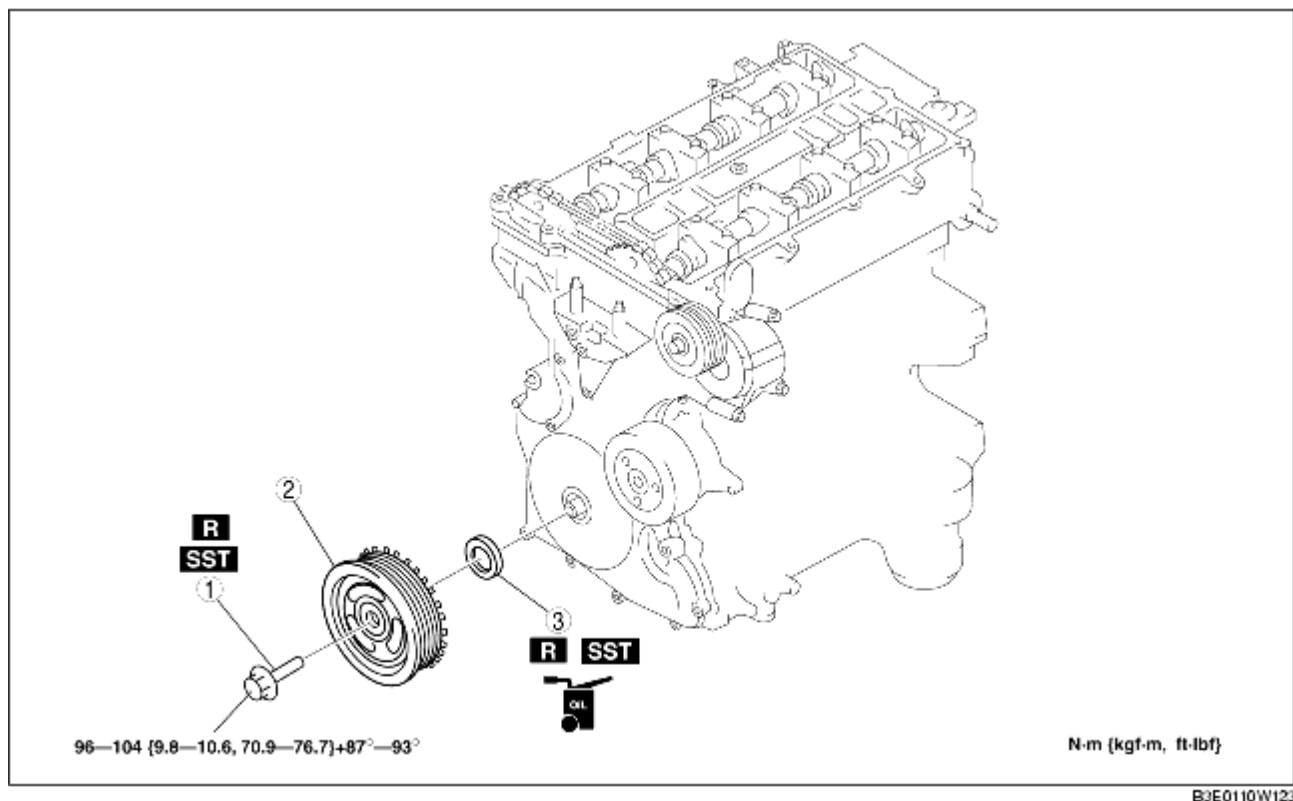


# FRONT OIL SEAL REPLACEMENT [LF]

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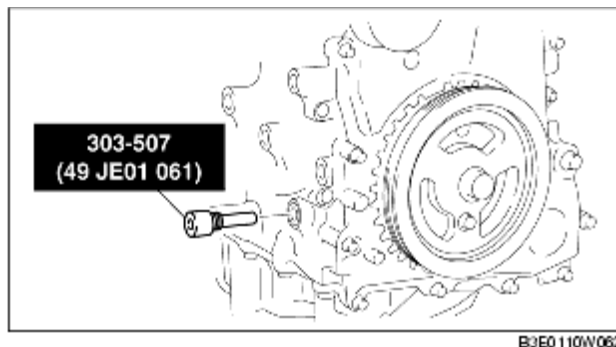
1. Remove the plug hole plate (See [PLUG HOLE PLATE REMOVAL/INSTALLATION \[LF\]](#).)
2. Remove the plug hole plate bracket.
3. Remove the battery cover (See [BATTERY REMOVAL/INSTALLATION \[LF\]](#).)
4. Disconnect the negative battery cable.
5. Disconnect the wiring harness.
6. Remove the following parts.
  - (1) Ignition coils (See [IGNITION COIL REMOVAL/INSTALLATION \[LF\]](#).)
  - (2) Cylinder head cover (See [Cylinder Head Cover Installation Note](#).)
  - (3) Drive belt (See [DRIVE BELT REPLACEMENT \[LF\]](#).)
  - (4) Front wheel and tire (RH) (See [GENERAL PROCEDURES \(SUSPENSION\)](#).)
  - (5) Under cover and splash shield
  - (6) Crankshaft position (CKP) sensor (See [CRANKSHAFT POSITION \(CKP\) SENSOR REMOVAL/INSTALLATION \[LF\]](#).)
