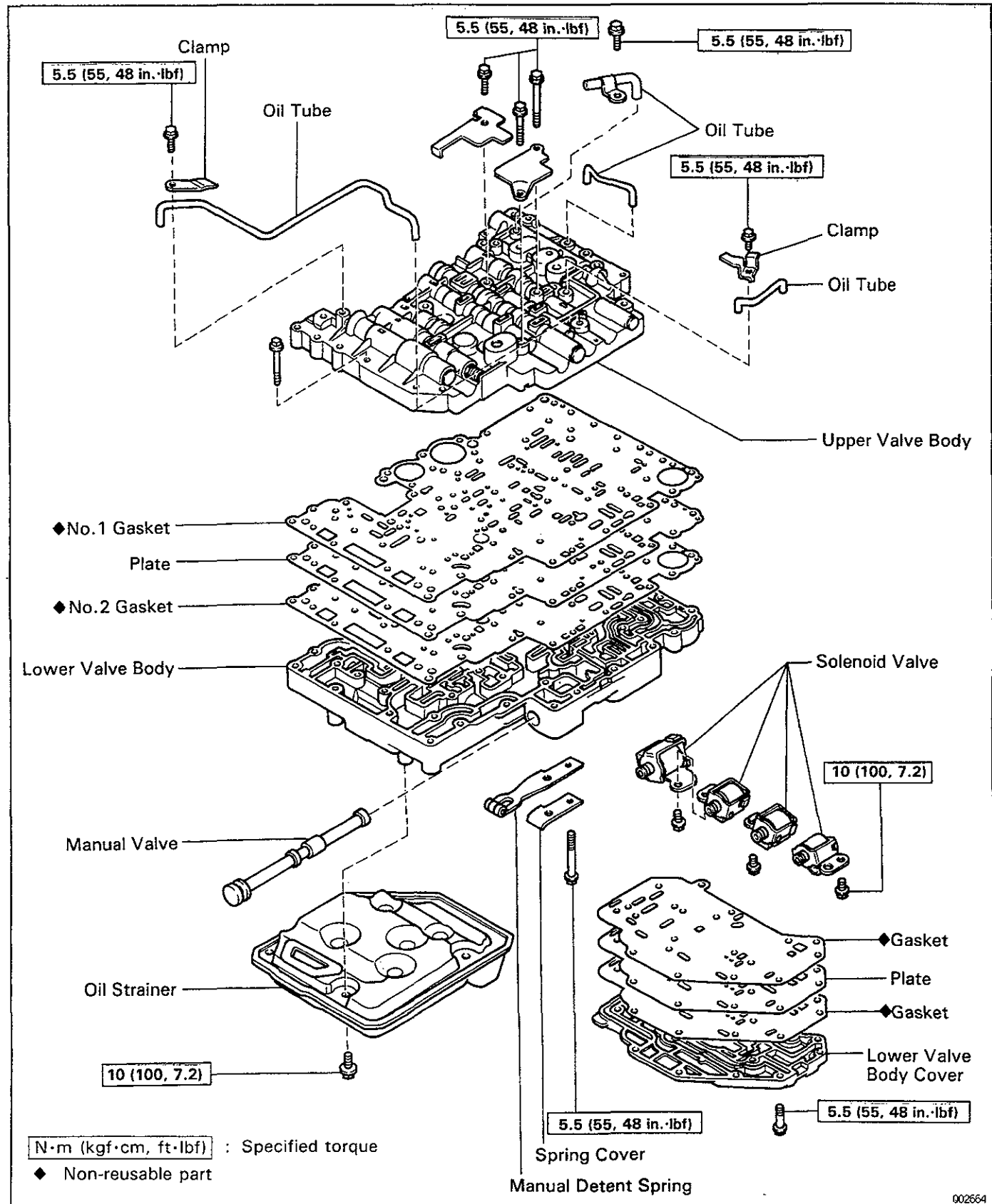


VALVE BODY COMPONENTS

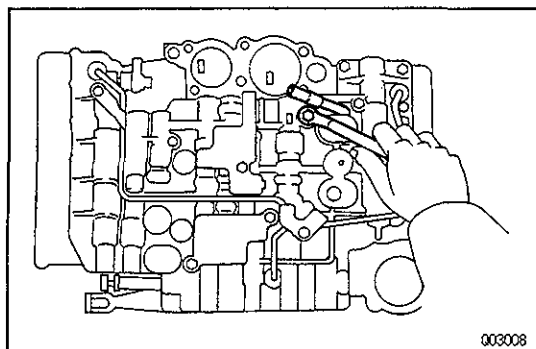
AT096-01

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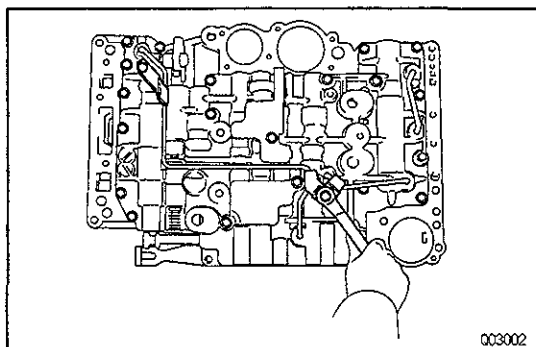
VALVE BODY DISASSEMBLY

1. REMOVE DRAIN TUBE

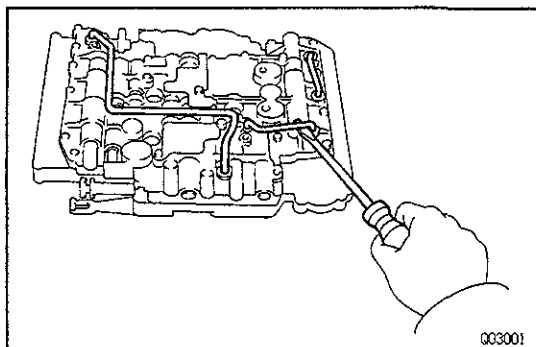


2. REMOVE OIL TUBES

