



# INSTRUCTIONS

-J04401

REV. 2007-09-21

## COMBINATION SPEEDOMETER/TACHOMETER GAUGE KIT

### GENERAL

<p>is03400</p> <p><b>U.S. Department of Transportation</b></p> <p><b>National Highway Traffic Safety Administration</b></p> <p><b>Title 49, United States Code, Subtitle VI. Motor Vehicle and Driver Programs,</b></p> <p><b>Part C. Information, Standards, and Requirements,</b></p> <p><b>Chapter 327. Odometers</b></p> <p><b>Section 32703. Preventing tampering</b></p> <p>A person may not —</p> <p>(1) advertise for sale, sell, use, install, or have installed, a device that makes an odometer of a motor vehicle register a mileage different from the mileage the vehicle was driven, as registered by the odometer within the designed tolerance of the manufacturer of the odometer;</p> <p>(2) disconnect, reset, alter, or have disconnected, reset, or altered, an odometer of a motor vehicle intending to change the mileage registered by the odometer;</p> <p>(3) with intent to defraud, operate a motor vehicle on a street, road, or highway if the person knows that the odometer of the vehicle is disconnected or not operating; or</p> <p>(4) conspire to violate this section or section 32704 or 32705 of this title.</p> <p><b>Section 32704. Service, repair, and replacement</b></p> <p>(a) Adjusting mileage. A person may service, repair, or replace an odometer of a motor vehicle if the mileage registered by the odometer remains the same as before the service, repair, or replacement. If the mileage cannot remain the same —</p> <p>(1) the person shall adjust the odometer to read zero; and</p> <p>(2) the owner of the vehicle or agent of the owner shall attach a written notice to the left door frame of the vehicle specifying the mileage before the service, repair, or replacement and the date of the service, repair, or replacement.</p>	<p>(b) Removing or altering notice. A person may not with intent to defraud, remove or alter a notice attached to a motor vehicle as required by this section.</p> <p>Section 32705. Disclosure requirements on transfer of motor vehicles</p> <p>(a) (1) Disclosure requirements. Under regulations prescribed by the Secretary of Transportation that include the way in which information is disclosed and retained under this section, a person transferring ownership of a motor vehicle shall give the transferee the following written disclosure:</p> <p>(A) Disclosure of the cumulative mileage registered on the odometer.</p> <p>(B) Disclosure that the actual mileage is unknown if the transferor knows that the odometer reading is different from the number of miles the vehicle has actually traveled.</p> <p>(2) A person transferring ownership of a motor vehicle may not violate a regulation prescribed under this section or give a false statement to the transferee in making the disclosure required by such a regulation.</p> <p>(3) A person acquiring a motor vehicle for resale may not accept a written disclosure under this section unless it is complete.</p> <p>(4)</p> <p>(A) This subsection shall apply to all transfers of motor vehicles (unless otherwise exempted by the Secretary by regulation), except in the case of transfers of new motor vehicles from a vehicle manufacturer jointly to a dealer and a person engaged in the business of renting or leasing vehicles for a period of 30 days or less.</p> <p>(B) For purposes of subparagraph (A), the term "new motor vehicle" means any motor vehicle driven with no more than the limited use necessary in moving, transporting, or road testing such a vehicle prior to delivery from the vehicle manufacturer to a dealer, but in no event shall the odometer reading of such vehicle exceed 300 miles.</p> <p>(5) The Secretary may exempt such classes or categories of vehicles as the Secretary deems appropriate from these requirements. Until such time as the Secretary amends or modifies the regulations set forth in 49 CFR 580.6, such regulations shall have full force and effect.</p>
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Figure 1. Title 49, United States Code

### Kit Numbers

74556-08, 74557-08, 74676-08, 74677-08, 74718-08, 74719-08, 74744-08, 74745-08, 74746-08, 74747-08, 74748-08,

74749-08, 74750-08, 74751-08, 74752-08, 74753-08, 74754-08, 74755-08

## GENERAL (CONTINUED)

### Models

These kits are direct replacement for 2008 and later models with the following calibrations:

Table 1. Model Fitment

Kit	Model	Face	Calibration
74676-08	Dyna	Black	Miles
74556-08	Dyna	Nostalgic	Miles
74718-08	Dyna	Spun Aluminum	Miles
74744-08	Softail	Black	Miles
74748-08	Softail	Nostalgic	Miles
74752-08	Softail	Spun Aluminum	Miles
74745-08	Touring	Black	Miles
74749-08	Touring	Nostalgic	Miles
74753-08	Touring	Spun Aluminum	Miles
74677-08	Dyna	Black	Kilometers
74557-08	Dyna	Nostalgic	Kilometers
74719-08	Dyna	Spun Aluminum	Kilometers
74746-08	Softail	Black	Kilometers
74750-08	Softail	Nostalgic	Kilometers
74754-08	Softail	Spun Aluminum	Kilometers
74747-08	Touring	Black	Kilometers
74751-08	Touring	Nostalgic	Kilometers
74755-08	Touring	Spun Aluminum	Kilometers

### Service Manual Required

#### WARNING

The rider's safety depends upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, have a Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury. (00333a)

#### NOTE

This instruction sheet references Service Manual information. A Service Manual for your model motorcycle is required for this installation and is available from a Harley-Davidson Dealer.

