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2013 MAZDA 5 / Premacy OEM Service and Repair Workshop Manual

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STEERING SHIFT SWITCH REMOVAL/INSTALLATION [FW6A-EL, FW6AX-EL]

SM2898428

id0517h211250

Warning

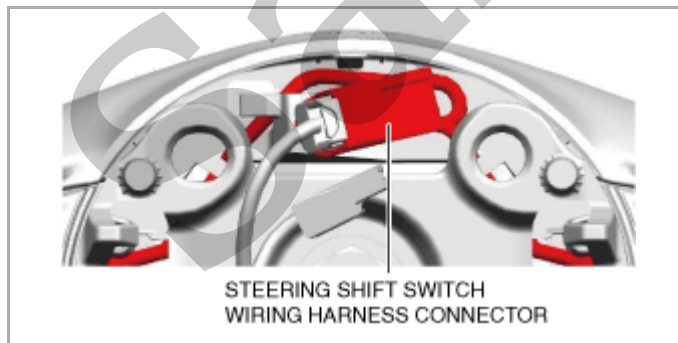
- Handling the driver-side air bag module improperly can accidentally deploy the air bag module, which may seriously injure you. Read the air bag system service warnings and cautions before handling the air bag module. (See **AIR BAG SYSTEM SERVICE WARNINGS [STANDARD DEPLOYMENT CONTROL SYSTEM - MEXICO SPEC.]**.) (See **AIR BAG SYSTEM SERVICE CAUTIONS [STANDARD DEPLOYMENT CONTROL SYSTEM - MEXICO SPEC.]**.) (See **AIR BAG SYSTEM SERVICE WARNINGS [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.) (See **AIR BAG SYSTEM SERVICE CAUTIONS [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.)

1. Disconnect the negative battery terminal and wait for 1 min or more. (See **NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION**.)

2. Remove the driver-side air bag module. (See **DRIVER-SIDE AIR BAG MODULE REMOVAL [STANDARD DEPLOYMENT CONTROL SYSTEM - MEXICO SPEC.]**.) (See **DRIVER-SIDE AIR BAG MODULE INSTALLATION [STANDARD DEPLOYMENT CONTROL SYSTEM - MEXICO SPEC.]**.) (See **DRIVER-SIDE AIR BAG MODULE REMOVAL [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.) (See **DRIVER-SIDE AIR BAG MODULE INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.)

3. Remove the steering wheel. (See **STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION**.)

4. Disconnect the steering shift switch wiring harness connector.



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5. Remove the screw.

OIL PRESSURE SWITCH REMOVAL/INSTALLATION [FW6A-EL, FW6AX-EL]

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Replacement Part

Bolt
Quantity: 16
Location of use: Oil pan

Oil and Chemical Type

Sealant
Type: TB1217E or equivalent

Warning

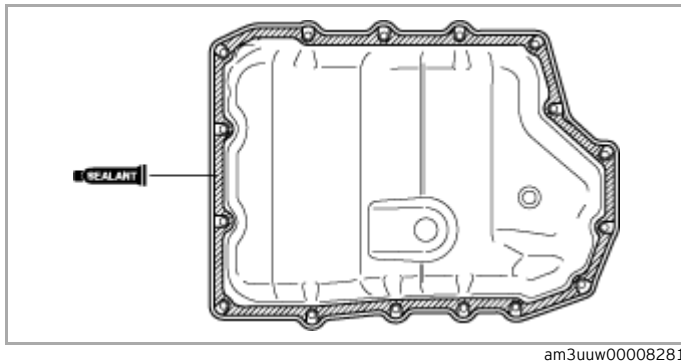
- A hot transaxle and ATF can cause severe burns. Turn off the engine and wait until they are cool.
- Always wear protective eye wear when using the air compressor. If the air compressor is used, any particles of dirt or sludge could spatter and get into the eyes.

