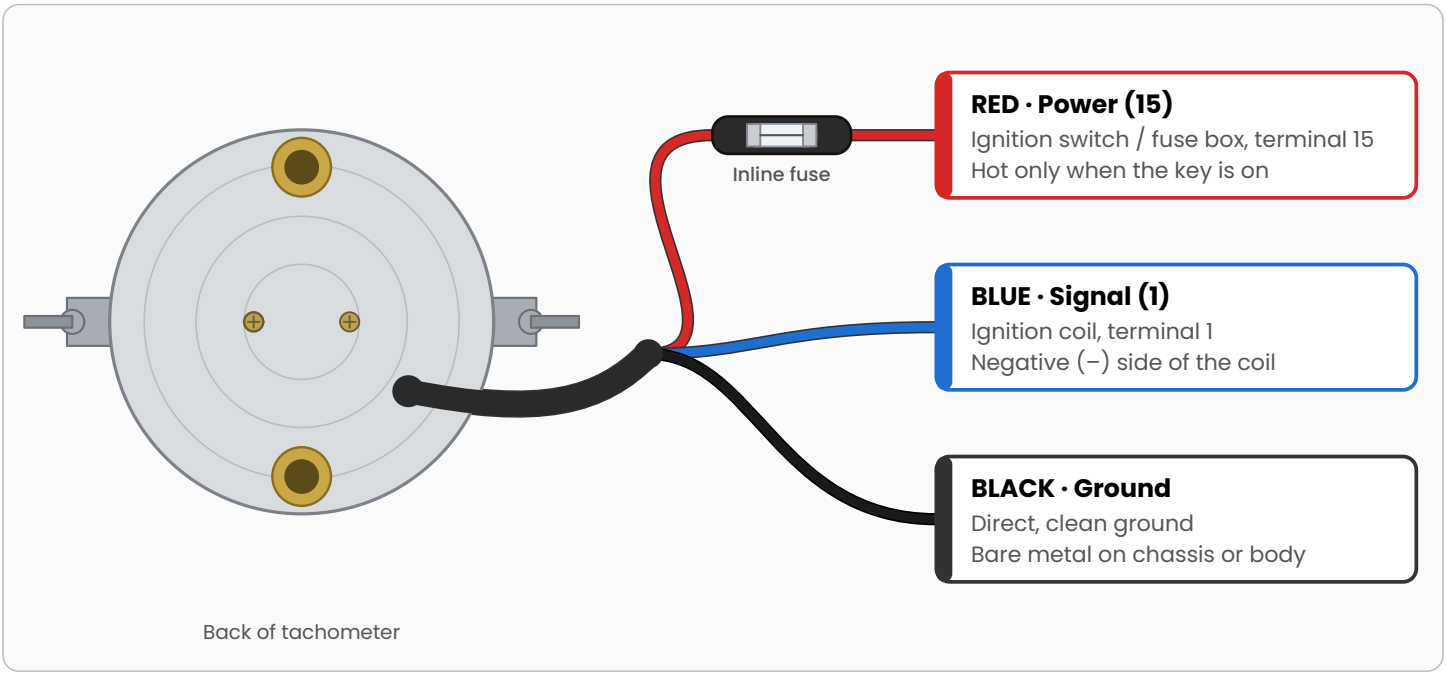
Tachometer Installation

Wiring, lighting and troubleshooting · All ISP West tachometers

These instructions apply to all ISP West tachometers. Every tach has a main harness with three wires (red, blue and black). Models with built-in LED lighting also have a second, smaller harness for the lights.