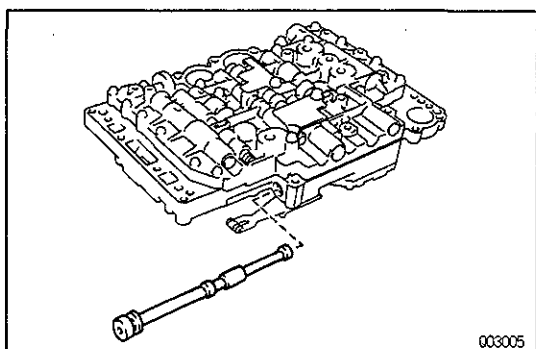
(a) Remove the two tube clamps.



(b) Using a large screwdriver, pry out the three oil tubes.



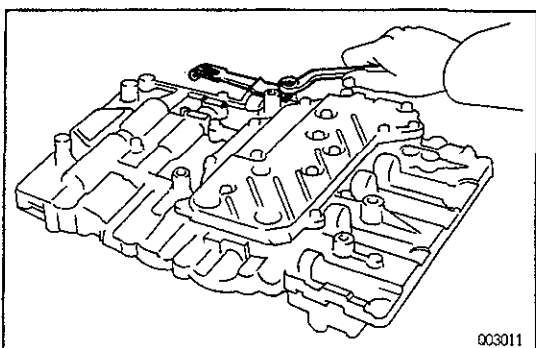
3. REMOVE MANUAL VALVE



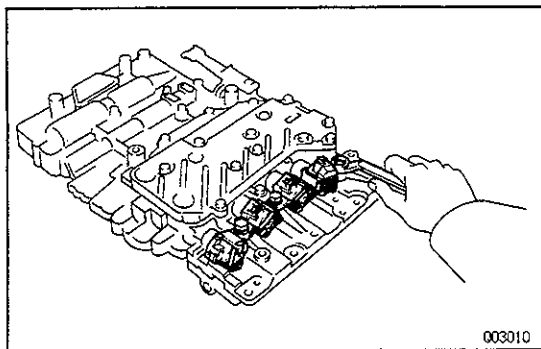
4. REMOVE MANUAL DETENT SPRING

(a) Turn over the valve body assembly.