Caution

- If the oil pressure switch has been replaced, perform initial learning. (See **INITIAL LEARNING [FW6A-EL, FW6AX-EL].**)

Oil Pressure Switch A

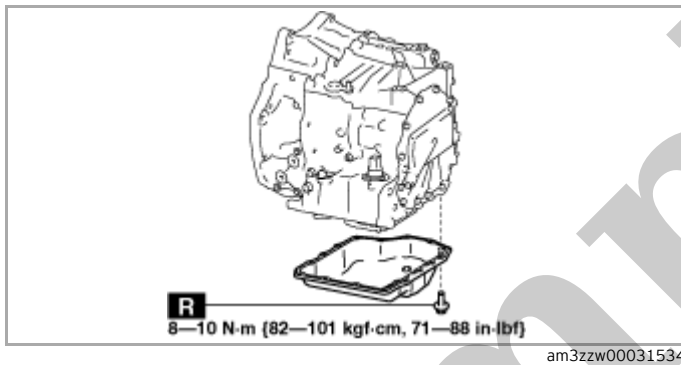
- 1.Select the selector lever to P position.
- 2.Disconnect the negative battery terminal. (See **NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.**)
- 3.Remove the front under cover No.2. (See **FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.**)
- 4.Clean the transaxle exterior throughout with a steam cleaner or cleaning solvents.
- 5.Drain the ATF. (See **AUTOMATIC TRANSAXLE FLUID (ATF) REPLACEMENT [FW6A-EL, FW6AX-EL].**)
- 6.Remove the oil pan.
- 7.Insert a precision flathead screwdriver and move it in the direction of the arrow to disconnect the oil pressure switch A connector as



Caution

- Clean any remaining silicone sealant on the contact surface of the transaxle case and oil pan, and degrease the sealant area. Otherwise, oil could leak.

14. Install the oil pan with new bolts before the applied sealant starts to harden.



15. Add the ATF. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[FW6A-EL, FW6AX-EL\]](#).)

16. Install the front under cover No.2. (See [FRONT UNDER COVER No.2 REMOVAL/INSTALLATION](#).)

17. Connect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION](#).)

18. Perform the "Initial Learning" (Oil pressure switch A replacement). (See [INITIAL LEARNING \[FW6A-EL, FW6AX-EL\]](#).)

19. Perform the "Mechanical System Test". (See [MECHANICAL SYSTEM TEST \[FW6A-EL, FW6AX-EL\]](#).)

Oil Pressure Switch B

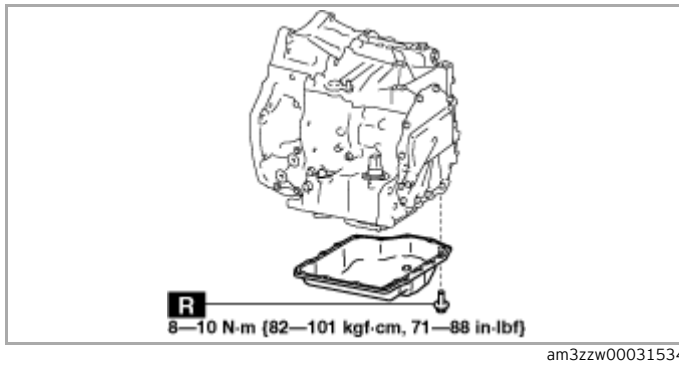
1. Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION](#).)

2. Remove the front under cover No.2. (See [FRONT UNDER COVER No.2 REMOVAL/INSTALLATION](#).)

3. Clean the transaxle exterior throughout with a steam cleaner or cleaning solvents.

- Clean any remaining silicone sealant on the contact surface of the transaxle case and oil pan, and degrease the sealant area. Otherwise, oil could leak.

