

5. Shift Solenoid, Duty Solenoid and Valve Body

A: REMOVAL

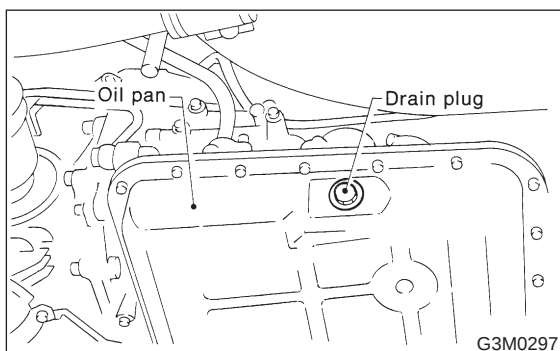
- 1) Clean transmission exterior.
- 2) Drain ATF completely.

NOTE:

Tighten ATF drain plug after draining ATF.

Tightening torque:

$25 \pm 2 \text{ N}\cdot\text{m}$ ($2.5 \pm 0.2 \text{ kg}\cdot\text{m}$, $18.1 \pm 1.4 \text{ ft}\cdot\text{lb}$)

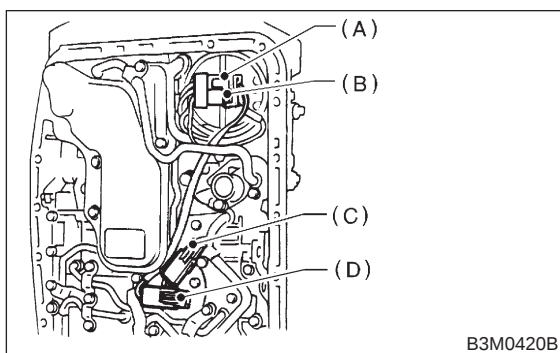


- 3) Remove oil pan.

NOTE:

Drain oil into a container.

- 4) Disconnect solenoid valve connectors.
- Remove connectors from clips and disconnect connectors at 4 places.



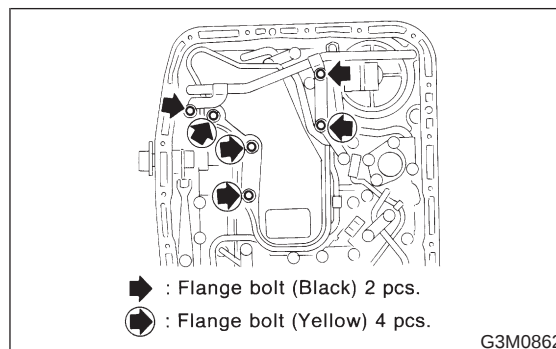
- (A) Shift solenoid 2 and duty solenoid A connector
- (B) Shift solenoid 1 and 3 connector
- (C) Duty solenoid B connector
- (D) ATF temperature sensor connector

- 5) Remove oil strainer.

Disconnect oil pipe by removing the two bolts, and remove four bolts and oil strainer.

NOTE:

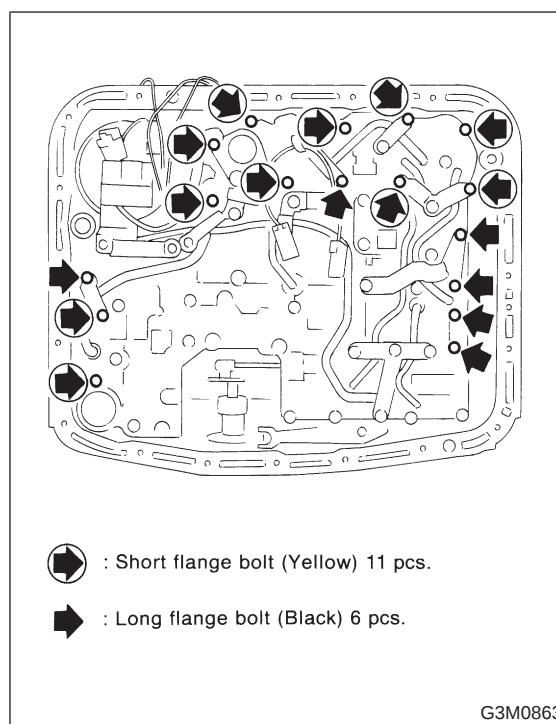
Be careful because oil flows from oil strainer.



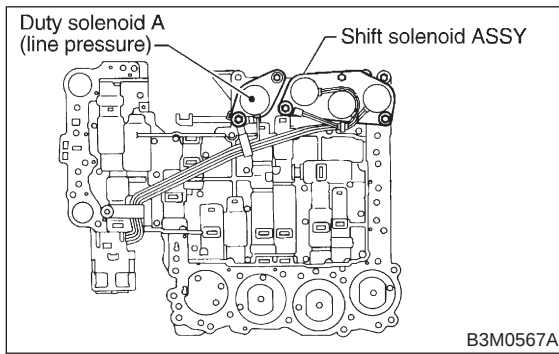
- 6) Remove control valve body and two brackets.
- Remove 6 long bolts (Black) and 11 short bolts (Yellow).

