

Product Description

The 454T Alternator RPM Monitor is for use with remote engine starters or security systems that requires an RPM input and is designed as an alternative to direct connection to vehicle tachometer or fuel injector wires. It detects electrical spikes in the vehicles electrical system and converts them into an output that simulates a tachometer.

Wire Connection Guide

BLACK: Connect this wire to vehicle chassis ground.

RED (+) 12 Volt Input: Connect this wire to a fused source of constant 12V.

ORANGE: This wire is connected to **only** one of the three wires (WHITE, YELLOW or GREEN) listed below.

WHITE: Tachometer 1 raw signal.

YELLOW: Tachometer 2 raw signal.

GREEN: Tachometer 3 raw signal.

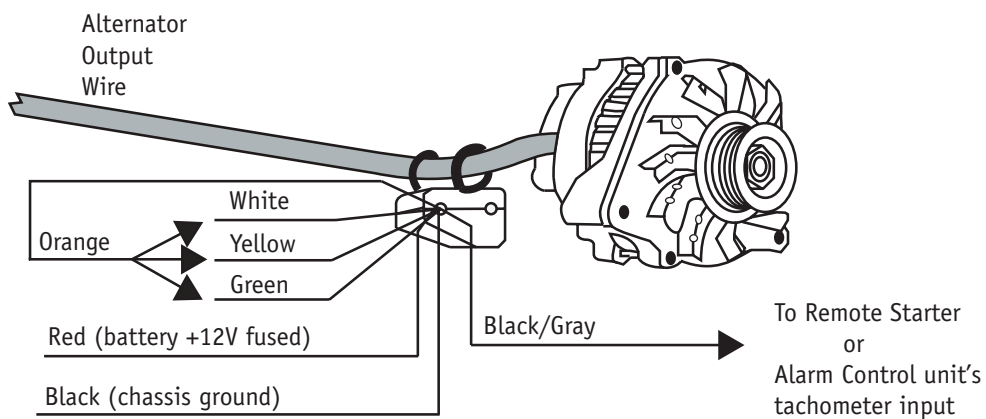
BLACK/GRAY: Conditioned tachometer signal input to remote starter/alarm control unit.

Installation

1. The module should be attached to the heavy gauge power wire that runs from the alternator.
2. Loosely attach it to the power wire as closely as possible to the alternator using the supplied 14" wire ties and leave a small amount of slack in the module wire harness so it can be easily repositioned during system programming of the tach input.
3. Connect the RED wire to a fused constant 12V power supply.
4. Connect the BLACK wire to any metal chassis ground point that has been properly prepared.
5. Connect the BLACK/GRAY wire to the tachometer input of the remote start or security system.
6. Vehicle alternator output pulsing varies greatly and is dependent on vehicle manufacturer, alternator capacity and engine size. For that reason testing may be required when connecting the remaining wires to obtain the optimum tachometer signal.
7. The ORANGE will be connected to one of the remaining GREEN, YELLOW and WHITE wires.
8. Each of the GREEN, YELLOW AND WHITE wire outputs compensate for the vehicle characteristic alternator pulses so the module can produce a quality tachometer signal.

- a. Temporarily twist the ends of the ORANGE and GREEN wires together. Start the engine with the key. The LED on the module should illuminate and be on solid or flickering rapidly. If the LED is not illuminated reposition the module closer to the alternator.
 - b. Perform the tach programming steps in the instruction manual of the remote start or security system.
 - c. Test the remote start or security system functions that are controlled by the tachometer input for proper operation.
9. If any of the tachometer controlled features do not operate properly the ORANGE wire may need to be connected to the YELLOW or WHITE wires for proper operation.
 10. After confirming proper operation of the remote start or security systems, make permanent the connection of the ORANGE wire to the wire that produces the best results.
 11. Complete the installation by tightening the wire ties to secure the module to the alternator main power wire. Properly terminate any unused wires and then route, loom and secure all wires.

Wiring Guide



Note: Connect the ORANGE wire to only one wire (WHITE, YELLOW, or GREEN).