15. Install the oil pan with new bolts before the applied sealant starts to harden.



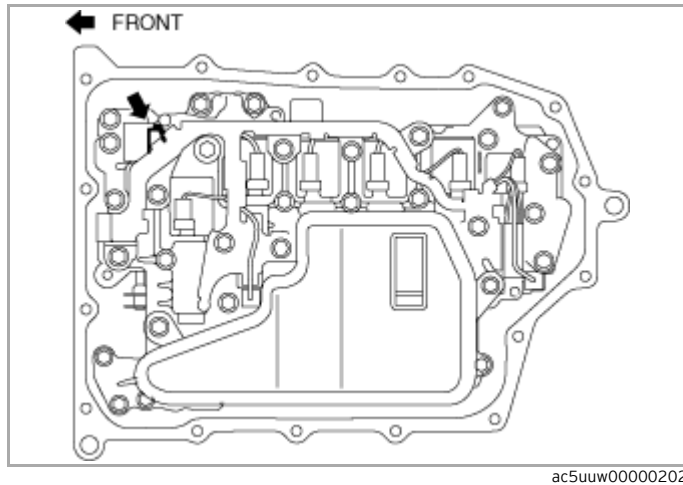
16. Add the ATF. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[FW6A-EL, FW6AX-EL\].](#))

17. Install the front under cover No.2. (See [FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.](#))

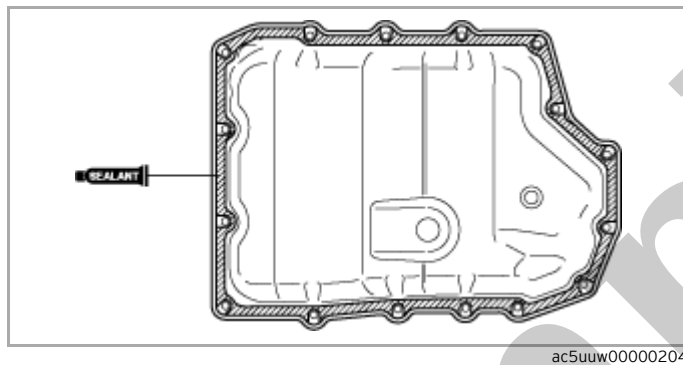
18. Connect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))

19. Perform the "Initial Learning" (Oil pressure switch B replacement). (See [INITIAL LEARNING \[FW6A-EL, FW6AX-EL\].](#))

20. Perform the "Mechanical System Test". (See [MECHANICAL SYSTEM TEST \[FW6A-EL, FW6AX-EL\].](#))



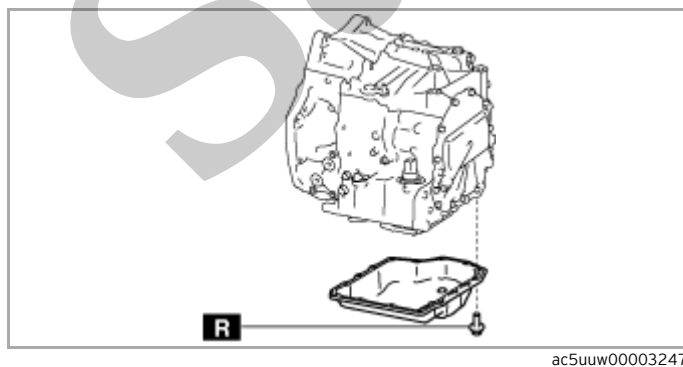
10. Apply a light coat of silicone sealant (TB1217E or equivalent) to the contact surfaces of the oil pan and transaxle case.



Caution

- Clean any remaining silicone sealant on the contact surface of the transaxle case and oil pan, and degrease the sealant area. Otherwise, oil could leak.

11. Install the oil pan with new bolts before the applied sealant starts to harden.



Tightening torque

8–10 N·m {82–101 kgf·cm, 71–88 in·lbf}

12. Add the ATF. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[FW6A-EL, FW6AX-EL\].](#))

13. Install the front under cover No.2. (See [FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.](#))

- Air cleaner case
- Air hose
- Resonance chamber

4.Remove the battery. (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).) (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITH CYLINDER DEACTIVATION\)\]](#).)

