



**Model 98480**

# 2-1/16" LED TACHOMETER

## INSTRUCTIONS AND PRECAUTIONS

Distributed exclusively by Harbor Freight Tools®.

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### **SAVE THESE INSTRUCTIONS. READ ALL PRECAUTIONS AND INSTRUCTIONS.**

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**For technical questions or replacement parts, please call 1-800-444-3353.**

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### **UNPACKING**

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When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this document as soon as possible.

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### **IMPORTANT SAFETY INFORMATION**

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#### **Assembly Precautions**

1. Assemble only according to these instructions. Improper assembly can create hazards.
2. Wear ANSI-approved safety goggles and heavy-duty work gloves during assembly.
3. Keep assembly area clean and well lit.
4. Keep bystanders out of the area during assembly.
5. Do not assemble when tired or when under the influence of drugs or medication.

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### **Use Precautions**

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1. This product is not a toy. Do not allow children to play with it.
2. Use for intended purpose(s) only.
3. Inspect before use; do not use if loose or damaged.
4. Only use in accordance with State, local, Federal and D.O.T. laws and regulations.
5. Disconnect vehicle battery negative connection before installation.
6. Positive and negative connections can not touch. If you are unsure of how to install this product safely then have a qualified mechanic install the gauge for you.
7. Insulate connections to prevent fire.
8. Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

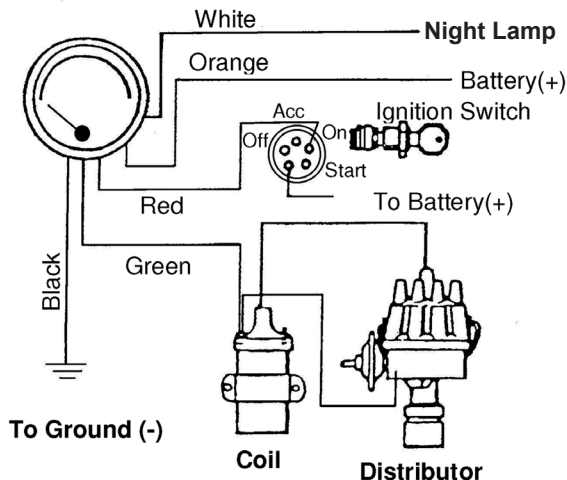
## ASSEMBLY INSTRUCTIONS



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this document including all text under subheadings therein before set up or use of this product.

### Assembly

1. A round 2-1/16" wide hole with at least 2-1/2" clearance behind is needed to install this gauge.
2. At least 18 AWG stranded copper wire must be purchased for the installation of this gauge.
3. Disconnect vehicle battery according to manufacturer's instructions. Some vehicles with air bags or other systems may require precautions before disconnecting the battery. Consult your vehicle's service manual.
4. Move the cylinder selection switch to match the number of cylinders on the vehicle (4, 6, or 8).
5. Route and secure wires as needed to attach the Gauge to the desired area; avoid sharp edges and hot spots.



6. Wiring:
  - RED Wire: Connects to a switched 12V positive source that turns on and off with vehicle's ignition switch.

**CAUTION:** It is recommended that a inline fuse (1Amp/3AG) be installed before connecting to the 12V ignition system.

- BLACK wire connects to Ground.

- WHITE wire connects to the dash lights.
- ORANGE wire connects to the 12V positive post.
- GREEN wire connects to the to the negative side of the ignition coil.

**Note:** The wiring diagram is for a conventional ignition system. If the tachometer is being installed on a vehicle that has an electronic ignition, or aftermarket high output ignition box, it is recommended that the ignition box manufacture be consulted for the correct tachometer signal point.

7. Attach the bracket onto the back of the meter and tighten. Install the meter into the hole.
8. Reconnect the battery according to the manufacturer's instructions. Verify that there are no short circuits before reconnecting. Check for loose strands of wire and direct contact with grounded components. Use a multimeter with a continuity function to help verify that there are no shorts to ground.
9. Turn the ignition switch "ON", LED should light up. Be ready to disconnect battery if arcing or sparking occurs at the meter.
10. To change the color of the LED light, push the button on the face of the gauge.

**Record Serial Number Here:** \_\_\_\_\_

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** No replacement parts.

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