7. Remove in the order indicated in the table.
8. Install in the reverse order of removal.



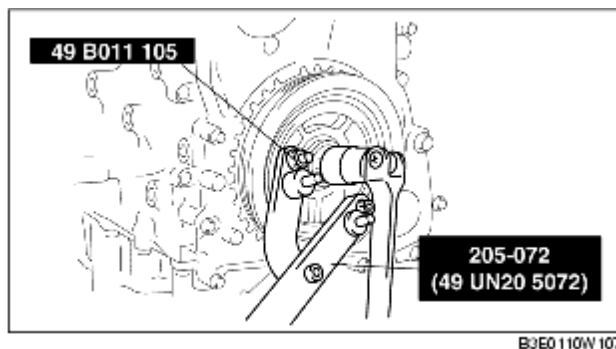
1	Crankshaft pulley lock bolt (See <a href="#">Crankshaft Pulley Lock Bolt Removal Note.</a> ) (See <a href="#">Crankshaft Pulley Lock Bolt Installation Note.</a> )
2	Crankshaft pulley
3	Front oil seal (See <a href="#">Front Oil Seal Removal Note.</a> ) (See <a href="#">Front Oil Seal Installation Note.</a> )

## Crankshaft Pulley Lock Bolt Removal Note

1. Remove the cylinder block lower blind plug.
2. Install the **SST**.



3. Turn the crankshaft clockwise until the crankshaft is in the No.1 cylinder TDC position (until the balance weight is attached to the **SST**).
4. Hold the crankshaft pulley using the **SSTs**.

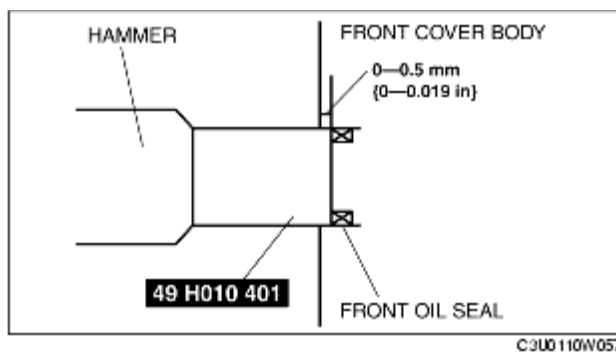
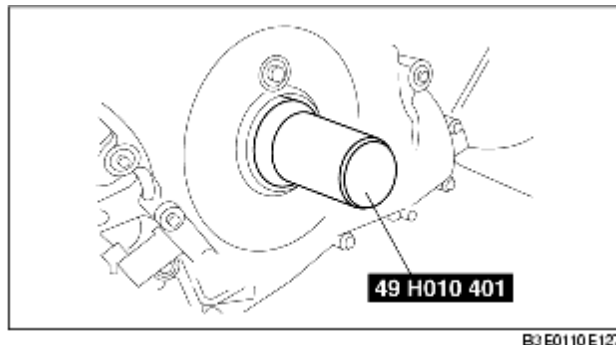