5.Remove the PCM component. (See [PCM REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).) (See [PCM REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITH CYLINDER DEACTIVATION\)\]](#).)

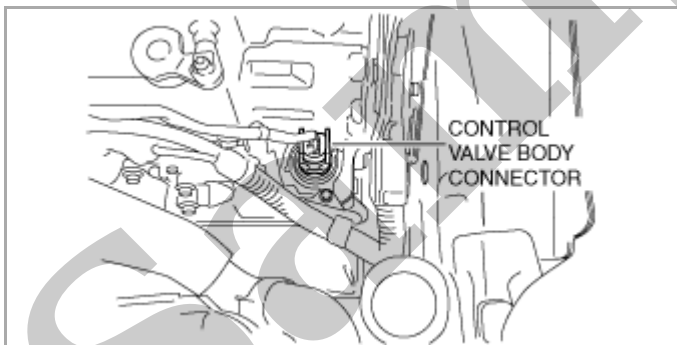
6.Remove the battery tray. (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).) (See [BATTERY REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITH CYLINDER DEACTIVATION\)\]](#).)

7.Remove the splash shield (LH). (See [SPLASH SHIELD REMOVAL/INSTALLATION](#).)

8.Disconnect the control valve body connector.

Caution

- Make sure that your hand does not touch the terminal as the connector terminal could be damaged.
- Water or foreign matter entering the connector can cause a poor connection or corrosion. Be careful not to allow water droplets or foreign matter to get on the connector when disconnecting it.



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9.Remove the wiring harness clip and bolts, and set the wiring harnesses and wiring harness brackets in a place which does not interfere with servicing.

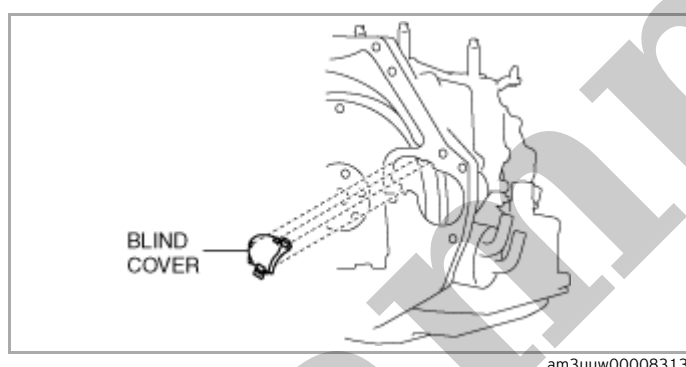
23.Remove the oil cooler and water hose component as a single unit. (Except automatic transaxle replacement) (See **OIL COOLER REMOVAL/INSTALLATION [FW6A-EL, FW6AX-EL].**)

24.Remove the water hose component. (Automatic transaxle replacement) (See **OIL COOLER REMOVAL/INSTALLATION [FW6A-EL, FW6AX-EL].**)

25.Remove the lower radiator hose component. (See **RADIATOR REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].**) (See **RADIATOR REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)].**) (See **COOLANT CONTROL VALVE REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].**) (See **COOLANT CONTROL VALVE REMOVAL/INSTALLATION [SKYACTIV-G (WITHOUT EGR COOLER)].**)

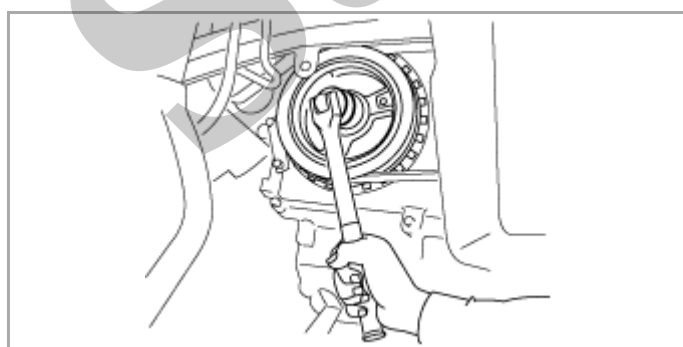
26.Remove the starter. (See **STARTER REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITHOUT CYLINDER DEACTIVATION)].**) (See **STARTER REMOVAL/INSTALLATION [SKYACTIV-G 2.5 (WITH CYLINDER DEACTIVATION)].**)

27.Remove the blind cover.



