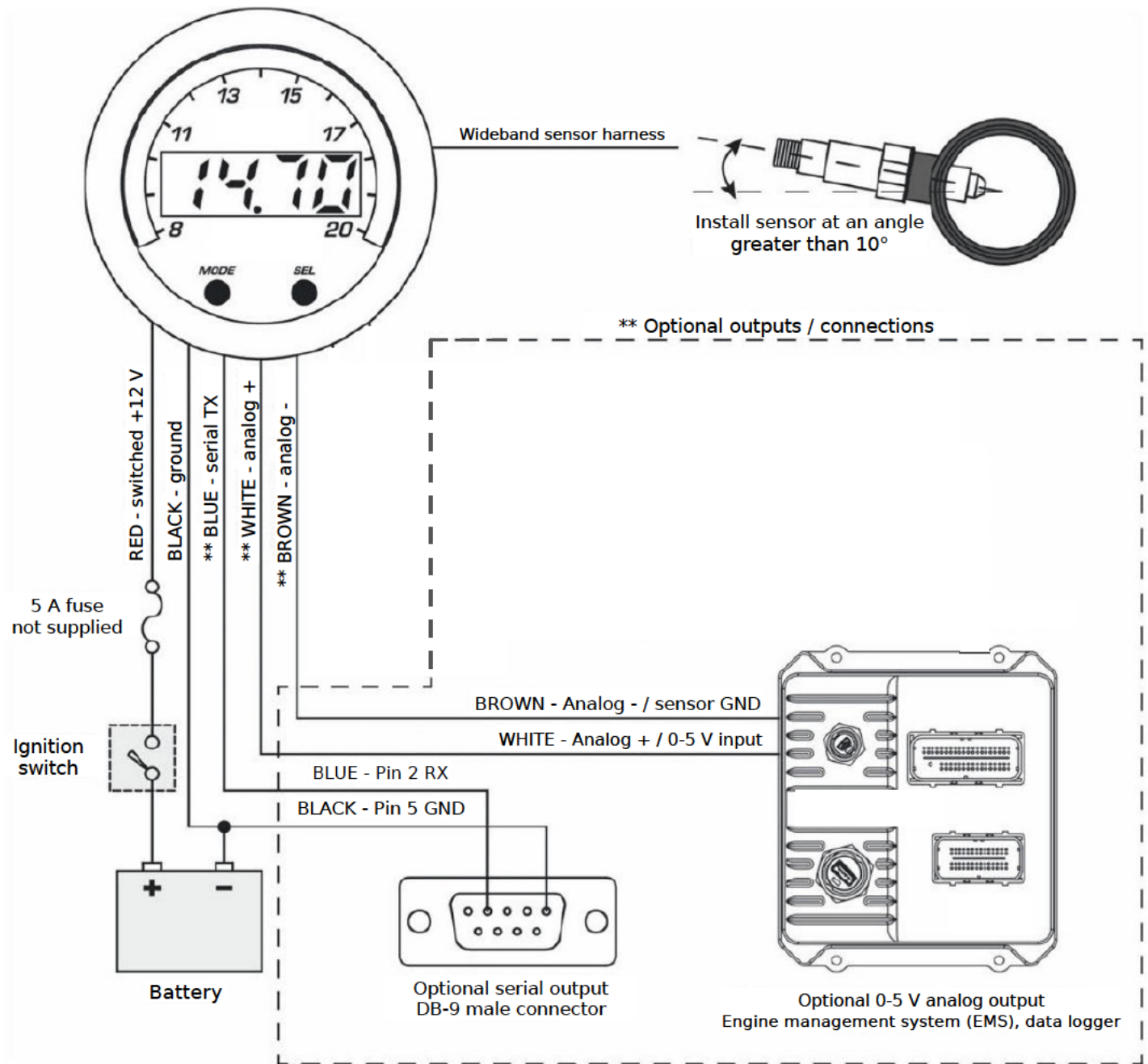


Wideband Lambda Gauge

Wiring and Installation Diagram



Connection overview

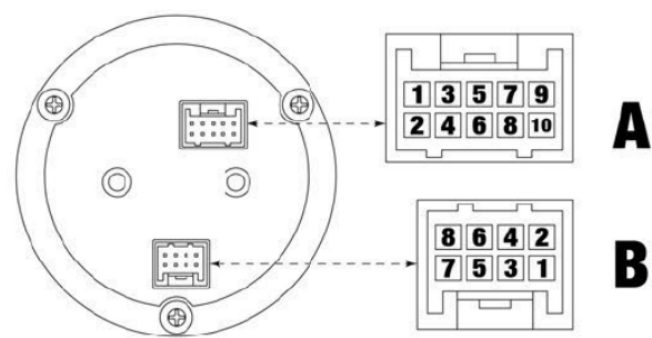
Operation requires switched 12 V with a 5 A fuse and ground. Route the sensor harness to the UEGO sensor. The outputs and connections within the dashed outline are optional.

MODE and SEL are the button labels on the gauge. TX, RX and GND match the designations in the diagram.

Connections and Wiring

Connector pinouts and important installation notes

The UEGO gauge is supplied with a power/input-output harness (A) and a UEGO sensor harness (B). Connect both harnesses to the gauge as shown. Route the sensor harness to the UEGO sensor; the power/I/O harness requires integration into the vehicle wiring. The minimum connections required for operation are switched 12 V (5 A fuse) and ground. Refer to the diagrams and information provided for further details.



Gauge rear view and connector pinouts

Important Wiring Notes

- Route harnesses carefully to avoid chafing or excessive strain.
- Secure wiring to the vehicle with cable ties. Pay particular attention to sensor harness routing beneath the vehicle and/or in the engine compartment.
- Take care when routing the sensor harness near exhaust components.
- Use strain relief and protective cable coverings as needed.
- Install a 5 A inline fuse in the switched 12 V supply wire (Pin 1 of the power/I/O connector).
- Avoid cutting or extending the sensor harness.
- Use an appropriate wire gauge (20 AWG or thicker) when extending wires, especially Pin 1 (switched 12 V) and Pin 2 (ground) of the power/I/O harness.
- Ensure all connections are secure and insulated against shorts to adjacent wires and the vehicle structure. Use proper crimping or soldering techniques with heat-shrink tubing.
- Replacement terminals: JST part number SPUD-001T-P0.5, for 22-26 AWG wire.

Connector A - Power / I/O

Pin	Color	Description
1	Red	Switched 12 V power (5 A fuse)
2	Black	Power ground
5	Blue	Serial / RS-232 output (optional)
6-8	-	Not used
9	White	0-5 V analog output, positive + (optional)
10	Brown	0-5 V analog output, negative - (optional)

Connector B - UEGO Sensor

Pin	Color	Description
1	Green	Trim resistor
2	White	Sensor heater, negative -
3	Orange	COM
4	-	Not used
5	Red	Pump current
6	Black	Sense
7	-	Not used
8	Brown	Sensor heater, positive +