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2013 MAZDA 6/Atenza Sedan OEM Service and Repair Workshop Manual

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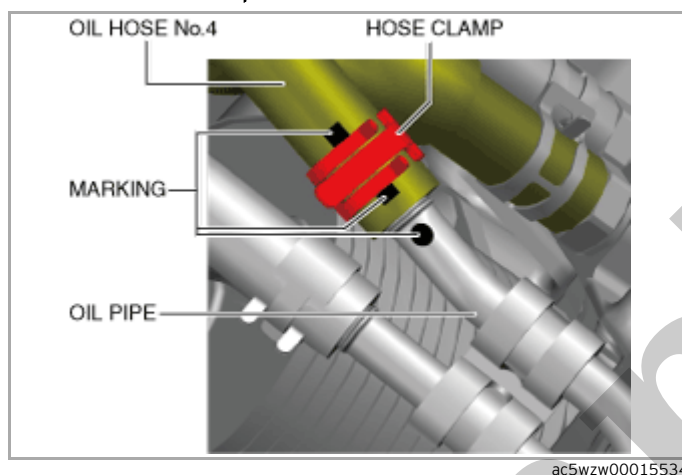
3. Verify that the hose clamp does not interfere with any other components.

Oil hose No.4 (oil pipe side) installation note

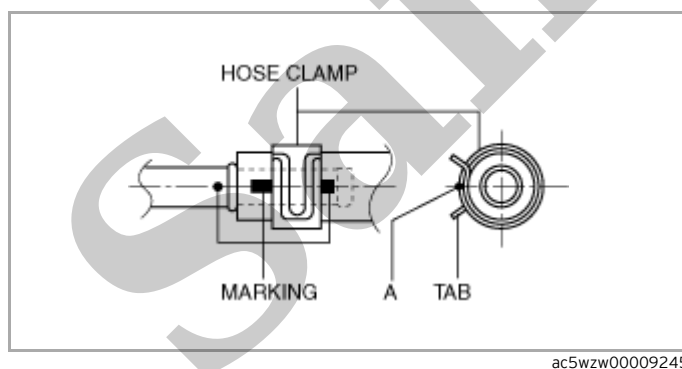
1. Install the oil hose No.4 to the oil pipe as shown in the figure with the hose clamp expanded.

Note

- A new oil hose No.4 and hose clamp are attached.



2. Install the hose clamp so that center A of the hose clamp tab is aligned with the marking as shown in the figure.



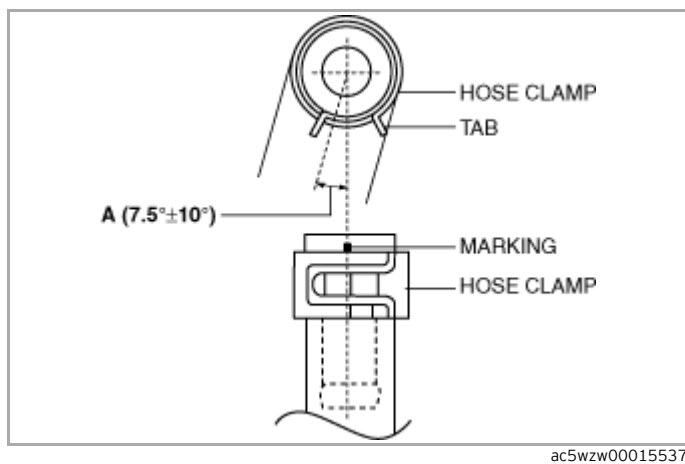
- Verify that the installation angle of the hose clamp is within the range shown in the figure.

