169346 - MPH Speedo / Tach
169347 - KPH Speedo / Tach

Installation Instructions:

Refer to the proper service manual and remove the OEM Speedometer.
All Models **"except"** the 1999 Softail or 2002 and Later FLHR/I
Note: The Pink tachometer wire may not be indicated on the wiring schematic in the Service Manual.

1. Locate the Pink wire in the main harness at the speedometer connector [39B]. It will either be tie wrapped to the outside of the conduit or tucked inside. If tucked inside remove the cable strap at the base of connector [39B] and pull back the conduit.
   - If there is a connector on the Pink wire, connect it to the a 5 inch Pink wire. (Not Included). See Figure 2 Below.
   - If there is no connector on the Pink wire, you will have to splice the 5 inch Pink wire together with the pink wire from the harness using a heat shrinkable butt splice.
2. Insert a socket terminal (Not Included) onto the Pink wire from the kit into connector [39B], cavity #6.

CAUTION: If there is a wire in cavity #3 of connector [39B]. **YOU MUST REMOVE IT!** If the wire is left in cavity #3. damage to Speedometer/ Tachometer could result.

3. Check to make sure that there is no wire in connector [39B]. cavity #3.
4. Proceed to Installation and Final Check.

1999 Softail Models

1. See Figure 2 below. Cut off the Connector (NOT the bare socket terminal) on the Pink wire (Not Supplied). Crimp the ring terminal (Not Supplied) onto the cut end of the wire. Route the wire down from the console to the ignition coil. Connect the ring terminal to the primary terminal stud on the ignition coil.
2. Install a socket terminal on the Pink wire and insert the socket terminal into connector [39B), cavity #6.
3. Proceed to Installation and Final Check.

2002 and Later FLHR/I

1. Locate the Pink wire under the headlamp nacelle.
2. Attach a connector on a Pink wire (Not Supplied) to the connector on the Pink wire from under the nacelle.
3. Route the Pink wire through the wire clamp at the front right side of the motorcycle frame, then up under the console.
4. Install a socket terminal on the Pink wire and insert the socket terminal into connector [39B), cavity #6.

CAUTION: If there is a wire in cavity #3 of connector [39B], **YOU MUSTREMOVE IT!** If the wire is left in cavity #3, damage to Speedometer/ Tachometer could result.

4. Check to make sure that there is no wire in connector [39B], cavity #3.
5. Coil up any excess Pink wire and store inside the nacelle.

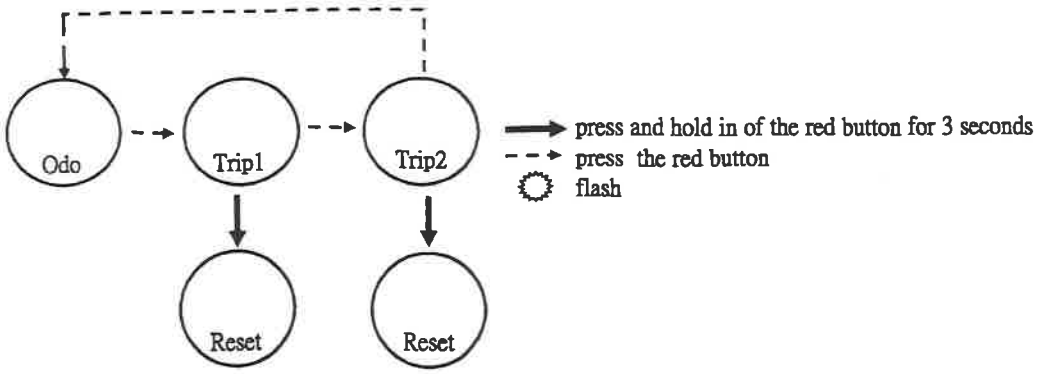
CAUTION: Check that there is sufficient slack in the tachometer leads so that handlebar movement is not restricted. Damage to wiring could result.

