

GENERAL

The chart on the back side of these instructions provides binary codes to program (calibrate) the tachometer. The tachometer processes signals generated by a rotating flywheel or other rotating gear. The number of teeth on the flywheel determines the binary code used to program the tachometer. The chart lists the flywheels in terms of the number of teeth the flywheels have.

The chart is divided into three columns. The first column lists numbers which represent the number of teeth on the flywheel. The second column lists the corresponding 8-digit binary code used to set the DIP switch to program the tachometer.

The third column lists a number representing the frequency of a test signal that can be used to check the DIP switch settings.

TACHOMETER PROGRAMMING

Determine the number of teeth on the flywheel. Locate this number in the first column of the chart and note the binary code in the second column. Set the DIP switch to match this binary code as follows:

- A. Remove snap-on cover from DIP switch opening located at bottom of the rear of the tachometer case.
- B. Using a pointed tool (Figure 1), set DIP switch to the binary code.

See illustration in Figure 2 showing DIP switch setting for tachometer programmed for flywheel with 103 teeth.

CAUTION: To insure correct programming, hold case so that arrow above the word "TOP" points up, then set switches from left to right.

- C. Replace snap-on cover.

CHECKING DIP SWITCH SETTING

The third column of the chart lists a test signal frequency for each binary code listed. This test signal can be applied to the tachometer to check whether the DIP switch has been properly set to the binary code.

For example, a 1717 Hertz test signal is listed for the binary code 01010010 (103 teeth on the flywheel). When the 1717 Hertz test signal is applied to a tachometer properly programmed for 01010010, the meter pointer will deflect to the 1000 RPM mark on the dial. NOTE: Doubling, tripling, and quadrupling the test signal will deflect the tachometer pointer to 2000, 3000 and 4000 RPM respectively.

For further information regarding installation, call Motorola at (312) 576-5235.

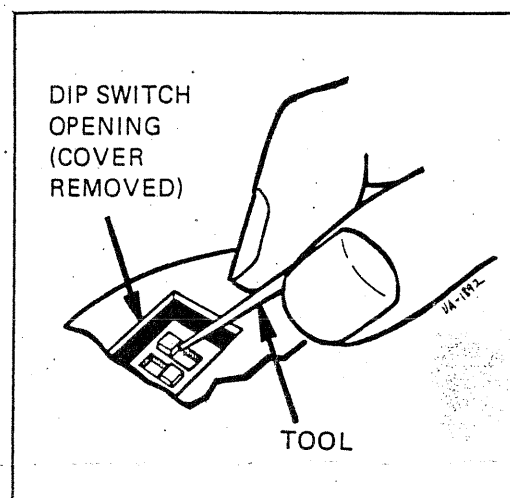


FIGURE 1

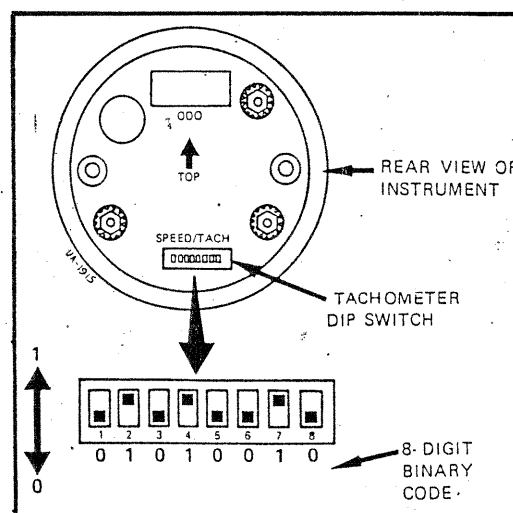


FIGURE 2

CALIBRATION CHART (BINARY CODE)

NO. OF TEETH	BINARY CODE	FREQ. (Hz)*
75	00100000	1250
76	11100000	1267
77	11010000	1283
78	01110000	1300
79	10001000	1317
80	00101000	1333
81	11101000	1350
82	01011000	1367
83	10111000	1383
84	00000100	1400
85	01000100	1417
86	10100100	1433
87	11100100	1450
88	01010100	1467
89	00110100	1483
90	11110100	1500
91	10001100	1517
92	00101100	1533
93	01101100	1550
94	00011100	1567
95	01011100	1583
96	00111100	1600
97	11111100	1617
98	00000010	1633
99	01000010	1650
100	00100010	1667
101	01100010	1683
102	00010010	1700
103	01010010	1717
104	00110010	1733
105	01110010	1750
106	11110010	1767
107	10001010	1783
108	11001010	1800
109	00101010	1817
110	01101010	1833
111	00011010	1850
112	10011010	1867
113	11011010	1883
114	00111010	1900
115	01111010	1917
116	11111010	1933
117	10000110	1950
118	01000110	1967
119	00100110	1983

* FREQ (Hz) @ 1000 RPM

NO. OF TEETH	BINARY CODE	FREQ. (Hz)*
120	10100110	2000
121	01100110	2017
122	00010110	2033
123	10010110	2050
124	01010110	2067
125	11010110	2083
126	10110110	2100
127	01110110	2117
128	11110110	2133
129	00001110	2150
130	10001110	2167
131	01001110	2183
132	00101110	2200
133	10101110	2217
134	01101110	2233
135	11101110	2250
136	00011110	2267
137	10011110	2283
138	01011110	2300
139	11011110	2317
140	00111110	2333
141	10111110	2350
142	01111110	2367
143	11111110	2383
144	00000001	2400
145	00000001	2417
146	10000001	2433
147	01000001	2450
148	11000001	2467
149	00100001	2483
150	10100001	2500
151	01100001	2517
152	11100001	2533
153	11100001	2550
154	00010001	2567
155	10010001	2583
156	01010001	2600
157	01010001	2617
158	11010001	2633
159	00110001	2650
160	10110001	2667
161	01110001	2683
162	01110001	2700
163	11110001	2717
164	00001001	2733

* FREQ (Hz) @ 1000 RPM

NO. OF TEETH	BINARY CODE	FREQ. (Hz)*
165	00001001	2750
166	10001001	2767
167	01001001	2783
168	01001001	2800
169	11001001	2817
170	00101001	2833
171	00101001	2850
172	10101001	2867
173	01101001	2883
174	01101001	2900
175	11101001	2917
176	00011001	2933
177	00011001	2950
178	10011001	2967
179	10011001	2983
180	01011001	3000
181	11011001	3017
182	11011001	3033
183	00111001	3050
184	00111001	3067
185	10111001	3083
186	10111001	3100
187	01111001	3117
188	01111001	3133
189	11111001	3150
190	00000101	3167
191	00000101	3183
192	10000101	3200
193	10000101	3217
194	01000101	3233
195	01000101	3250
196	11000101	3267
197	11000101	3283
198	00100101	3300
199	00100101	3317
200	10100101	3333
201	10100101	3350
202	01100101	3367
203	01100101	3383
204	11100101	3400
205	11100101	3417

* FREQ (Hz) @ 1000 RPM