3. Verify that the hose clamp does not interfere with any other components.

Oil hose No.4 (transaxle side) installation note

1. Install the oil hose No.4 to the connector bolt as shown in the figure with the hose clamp expanded.

Note



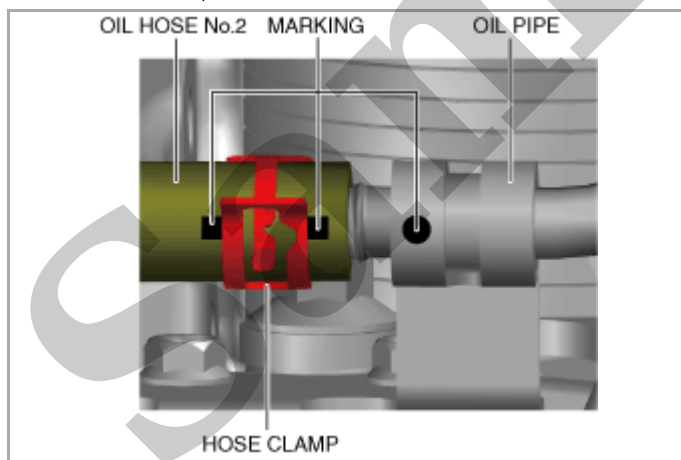
3. Verify that the hose clamp does not interfere with any other components.

Oil hose No.2 (oil pipe side) installation note

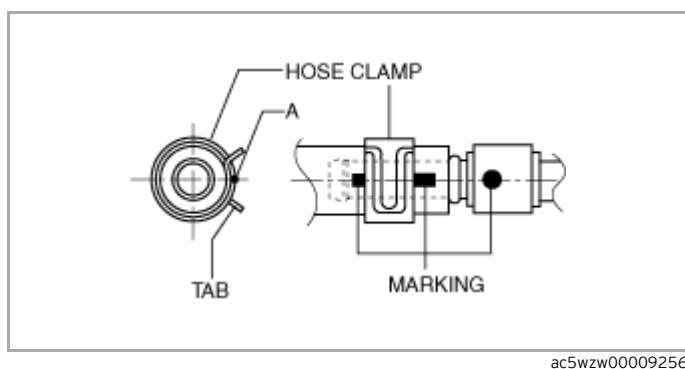
1. Install the oil hose No.2 to the oil pipe as shown in the figure with the hose clamp expanded.

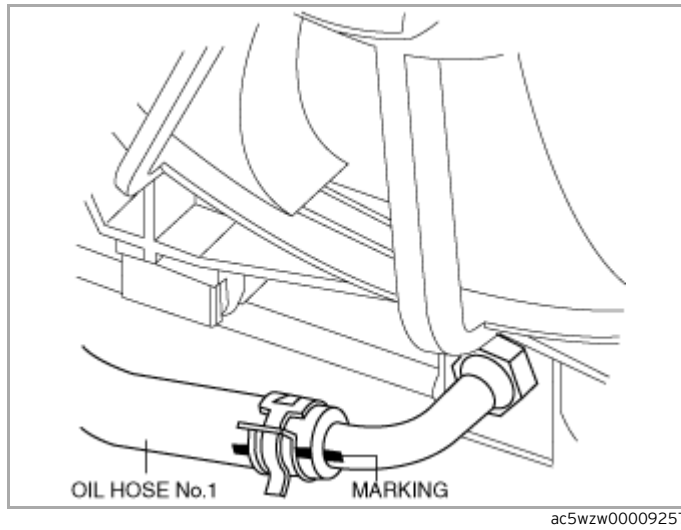
Note

- A new oil hose No.2 and hose clamp are attached.

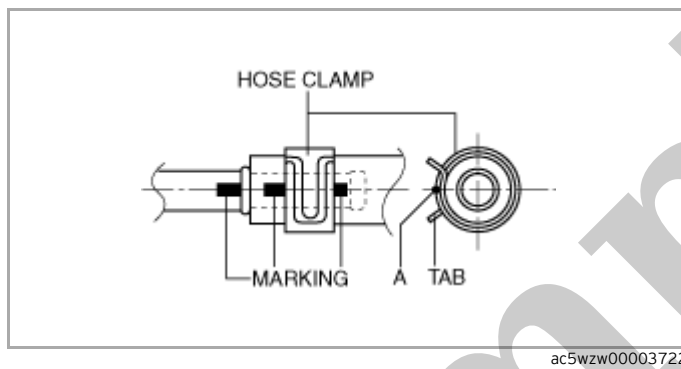


2. Install the hose clamp so that center A of the hose clamp tab is aligned with the marking as shown in the figure.





2.Install the hose clamp so that center A of the hose clamp tab is aligned with the marking as shown in the figure.



