

TIMING CHAIN, CHAIN TENSIONER [SKYACTIV-G 2.5T]

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Purpose, Function

Timing chain

- The timing chain transmits the rotation force of the crankshaft to the camshaft to perform the rotation timing of the crankshaft and camshaft.

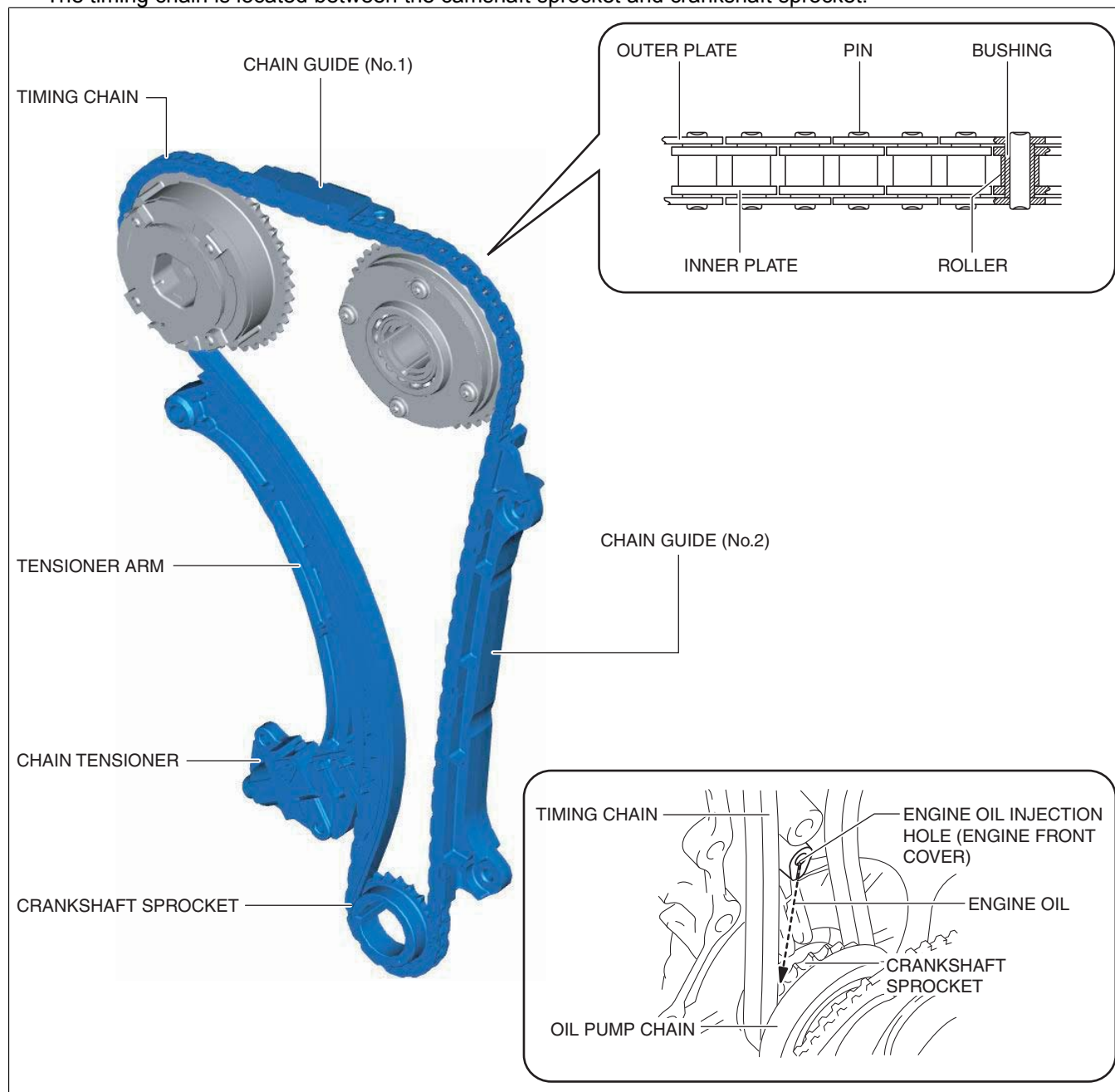
Chain tensioner

- The chain tensioner stabilizes the movement of the timing chain by constantly holding the tension of the timing chain to stabilize the valve open/close timing.

