Instruction Sheet For Tool No. epc002

TIGERSGATE Primary Chain Tensioner Compatible with 2007-2017 Harley Big Twin Engine Including 06 Dyna and 2017+ Milwaukee M8 Models



1- Fat Spring



1-Thin Spring



1-Guideplate



1-Thin Shim



1-Thick Shim

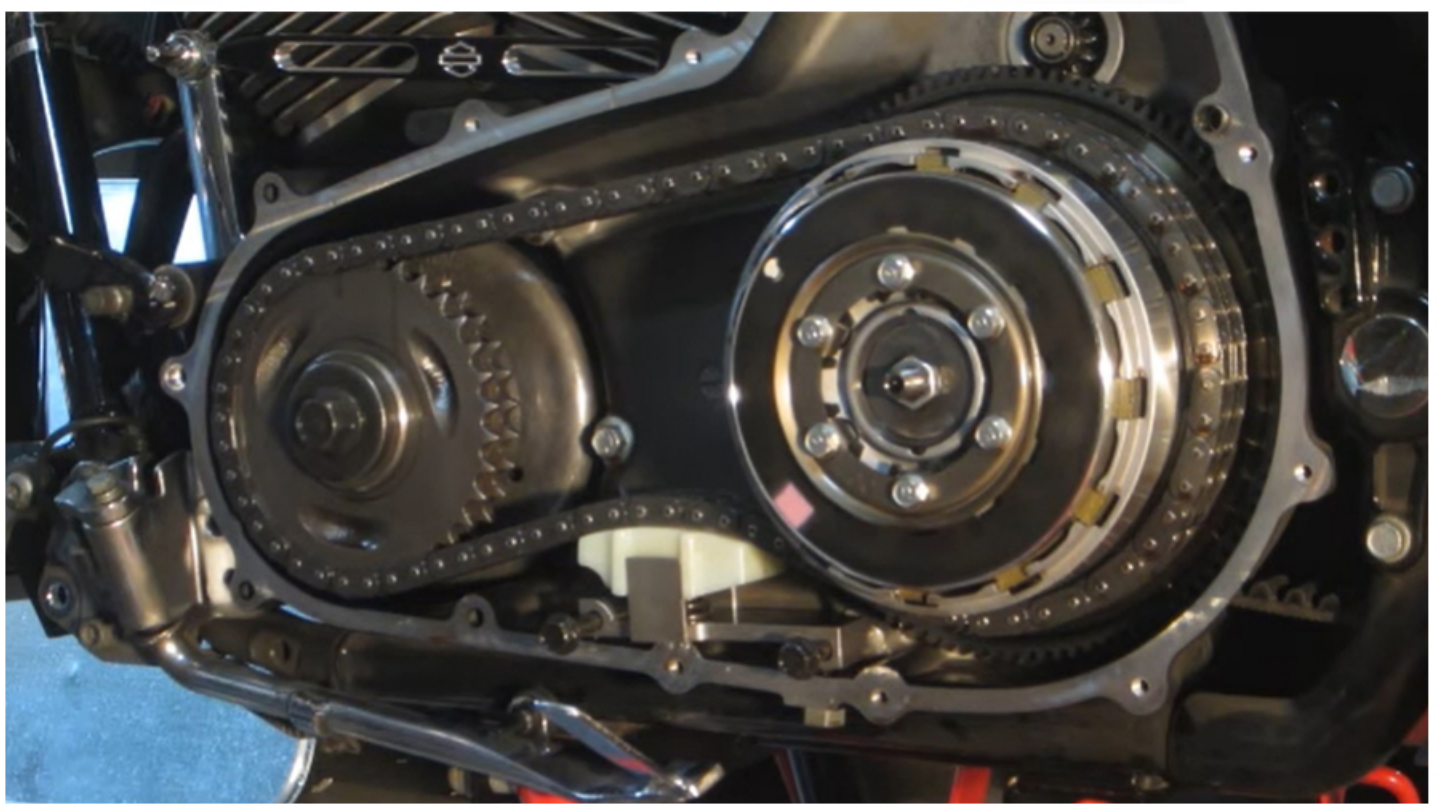


1-shoe

・ It is possible with a new chain installed you will reach the 3/8” measurement without using any shims.
・When adding shims, always add the “thin” shim first, remeasure the spring compression, and add additional thicknesses as needed.
・ If you should notice a some strange sound from the primary, it is merely the chain gliding over our nylon shoe as the links seat themselves. This sound will disappears quikly.
・ Once your chain has seated itself into the shoe and the rollers have made contact,there is usually an additional 1/16” added to the spring compression measurement.

1. Put your bike in neutral. Drain your oil and remove the engine’s primary case cover.
2. Remove the factory primary chain tensioner, along with any spacers that may be included on the back side. Keep the two stock bolts for the installation.
3. Place the thin spring inside the fat spring and place them in the hole in the bottom the shoe. With the smooth surface facing up and the circular cutout facing forward, on the shoe place the shoe and springs into the guideplate and slide it into place under the primry chain. (It may be necessary to start on the clutch side of the primary case and slide the adjuster forward, or to the center, and into final location.) See Figure1.