- Verify that the installation angle of the hose clamp is within the range shown in the figure.

3.Verify that the hose clamp does not interfere with any other components.

CONTROL VALVE BODY REMOVAL/INSTALLATION [FW6A-EL, FW6AX-EL]

SM2898435

id0517h211800

Replacement Part

Gasket	O-ring	Oil strainer
Quantity: 4	Quantity: 2	Quantity: 1
Location of use: Transaxle case	Location of use: Oil strainer	Location of use: Control valve body
Bolt	Hose clamp	-
Quantity: 16	Quantity: 1	
Location of use: Oil pan	Location of use: Control valve body	

Oil and Chemical Type

Sealant
Type: TB1217E or equivalent

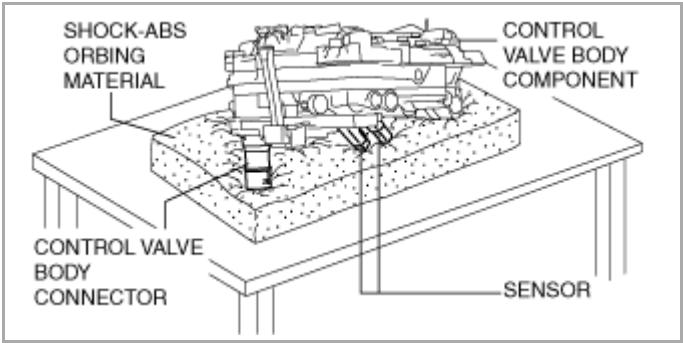
On-Vehicle Removal

Warning

- A hot transaxle and ATF can cause severe burns. Turn off the engine and wait until they are cool.
- Using compressed air can cause dirt and other particles to fly out, causing injury to the eyes. Wear protective eyeglasses whenever using compressed air.

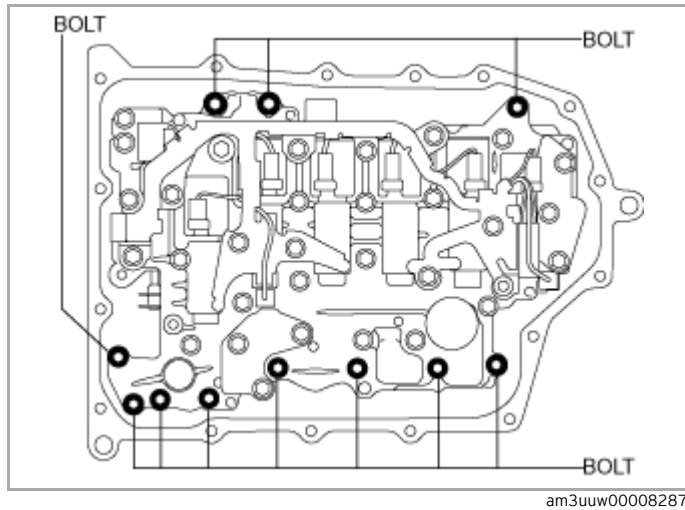
Caution

- If the control valve body has been replaced, perform TCM configuration. (See [TCM CONFIGURATION \[FW6A-EL, FW6AX-EL\]](#).)
- If the control valve body has been replaced, perform initial learning. (See [INITIAL LEARNING \[FW6A-EL, FW6AX-EL\]](#).)
- Placing the control valve body connector side pointed downward could damage the control valve body connector part or sensor. If the servicing can only be performed by pointing the control valve body connector side downward, spread shock-absorbing material, which does not produce dust or foreign matter, and place the control valve body connector part and sensor on the table so that they do not directly contact the table.



