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2013 MAZDA Flair OEM Service and Repair Workshop Manual

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UP SWITCH REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL]

SM2898451

id0517i211220

Note

- The up switch is built into the selector lever component.

1.If the up switch is replaced, replace the selector lever component. (See [SELECTOR LEVER COMPONENT REMOVAL/INSTALLATION.](#))

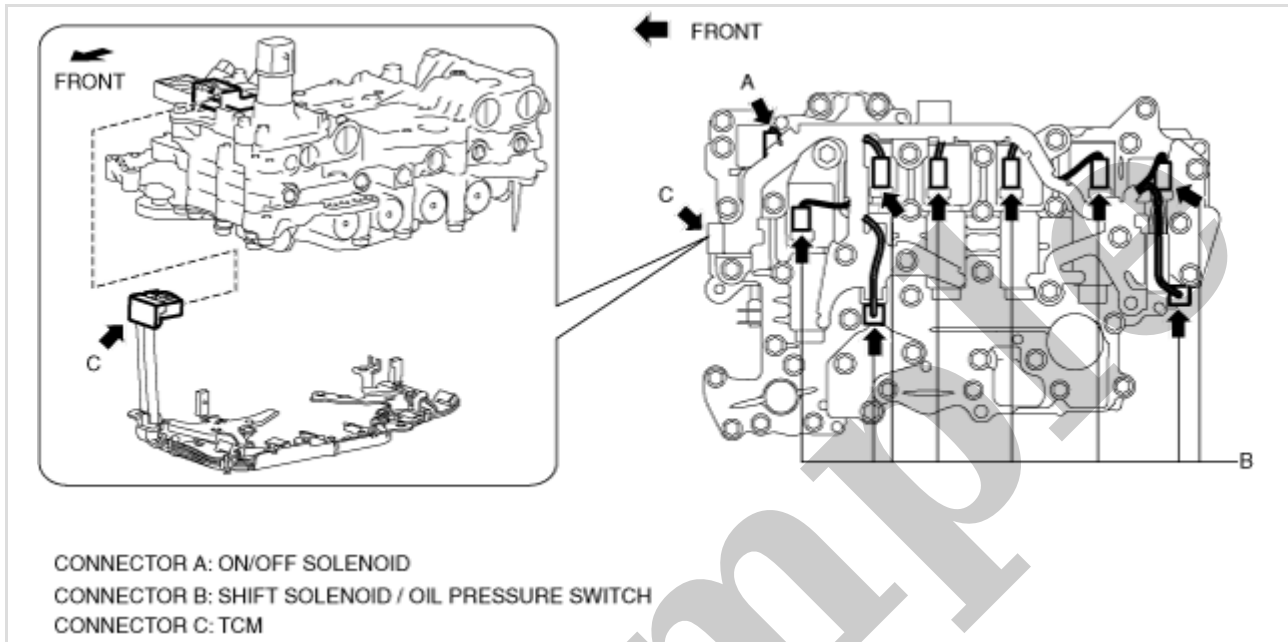
Sample

7.Remove the oil seal (control valve body). (See **OIL SEAL (CONTROL VALVE BODY) REPLACEMENT [GW6A-EL, GW6AX-EL].**)

8.Disconnect the coupler component connectors.

Caution

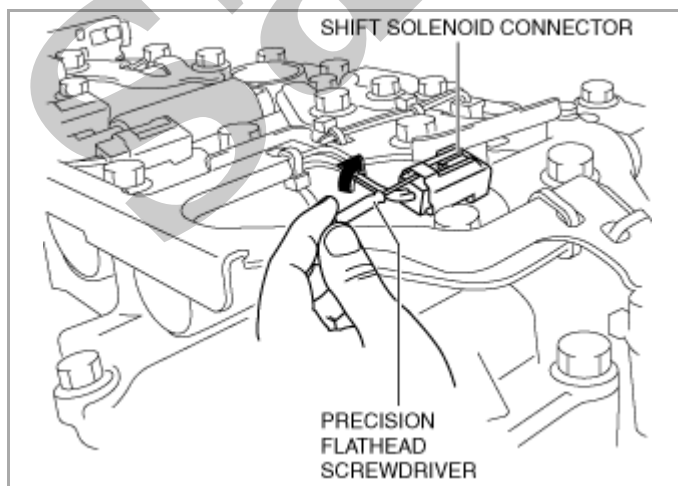
- Do not scratch the shift solenoid, shift solenoid connector, oil pressure switch, and oil pressure switch connector with the precision flathead screwdriver.
- When disconnecting connectors, grasp the connectors, not the wiring harnesses. Otherwise, the wiring harnesses may be pulled out of the connector causing poor contact.



