

VT No. 36-0615 Rear Axle Speedometer Drive

General

This kit allows for the installation of a FLSTS Front End Kit on 1986 through 1995 Softail models (the original front wheel speedometer drive cannot be installed on the wheel of the FLSTS front end). See Service Parts illustration on page 3 for kit contents. This kit can also be used to convert a speedometer drive from the front wheel to the rear wheel on 1986 through 1995 Softail models. See Installation beginning on page 2. For this conversion, you will need to purchase a spacer to fill the space left by removing the speedometer drive from the front wheel assembly. Use spacer Part No. **VT No. 43618-95** for 1986-1995 FXSTS/FXSTSB OR spacer **VT No. 49-0372** for 1986-1995 Softails except FXSTS/FXSTSB. Refer to applicable Service Manual for important information on front wheel assembly.

Installation (when used with FLSTS Front End Kit)

1. Remove seat.

WARNING

To avoid accidental start-up of motorcycle, and possible personal injury, disconnect the battery cables (negative cable first) before performing any of the following procedures. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion resulting in personal injury.

2. Disconnect battery, negative cable first.

3. Remove the instrument console from the fuel tank by removing the nut that holds the console in place and unscrew drive cable from speedometer. Remove the two top bolts on right side fuel tank, and loosen, but do not remove, the lower bolt. This will let you pull the tank away from the frame to route the speedometer cable.

4. See Figure 1. Beginning at speedometer, route cable back to rear wheel as shown in illustration. Cable strap cable in place at locations shown. See Figure 2 for cable attachment point on frame. Slide boot over cable end.

5. Remove one bolt on rear wheel sprocket and discard washer.

6. Remove spring clip (or cotter pin) from rear axle. Remove axle nut and washer, then pull axle half way out. It may be necessary to remove the rear muffler to make room for axle. As the axle is pulled out, the belt adjuster collar on the sprocket side will fall loose.

7. See Service Parts illustration. Remove spacer on left side of wheel hub through space created by removing bolt in step 5, and replace with washer, speedometer drive unit, and bearing spacer in the order shown in Service Parts illustration.

8. Connect speedometer drive to rear end of speedometer cable.

9. Push axle back in and replace belt adjuster collar, axle nut, and washer. Tighten axle nut to 60 ft-lbs (81 Nm) and check to see if the spring clip (or cotter pin) can be installed. If required, tighten nut just enough to align axle hole and nut slots. If rear muffler was removed, replace it now.

10. See Figure 3. Install speedometer drive rotator washer onto sprocket with bolt removed in step 5 while locating tab of speedometer drive in slot of special washer. Torque bolt to 55-65 ft-lbs (75-88 Nm).

11. Rotate rear wheel and check that there is complete clearance around the entire sprocket. Also check that at the other end of the speedometer cable the wire in the center of the cable is spinning as the rear wheel is rotated.

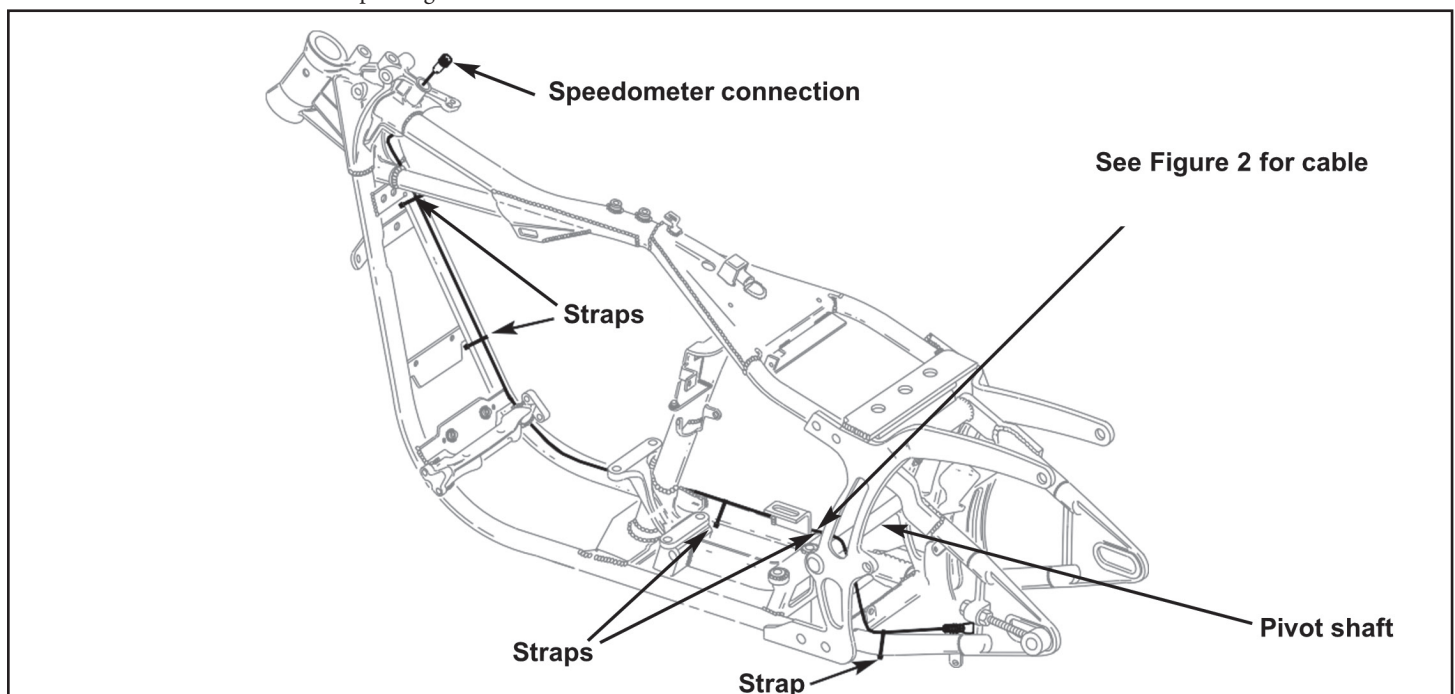


Figure 1. Routing Speedometer Cable

12. Connect speedometer to forward end of speedometer cable.

WARNING

When putting fuel tank back into position, make sure any vent lines or crossover lines that were disconnected are reconnected. If lines are not reconnected, fuel could spill from tank during operation and possibly ignite, resulting in personal injury.

