TURBO SPEED SENSOR INSTALLATION

Parts Needed:

PEL015-9500 - Turbocharger Speed Sensor

PEL015-9410 – Turbo Speed Connector Kit (OR) PEL016-6312 – Racepak Turbo Speed Module

Installation Instructions

NOTE:

To install your turbocharger speed sensor, you will need to have a compressor cover that is machined to accept M6 X 0.5

You can contact Precision Turbo & Engine if your PTE compressor cover is not already machined. *Charges Apply







Thread the locking nut towards the body of the sensor. Then thread the sensor into the compressor cover. Do not tighten the locking nut at this time. With the compressor housing assembled on turbo charger. Screw in sensor until it just touches the compressor wheel blades as you rotate it. Then back sensor out 1-1/2 to 2 turns and tighten locking nut. The face of the sensor will be below the curved surface of housing.

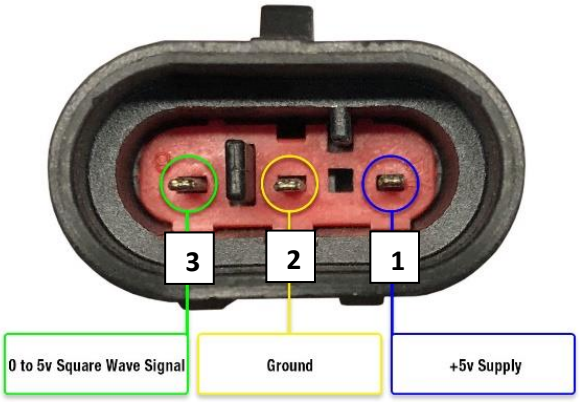
Wiring Instructions

NOTE: When using the PEL015-9410 connector kit, customer must supply wire and proper crimping tools for install.

When wiring the speed sensor into your EFI or Data Logger, pins are as follows;

- PIN 1 +5V Supply
- PIN 2 Ground
- PIN 3 0 to 5V Square Wave Signal

Sensor Output:
Fixed-amplitude square wave signal with a frequency proportional to speed and 50% duty cyclespeed. Sensor count 8 per revolution.



Speed Sensor Signal

<u>For EFI systems that convert the sensor signal to RPM, then a conversion factor will need to be used</u>.

Conversion Factor = (8/n)
Where n = Total Blade Count

Example: ***14 Blade Unit = (8/14) = 0.66***

<u>For EFI systems that must be calibrated using frequency.</u>

*Shaft RPM = (480 / Number of Blades) * Frequency*

Example: ***68,571 = (480 / 14) * 2000***