NOTE:

- Be careful because oil flows from valve body.
- Be careful not to damage accumulator spring at rear of control valve.



7) Remove shift solenoid assembly, and duty solenoid A.



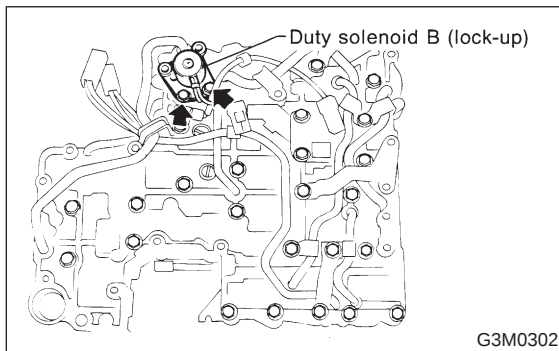
8) Remove duty solenoid B.

B: INSTALLATION

1) Install duty solenoid B (lock-up).

Tightening torque:

$11.3 \pm 1.5 \text{ N}\cdot\text{m}$ ($1.15 \pm 0.15 \text{ kg}\cdot\text{m}$, $8.3 \pm 1.1 \text{ ft}\cdot\text{lb}$)



2) Install solenoid valves.

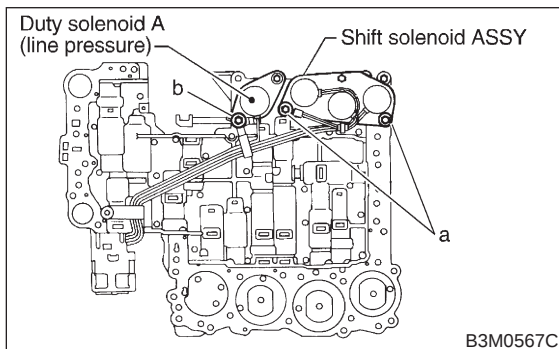
Shift solenoid assembly, and duty solenoid A (line pressure).

a length : 16 mm (0.63 in)

b length : 27 mm (1.06 in)

Tightening torque:

$8 \pm 1 \text{ N}\cdot\text{m}$ ($0.8 \pm 0.1 \text{ kg}\cdot\text{m}$, $5.8 \pm 0.7 \text{ ft}\cdot\text{lb}$)



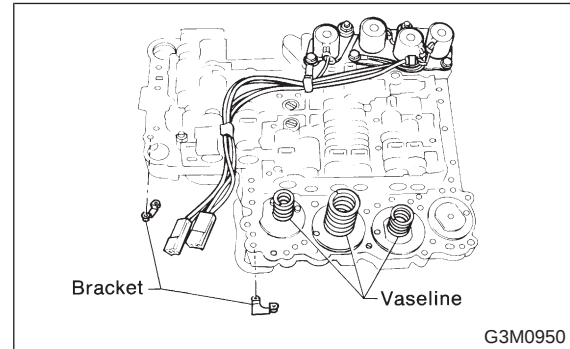
3) Install valve body and two brackets.

NOTE:

- Secure accumulator springs using vaseline.
- Align manual valve connections.

Tightening torque:

$8 \pm 1 \text{ N}\cdot\text{m}$ ($0.8 \pm 0.1 \text{ kg}\cdot\text{m}$, $5.8 \pm 0.7 \text{ ft}\cdot\text{lb}$)

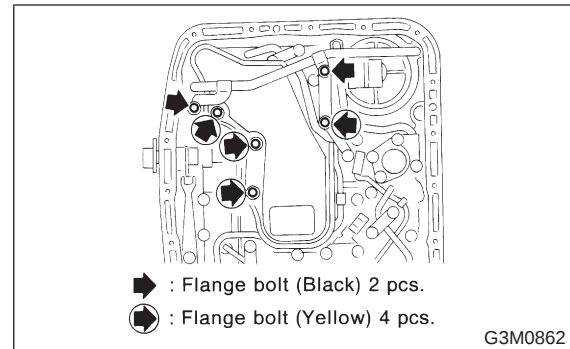


4) Install oil strainer.

Also install oil pipe and harness connector bracket.

