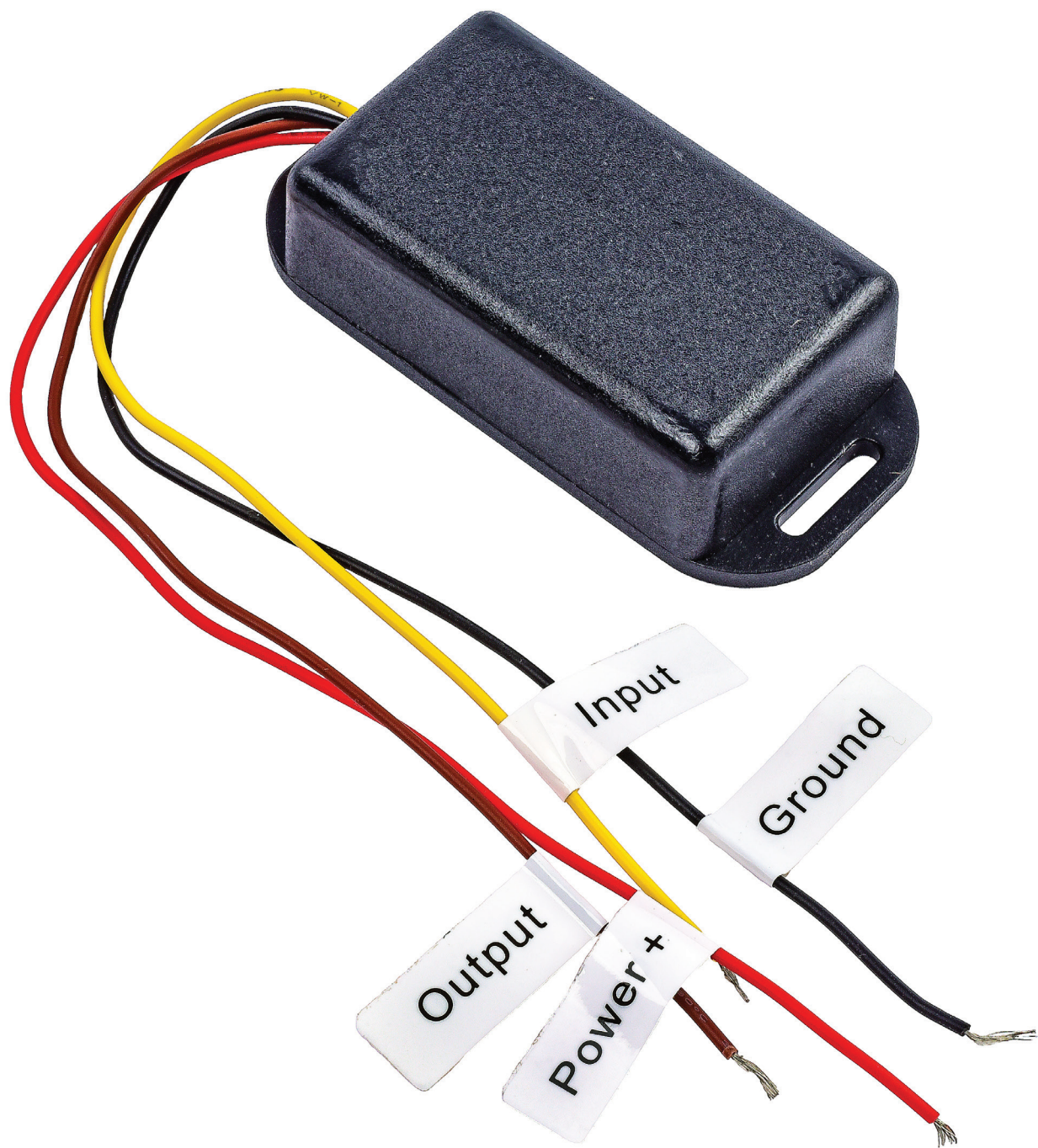


# Installation Guide for 41535

## Fuel Gauge Interface Module

73-10 Ohm Sender to 0-90 Ohm Gauge



## Read Before Installation

Thank you for purchasing this 73-10 to 0-90 ohm fuel gauge interface module.

This module can be used on vehicles with a dissimilar fuel sending unit and gauge. It converts the input resistance signal to the target resistance signal. The full, half, and empty positions can be programmed.

Please be sure to verify that the ohm range of both components matches this converter. The sending unit must use a 73-10 Ohm range, while the gauge must use a 0-90 Ohm range.

Installation of this kit can be done with basic hand tools. Necessary tools include screwdrivers, wire snips, and wire crimpers. For a more secure wiring connection, soldering is suggested.

