SPEEDHUT

Revolution DIGITAL

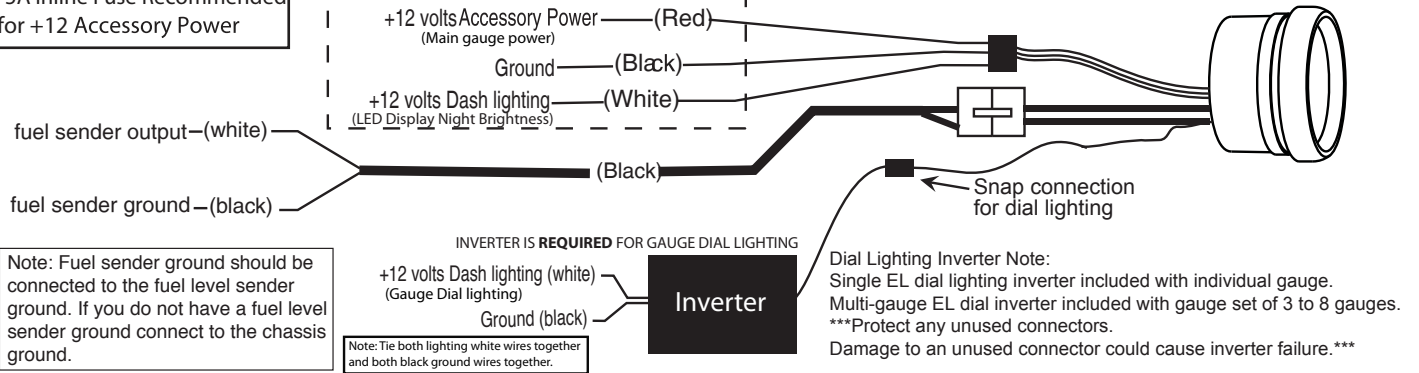## 2-1/16" Digital Fuel Level Gauge Instructions (Easy *Touch Bezel*™)

Power Draw = 0.2 Amp
3A to 5A Inline Fuse Recommended for +12 Accessory Power

Power distribution cable to plug all gauges into

Revolution DIGITAL Fuel Level Gauge

+12 volts Accessory Power —— (Red)
(Main gauge power)
Ground —— (Black)
+12 volts Dash lighting —— (White)
(LED Display Night Brightness)

fuel sender output —(white)

(Black)

fuel sender ground —(black)

Snap connection for dial lighting

INVERTER IS **REQUIRED** FOR GAUGE DIAL LIGHTING

Note: Fuel sender ground should be connected to the fuel level sender ground. If you do not have a fuel level sender ground connect to the chassis ground.

+12 volts Dash lighting (white)
(Gauge Dial lighting)
Ground (black)

Inverter

Note: Tie both lighting white wires together and both black ground wires together.

Dial Lighting Inverter Note:
Single EL dial lighting inverter included with individual gauge.
Multi-gauge EL dial inverter included with gauge set of 3 to 8 gauges.
***Protect any unused connectors.
Damage to an unused connector could cause inverter failure.***

Installation

1. Disconnect negative (-) Battery Cable
2. Connect wiring as above. (Connect any applicable wiring harnesses.)
3. Mount Gauge for easy viewing. Use Spin Lock ring (included) to mount to panel. Spin Lock ring threads in both directions.
4. Reconnect negative (-) battery cable.

WARNING! - If you are installing the gauge on a conductive surface, make sure that the insulating O-ring is in place behind the bezel. Failure to do so will cause the Easy *Touch Bezel*™ to operate incorrectly. (The O-ring comes factory installed.)

If installing the gauge in a cup or pocket made of a conductive material then the Easy *Touch Bezel*™ will need to have a layer of insulating material between the bezel and cup or pocket.

Setting the Warning Condition

LED Display can be set to flash a warning for both a low or high condition, or you can turn off both.
(Temperature gauges only feature a High warning point, and the fuel level gauge only feature a Low warning point.)

1. To enter Warning Condition set mode, immediately after the LED Display turns on (but before it shows the current gauge reading), touch and hold the gauge bezel with your finger.

2. Next, the Display will show "SEt Lo. ALErt". The Display will then display the current Low warning point. Tap the bezel within 1 second intervals to progressively change the value. Wait 2 seconds between tapping to change the progression direction (increase or decrease the value). Do not touch the bezel for 5 seconds to set the warning condition, "SEt." will flash twice to indicate that the condition has been saved.
Note: "oFF", this option is used to turn off the warning condition feature.

Reset the warning condition at anytime by repeating these steps.

Note: Setting a low warning will flash the Display when it reads below the low set point.
**Likewise, when setting a high warning will flash the Display when it reads above the high set point.**

Setting LED Display brightness both day and night.

