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Wolverine Fuel level Sensor Replacement Instructions

INS-0008

Old part:
70-2431

New part:
70-3673

70-3673-KIT Fuel level sensor retrofit kit

Installation Procedure:

1. DO NOT MOUNT THE NEW SENSOR ON THE TANK UNTIL IT HAS BEEN CALIBRATED.
2. Remove the old sensor.
3. Cut the three wires of the harness at about 15” back from the old connector. Discard.
4. Strip back the wires about ¼”. Crimp the new harness butt splices onto the stripped wires, matching the wire colors. Tug on the wires to make sure the crimps are secure.
    a. Black (ground) [Some harnesses will be orange/black]
    b. Red (power)
    c. White (signal)
5. Apply heat to the butt splices to melt the glue and shrink to seal around the wires.
6. CALIBRATE the sensor.
7. AFTER CALIBRATION, mount the new fuel level sensor.
8. Slip the provided large piece of heat shrink over the sensor connection.
9. Apply heat to seal the connection.

If the old sensor model does NOT start with “TLL150” you will have to change settings on the Wolverine webvisu.

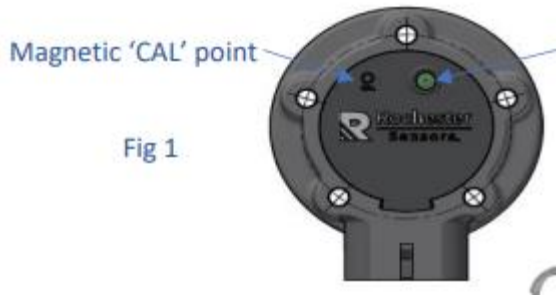

Fig 1

Video: https://www.youtube.com/watch?v=UwLaJhj7rTI

Or scan the QR code on the sticker on the side of the sensor.

Note: Magnets have two poles. If the sensor doesn't respond to one side of your magnet, flip the magnet over and use the other side.

Calibration procedure:

1. Plug the new sensor into the harness and turn on the Wolverine keyswitch power.
2. Hold the sensor **in air** to calibrate the empty point, the calibration LED will illuminate continuously after 8 seconds.
3. While the LED is on, hold a magnet flat and central to the "CAL" point on the sensor lid (see Fig 1) until the LED flashes quickly and turns off. **The empty point is now calibrated.**
4. Next, **unplug** the harness and **immerse** the sensor to the required full point in the fluid.
5. **Plug** in the harness and the calibration LED will double-blink continuously, whilst double blinking, position the magnet flat and central to the "CAL" point on the sensor lid and the LED will turn off. **The full point is now calibrated.**
6. If the calibration LED turns off before applying the magnet, power down the sensor and repeat steps 3 & 4.
7. **Verify** the empty and full calibration by powering up the sensor and connecting the harness. Move the sensor up and down in the fluid between the calibrated empty and full points, the fuel level reading will increase or decrease depending on the fluid height. Check that the sensor outputs at full and empty are correct.

Led Status:

- Steady light after 8 seconds = Empty calibration mode initiated.
- Rapid 5-second flashing on magnet detection = Empty calibration in progress
- Double blink with no magnet present = Full calibration mode initiated
- Ceases to blink upon magnet detection = Full calibration successful.
- Ceases to blink with no magnet detection = Calibration procedure has timed out.