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(1)Disconnect connector A and connector C by pressing the connector tab with your fingers.

(2)Insert a precision flathead screwdriver and move it in the direction of the arrow to disconnect connector B as shown in the figure.



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9.Remove the coupler component.

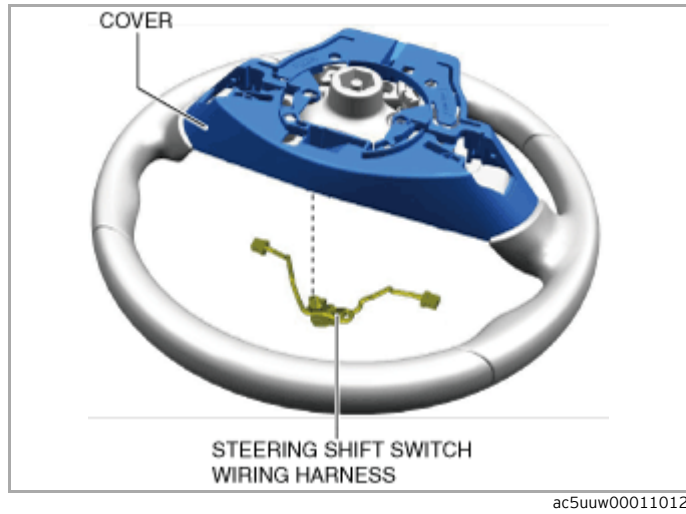
18. Install the front under cover No.2. (See [FRONT UNDER COVER No.2 REMOVAL/INSTALLATION](#).)

19. Install the following parts as a single unit. (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\]](#).) (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\]](#).)

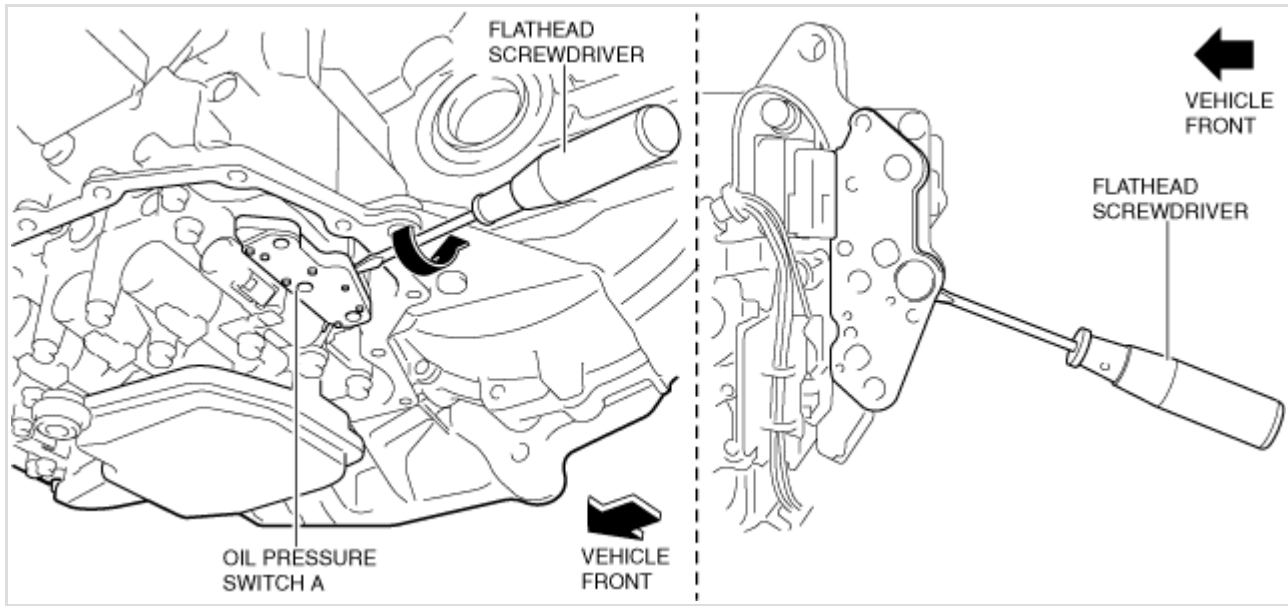
- Air cleaner cover
- Air cleaner element
- Fresh-air duct
- Air cleaner case
- Air hose