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28.Hold the crankshaft pulley to prevent drive plate from rotating.

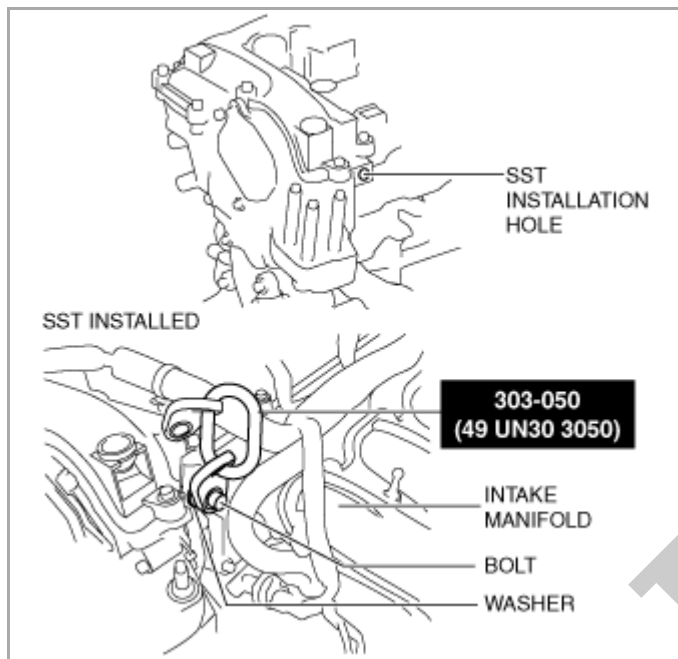


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29.Remove the torque converter nuts from the starter installation hole.

(9)Install the SST using a bolt with part number 99794 1025 or an M10-1.25, length 25 mm {0.98 in} bolt, and a washer as shown in the figure.