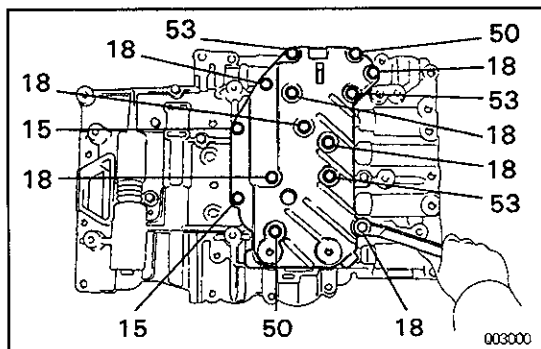
(b) Remove the bolt, wave washer, spring cover and detent spring.



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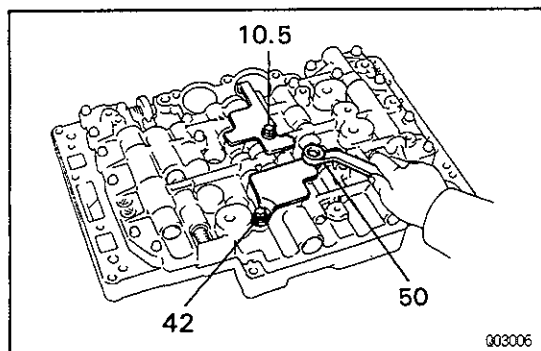


5. REMOVE FOUR SOLENOID VALVES

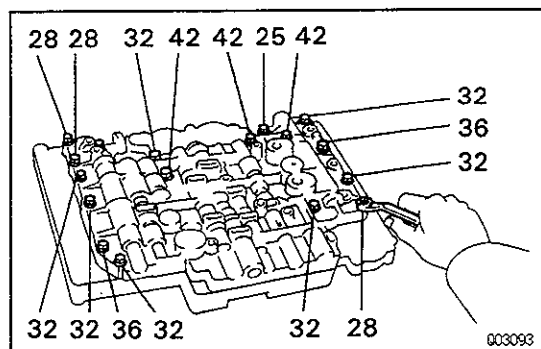


6. REMOVE LOWER VALVE BODY COVER AND PLATE

Remove the sixteen bolts, wave washers, body cover, two gaskets and body plate.

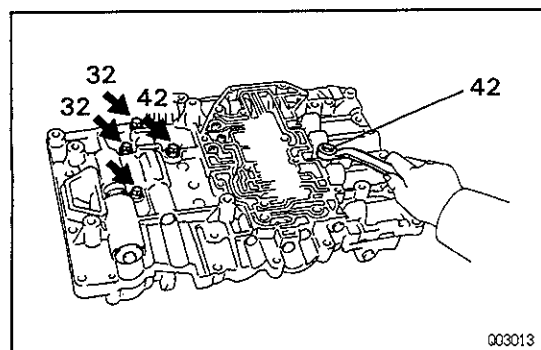


7. REMOVE TWO PLATS

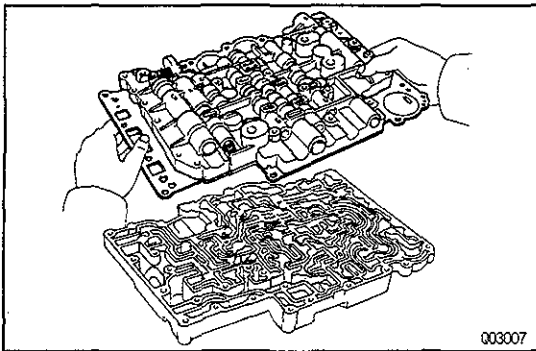


8. SEPARATE UPPER AND LOWER VALVE BODYS

(a) Remove the thirteen bolts from the upper valve body.



