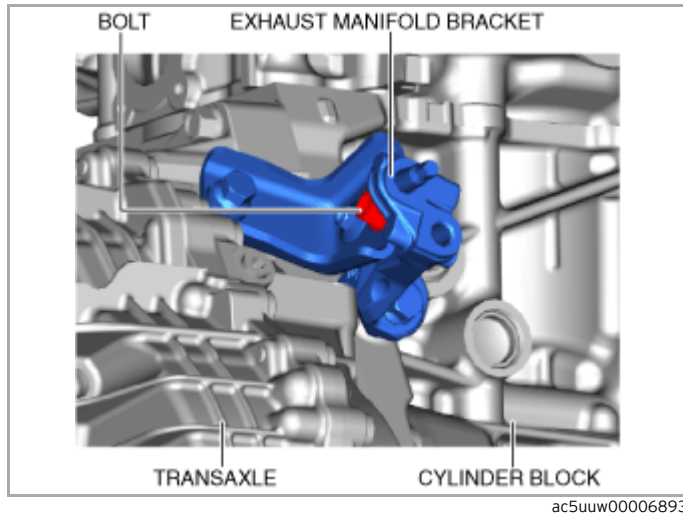


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## 2005 MAZDA Tribute OEM Service and Repair Workshop Manual

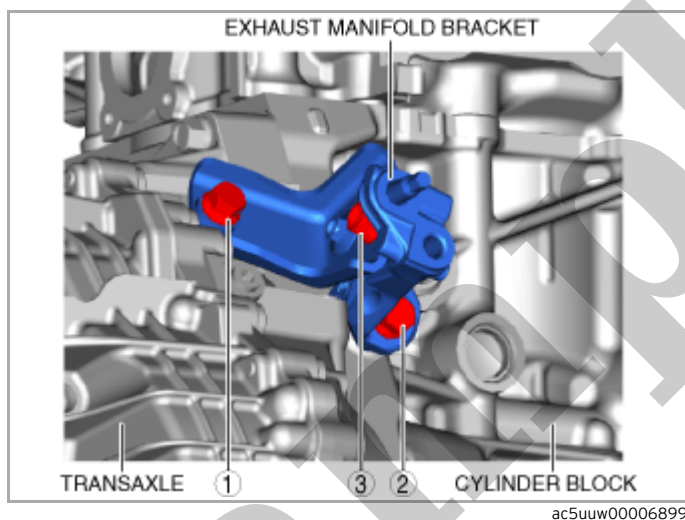
[Go to manual page](#)



3) Tighten the bolt in the order shown in the figure.

#### Tightening torque

38–51 N·m {3.9–5.2 kgf·m, 29–37 ft·lbf}



#### Tightening torque

38–51 N·m {3.9–5.2 kgf·m, 29–37 ft·lbf}

8. Remove the bracket No.1 (drive shaft bracket). (See [FRONT DRIVE SHAFT REMOVAL/INSTALLATION](#).)

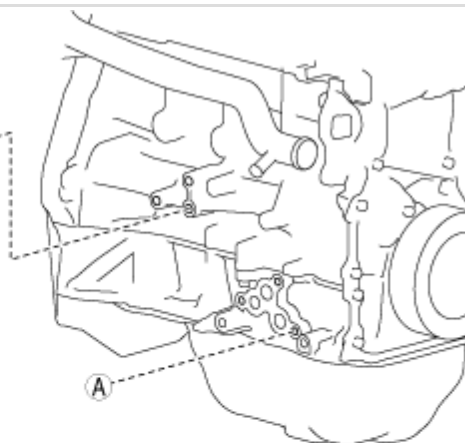
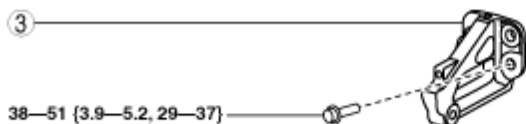
9. Remove the transfer bracket and transfer. (AWD) (See [TRANSFER REMOVAL/INSTALLATION \[FW6AX-EL\]](#).)