Engine front side

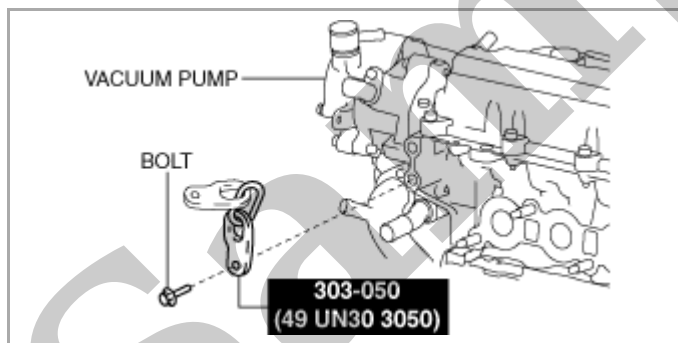


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Tightening torque

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

Engine rear side

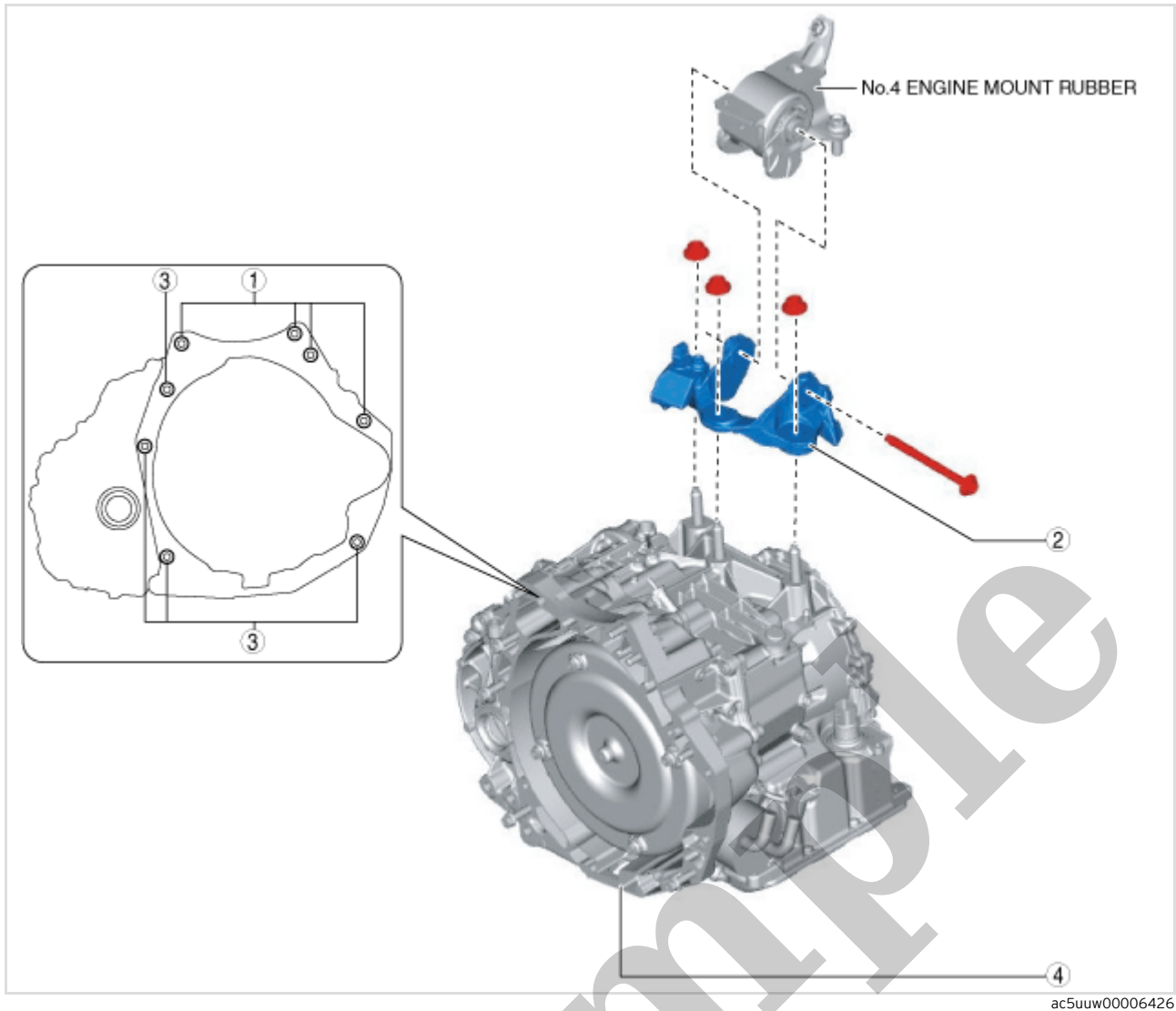


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Tightening torque

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

(10)As shown in the figure, set the rear shafts of the SST to the left and right front shock absorber nuts.



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1	Transaxle mounting bolts (upper side)
2	No.4 engine mount bracket (See No.4 engine mount bracket removal note.)
3	Transaxle mounting bolts (lower side) (See Transaxle mounting bolt removal note.)
4	Transaxle (See No.4 engine mount bracket removal note.) (See Transaxle mounting bolt removal note.)

No.4 engine mount bracket removal note

Caution

- A slot has been adopted for the No.4 engine mount bracket installation hole. If the No.4 engine mount bracket is deviated from the original position when installing the No.4 engine mount, engine noise or vibration could increase. When removing the No.4 engine mount, place alignment marks on the No.4 engine mount bracket so that they can be assembled to the same positions as before removal.

1.Place alignment marks on the locations shown in the figure so that they can be assembled to the same positions as before removal.