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

21. Perform the "Mechanical System Test". (See [MECHANICAL SYSTEM TEST \[GW6A-EL, GW6AX-EL\]](#).)



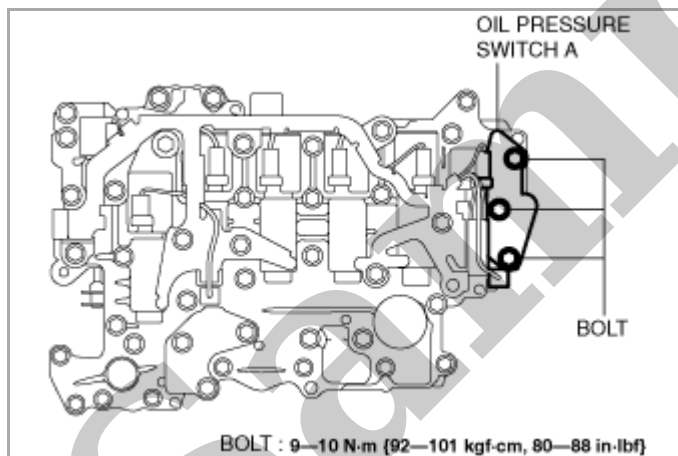
10. Install in the reverse order of removal.



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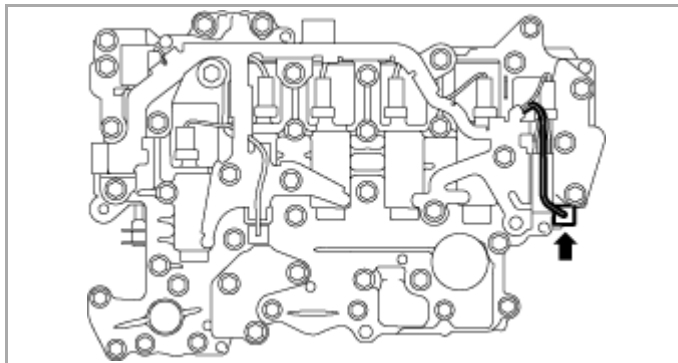
10. Install the oil pressure switch A to the control valve body.

11. Install the oil pressure switch A fitting bolts.



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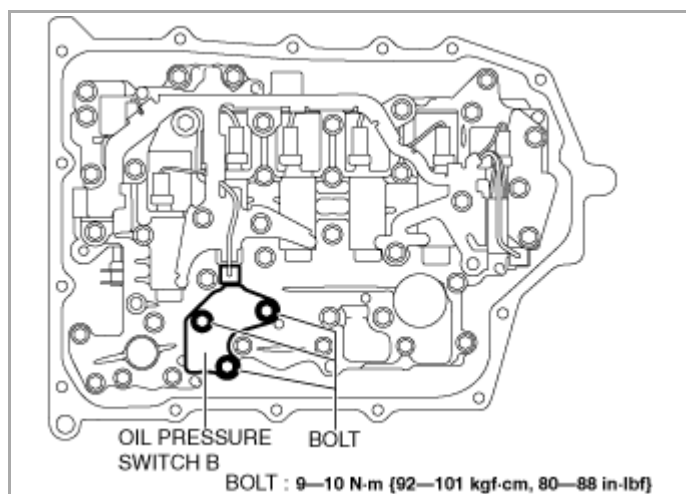
12. Connect the oil pressure switch A connector.



