

Replacement Secondary Timing Chain Tensioners

This engine is designed with the right and left hand secondary (camshaft timing chains) tensioners integrated into the front camshaft bearing cap. *Do not reuse the old tensioner piston assembly once removed from the housing or damage to the engine may occur.*

Remove the camshaft sprockets and timing chains to service the right and left hand secondary tensioners. Next remove the lower tensioner shoe / chain guide. Remove the piston assembly by pushing up from the bottom. Clean the tensioner housing bore and inspect for any burrs, grooves that could damage the new seals. If necessary, replace the housing / cap assembly. Apply clean engine oil to the new tensioner piston, O-rings and housing bore. Do not remove the plastic shipping clip from the new piston assembly at this time. Install by pushing the piston assembly all the way down into the housing bore until a snap is heard and the tensioner piston assembly is seated into the housing bore. Next install the lower tensioner shoe / guide onto the bottom of the housing and remove the plastic shipping clip. Install the timing chain and camshaft sprockets while being careful not to press down on the upper tensioner shoe / guide.

When all of the secondary timing components have been installed activate the tensioners by pressing down on the upper tensioner shoe / guide until it bottoms out, let go of the tensioner and it will spring up applying tension to the chain. *Failure to properly activate the right and left hand secondary tensioners will result in engine damage.*

Note: Chain tensioner hold down tool part number 303-1530 or equivalent is required to service the secondary timing system.

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