



Genuine Parts

**PRECAUTIONS:**

- ❑ Read ALL instructions before installing instrument.
- ❑ Follow ALL safety precautions when working on vehicle-wear safety glasses!
- ❑ ALWAYS disconnect (-) negative battery cable before making electrical connections.

**HELP?:**

- ❑ If after reading these instructions you don't fully understand how to install your instrument(s), contact your local Stewart Warner distributor, or contact our Technical Support Team toll free at **1-800-676-1837**
- ❑ Additional applications information may be found at **[www.stewartwarner.com](http://www.stewartwarner.com)**.

## Installation Instructions

Magnetic Sensor

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**SENDER INSTALLATION (Figure 2-4):**

1. Screw sender into 3/4 x 16 UNF thread hole until the tip of the sender touches a gear tooth (a high point of the wheel.)
2. Once tip of sender touches gear tooth, back it off by 1/2 turn. This will set the air gap at approximately .030".
3. Tighten the jam nut provided to prevent the sender from moving.

**NOTE:** Do not torque jam nut over 20 Ft. Lbs. Do not lubricate sensor threads or jam nut.

**SENDER WIRING (Figure 1):**

1. Disconnect negative (-) battery cable.
2. Using 18-ga. wire, connect one of the sender wires to the instrument (**NEG**) terminal or to a clean (rust/paint-free) ground.
3. Using 18-ga. wire, connect the other sender wire to the instrument (**SIG**) terminal. Sender wiring is not polarity sensitive.
4. Reconnect the negative (-) battery cable & test instrument to ensure that it is working.

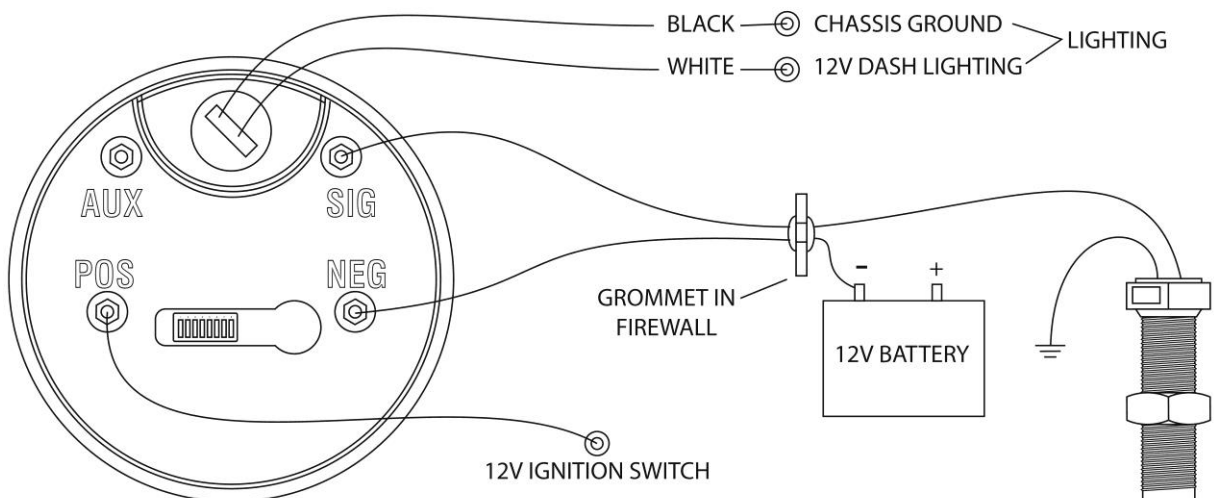
**NOTE:** Mating connector is not included with sender. To wire without mating connector, cut existing connector off and wire using self-supplied connector or direct wiring. If mating connector is desired, the following items will be needed (not provided by Stewart Warner):

- No. 12010182 – Female terminal (2 each)
- No. 12015792 – Tower connector (1 each)
- No. 12015284 – Cable seal (2 each)