## Front Oil Seal Removal Note

1. Cut the oil seal lip using a razor knife.
2. Remove the oil seal using a screwdriver wrapped with a rag.

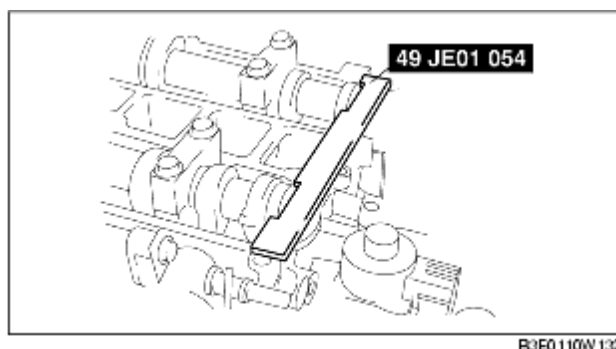
## Front Oil Seal Installation Note

1. Apply clean engine oil to the oil seal lip.
2. Push the oil seal slightly in by hand.
3. Tap the oil seal in evenly using the **SST** and a hammer.

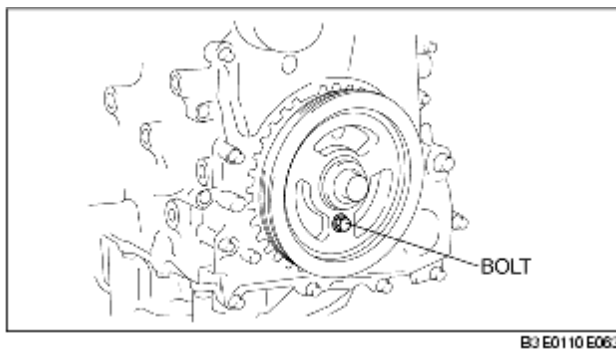


## Crankshaft Pulley Lock Bolt Installation Note

1. Install the **SST** on the camshaft as shown in the figure.

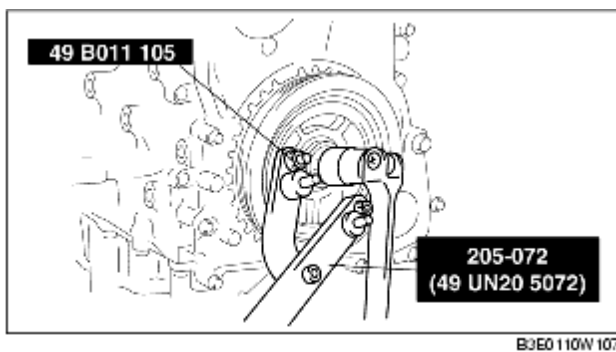


2. Install the **M6 x 1.0** bolt in by hand.



3. Turn the crankshaft clockwise until the crankshaft is in the No.1 cylinder TDC position (until the balance weight is attached to the **SST**).

4. Hold the crankshaft pulley using the **SSTs**.



5. Tighten the crankshaft pulley lock bolt in the order shown following 2 steps using the **SST (49 D032 316)**.

**Tightening torque**

(1) 96-104 N·m

{9.8-10.6 kgf·m, 70.9-76.7 ft·lbf}

(2) 87°-93°

6. Remove the **M6 x 1.0** bolt.
7. Remove the **SST** from the camshaft.
8. Remove the **SST** from the cylinder block lower blind plug.
9. Rotate the crankshaft clockwise 2 turns until the TDC position.

- If not aligned, loosen the crankshaft pulley lock bolt and repeat from Step 1.

10. Install the cylinder block lower blind plug.

**Tightening torque****18-22 N·m {1.9-2.2 kgf·m, 14-16 ft·lbf}**