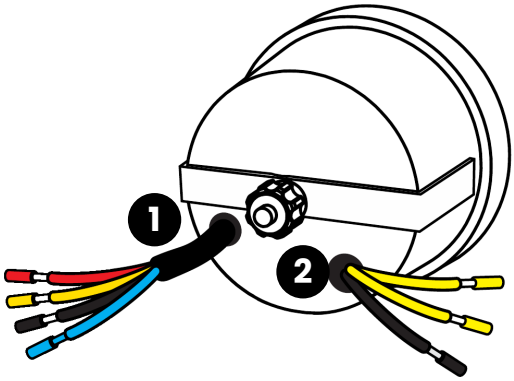
Fuel Gauge – 52 mm

12V Stepper Motor and Standard Versions

This sheet covers both versions of our 52 mm fuel gauge. Check the back of your gauge: the **stepper motor** version has two wiring harnesses (whips), and the **standard** version has terminals on the back marked +12V, S and ground. Follow the section for your version.

Stepper Motor Version

Two wiring harnesses (whips)



1 Whip 1 – Power and signal

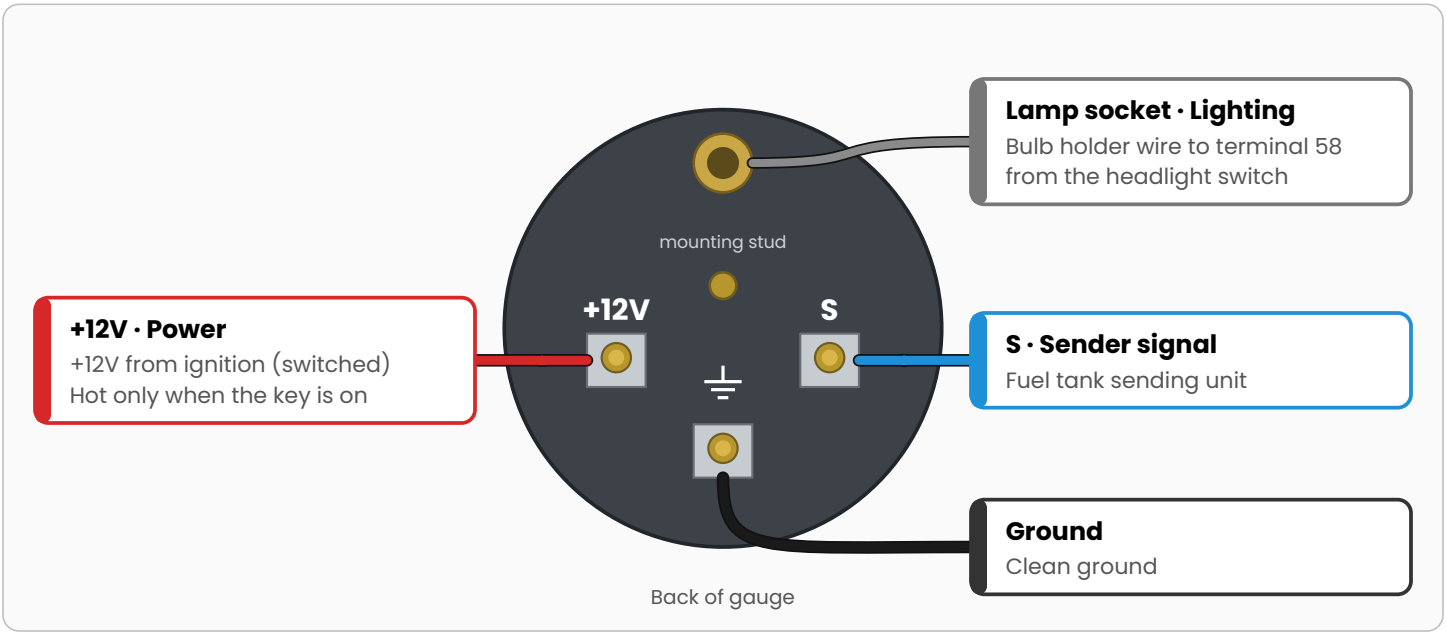
Wire	Connect to
Red	Battery +12V (constant power)
Yellow	+12V from ignition (switched; hot only with the key on)
Black	Ground
Blue	Signal from the fuel tank sending unit

2 Whip 2 – Lighting

Wire	Connect to
Black	Ground
Yellow or white	Terminal 58 from the headlight switch (instrument lighting)
Yellow or white	Backup LED: leave unconnected until the main LED fails

Important: on the stepper version, the **red** wire must be connected to constant 12V battery power and the **yellow** wire to switched (keyed) 12V power for the gauge to work properly.

Standard Version Terminals on the back



Terminal	Connect to
+12V	+12V switched power from the ignition (hot only with the key on).
S	Signal wire from the fuel tank sending unit.
Ground symbol	Ground.
Lamp socket	Illumination bulb. Connect the bulb holder wire to terminal 58 from the headlight switch, so the gauge lights with your other instruments.

Tip: the center stud is for the mounting bracket only; it is not an electrical connection. Wire colors in the diagram are for clarity only.

Fuel sending unit (both versions): the gauge must be used with a compatible fuel tank sending unit. A sender with a different resistance range will cause incorrect readings.