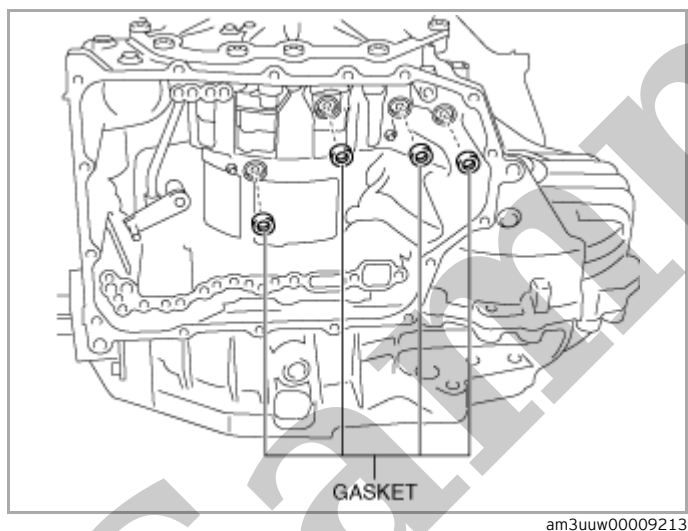
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1. Select the selector lever to P position.



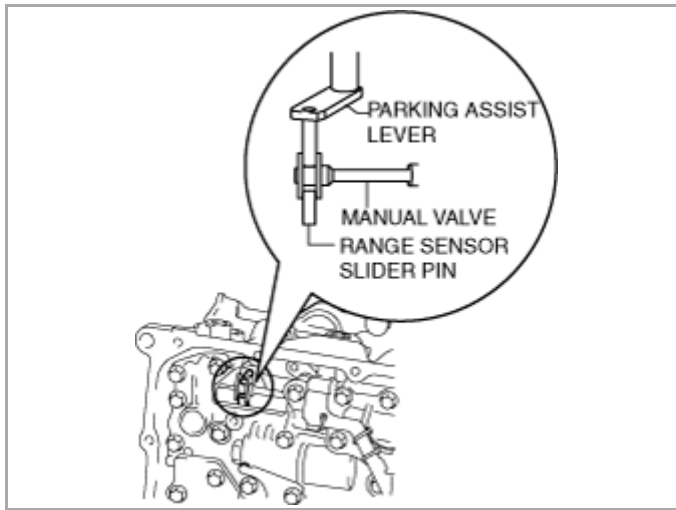
13.Remove the oil seal (control valve body). (See **OIL SEAL (CONTROL VALVE BODY) REPLACEMENT [FW6A-EL, FW6AX-EL].**)

14.Remove the gasket from the transaxle case.



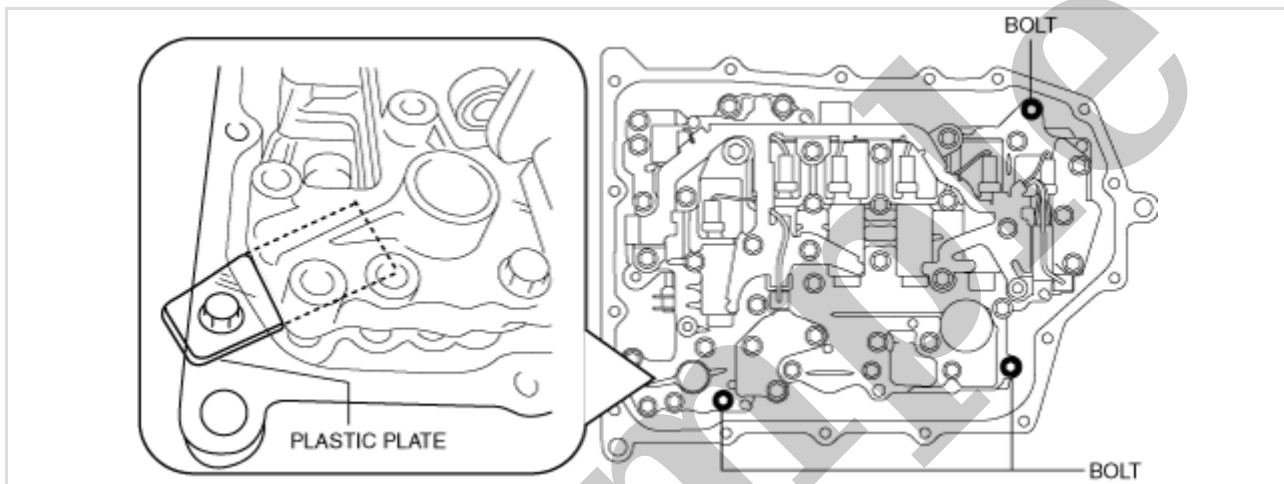
On-Vehicle Installation (With oil cooler No.2)