How to Connect

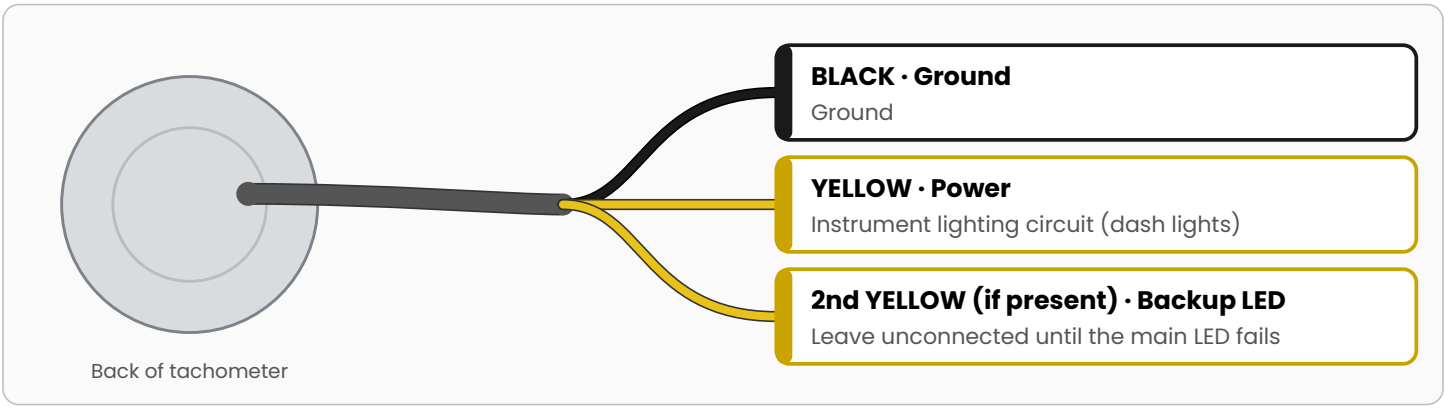


Wire	Function	Connect to
Red	Power (15)	Switched power: hot **only** when the key is on (terminal 15). Install an inline fuse to protect the tach.
Blue	Signal (1)	Negative (–) side of the ignition coil (terminal 1).
Black	Ground	Direct ground to clean, bare metal.

Tip: Use a switched source for the red wire. If it is connected to constant power (terminal 30), the tach will stay powered with the key off and can drain the battery.

How to Connect Lighting

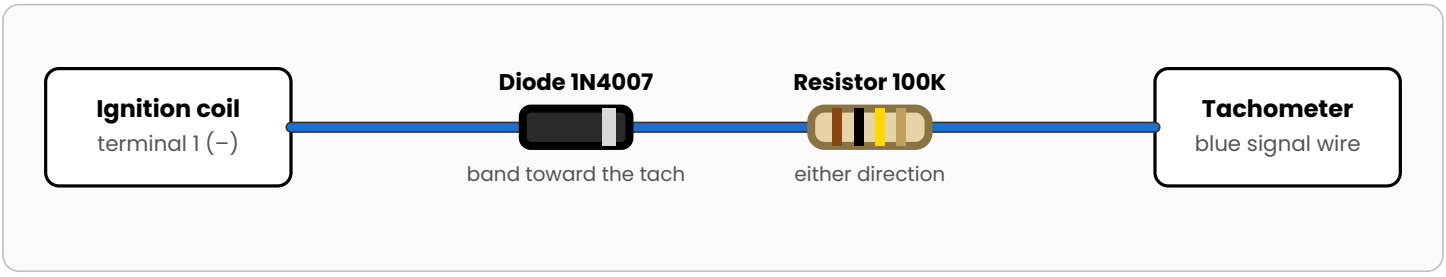
If your tach has built-in LED lighting, a **second harness** comes out the back with 2 or 3 wires: one black and one or two yellow.



- **Black** is ground.
- **Yellow** is power. Connect it to the instrument lighting circuit so the tach lights with your other gauges.
- **A second yellow wire**, if your unit has one, powers a backup LED in case the main LED burns out. Connect one yellow wire and tape off the other; if the light ever goes out, move the power connection to the spare yellow wire.

Troubleshooting: Jumping Needle

Electrical noise in the ignition system can make the needle jump or read erratically, as noted in the instructions included with every tach. First check all basic ignition components (coil, points or electronic module, distributor cap, rotor, plug wires and grounds) for quality, condition and function. **If the needle still jumps**, install a resistor and a diode in the blue signal wire:



Part	Value	What it does
Resistor	100K (100,000 ohm)	Filters out the electrical noise.
Diode	1N4007	Lets the signal travel one way only, so it cannot return.

Pertronix users: customers running a Pertronix electronic ignition module with a stock coil will need to install this resistor and diode for a steady tach reading.