Construction

Timing chain

- The timing chain is located between the camshaft sprocket and crankshaft sprocket.



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- Lubrication of the timing chain and each sprocket is performed using the engine oil from the engine front cover.
- The sliding resistance has been reduced and the timing chain behavior has been stabilized by changing to a straight-shaped chain guide (No.2) and setting the chain tensioner load to the required minimum.
- Improvement of the rigidity of the chain guide and tensioner arm and the stability of the timing chain operation have reduced the sliding resistance.

Chain tensioner

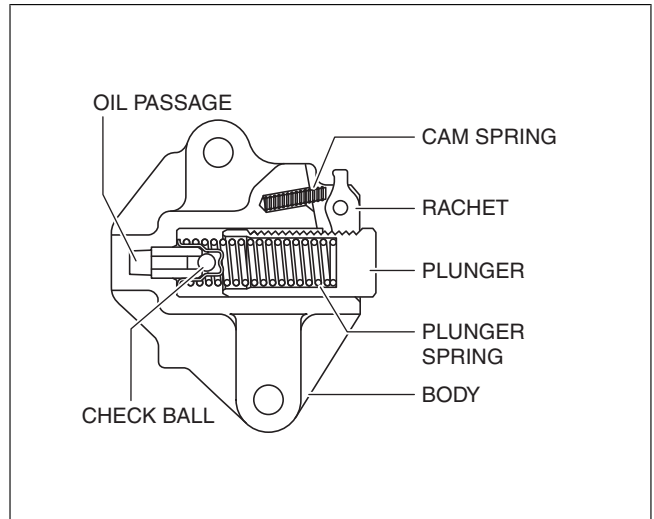
- The chain tensioner is located on the cylinder block (engine front part).
- An oil pressure type chain tensioner has been adopted for the chain tensioner.

Operation

Chain tensioner

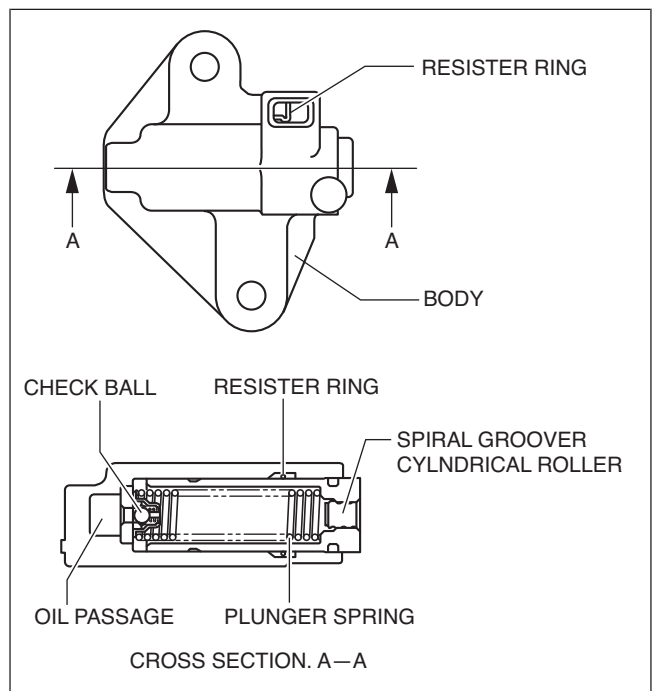
- Tension fluctuation on the timing chain is suppressed due to hydraulic pressure and spring force, and the timing chain tensioner maintains tension on the timing chain.

Chain tensioner type A



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Chain tensioner type B



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