Figure1

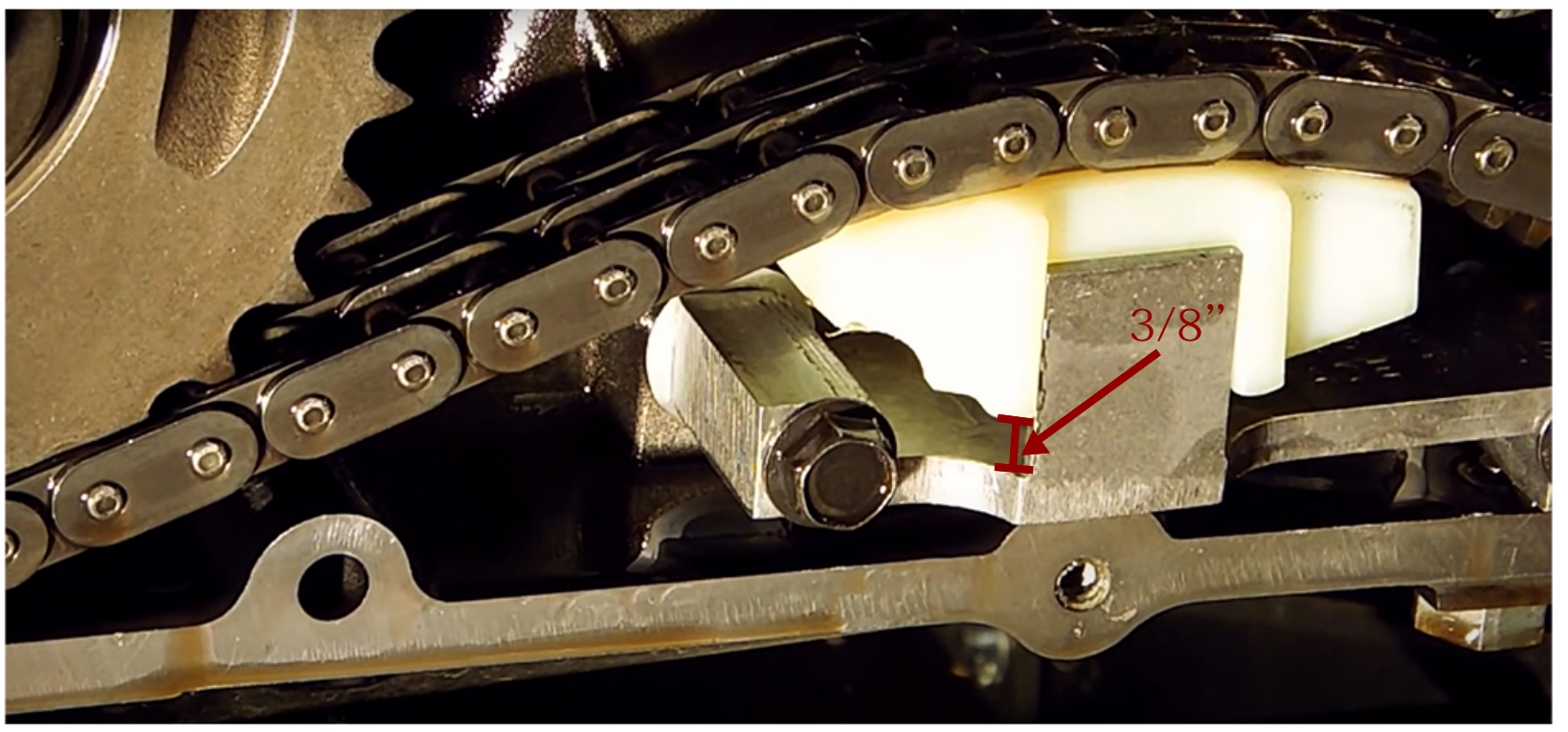


Instruction Sheet For Tool No. epc002

TIGERSGATE Primary Chain Tensioner Compatible with 2007-2017 Harley Big Twin Engine Including 06 Dyna and 2017+ Milwaukee M8 Models

4. Using the two stock mounting bolts from the factory unit, mount the tensioner to the inner prmary. Torque the bolts to spec as per your model owner’ s manual. Measure for the 3/8” spring compression area, from the bottom of the shoe to where the springs are setting on the guideplate. If this measurement is too loose,you will need to add a shim under the springs. Contiue this process until the 3/8” measurement is reached. It is possible a new chain will reach the 3/8” measurement without using any shims. If you need more than the supplied shims, this may indicate that your primary chain is worn and should be replaced. See Figure 2.

Figure 2



5. Re-assemble the engine’ s primary case and add fluid as recommended. We suggest that you replace the gaskets, if necessary (usually your original gasket can be used again without leaks). Check the unit for wear every 20,000 miles depending on your riding style...and always use clean primary fluid.

Note:

1.The 3/8” is measured from the bottom of the shoe to the resting point of the springs on the guideplate, or shims (closest to the vertical bars). as the figure 2 shown

2.At some point in time you will have chain ‘loosen’ and will need to add an addtional shim. Save your extra shims and instruction sheet for future use.