10. Remove the starter. (See [STARTER REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).)

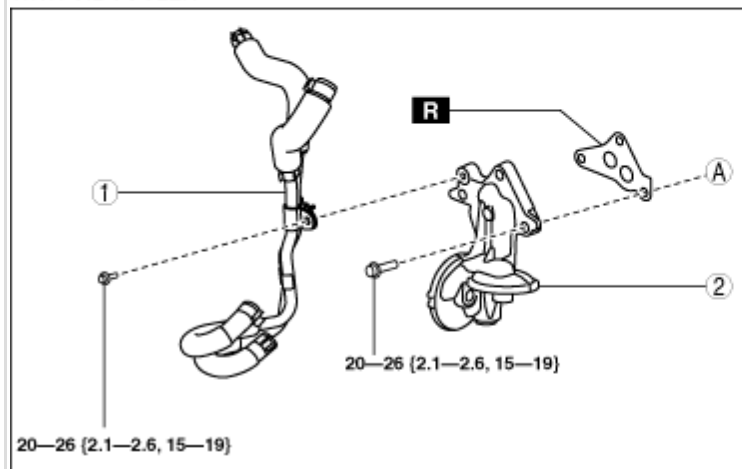
11. Remove the coolant control valve. (See [COOLANT CONTROL VALVE REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).)

12. Fix the drive plate using the crankshaft pulley lock bolt.

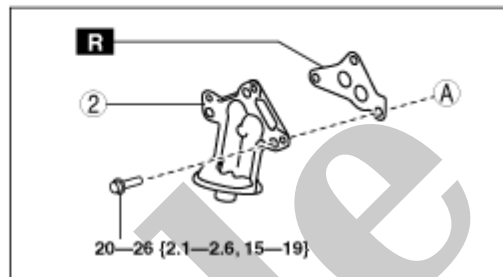
13. Remove the torque converter installation nut from the starter installation hole. (See [AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION \[FW6A-EL\]](#) (2WD).) (See [AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION \[FW6AX-EL\]](#) (AWD).)



#### WITH OIL COOLER



#### WITHOUT OIL COOLER



N·m (kgf-m, ft-lbf)

ac5uuw00011112

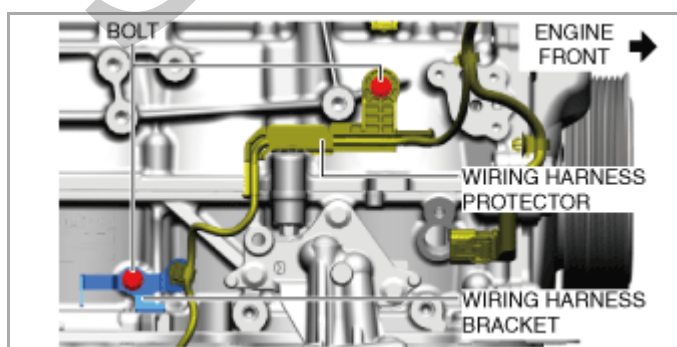
1	Oil cooler water pipe component (With oil cooler)
2	Oil filter body (See <a href="#">Oil Filter Body Removal Note.</a> ) (See <a href="#">Oil Filter Body Installation Note.</a> )
3	Exhaust manifold bracket (2WD) (See <a href="#">Exhaust Manifold Bracket Installation Note.</a> )

## Oil Filter Body Removal Note

1.Remove the emission wiring harness using the following procedure.

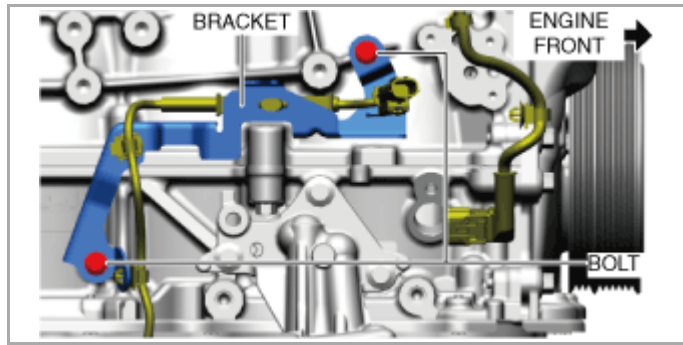
(1)Remove the bolts shown in the figure.

Without oil cooler



ac5uuw00009325

With oil cooler



ac5uuw00009326

#### Tightening torque

8–11 N·m {82–112 kgf·cm, 71–97 in·lbf}

(3)Install all of the related wiring harness clip.

- The idle speed cannot be adjusted.
- The M-MDS is required to verify the idle speed.

1.Prepare for the engine tune-up. (See **Engine Tune-up Preparation**.)

2.Verify that the idle speed according to each load (M-MDS PID: RPM) is within the specification using the PID/data monitor function of the M-MDS (except idle speed decrease after applying load). (See **PCM INSPECTION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]**.)

- If the engine speed is not within the specification when a specified load is applied, inspect the related input parts, wiring harnesses, and connectors.

