

Staff Report – Photos by Buck Lovell

The stock mechanical primary chain tensioner, described as “automatic” keeps the primary chain tight as designed, but doesn't do the job as well as a hydraulic tensioner. The stock mechanical tensioner takes out the slack, but has a tendency to keep the chain excessively tight. A hydraulic chain tensioner is capable of providing a small amount of necessary slack which results in smoother operation. Follow along as we install an HB Wedge Hydraulic Chain Tensioner on a 96" Twin Cam motor.



This is the HB Wedge Hydraulic Chain Tensioner from Southern Oregon Hot Bikes.



This '07 Harley-Davidson® Street Bob (Dyna Glide) will have its existing primary drive chain tensioner replaced with the hydraulic unit from SOHB.



1 Remove the battery cover.



2 Disconnect the battery for safety.



3 Loosen and remove the primary chain case drain plug.



4 Loosen and remove the piece that covers the mid-shift shaft end protruding from the primary cover.



5 Remove the rubber spacer.



6 Loosen and remove all the outer primary cover bolts.

HB Wedge Hydraulic Chain Tensioner



7 Remove the outer primary cover.



8 Release the spring-loaded chain tensioner.



9 Squeeze the tensioner components together and put the lock in place.



10 Loosen and remove the bolts holding the factory tensioner in place.



11 Using a syringe; fill the aluminum wedge block with oil per the instructions.



12 Place the long spring into the wedge block.



13 Slip the wedge block into the hydraulic chain tensioner assembly as shown.



14 Squeeze the hydraulic chain tensioner together and place the locking clip on the tab to keep it compressed.



Slide the bolts through the hydraulic chain tensioner and put the spacers on the backside.



Slide the hydraulic chain tensioner into place under the primary chain.



Tighten both chain tensioner bolts at this time.



Torque the bolts to the factory specifications.



Remove the locking clip.



Install a new primary chain case gasket.



Reinstall the outer primary cover.



Install and tighten the outer primary cover bolts.

HB Wedge Hydraulic Chain Tensioner



23 Reinstall the rubber spacer on the mid-shift shaft.



24 Reinstall the shaft-end cover and tighten the allen-head bolt.



25 Remove the derby cover.



26 Install the chain case drain plug and fill the primary chain case with lubricant.



27 Replace the derby cover and tighten the bolts.



28 Reconnect the battery.

AFTER



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HB Wedge Hydraulic Chain Tensioner
Part #Wedge 2

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