(b) Remove the five bolts from the lower valve body.
NOTICE: Be careful that the check balls, springs and check valves do not fall out from the lower valve body.



- (c) Remove the lower valve body together with the valve body

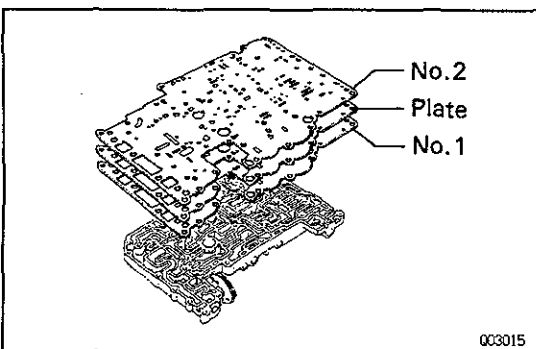
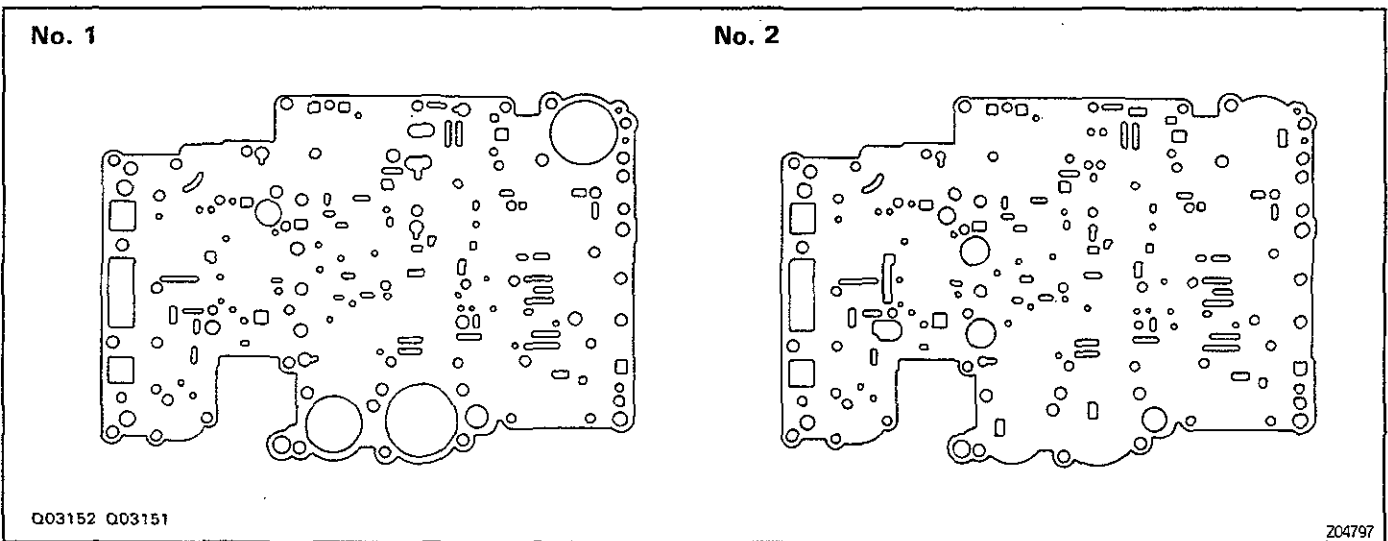
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AT009-02

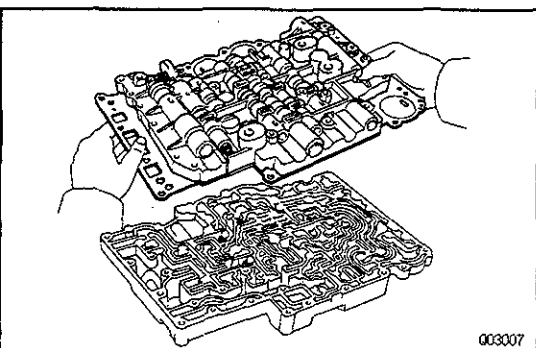
VALVE BODY ASSEMBLY

1. INSTALL VALVE BODY PLATE

HINT: Since No.1 and No.2 gaskets look similar, use the illustrations below to differentiate them.