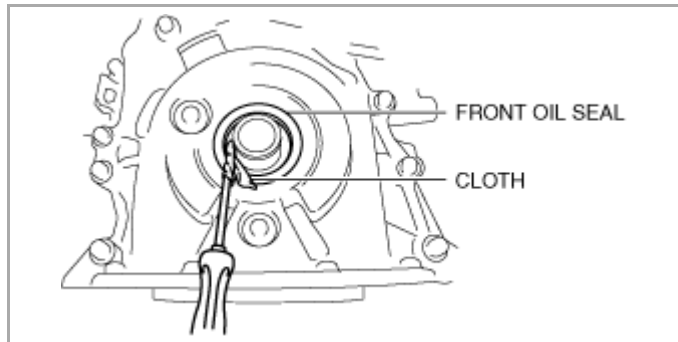
**Idle-up speed (P position or N position)**

A/C on: 650–800 rpm

Electrical loads on: 600–750 rpm

## Front Oil Seal Removal Note

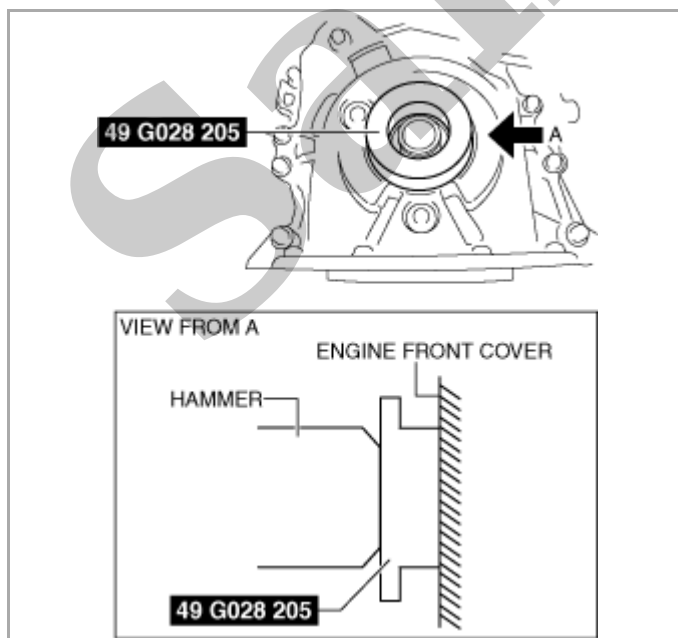
1. Cut the front oil seal lip using a utility knife.
2. Remove the front oil seal using a flathead screwdriver with the tip protected by a clean cloth to prevent damage to the crankshaft.



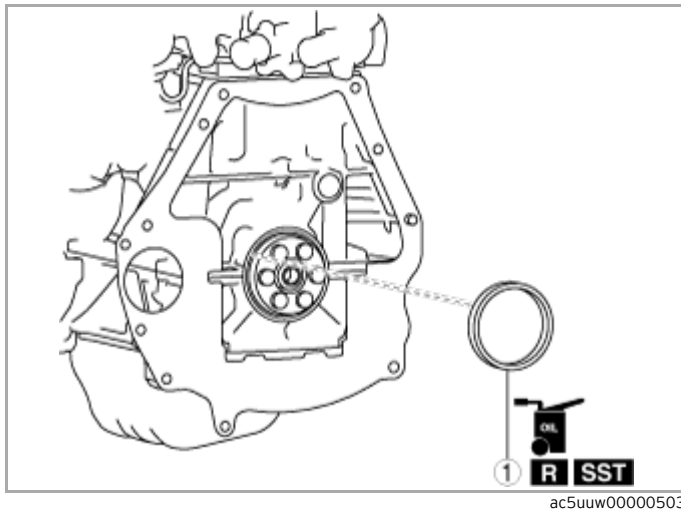
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## Front Oil Seal Installation Note

1. Apply clean engine oil to the inner surface of a new front oil seal.
2. Insert the front oil seal into the engine front cover by hand.
3. Tap the front oil seal in evenly using the SST and a hammer.



am3uuw00008830

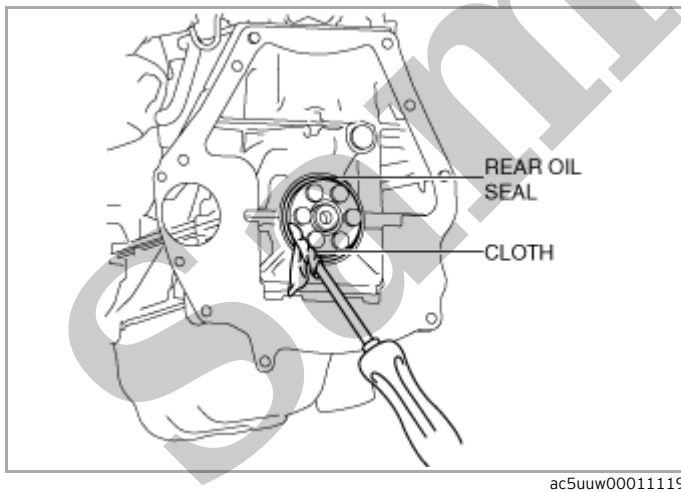


1

Rear oil seal  
(See [Rear Oil Seal Installation Note.](#))  
(See [Rear Oil Seal Installation Note.](#))

