



900 Series Tachometer

Calibration Switch Settings

Doc. Number 072-40272C





The eight DIP switches on the back of AMETEK's 900 Series tachometers must be set to the correct positions for the tachometer to function properly. To determine the correct positions and set the calibration switches, perform the steps in Figure 1.

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1. If the vehicle has an electronic engine, set switches S5 and S6 **ON**, and the rest of the switches **OFF**.
2. If the vehicle does not have an electronic engine, use the table at the right to find the number of teeth on the flywheel. If your vehicle is not listed, consult the vehicle's manufacturer.
3. Locate the number of teeth on the flywheel in the left column of the 900 Series Tachometer Calibration Table, and set the switches shown in the right column **ON**.

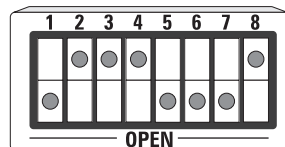
ENGINE TYPE	TEETH
All Cummins w/ Allison 700 trans.	118
All Cummins wo/ Allison 700 trans.	103
Caterpillar 3208B	113
Caterpillar 3306B	156
Caterpillar 3406B	113
All Detroit Diesel and Mack trucks	118

EXAMPLE: Suppose your vehicle is equipped with a Caterpillar 3406B engine. The table above shows 113 teeth on the flywheel for this particular engine. The right column in the 900 Series Tachometer Calibration Table shows switches 2, 3, 4, and 8 should be **ON**. The rest should be off.

Calibration Switches

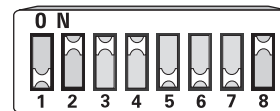
Both switch arrays are shown with switches 2, 3, 4, and 8 **ON**.

Typical Rocker Switch



A switch is **ON** or closed when the end nearest the numbers is down (as indicated by the ●).

Typical Slide Switch



A switch is **ON** or closed when the N is up.

Note: If your tachometer has rocker-type switches, press the appropriate end of the switch with a suitable tool (NOT a pencil!) that is not likely to break off inside the tachometer. Pressing in at the top of the switch turns the switch **ON**, pressing in at the bottom of the switch turns the switch **OFF**. If your tachometer has slide-type switches, slide them in the appropriate direction.

Figure 1

AMETEK® 900 Series Tachometer Calibration Table
DIXSON

# Flywheel Teeth	Set These Switches ON
12	5,6
75	2,5,7,8
76	2,5,6
77	2,5,6,8
78	2,5,6,7
79	2,5,6,7,8
80	2,4
81	2,4,8
82	2,4,7
83	2,4,7,8
84	2,4,6
85	2,4,6,8
86	2,4,6,7
87	2,4,6,7,8
88	2,4,5
89	2,4,5,8
90	2,4,5,7
91	2,4,5,7,8
92	2,4,5,6
93	2,4,5,6,8
94	2,4,5,6,7
95	2,4,5,6,7,8
96	2,3
97	2,3,8
98	2,3,7
99	2,3,7,8
100	2,3,6
101	2,3,6,8
102	2,3,6,7
103	2,3,6,7,8
104	2,3,5
105	2,3,5,8
106	2,3,5,7
107	2,3,5,7,8

# Flywheel Teeth	Set These Switches ON
108	2,3,5,6
109	2,3,5,6,8
110	2,3,5,6,7,
111	2,3,5,6,7,8
112	2,3,4
113	2,3,4,8
114	2,3,4,7,
115	2,3,4,7,8
116	2,3,4,6
117	2,3,4,6,8
118	2,3,4,6,7
119	2,3,4,6,7,8
120	2,3,4,5
121	2,3,4,5,8
122	2,3,4,5,7
123	2,3,4,5,7,8
124	2,3,4,5,6
125	2,3,4,5,6,8
126	2,3,4,5,6,7
127	2,3,4,5,6,7,8
128	1
129	1,8
130	1,7
131	1,7,8
132	1,6
133	1,6,8
134	1,6,7
135	1,6,7,8
136	1,5
137	1,5,8
138	1,5,7
139	1,5,7,8
140	1,5,6
141	1,5,6,8

# Flywheel Teeth	Set These Switches ON
142	1,5,6,7
143	1,5,6,7,8
144	1,4
145	1,4,8
146	1,4,7
147	1,4,7,8
148	1,4,6
149	1,4,6,8
150	1,4,6,7
151	1,4,6,7,8
152	1,4,5
153	1,4,5,8
154	1,4,5,7
155	1,4,5,7,8
156	1,4,5,6
157	1,4,5,6,8
158	1,4,5,6,7
159	1,4,5,6,7,8
160	1,3
161	1,3,8
162	1,3,7
163	1,3,7,8
164	1,3,6
165	1,3,6,8
166	1,3,6,7
167	1,3,6,7,8
168	1,3,5
169	1,3,5,8
170	1,3,5,7

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