It is important to note that un-dampened gauges may buzz if the module's output is an NPN pulse width modulated signal.

If you are having issues, or have any questions regarding the installation of this piece, please contact our technical support department at: 1.800.345.4545.

**Return Information:** Before modifying any of the wiring in this unit, please trial fit all components. ***Modified parts will not be accepted for return.***

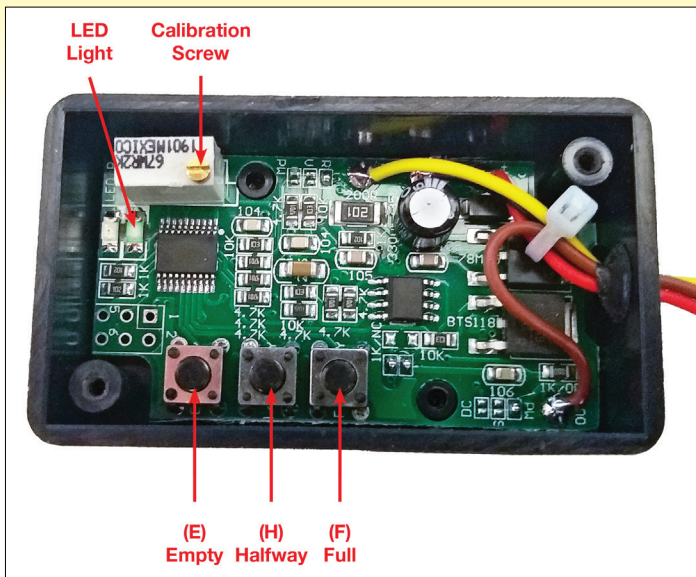
## Wiring

- **RED:** Connect to 12 volt ignition-on wire so the module has power when the vehicle is on.
- **YELLOW:** Connect to fuel level sender output.
- **BROWN:** Connect to gauge signal input.
- **BLACK:** Connect to common ground with the fuel level sender and gauge.

**IMPORTANT:** *Gauge, interface module and fuel level sender need to have a good common ground for the most accurate reading.*

## Installation

- Install the module in a clean, dry, cool location (vehicle cabin, rather than engine bay).
- To access the programming buttons and calibration screw remove the two screws on the module cover. Replace cover when programming is complete.
- Use **STORE MODE** to program and store the Full, Half, Empty, and Power On positions.
- Use **POWER ON MODE** to program how you want the gauge to operate when the vehicle power is turned on.



## Store Mode

**IMPORTANT:** To avoid hysteresis error, program the Full position first, then the Half position, then the Empty position (i.e. move sender from Full to Empty when programming). Some gauges are very slow to move, allow time for the gauge to stabilize.

1. Turn the module power off and wait at least 5 seconds. Press and hold the F button (right side button) while turning module power on. Once power is on release the F button. The red LED will turn on.
2. Set the full tank position. Adjust the gauge pointer position to full by turning the calibration screw on the module. When the pointer is calibrated press the F button one time (right side button) to save the gauge full position.
3. Set the half tank position. Adjust the gauge pointer position to half by turning the calibration screw on the module. When the pointer is calibrated press the H button one time (middle button) to save the gauge half position.
4. Set the empty tank position. Adjust the gauge pointer position to empty by turning the calibration screw on the module. When the pointer is calibrated press the E button one time (left button) to save the gauge empty position.

## Programming

### RUN MODE (Normal Operating Mode)

1. Turn the module power off and wait at least 5 seconds.
2. Turn the module power on.
3. Green LED will turn on.

### STORE MODE Notes:

1. Turn the calibration screw counter-clockwise to DECREASE the ohm signal to the gauge. Turn the calibration screw clockwise to INCREASE the ohm signal to the gauge.
2. When programming the full position it may take 5-10 complete turns of the calibration screw to get the pointer to start moving.

## ***Power On Mode***

The Power On Mode allows you to program the position of the fuel level gauge pointer when the vehicle is started.

1. Turn the module power off and wait at least 5 seconds.
2. Program the desired POWER ON mode option (A or B):
  - A. To program the module to start at the current sender position (recommended): Press and hold the E button (left button) and turn the module power on. Release the E button.
  - B. To program the module to start at the set the POWER ON position
    - Adjust the calibration screw to the position you would like the fuel level gauge pointer to be positioned when the car is started (this is typically to the left of the gauge Empty position). Press the E and F buttons simultaneously one time to save the POWER ON position.
    - Press and hold the H button (middle button) and turn the module power on. Release the H button.
3. Green LED will turn on once POWER ON mode option has been selected.