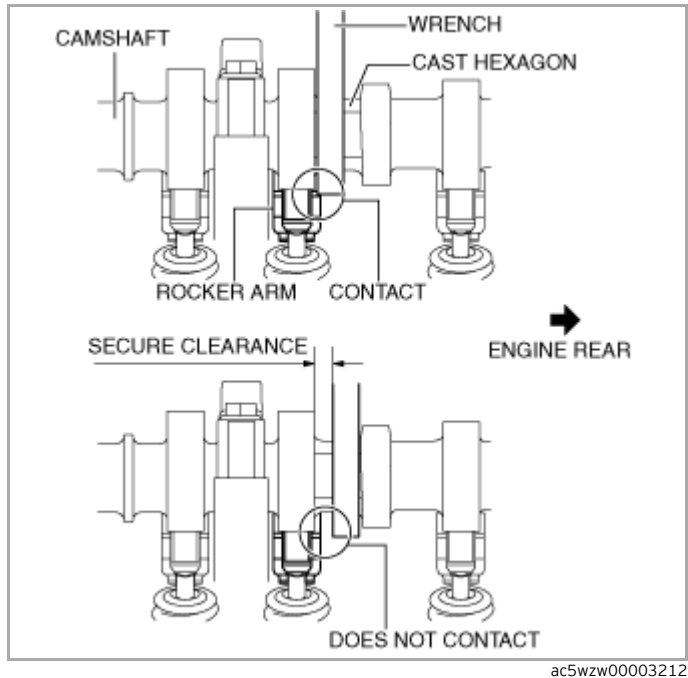
## Rear Oil Seal Removal Note

1. Cut the rear oil seal lip using a utility knife.
2. Remove the rear oil seal using a flathead screwdriver with the tip protected by a clean cloth to prevent damage to the crankshaft.



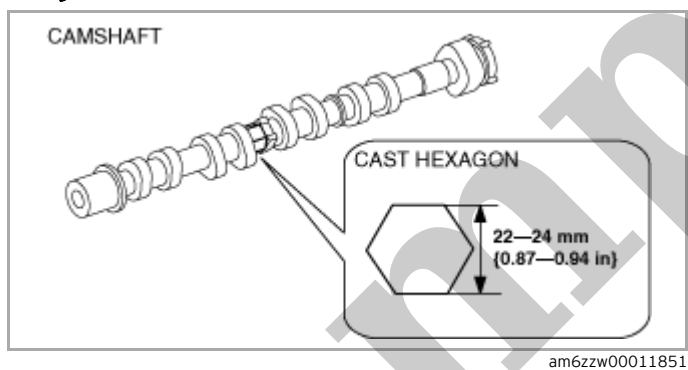
## Rear Oil Seal Installation Note

1. Apply clean engine oil to the inner surface of a new rear oil seal.
2. Insert the rear oil seal into the cylinder block by hand.
3. Tap the rear oil seal in evenly using the SST and a hammer.



### Note

- Width at the cast hexagon of the camshaft is 22–24 mm {0.87–0.94 in}.



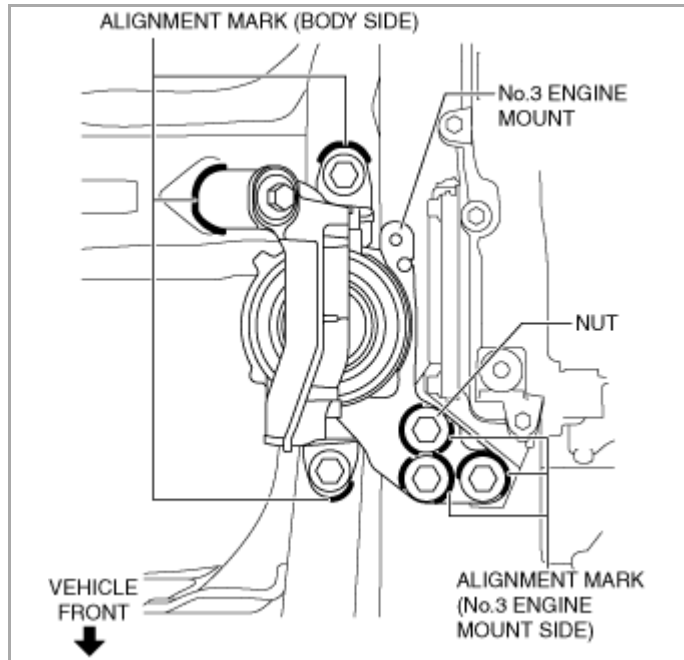
1. Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
2. Remove the plug hole plate. (See [PLUG HOLE PLATE REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\].](#))
3. Remove the ignition coil/ion sensors. (See [IGNITION COIL/ION SENSOR REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\].](#))
4. Remove the front under cover No.2. (See [FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.](#))
5. Remove the front splash shield (RH). (See [SPLASH SHIELD REMOVAL/INSTALLATION.](#))
6. Remove the drive belt. (See [DRIVE BELT REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\].](#))
7. Drain the engine oil. (See [ENGINE OIL REPLACEMENT \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\].](#))