1.Install the gasket to the transaxle case.



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(2) Temporarily install the control valve body installation bolts at three locations so that the plastic plate installed in Step 4 can be removed.

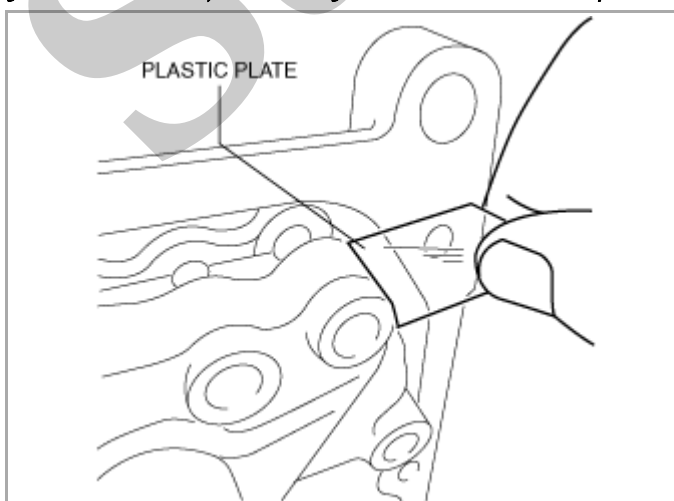


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(3) Remove the plastic plate.

Caution

- Because the control valve body may be damaged if foreign material penetrates it, carefully remove the plastic plate preventing foreign material from penetrating the control valve body.



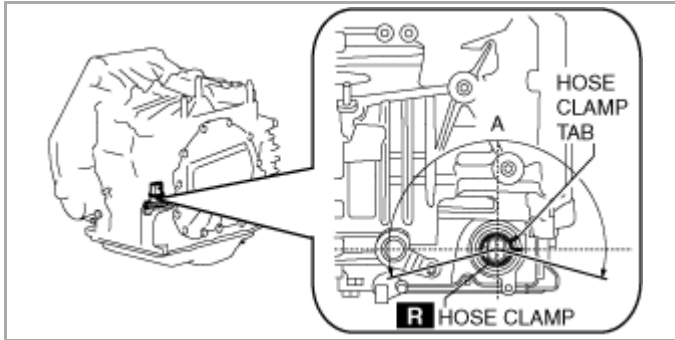
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(4) Install the control valve body.

12. Install a new hose clamp to the position shown in the figure.

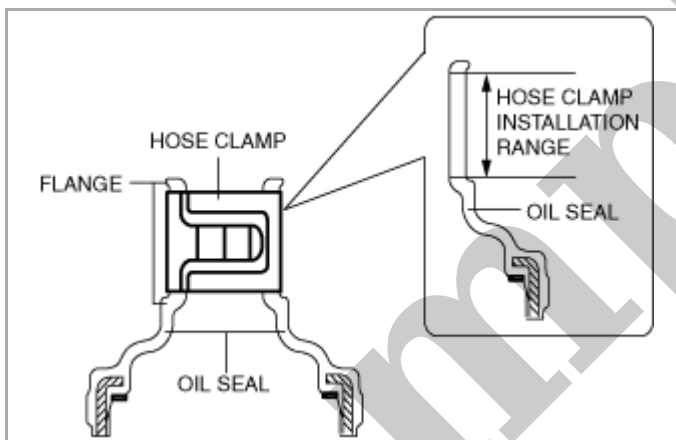
Caution

- If the hose clamp is reused it could cause ATF leakage, therefore use a new hose clamp.
- Install the hose clamp tab to within the range shown in the figure.