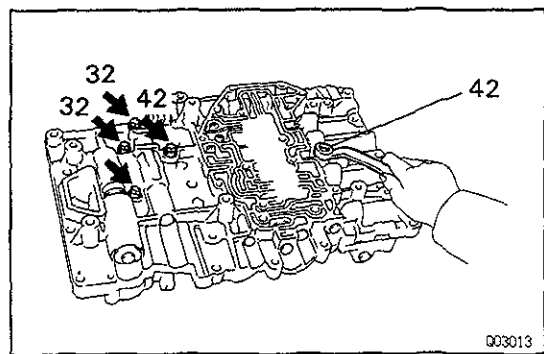


Place a new No.1 gasket, the body plate and a new No.2 gasket on the lower valve body.



2. INSTALL LOWER VALVE BODY

- (a) Turn over the valve body assembly together with the plate and two gaskets.
HINT: Be careful do not fall out the check balls, check valve and the springs.
- (b) Place the lower valve body on the upper valve body.

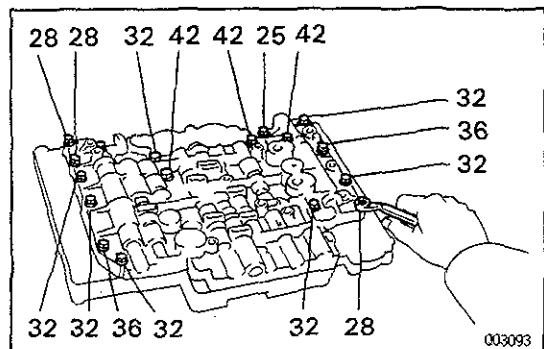


- (b) Temporarily install the five bolts.
HINT: Each bolt length mm (in.) is indicated in the figure.

Bolt length:

32 mm (1.26 in.)

42 mm (1.65 in.)



3. INSTALL UPPER VALVE BODY INSTALLATION BOLTS

- (a) Turn over the valve body assembly.
(b) Temporarily install the twenty bolts.
HINT: Each bolt length mm (in.) is indicated in the figure.

Bolt length:

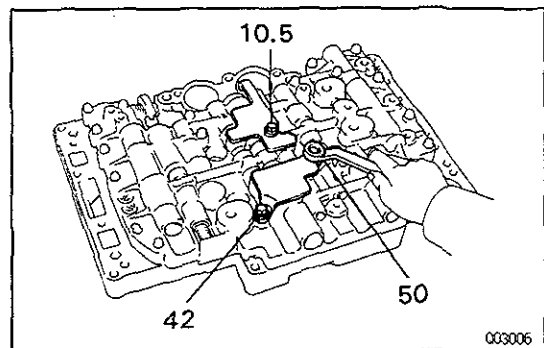
25 mm (0.98 in.)

28 mm (1.10 in.)

32 mm (1.26 in.)

36 mm (1.42 in.)

42 mm (1.65 in.)



4. INSTALL TWO PLATES

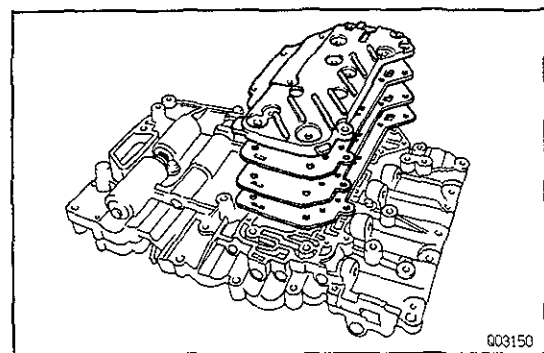
HINT: Each bolt length mm (in.) is indicated in the figure.

