

TIMING CHAIN, CHAIN TENSIONER [SKYACTIV-D 2.2]

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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.

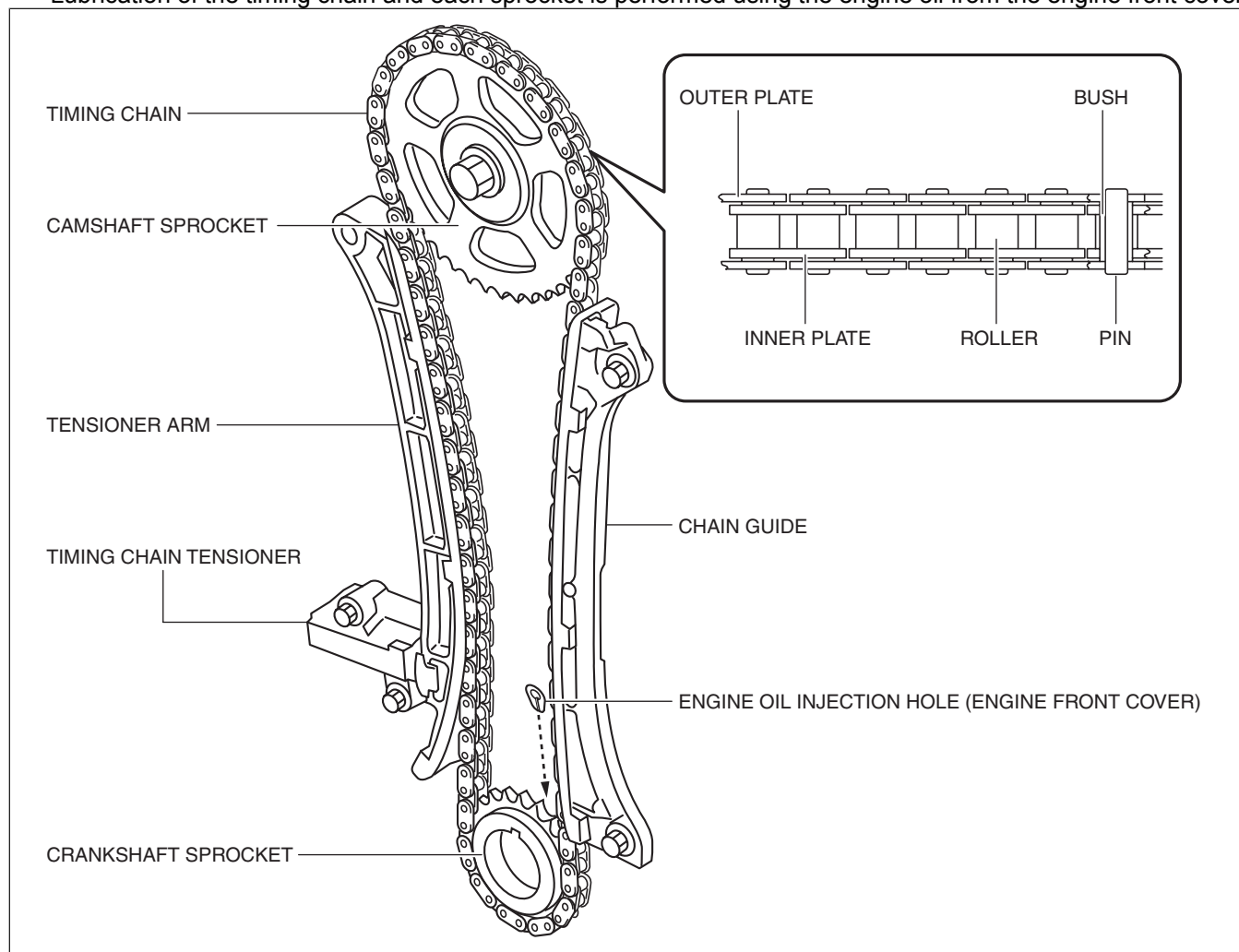
Chain tensioner

- The chain tensioner constantly maintains the timing chain tension and the timing chain operation is stabilized.

Construction

Timing chain

- The timing chain is installed between the camshaft sprocket and crankshaft sprocket.
- Lubrication of the timing chain and each sprocket is performed using the engine oil from the engine front cover.



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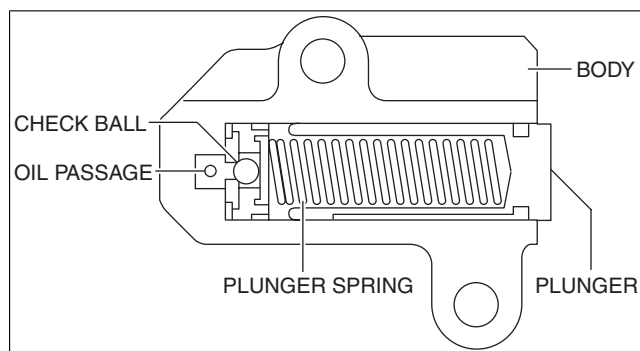
Chain tensioner

- The chain tensioner is installed to the cylinder block (front of engine).
- An oil pressure type chain tensioner has been adopted for the chain tensioner.

OPERATION

Chain tensioner

- Tension fluctuation on the timing chain is suppressed by hydraulic pressure and tension is held constant by spring force.



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