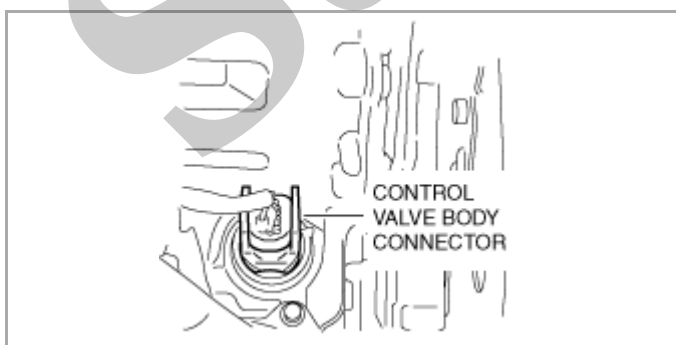


A. 210°

- Install the hose clamp so that it does not interfere with the top and bottom flanges of the oil seal to maintain the waterproofing integrity.



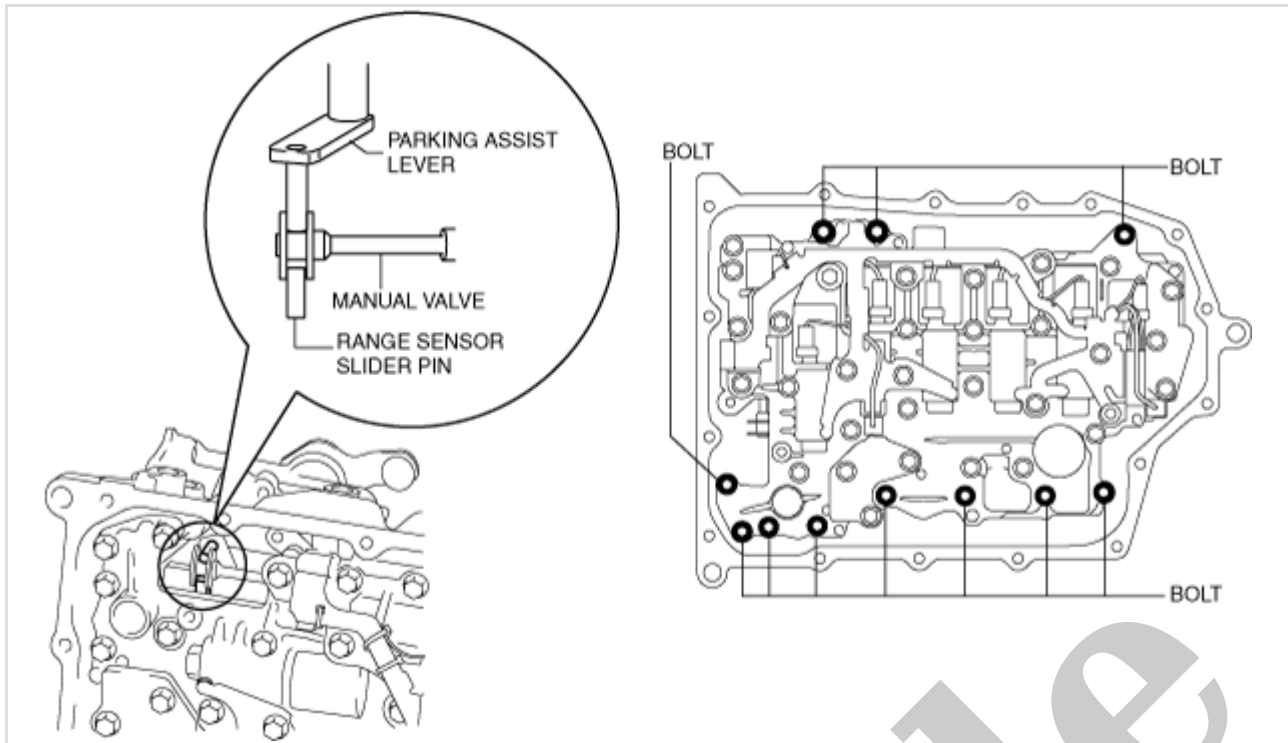
13. Connect the control valve body connector.