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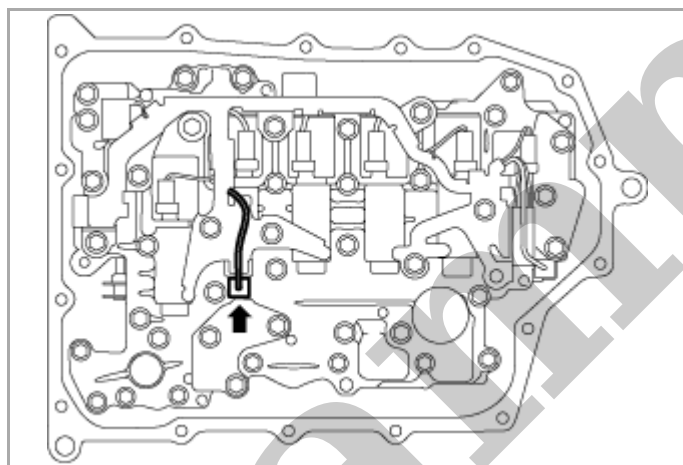
13. Apply a light coat of silicon sealant (TB1217E or equivalent) to the contact surfaces of the oil pan and transaxle case.

10. Install the oil pressure switch B.



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11. Connect the oil pressure switch B connector.

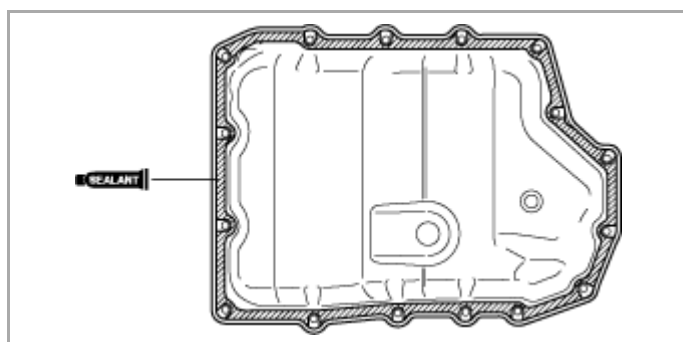


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12. Install the new oil strainer O-ring. (See [CONTROL VALVE BODY REMOVAL/INSTALLATION \[GW6A-EL, GW6AX-EL\]](#).)

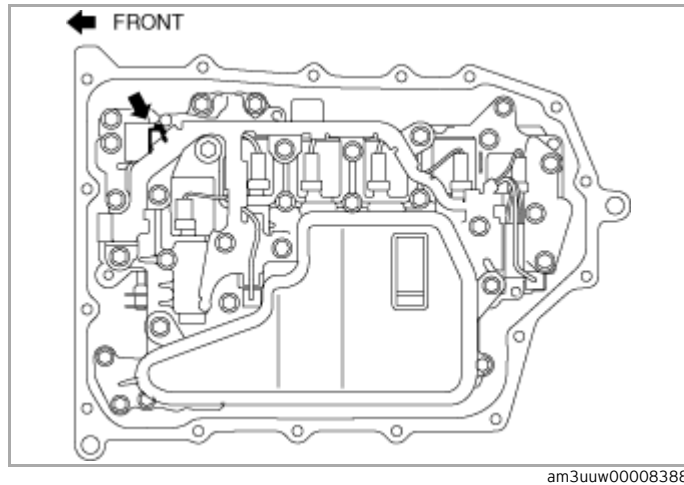
13. Install the new oil strainer. (See [CONTROL VALVE BODY REMOVAL/INSTALLATION \[GW6A-EL, GW6AX-EL\]](#).)

