesh correctly with 87)	O203	
104	C4	Washer01 Brass shims as needed	H251	
105	C4	Washer, steel .012	H253	
106	C4	Retaining ring	H234	
107	C4	8-32 by 5/16-inch flathead machine screw	H226	
108	C4	8-32 by 5/16-inch flathead machine screws (3 used)	H226	
109	B5 C5	Riveted front gear plate	A202	
	B4 C4 D4			
110	B5	Pinned gear	0283	
111	C5	No. 8 split lockwashers (3 used)	H201	
112	C5	8-32 by 3/8-inch machine screws (3 used)	H230	
113	B5	5/16-inch flat washer	H214	
114	B5	4-40 square nut	H219	
115	B5	Gear clamp	0210	
116	B5	4-40 by 9/16-inch socket head screw	H218	

Index #	Location	Part Name / Description PRELIMINARY	Referenc Symbol
117	B5	Oscillator spur gear	0241
118	C5	Cam plate brackets (2 used)	A206
119	C5	No. 6 split lockwashers (2 used)	H203
120	C5	6-32 by 7/16-inch machine screws (2 used)	H255
121	C5	1/4-inch retaining ring	H224
122	C5	Washer, steel .012	H251
123	C5	Washer01 Brass shims as needed	H253
124	C5	Oscillator dial hub	0240
125	C5	1/4-inch retaining ring	H224
126	D4	6-32 by 3/8-inch flathead machine screws (6 used)	H225
127	D4	6-32 by 3/8-inch flathead machine screw	H225
128	D4	No. 6 split lockwashers (4 used)	H203
.20		Loaded rack gear assembly consisting of: Retaining	
129	D3	ring Springs (2 used) Spur gear Soldered gear H234	
127	00	O247 O254 O262	
130	D3 D4	6-32 by 3/8-inch Phillips-head screws (4 used)	H229
130	D3	4-40 square nut	H219
132	D3	0.312-inch hole gear clamp	H233
133	D3	4-40 by 1/2-inch socket head screw	H215
100	00	No. 4 gear assembly consisting of: Spur gear Springs	11210
134	D3 E3	(2 used) Spur gear Soldered gear O253 O273 O274	
134	DJLJ	0324	
135	D4	4-40 square nut	H219
136	E3 E4	0.312-inch hole gear clamp	H233
130	E4	4-40 by 1/2-inch socket head screw	H215
138	E3	4-40 square nut	H219
139	E3	0.312-inch hole gear clamp	H233
140	E3	4-40 by 1/2-inch socket head screw	H215
110	20	Loaded rack gear assembly consisting of: Retaining	11210
141	E4	ring Springs (2 used) Spur gear Soldered gear H234	
171	LT	0247 0254 0262	
142	E4	16.0 to 32.0 MHz RF cam, front	0310-1
143	E4	No. 6/0 taper pin / or .08 X 3/8 spring pin (roll pin)	0310-2
144	E4	4.0 to 8.0 MHz RF cam, front	0314-1
145	D4 E4	No. 6/0 taper pin / or .08 X 3/8 spring pin (roll pin)	0314-2
146	D1L1	1.0 to 2.0 MHz RF cam, front	0312-1
147	D4	No. 6/0 taper pin / or .08 X 3/8 spring pin (roll pin)	0312-2
148	D4	Rack panel spacing posts (3 used) 5-19/32 inches	H244
149	D4 D5 C5	Pressed cam plate	A209
150	D 1 D0 00	No. 6 split lockwashers (4 used)	H203
151	D1	6-32 by 3/8-inch machine screws (4 used)	H229
152	D0	Rack panel short posts (3 or 4 used) .5466 inches	H242
	D5	1.0 to 2.0 MHz RF cam, inner	0312-3
		No. 6/0 taper pin / or .08 X 3/8 spring pin (roll pin)	0312-3
153	105		00124
153 154	D5		0311-3
153 154 155	D5	4.0 to 8.0 MHz RF cam, rear	O314-3
153 154			O314-3 H243 O311-3

		5	Reference
Index #	Location	Part Name / Description PRELIMINARY	Symbol
159	D6	No. 6/0 taper pin / or .08 X 3/8 spring pin (roll pin)	O313-3
160	D6	8.0 to 16.0 MHz RF cam, inner	O315-3
161	D6	No. 6/0 taper pin / or .08 X 3/8 spring pin (roll pin)	O315-4
162	D6	2.0 to 4. 0 MHz RF cam, rear	O313-4
163	D6	2.0 to 4.0 MHz RF camshaft	O313-5
164	D6 D5	0.5 to 1.0 MHz RF camshaft	O311-5
165	D5	16.0 to 32.0 MHz RF cam, rear	O310-3
166	D5	No. 6/0 taper pin / or .08 X 3/8 spring pin (roll pin) O31	10-4 0314-4
167	D5	4.0 to 8.0 MHz & 16.0 to 32.0 MHz RF camshafts	
107	Do	O314-5 O310-5	
168	C6	Trimmer shaft	O236
169	C6	Trimmer shaft insulator	E227
170	C6	Helical driven gear	O318
171	C6	Helical gear clamp	H245
170	C6 C7	Helical gear bushing .1269 inches thick	O256
172	D6 D7		
173	D7	Special washer, spring, .0173 inches thick	H232
174	D7	3/16-inch retaining ring	H223
175	C6 D6	8-32 by 1/8-inch setscrew	H220
176	D6	Pressed cam plate	O306
177	D6 D7	Pressed auxiliary cam plate	A208
178	D6	No. 6 split lockwashers	H203
179	D6	6-32 by 3/8-inch machine screw	H229
180	D7	Camshaft	O315-5
181	D7	1- to 2-mc camshaft	O312-5
182	D7	Soldered rf cam	O312-6
183	D7	No. 6/0 taper pin / or .08 X 3/8 spring pin (roll pin)	0312-7
184	D7	Soldered rf cam	O315-6
185	D7	No. 6/0 taper pin / or .08 X 3/8 spring pin (roll pin)	O315-7
	-		

#### Zoning for REF Gear Train Assembly, Exploded View Figure 6-36

a Index No. 129 and 141 consist of H234, O262, O254, and O247.

b Index No. 134 consists of O253, O273, O274, and O324.

c Index No. 59 consists of H234 O259 O270 O271.

Note: Parts O311 through O315 make up the entire camshaft assembly.