

TACHOMETER OPERATION AND SERVICE INSTRUCTIONS

Sun Tachometers using the EB transmitters can indicate certain ignition system troubles by erratic or unstable operation. The cause of this condition is usually poor distributor point condition or improper dwell adjustment. (Dwell is the number of distributor degrees that the points remain closed).

The tachometer is triggered by the "open and close" signal pulses from the breaker points in the ignition primary circuit. The tachometer transmitter must sense these pulses and activate the tachometer meter movement. These pulses can vary in time and duration, depending on the point condition and dwell adjustment. If the points have excessively long dwell periods, there will not be sufficient time for the transmitter to react completely. When this condition occurs, the meter movement will not receive the proper signal from the transmitter. The result will be erratic operation of the tachometer. Therefore, it is essential that the manufacturer's specified dwell setting be maintained at all times.

Due to the reaction time required by the transmitter, maximum dwell settings for proper tachometer should not exceed the following: 8 cylinder engines 36°, 6 cylinder engines 48°, and 4 cylinder engines 72°.

Erratic tachometer indications, caused by ignition point bounce, can indicate a broken contact point spring or a point spring with insufficient tension.

SERVICE INSTRUCTIONS

Model EB-A transmitters are factory adjusted to operate on standard ignition systems. If for any reason the tachometer indication is erratic, a slight adjustment of the relay spring tension should be made as follows: Remove large chrome screw on top cover. Then with a small screwdriver turn the hex nut clockwise or counterclockwise until the tachometer reading is steady at high engine speeds with units connected.

MERCURY CELL REPLACEMENT

Remove cover held in place by four screws through the transmitter base. Take out the old mercury cells and snap the new cells in place as shown below. Sun Part #1766-7 is required for all; Model EB-A transmitters. (Older Model EB requires Sun Part #1766-2A with solder tab).