1. With gauge power on, tap the bezel with your finger (The display will show "d ISPLAY" then "8.8.8.").
2. Tap the bezel with your finger to change the Display to the desired brightness setting.
3. Do not touch the bezel for five seconds to save the brightness setting. The Display will flash "8.8.8." twice to indicate that the setting has been saved.
   Note: Setting the brightness setting when the gauge lighting is ON, will set the night-time brightness setting.
   Setting the level when the gauge lighting is OFF will set the daytime brightness setting.

Easy *Touch Bezel*™!

The Revolution Digital gauges feature a capacitive touch bezel. Just simply touch the bezel with your finger to access the gauge features.
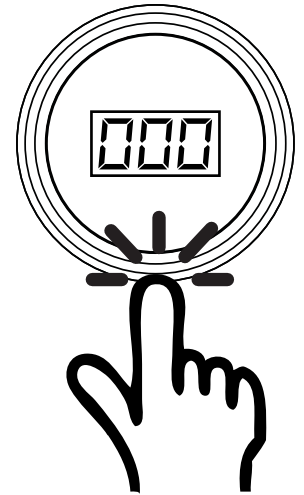
Error Messages:

SEndEr Error - This error indicates that there is not a Sender/Sensor connected to the gauge or that there is a grounding issue with the Sender/Sensor.

touCh Error - This error indicates that the Easy Touch Bezel™ is not properly insulated. This error also occurs if you are touching the bezel when the gauge is powered on.

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2-1/16" Digital Fuel Level Gauge Instructions (Easy *Touch Bezel™*)

Attention: CALIBRATION REQUIRED. The Fuel Level Gauge will not operate correctly until it has been calibrated to the vehicle's fuel level sender.

Fuel Level Calibration

The Digital Fuel Level gauge can be calibrated to any fuel tank sender/sensor.

Easy *Touch Bezel™*!
The Revolution Digital gauges feature a capacitive touch bezel. Just simply touch the bezel with your finger to access the gauge features.

Preset Calibration

To access the fuel level calibration menu, follow these steps below.

1. While gauge is powered up, touch and hold the bezel for 10-12 seconds until the gauge displays "FuEL CAL.". You are now in calibration mode.
2. Tap the bezel to toggle through the available resistive ohm presets:

240-33 (Empty 240 Ohms - Full 33 Ohms) - Factory default

70-10 (E 70 - F 10 Ohms)

0-30 (E 0 - F 30 Ohms)

0-90 (E 0 - F 90 Ohms)

10-180 (E 10 - F 180 Ohms)

90-0 (E 90 - F 0 Ohms)

16-158 (E 16 - F 158 Ohms)

uSEr (Manual Calibration Mode - see steps below)

Select a preset that matches the resistance range of your fuel level sender, touch and hold the bezel for 2 seconds to save that range.

3. The LED Display will flash and the gauge will exit the calibration menu and display the current fuel level.

CHART 1: Common Factory Ohm Ranges

Empty	Full	Vehicle Application	Empty	Full	Vehicle Application
0 ohms	30 ohms	Most pre-'65 GM	240 ohms	33 ohms	Use with 3262 sender
0 ohms	90 ohms	Most GM 65-present	10 ohms	70 ohms	Ford Bi-Metalic Gauges (pre 1987 F-Series Trucks)
16 ohms	158 ohms	Most '87-present Fords	15 ohms	160 ohms	Ford Magnetic Gauges (1987 and later F-Series Trucks)
73 ohms	8-12 ohms	Most Fords before '87 and most Chrysler			

Manual Calibration

If your fuel level sender has a resistance range that is different from the preset ranges, you will have to manually calibrate the gauge.

IMPORTANT - BEFORE YOU START MANUAL CALIBRATION: It is required that the fuel level sender/sensor be connected to the gauge during manual calibration. You will have to calibrate both the full and the empty conditions for the gauge to display an accurate fuel level. It does not matter what order you calibrate the conditions but you must calibrate both.

1. Double-check that the fuel level sender is connected to the fuel level gauge and that the fuel tank (or fuel level sender) is in the empty or full condition.
2. While gauge is powered up, touch and hold the bezel for 10-12 seconds until the gauge displays "FuEL CAL.".
3. Repeatedly tap the bezel until you select "uSEr", then touch and hold the bezel until you access the 'Manual' calibration mode.
4a. The 'Manual' calibration mode has two options that you can tap between, "SEt E" and "*SEt F*".
    Select "SEt E" if you are calibrating the empty condition,
    Or select "SEt F" if you are calibrating the full condition.
4b. Select a condition then double-check that the fuel tank/fuel level sender is in the corresponding condition*, then touch and hold the bezel for 2 seconds. The LED Display will flash "SEt." and the gauge will exit the calibration menu and display an inaccurate fuel level**.
    *Example: If the tank was drained with no gas or the fuel level sender was in the empty position, you would select "SEt E".
5. Repeat the steps with the fuel tank/fuel level sender in the opposite condition.
    **Note: After both the empty and full conditions have been set then the gauge will display the accurate fuel level.