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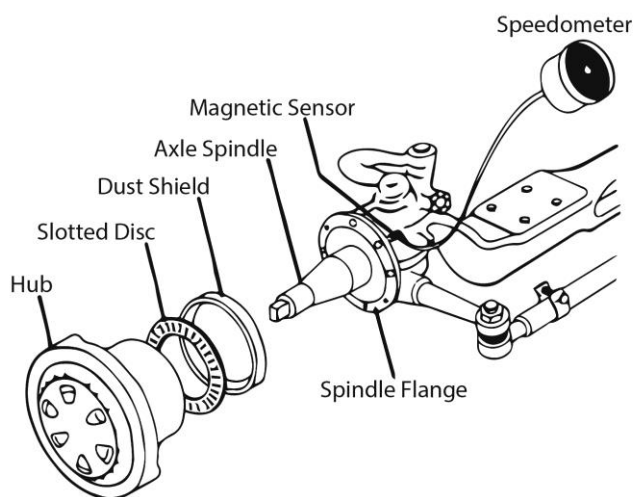
Figure 1



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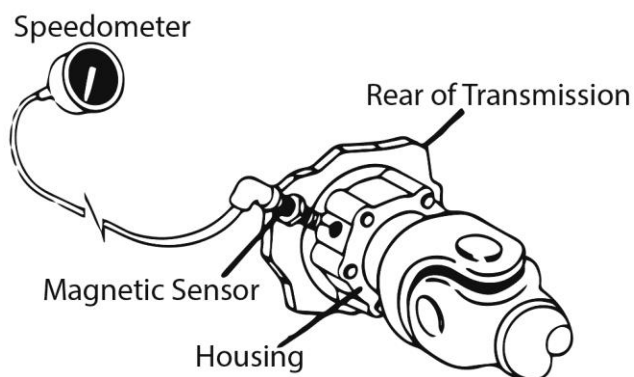
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Figure 2



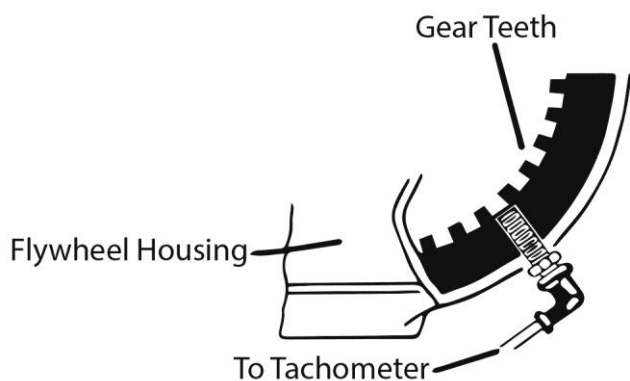
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Figure 3



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Figure 4



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**TROUBLESHOOTING:**

**Q:** My instrument does not respond at all, what do I do?

**A:** Check all of the wiring connections and power to the instrument.

1. If the instrument needle goes to zero when powered up, but does not respond when it should, there is no signal to the (**SIG**) terminal. Check to ensure that the terminal is wired to the proper location for a valid signal.
2. If the instrument needle does not go to zero when powered up, the instrument is not grounded properly or does not have power to the (**POS**) terminal. Check to ensure a good chassis ground, preferably at the battery negative. Verify that the (**POS**) terminal has a 12VDC supply.

**Q:** My instrument returns to zero when powered, but does not show a reading?

**A:** First, confirm sender is wired properly according to the Sender Wiring section.

1. If the sender appears to be wired correctly, make sure sender is properly installed with proper air gap.
2. Confirm instrument calibration settings.

10

**WARRANTY INFORMATION:**

**TWO (2) YEAR LIMITED WARRANTY.** Stewart Warner products are warranted against defects in workmanship and materials for a period of two (2) years from the date of purchase. Proof-of-purchase is required; otherwise, the warranty period shall default to two (2) years from date-of-manufacture (as indicated by the date code on the product). See detailed Warranty Policy for other Terms & Conditions.

STEWART WARNER

1-800-676-1837

[www.stewartwarner.com](http://www.stewartwarner.com)