Caution

- Make sure that your hand does not touch the terminal as the connector terminal could be damaged.
- Verify that there is no fluid or foreign matter adhering to the connector before connecting the connector.
- Insert the connector straight as the connector terminal could be damaged.
- Rotate the connector lever until a click is heard.

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

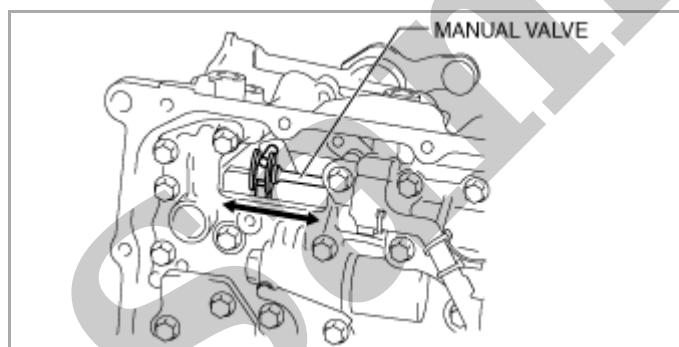


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Tightening torque

9–10 N·m {92–101 kgf·cm, 80–88 in·lbf}

4. Move the manual valve in both directions of the arrow and verify that the manual valve is correctly connected to the parking assist lever component and the slider pin for the range sensor.

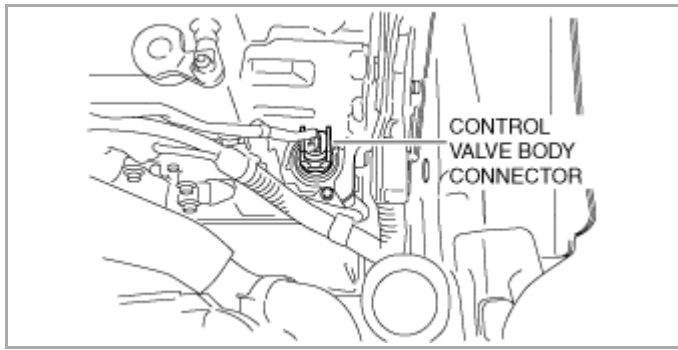


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Note

- If the manual valve only moves in the gap between the parking assist lever component surface and the manual valve surface, the manual valve and the parking assist lever component are correctly engaged.

5. Install the new oil strainer O-rings.



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Caution

- Make sure that your hand does not touch the terminal as the connector terminal could be damaged.
- Verify that there is no fluid or foreign matter adhering to the connector before connecting the connector.
- Insert the connector straight as the connector terminal could be damaged.
- Rotate the connector lever until a click is heard.

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

14. Install the following parts as a single unit. (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-G 2.5 \(WITHOUT CYLINDER DEACTIVATION\)\]](#).) (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-G \(WITHOUT EGR COOLER\)\]](#).)

- Air cleaner cover
- Air cleaner element
- Fresh-air duct
- Air cleaner case
- Air hose
- Resonance chamber

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

16. Perform the "TCM configuration" (Control valve body replacement). (See [TCM CONFIGURATION \[FW6A-EL, FW6AX-EL\]](#).)

Caution

- The transaxle does not operate normally if the TCM configuration is not performed. When the control valve body is replaced, always perform the TCM configuration to enable the transaxle to operate normally.
- When the control valve body is replaced, a U-code DTC is output. After completing the TCM configuration, clear the U-code DTC and verify that no DTCs are output.

17. Delete the U code and verify that no DTC is output. (See [ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION \[TCM \(FW6A-EL, FW6AX-EL\)\]](#).)

18. Perform the "Initial Learning" (Control valve body replacement). (See [INITIAL LEARNING \[FW6A-EL, FW6AX-EL\]](#).)

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