7	Crankshaft pulley (See <a href="#">FRONT OIL SEAL REPLACEMENT [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]</a> .)
8	Front oil seal (See <a href="#">FRONT OIL SEAL REPLACEMENT [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]</a> .)
9	No.3 engine mount (See <a href="#">No.3 Engine Mount Removal Note</a> .) (See <a href="#">No.3 Engine Mount Installation Note</a> .)
10	Electric variable valve timing motor/driver (See <a href="#">ELECTRIC VARIABLE VALVE TIMING MOTOR/DRIVER REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)]</a> .)
11	Engine front cover (See <a href="#">Engine Front Cover Removal Note</a> .) (See <a href="#">Engine Front Cover Installation Note</a> .)
12	Chain tensioner (See <a href="#">Timing Chain Removal Note</a> .) (See <a href="#">Timing Chain Installation Note</a> .)
13	Tensioner arm (See <a href="#">Timing Chain Removal Note</a> .) (See <a href="#">Timing Chain Installation Note</a> .)
14	Chain guide (No.1) (See <a href="#">Timing Chain Removal Note</a> .) (See <a href="#">Timing Chain Installation Note</a> .)
15	Timing chain (See <a href="#">Timing Chain Removal Note</a> .) (See <a href="#">Timing Chain Installation Note</a> .)
16	Chain guide (No.2)
17	Crankshaft sprocket
18	Oil pump chain tensioner (See <a href="#">Oil Pump Chain Removal Note</a> .) (See <a href="#">Oil Pump Chain Installation Note</a> .)
19	Balancer shaft sprocket (See <a href="#">Oil Pump Chain Removal Note</a> .) (See <a href="#">Oil Pump Chain Installation Note</a> .)
20	Oil pump chain (See <a href="#">Oil Pump Chain Removal Note</a> .) (See <a href="#">Oil Pump Chain Installation Note</a> .)
21	Oil pump driven sprocket (See <a href="#">Oil Pump Chain Removal Note</a> .) (See <a href="#">Oil Pump Chain Installation Note</a> .)
22	Oil pump chain guide
23	Oil pump drive sprocket
24	Key

## Cylinder Head Cover Removal Note

- 1.Disconnect the OCV connector.
- 2.Remove the wiring harness clips secured to the cylinder head cover.
- 3.Remove the wiring harness clip secured to the intake manifold as shown in the figure, and set the wiring harness aside.



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#### Note

- Paint so that the No.3 engine mount is framed on the body side and the outline of the nut is framed on the No.3 engine mount side.

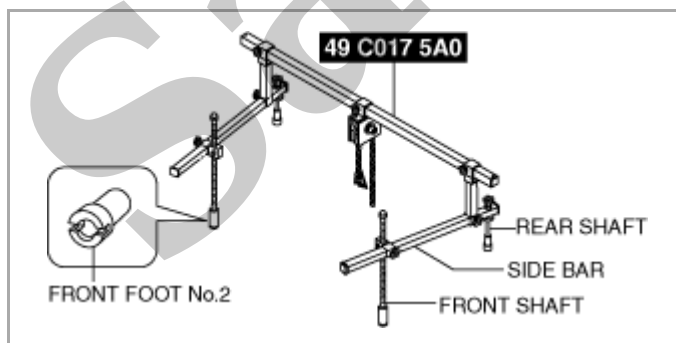
4. Install the SST using the following procedures.

#### Caution

- Refer to the SST instruction manual for the basic handling procedure.

#### Note

- Install front foot No.2 to the left and right front shafts of the SST.



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(1) Protect the positions shown in the figure using tape.