6. Proceed to Installation and Final Check.

Installation and Final Check

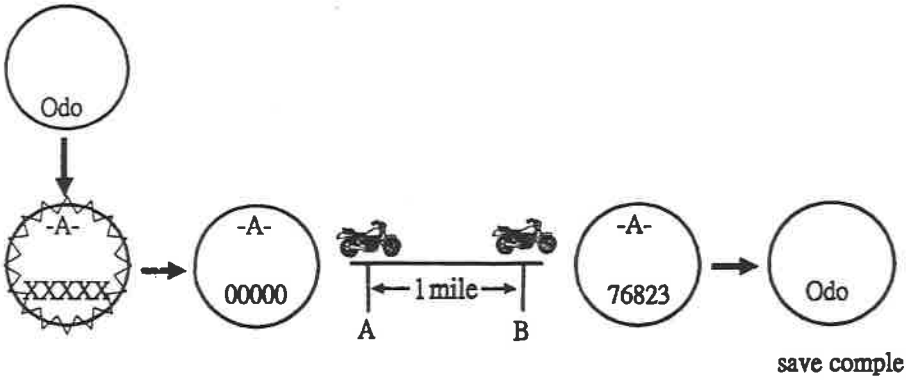
1. Turn the console over, face upward.
2. Place the speedometer gasket into position around the console speedometer bore.
3. Fit the new Speedometer/ Tachometer into the bore so that it fits snugly against the rubber gasket. Rotate the Speedometer/ Tachometer into approximate visual alignment. The back clamp will complete the alignment.
4. Turn the console over, face down.
   - For all except FXSTD. place the back clamp over the back of the Speedometer/Tachometer aligning the two slots with the console bosses. Press the latches down until they lock into position.
   - For FXSTD, place the back clamp over the back of the Speedometer/Tachometer aligning the three legs with the console bosses. Press the latches down until they lock into position.
5. Insert the trip-meter reset switch through the hole in the left side of the console, retain the harness in the clamp, if used, and screw on the rubber button.
6. See Figure 1 below. Verify that new connector (39B) is wired as shown. Plug connector (39B) into the new Speedometer/Tachometer.
7. Turn the console over and center it on the fuel tank.
   - **For FLHR/I**, install the acorn nut and torque to 50-90 in-lbs. Install the Phillips screw and flat washer, and tighten securely.
   - **For FXDWG**, install the acorn nut and torque to 80-100 in-lbs.
   - **For all Softails except FXSTD**, install the acorn nut and torque to 80-100 in-lbs.
   - **For FXSTD,** Loosely install two T25 TORX screws and washers into the rear console mounting holes. Loosely install a T27 TORX screw into the front console mounting hole.
8. Tighten both rear screws to 30-40 in-lbs
9. Tighten the front screw to 30-40 in-lbs.
10. Connect the battery cables, positive cable first, and check turn signals, stop and tail lamp for proper operation.
11. Refer to the Service Manual, and follow instructions to install the seat.
12. Check Speedometer/ Tachometer for proper operation.

Installation Instructions

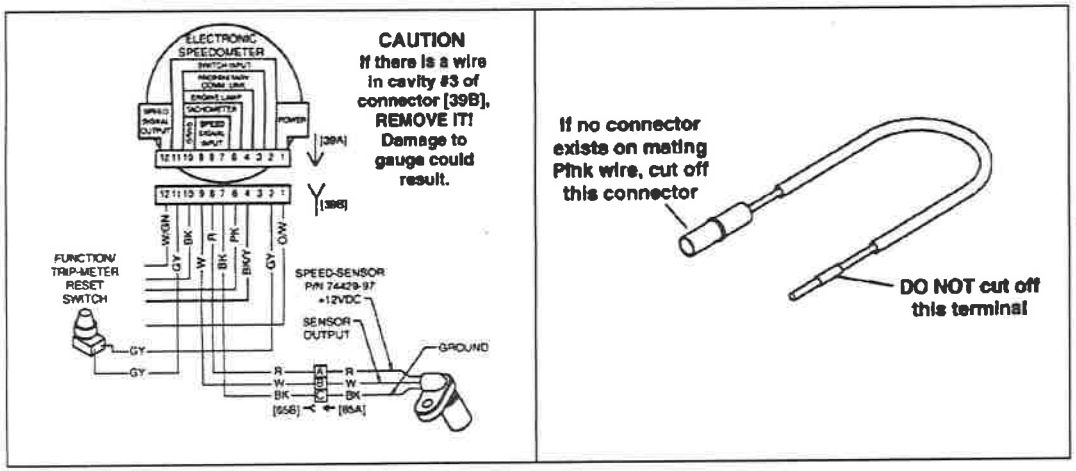


Calibration (By auto)

into -A- mode , driving 1 mile and save the pulse.

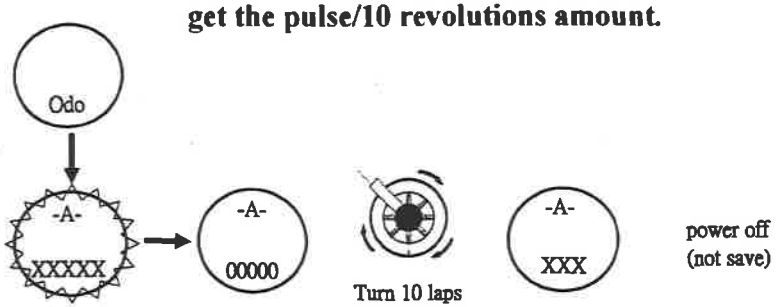


Calibration Ranges: 500 — 90000 pulse/mile



Calibration (By manual)

(1) into -A- mode , Rotate the wheel 10 complete revolutions to get the pulse/10 revolutions amount.



(2) Use the following formula

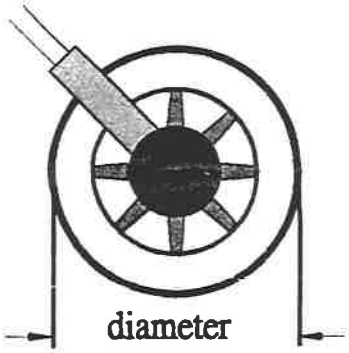
$$\frac{1\ (\text{mile})}{\text{diameter (mile)} \times 3.14159} \times \frac{XXX}{10} = \text{Pulse per mile}$$

example

$$\frac{1}{0.000358 \times 3.14159} \times \frac{920}{10}$$

$\fallingdotseq 889.13 \times 92$

$\fallingdotseq 81800$



(3) into -P- mode, input pulse per mile

example