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

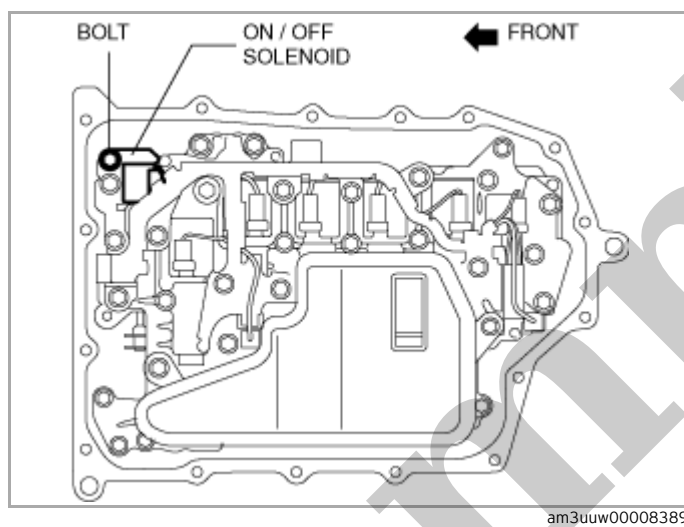


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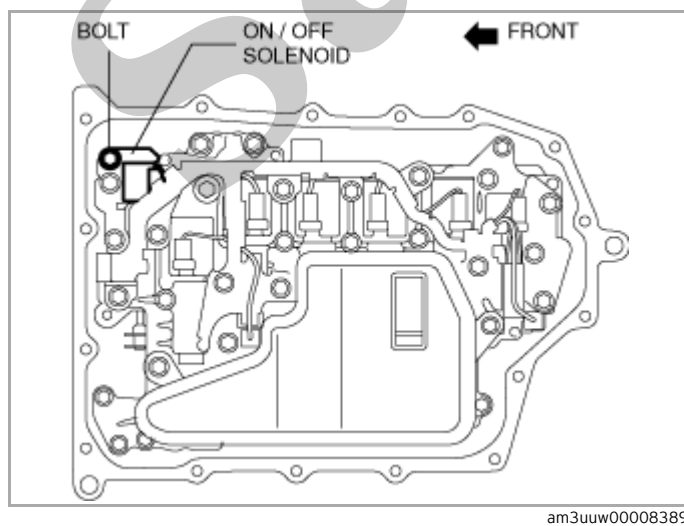
Caution



7.Remove the ON/OFF solenoid.



8.Install the ON/OFF solenoid.



Tightening torque

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

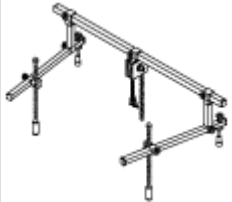
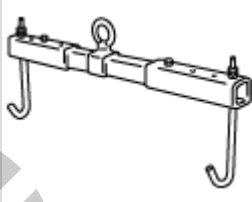
9.Connect the ON/OFF solenoid connector.

AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION [GW6A-EL (SKYACTIV-G 2.5T)]

SM2898457

id0517i21172i

Special Service Tool (SST)

1. : Mazda SST number 2. : Global SST number					
1: 49 C017 5A0 2: - Engine support set		1: 49 UN30 3050 2: 303-050 Engine lifting brackets		1: 49 L017 5A0 2: - Support hanger	

Replacement Part

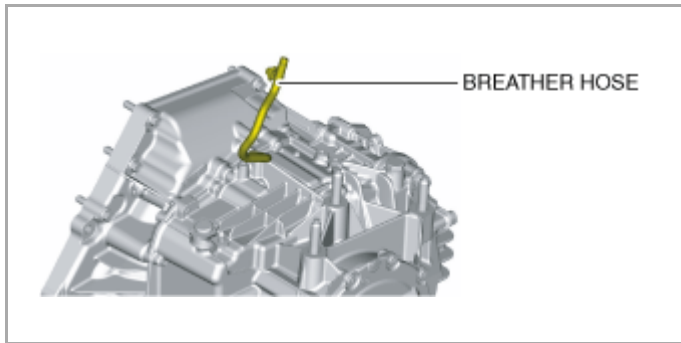
washer
Quantity: 1
Location of use: plug

