



INSTRUCTIONS

-J00088

REV. 7-1-95

Kit Number 39967-77A

CHAIN TENSIONER KIT- XL, XLCH, XLS

General

This kit is designed for use on 1977 and later XL, XLCH, XLS motorcycles. The parts contained in this kit are listed below.

This kit contains the following parts:

QTY	DESCRIPTION
1	Tensioner
1	Pivot Stud
1	Washer 25/64 in. (steel)
1	Locknut
1	Spring
1	Washer 3/8 in.

The following will have to be purchased to complete the chain tensioner conversion:

QTY	PART NO.	DESCRIPTION
1*	34955-75	Chain cover gasket
1*	34966-80	Chain cover gasket (black)
1	99626-77	STUD N' BEARING mount adhesive

* As applicable

WARNING

To avoid accidental start-up of vehicle and possible personal injury, disconnect the battery cables (negative cable first) before performing any of the following procedures.

Disassembly

1. Remove the drain plug and drain oil.

2. See Figure 1. Remove the gear shifter lever and the left footrest.
3. Relax the chain tensioner by unscrewing the chain adjuster screw.
4. Remove the chain case cover and the gasket. If the gasket is worn or damaged, it must be replaced.

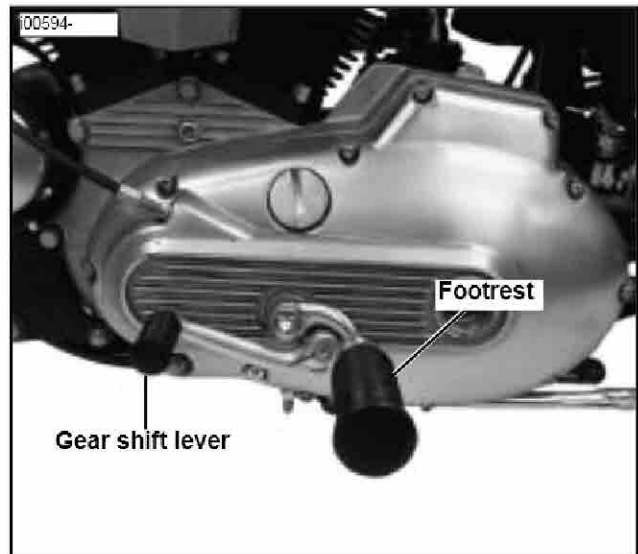


Figure 1. Gear Shift and Footrest Removal

NOTE

The replacement of all disturbed gaskets and/or seals is recommended.

5. Pull the old chain tensioner and spring from the pivot stud and discard.
6. Remove the pivot stud, using a stud removal tool.

Installation

7. Apply STUD N' BEARING mount adhesive to the new pivot stud and install.
8. See Figure 2. Slide the new chain tensioner and spring onto the pivot stud. Place the 3/8 in. steel washer onto the stud.

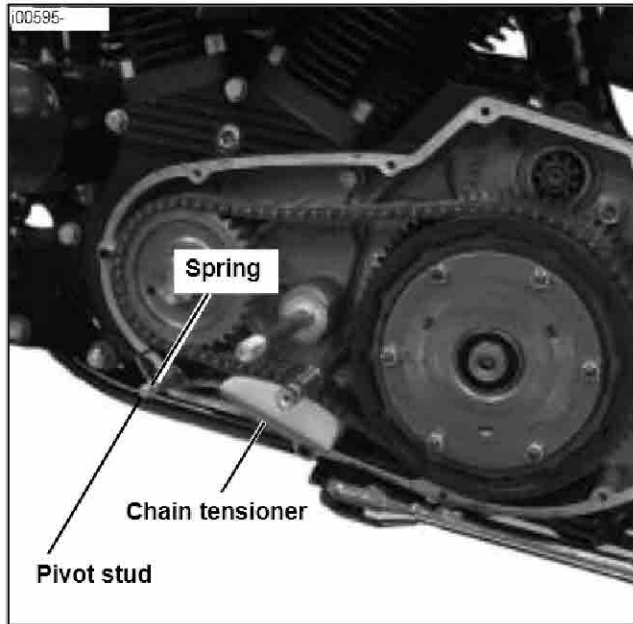


Figure 2. Chain Tensioner Installation

NOTE

The gasket will have to be trimmed to allow the spring to properly rest against the side of the case.

After the tensioner and the spring have been installed on the pivot stud, align the gasket with several of the lower bolt holes. Carefully mark the location, on the gasket, that will interfere with the spring. Carefully cut a small notch in the gasket material to allow clearance for the spring.

9. Replace the chain case cover and gasket. Secure all cover bolts to 90-110 in-lbs torque.
10. Install the copper washer and locknut onto the pivot stud. Tighten to 10-12 ft-lbs torque.
11. Install the footrest. Tighten the bolt to 50 ft-lbs torque.
12. Install the gear shift lever. Tighten pinch bolt to 90-110 in-lbs torque.

NOTE

Make sure the gear shift lever is positioned correctly on the shaft splines. The transmission must shift before the lever reaches its full travel.

13. Remove foreign material from the magnetic drain plug. Replace the drain plug with the plastic washer and securely tighten to 10 ft-lbs torque.

Lubrication

Fill the chain case to proper oil level. See Owner's Manual for details. Use Harley-Davidson Power Blend Super Premium Oil. If Super Premium Oil is not available, use grade 75 above 40° F.

Chain Adjustment

1. To adjust the front chain, remove the oil filler plug, near the top of the chain case.
2. Rotate the sprocket to find the tightest point on the chain.
3. See Figure 3. Loosen the adjusting screw locknut and turn the adjusting screw IN to reduce free play or OUT to increase free play.

NOTE

Chain Tension Specifications -

5/8 to 7/8 in. slack (cold engine)
3/8 to 5/8 in. slack (hot engine)

4. When the correct tension is obtained, tighten the locknut.
5. Connect battery cables.
6. Check for oil leaks.

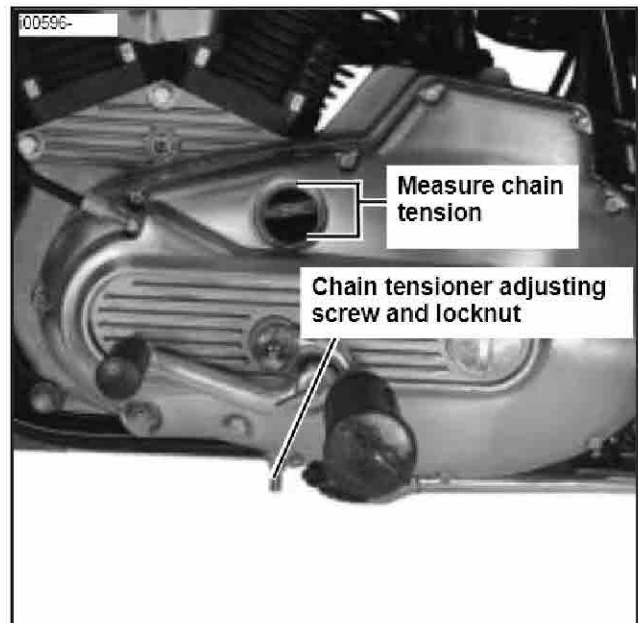


Figure 3. Chain Installation