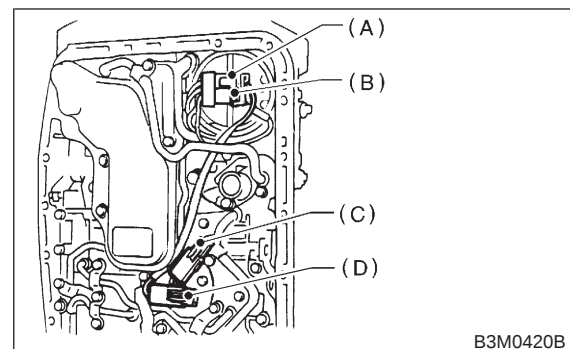
Tightening torque:

$8 \pm 1 \text{ N}\cdot\text{m}$ ($0.8 \pm 0.1 \text{ kg}\cdot\text{m}$, $5.8 \pm 0.7 \text{ ft}\cdot\text{lb}$)



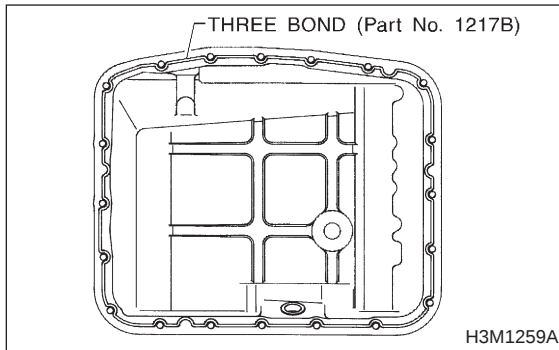
5) Connect harness connectors at 4 places.

Connect connectors of same color, and secure connectors to valve body using clips.



- (A) Shift solenoid 2 and duty solenoid A connector
- (B) Shift solenoid 1 and 3 connector
- (C) Duty solenoid B connector
- (D) ATF temperature sensor connector

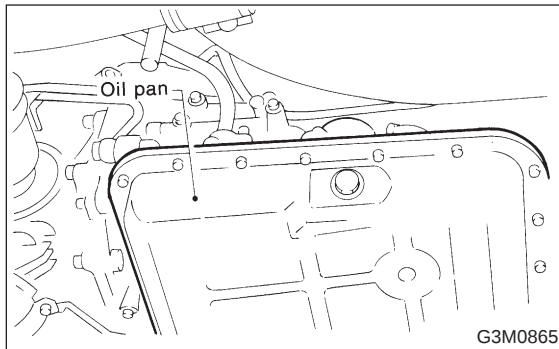
- 6) Apply proper amount of liquid gasket (THREE BOND Part No. 1217B) to the entire oil pan mating surface.



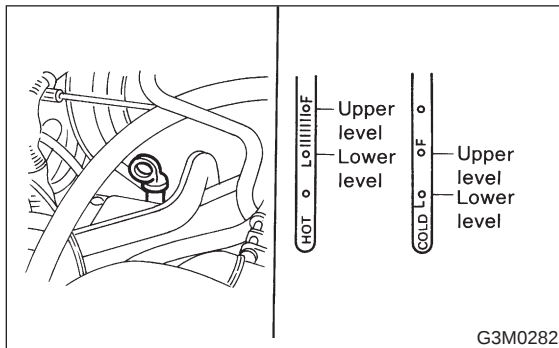
- 7) Install oil pan to transmission case.

Tightening torque:

$4.9 \pm 0.5 \text{ N}\cdot\text{m}$ ($0.50 \pm 0.05 \text{ kg}\cdot\text{m}$, $3.6 \pm 0.4 \text{ ft}\cdot\text{lb}$)



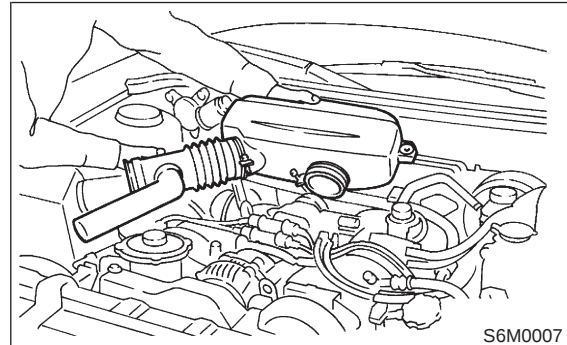
- 8) Add ATF and check level.



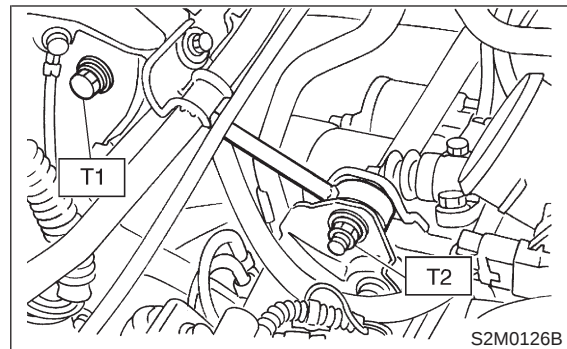
6. Duty Solenoid C and Transfer Valve Body

A: REMOVAL

- 1) Remove air intake duct and chamber.



- 2) Remove pitching stopper.



- 3) Raise vehicle and drain ATF.

