



### 3-3/8" Ultrage Instructions

**Warning:** Before doing any work on any kind of vehicle, disconnect the **negative(-)** battery cable from the battery. Failure to do so may result in burns, electrical shock, or other personal injuries.

#### **Recommended installation technique:**

1. Decide on a location to mount the gauge(s).
2. Drill, cut and do whatever it takes to get the location ready to install the gauge(s).
3. Install the sender(s) and switch(s), if applicable. Refer to section "sender installation".
4. Install the gauge, but do not secure in place.
5. Make all wire connections. Refer to section "Gauge wire connections".
6. Make sure all gauges are functioning. **If any problem** refer to the section "troubleshooting".
7. Secure the gauge into place.
8. See "Gauge calibration routines" to calibrate the gauge to your vehicle.
9. Read over section "Gauge features" to better understand the features of your gauge.

#### **Gauge wire connections:**

**Red Wire:** *Ignition wire*, hookup to a switched +12 volt ignition source. Ex.: Accessory fuse in fuse box.

**Black Wire:** *Ground wire*, mate all black wires from the gauge, sender, switch..., and hookup to a good ground.

Ex.: Battery (-) terminal.

**Purple Wire:** *Dimmer wire*, hookup to a switched light source. Ex.: Any switched light bulb.

**White Wire:**

**Combo & Speedometer:** *Speed signal wire*, for Cyberdyne, mate to the tan wire coming from the speed sender. All others connect to the Speed (+) wire.

**Tachometer:** *Tach signal wire*, connect to the negative terminal on coil or to tach signal terminal on distributor.

**Brown Wire(COMBO ONLY):** *Tachometer signal wire*, connect to the negative terminal on coil or to tach signal terminal on distributor.

**Note:** All wires should be routed away from the ignition system, spark plug wires or any type of electrical noise imposing wires. Any wire brought through the firewall should be secured through a rubber grommet.

#### **Gauge calibration routines:**

##### **Adjust engine cylinders:**

1. Turn the dimmer on, push and hold the button in and turn on the gauge.
2. C-2 should be displayed on the screen. If not, turn off gauge and repeat step 1 again.
3. Press the button until the desired engine cylinders is displayed on the screen.
4. When the desired engine cylinder is selected and displayed on the screen, turn off the dimmer.
5. The gauge has now been calibrated for the correct engine cylinder.

**Note:** The tachometer will adjust to 2,4,6,8 cylinder engines.

##### **Adjust shift indicator:**

1. Push the button in and turn on the gauge.
2. The shift indicator can be adjusted from 0 (off) to 99 (9900) RPM. Press the button until the desired setting is displayed on the screen.
3. Once the desired setting is displayed on the screen turn the dimmer on.
4. The shift indicator has now been set for the gauge.

##### **Adjust speedometer calibration:**

1. Turn the dimmer on and turn on the gauge.
2. Cal 45 should be displayed on the screen. If not, turn off gauge and repeat step 1 again.
3. Get your vehicle moving at 45 MPH.
4. Hold at 45 for a second and press the button.
5. The speedometer has now been calibrated to your vehicle.

**Note:** The speedometer will calibrate to any speed input between the ranges of 1000 to 200,000 pulses per mile.

## **Gauge features:**

### **Speedometer:**

When calibrated the speedometer will function up to 999MPH.

### **Tachometer:**

The tachometer will operate up to 9990 RPM for the Tachometer only gauge and 9900 for the combo gauge.

### **Odometer:**

The odometer will record miles up to 999,999 and is not resettable.

### **Trip Odometer:**

The trip odometer will record miles up to 999.9 and is resettable. The decimal point for tenths is shown as a dash for easy viewing EX. 127-6. The procedure for resetting the trip odometer is as follows:

1. Make sure the trip odometer is displayed on the gauge
2. Push in and hold the button until the display reads 0-0
3. Release button

### **High RPM recall: COMBO ONLY**

Push the button until rp xxx appears on the display center. xxx is the highest RPM achieved since the vehicle was started. The reading displayed is to the 10 RPM. The screen is in real time and will be updated with the highest RPM reading with or without being displayed on the display center.

### **High RPM recall: TACHOMETER ONLY**

Push the button. Hi will flash to the screen followed by the current hi RPM. The reading displayed is to the 10 RPM.

### **Tachometer Digital Display: COMBO ONLY**

The display center can be used to display a 4 digit real time tachometer reading. Push the button until a four digit number appears on the display center.

### **Hi Speed Recall:**

Push the button until SP xxx appears on the display center. xxx is the highest speed attained since the vehicle was turned on. This function is in real time and will be updated to the highest speed reading with or without being displayed on the display center.

### **0-60 Time Recall:**

The 0-60 second timer measures the time it takes your vehicle to attain a speed of 60 MPH from a stopped position. The maximum time which will display is 9.99 seconds. Any time over 9.99 seconds will be displayed as slo. Push the button until 60 xxx appears on the display center. The xxx is a 3 digit number displaying the time in hundredths of second. This function is in real time and will be updated every time the vehicle goes from a stopped position to 60 MPH.

### **1/4 Mile Time Recall:**

The 1/4 mile timer measures the time it takes your vehicle to cover 1/4 mile from a stopped position. The maximum time which will display is 99.9 seconds. Any time over 99.9 seconds will display as slo. Push the button until 25 xxx appears on the display center. The xxx is a 3 digit number displaying the time in tenths of a second. This function is in real time and will be updated every time the vehicle goes from a stopped position to 1/4 mile.

### **Troubleshooting:**

If there are any problems or questions with the operation of the gauge, sender, switch... please follow the routine listed below:

1. Refer to manual labeled "Troubleshooting". See if anything listed in this manual is similar to the symptoms that you are seeing and see if any of the solutions solve the problem.
2. Call the number at the bottom of the page for technical assistance.