Bolt length:

10.5 mm (0.413 in.)

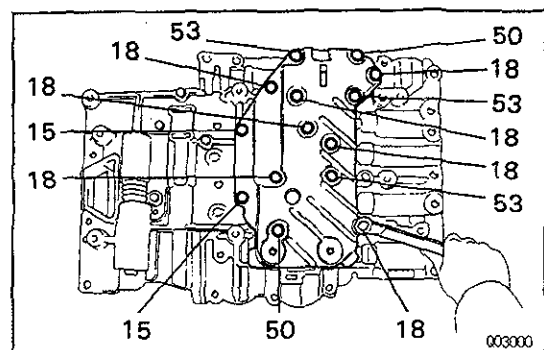
42 mm (1.657 in.)

50 mm (1.97 in.)



5. INSTALL LOWER VALVE BODY PLATE AND COVER

- (a) Place a new No.3 gasket, the body plate and a new No.4 gasket on the lower valve body.



- (b) Install the body cover with the two wave washers and fourteen bolts.

Torque: 5.4 N·m (55 kgf·cm, 48 in.-lbf)

HINT: Each bolt length mm (in.) is indicated in the figure.

Bolt length:

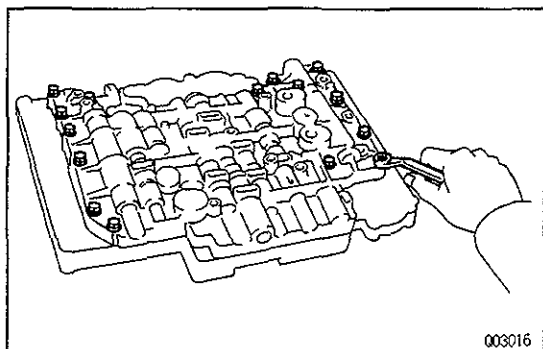
15 mm (0.59 in.)

18 mm (0.71 in.)

50 mm (1.97 in.)

53 mm (2.09 in.)

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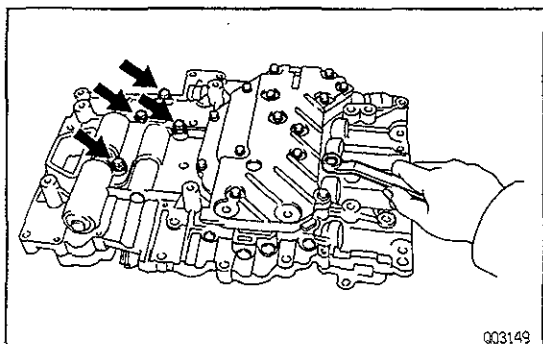


6. TIGHTEN BOLTS OF UPPER AND LOWER VALVE BODIES

(a) (Upper Side)

Tighten the seven bolts.

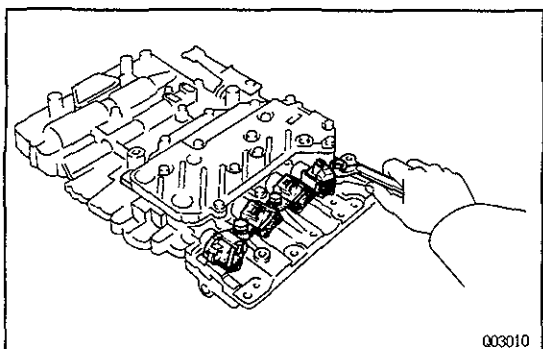
Torque: 5.4 N·m (55 kgf·cm, 48 in.-lbf)



(b) (Lower Side)

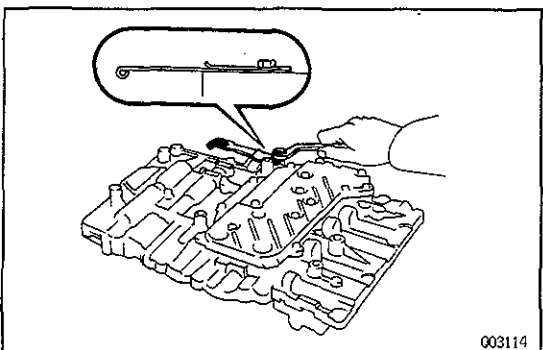
Tighten the nine bolts.

