

CAM CHAIN MECHANICAL TENSIONERS INSTALLATION GUIDE FOR BMW R1200-SERIES



Models

2013-2018 R1200 GS Liquid Cooled 2014-2018 R1200 RT Liquid Cooled All Liquid Cooled R1200RS Years All Liquid Cooled R1200R years



WARNING: INCORRECT INSTALLATION OF A MANUAL CAM CHAIN TENSIONER MAY RESULT IN SEVERE ENGINE DAMAGE. IF YOU ARE NOT CERTAIN HOW TO INSTALL THE CAM CHAIN TENSIONER THEN IT IS ADVISED THAT IT BE INSTALLED BY A SHOP WHO IS FAMILIAR WITH THIS PROCESS.

Step 1. Remove the left and right side spark plug covers, ignition coils and the 3 torx 50 valve cover bolts. (Fig. 1)



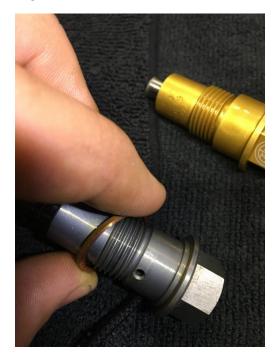
(Fig. 1)

Step 2. Set left cylinder to TDC (Top Dead Center) (as if to perform a valve adjustment) If possible install crankshaft/camshaft locking tools.(insert picture crank tool, camshaft tool, camshaft tool installed). If you do not have these tools it is ok, just make a note of how the camshafts are aligned at this point. It will be referenced later. (Fig 2)



(Fig. 2)

Step 3. Remove the factory tensioner. Keep the copper washer on the end of the tensioner. (Fig 3)



(Fig. 3)

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Step 4. Install the SCMW tensioner body into the cylinder head (make sure the threaded rod is not installed at this time. Torque the tensioner body to 32nm. (Fig. 4)



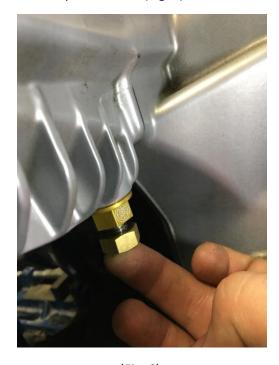
(Fig. 4)

Step 5. Install the threaded rod into the tensioner body and turn in by hand until you feel it get tight. (Note if you didn't install the cam and crank locking tools make sure the blocks on the end of the camshaft are in the same position as it was before the disassembly. (Fig. 5)



(Fig. 5)

Step 6. Install the locking nut to the threaded rod and torque to 30nm. (Fig. 6)



(Fig. 6)

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(Fig. 7)

Step 7. Remove your cam and crank locking tools and rotate the engine to the right side TDC (top Dead Center) (Fig. 7)

Step 8. Reinstall cam and crank locking tools.

Step 9. Repeat steps 3-6 again for the right side See (Fig. 3) (Fig.4) (Fig. 5) & (Fig. 6)

Step 10. Remove the cam and crank locks.

Step 11. Rotate the engine 360 degrees to make sure there is no binding in the engine.

Step 12. Install the valve covers, spark plugs and ignition coils.

Step 13. Start the engine and adjust out any noise in the cam chain.

ADJUSTMENT

Adjustment is done by sound. Listen to the engine and adjust the tensioner based on the engine's chain noise. If adjustment isn't making a change in the noise of the chain, then further problems may need attention.

WARNING: OVER TIGHTENING THE TENSIONER WILL CAUSE ENGINE DAMAGE!