Caution

- If the automatic transaxle has been replaced, perform TCM configuration. (See [TCM CONFIGURATION \[GW6A-EL, GW6AX-EL\].](#))
- If the automatic transaxle has been replaced, perform initial learning. (See [INITIAL LEARNING \[GW6A-EL, GW6AX-EL\].](#))
- Performing the following procedures could cause an open circuit in the front ABS wheel-speed sensor wiring harness if it is pulled by mistake. Before servicing, disconnect the front ABS wheel-speed sensor and set it aside so that the wiring harness will not be pulled by mistake.
- Secure the steering wheel using tape or a cable to prevent the steering shaft from rotating after disconnecting the steering shaft. If the steering wheel rotates after the steering shaft and the steering gear and linkage are disconnected, the internal parts of the clock spring could be damaged.

Removal

- 1.Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
- 2.Remove the plug hole plate. (See [PLUG HOLE PLATE REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))
- 3.Remove the following parts as a single unit. (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-G 2.5T\].](#))
 - Air cleaner cover
 - Air cleaner element
 - Fresh-air duct
 - Air cleaner case



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14. Remove the joint cover. (See [STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION](#).)

15. Disconnect the intermediate shaft from the steering gear and linkage. (See [STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION](#).)

16. Remove the front tires. (See [WHEEL AND TIRE REMOVAL/INSTALLATION](#).)

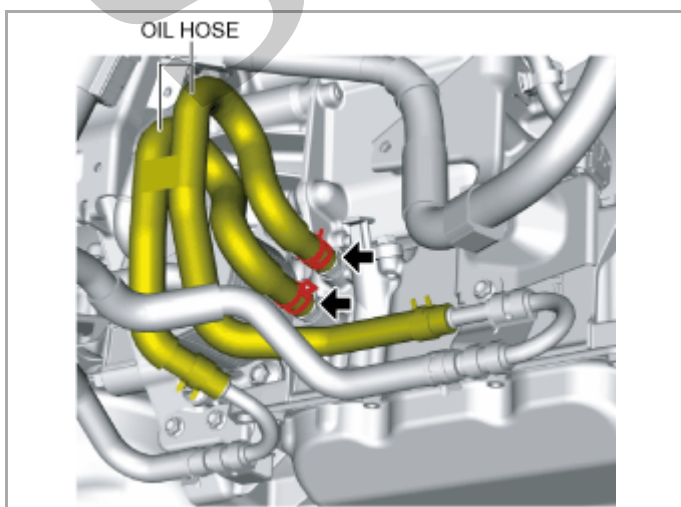
17. Remove the front under cover No.2. (See [FRONT UNDER COVER No.2 REMOVAL/INSTALLATION](#).)

18. Remove the front under cover No.1. (See [FRONT UNDER COVER No.1 REMOVAL/INSTALLATION](#).)

19. Drain the engine coolant. (See [ENGINE COOLANT REPLACEMENT \[SKYACTIV-G 2.5T\]](#).)

20. Drain the ATF. (See [AUTOMATIC TRANSAXLE FLUID \(ATF\) REPLACEMENT \[GW6A-EL, GW6AX-EL\]](#).)

21. Disconnect the oil hose from the transaxle. (With oil cooler No.2) (See [OIL COOLER REMOVAL/INSTALLATION \[GW6A-EL, GW6AX-EL \(SKYACTIV-G 2.5T\)\]](#).)



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22. Remove the bolts shown in the figure and set the oil pipe component in a place which does not interfere with the servicing. (With oil cooler No.2) (See [OIL COOLER REMOVAL/INSTALLATION \[GW6A-EL, GW6AX-EL \(SKYACTIV-G 2.5T\)\]](#).)