Torque: 5.4 N·m (55 kgf·cm, 48 in.-lbf)



7. INSTALL FOUR SOLENOID VALVES

Torque: 5.4 N·m (55 kgf·cm, 48 in.-lbf)

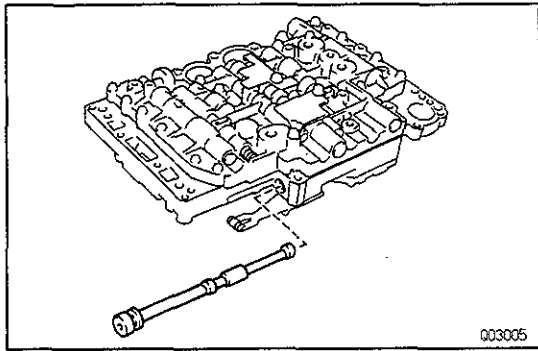


8. INSTALL MANUAL DETENT SPRING

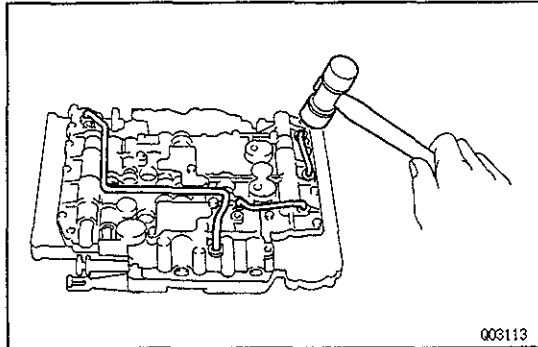
Install the detent spring and cover with the wave washer and bolt.

Torque: 5.4 N·m (55 kgf·cm, 48 in.-lbf)

HINT: Use the bolt which is 43 mm (1.69 in) in length.

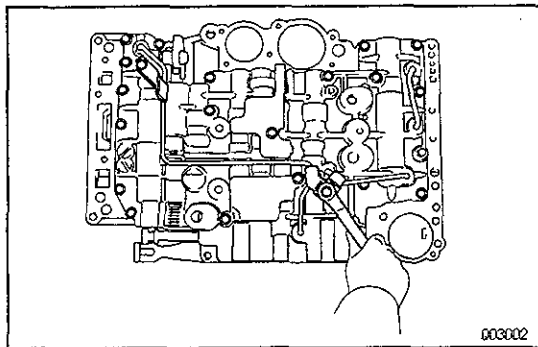


9. INSTALL MANUAL VALVE

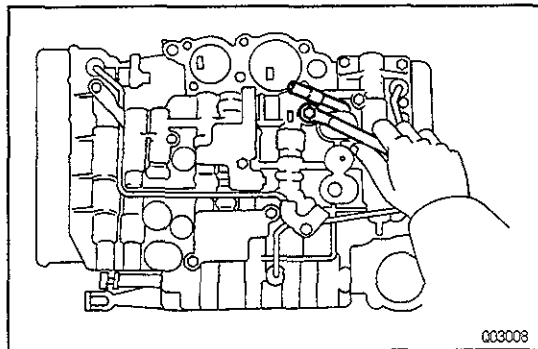


10. INSTALL OIL TUBES

- (a) Using a plastic-faced hammer, tap in the oil tubes.
NOTICE: Be careful not to bend or damage the tubes.



- (b) Install the tube clamps with the two wave washers and bolts.
HINT: Use the bolt which is 10.5 mm (0.41 in.) in length.



11. INSTALL DRAIN TUBE

Install the drain tube.

HINT: Use the bolt which is 10.5 mm (0.41 in.) in length.