### Kit Contents

There are no Service Parts available with this kit.

## REMOVING THE OLD SPEEDOMETER

#### NOTE

This Instruction Sheet covers several different Harley-Davidson models and years. Make sure you locate and follow the procedures that apply to the motorcycle receiving the new gauge.

1. Apply power to motorcycle and record the odometer reading.
2. Remove the seat according to the procedure in the applicable Service Manual.

#### WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, disconnect negative (-) battery cable before proceeding. (00048a)

#### WARNING

Disconnect negative (-) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury. (00049a)

3. Disconnect battery cables, negative cable first.

#### NOTE

Cover the fuel tank with clean shop towels to prevent scratching. Damage to the finish could result.

4. Remove the instrument console acorn nut (and mounting screw with a flat washer on some models). Lay clean shop towels on the fuel tank. Lift the console from the fuel tank, turn it upside down and lay it on the towels.

#### NOTE

If necessary, bend back the flexible metal clip to free the harness conduit from the underside of the console.

5. Unplug the 12-terminal connector [39B] from the back of the speedometer. Depress the external latches and use a rocking motion to separate the pin and socket halves.
6. Remove the back clamp.

**All models except FXSTD:** Gently pry the three latches upward to release the back clamp from the back of the speedometer.

**FXSTD:** Depress the three external legs of the lock ring, then gently pry the three latches upward to release the back clamp from the back of the speedometer.

7. Unscrew the trip-meter reset button, and pull the harness from the clamp (remove the screw if necessary).
8. Lift the console and remove the old speedometer from the console. Discard the old speedometer, but retain the rubber gasket and back clamp for use with the new gauge.

#### NOTE

Set the console securely on the towel-covered fuel tank, and take care that it does not fall off during the following operations.

9. Set the console securely on the fuel tank.

## INSTALLATION AND FINAL CHECK

### NOTE

Apply window cleaning fluid or mild soapy water to the speedometer gasket as needed to aid installation.

1. Turn the console over, facing upward.
2. Place the speedometer gasket into position around the console speedometer bore.
3. Fix the new gauge into the bore so that it fits snugly against the rubber gasket. Rotate the gauge into approximately visual alignment. The back clamp will complete the alignment.
4. Turn the console over, face down.
5. Install the back clamp.

**All models except FXSTD:** Place the back clamp over the back of the gauge, aligning the two slots with the console bosses. Press the latches down until they lock into position.

**FXSTD:** Place the back clamp over the back of the gauge, aligning the three legs with the console bosses. Press the latches down until they lock into position.

6. 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 rubber button.
7. Carefully insert the 12-terminal connector [39B] into the back of the speedometer.
8. Turn the console over, and center it on the fuel tank:

**For FLHR/I:** Install the acorn nut and tighten to 50-90 **in-lbs** (5.7-10.2 Nm). Install the Phillips screw and flat washer, and tighten securely.

**For FXDWG:** Install the acorn nut and tighten to 80-100 **in-lbs** (9.0-11.3 Nm).

**For all Softails except FXSTD:** Install the acorn nut and tighten to 80-100 **in-lbs** (9.0-11.3 Nm).

**For FXSTD:** Loosely install two T-25 TORX® screws and washers into the rear console mounting holes. Loosely install a T-27 TORX screw into the front console mounting hole.

Tighten both rear screws to 30-40 **in-lbs** (3.4-4.5 Nm).

Tighten the front screw to 30-40 **in-lbs** (3.4-4.5 Nm).

### ⚠ WARNING

**Connect positive (+) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury. (00068a)**

9. Connect the battery cables, positive cable first.

### ⚠ WARNING

**After installing seat, pull upward on seat to be sure it is locked in position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070b)**

10. Install the seat according to the procedure in the applicable Service Manual.

### ⚠ WARNING

**Be sure headlamp, tail and stop lamp and turn signals are operating properly before riding. Poor visibility of rider to other motorists can result in death or serious injury. (00478b)**

11. Turn ignition on and test for proper turn signal, brake light and tail light operation.
12. Check speedometer and tachometer for proper operation.

### NOTE

*The odometer on some kits will remain displayed when the ignition is in the **OFF** position.*

### Initialization

After installing the new gauge, the vehicle should receive a full tank of fuel in order to properly initialize the fuel range (miles to empty) functionality.

During consumption of the first full tank of fuel, the gauge software will begin the process of learning your riding patterns, eventually tailoring the fuel range calculations to your unique riding characteristics.

### NOTE

*After filling the fuel tank, the range function will not update until the vehicle resumes normal speeds.*

### Back Lighting Adjustment

#### To adjust color of back lighting:

1. Turn Ignition switch to "Accessory" position.
2. Press and hold "Trip" reset switch until the odometer reads "COLOR".
3. Release reset switch.
4. Click the trip reset switch to scroll through available colors using course adjustment in +20 increments.
5. Press and hold to fine tune the color adjustment.
6. When desired color is reached the gauge must remain powered, and the button released for 5 seconds.
7. When the color is set the word "COLOR" will no longer be displayed in the LCD. Gauge automatically reverts back to display mileage. Power can then be turned off.
8. If color is not set in the first attempt repeat Steps 1 through 7.