13. Install and tighten tank bolts and install console.

WARNING

Always connect the positive battery cable first. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion resulting in personal injury.

14. Connect battery, positive cable first, and install seat.

WARNING

After installing seat, pull upward on front of seat to be sure it is locked in position. If seat is loose, it could shift position during vehicle operation and startle the rider, causing loss of control and personal injury.

Installation (when converting from front to rear wheel speedometer drive)

1. Perform steps 1 through 3 under Installation (when used with FLSTS Front End Kit).
2. See applicable Service Manual for removal of existing front wheel speedometer drive. Reinstall front wheel assembly according to Service Manual instructions, but install the appropriate spacer in place of the speedometer drive you have removed. Use spacer Part No. 43618-95 for 1986-1995 FXSTS/FXSTSB OR spacer Part No. 43674-95 for 1986-1995 Softails except FXSTS/FXSTSB.
3. Perform steps 4 through 14 under Installation (when used with FLSTS Front End Kit) to complete the rear wheel speedometer drive installation.

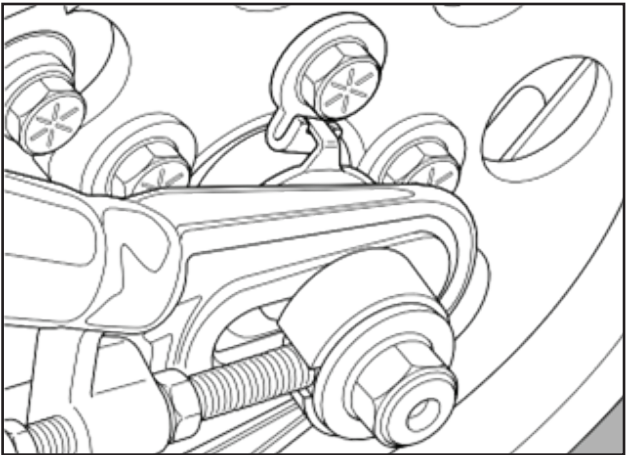


Figure 3. Rotator Washer

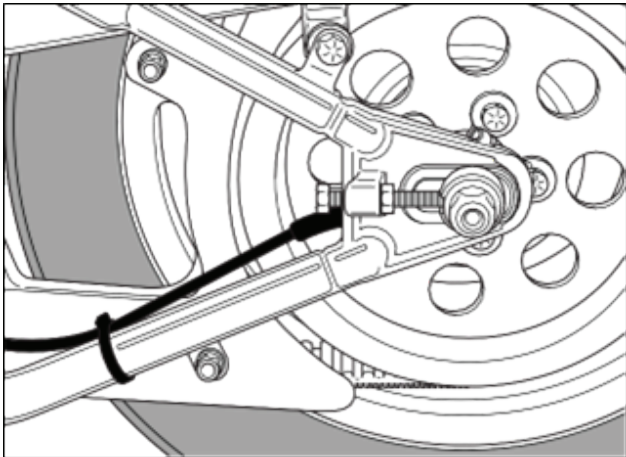


Figure 4. Cable Routing

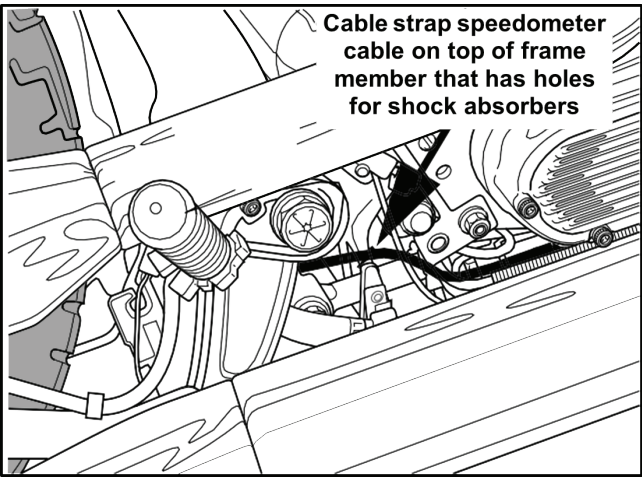
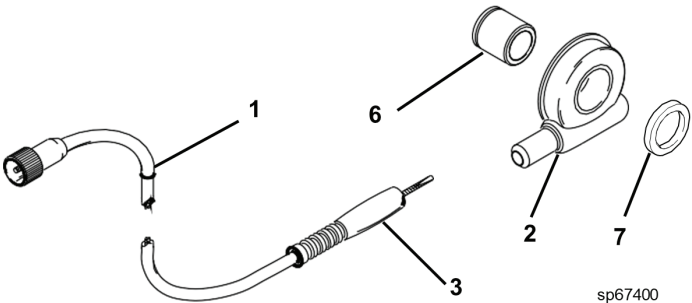


Figure 2. Attachment Point for Cable

Rear Axle Speedometer Drive



Item	Description
1	Speedometer cable
2	Speedometer drive unit
3	Speedometer cable boot
4	Cable straps (7), not shown
5	Speedometer drive rotator washer, not shown (see Figure 2)
6	Bearing spacer
7	