

WarP Motor Speed Sensor Kit Installation Manual EV Source, LLC

This guide is intended to be a step-by-step manual for installing the WarP Motor Speed Sensor Kit (EVS P/N 301-WP-SS-E875/E1125) to an existing tachometer.

Mounting to the Motor

1. Mount the steel bracket and sensor to the commutator end of the motor.
2. Slide the exciter ring over the shaft until the sensor points directly at the ring. A distance of 1/16" between the ring and sensor is recommended.
3. Tighten the set screws on the exciter ring evenly until firm.

Wiring to the existing Tachometer

1. Place small piece of heat shrink tubing (or be prepared with electrical tape) over the leads of the adapter cable.
2. Solder the leads of the adapter cable to the corresponding leads of the existing tachometer. An appropriate resistor may be required prior to soldering the connections. Consult your tachometer's documentation for help in deciding which resistor is required.

The pin output is as follows

GND (Black) - Ground for sensor

SIG (Green) - signal from sensor

12Vo (Red) - 12 volts, current limited, to power the sensor.

3. Slide the heat shrink tubing over the soldered connections and heat until properly shrunk, or wrap each connection with electrical tape. Then wrap all three connections as a bundle with electrical tape.
4. Plug the 4 pin connection from the speed sensor into the 4 pin connection of the adapter cable.