

ON-VEHICLE REPAIR

Valve Body

REMOVAL OF VALVE BODY

1. MAKE PLATE TO RETAIN ACCUMULATOR PISTONS

A retainer is helpful for holding accumulator pistons in the case during removal and installation of the valve body.

The plate may be made from aluminum or plastic.

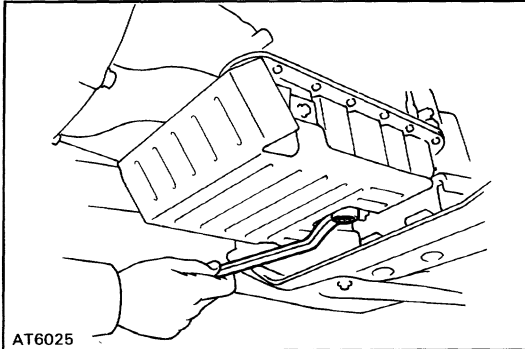
2. REMOVE TRANSMISSION AND TRANSFER UNDER COVERS

3. CLEAN TRANSMISSION EXTERIOR

To help prevent contamination, clean the exterior of the transmission.

4. DRAIN TRANSMISSION FLUID

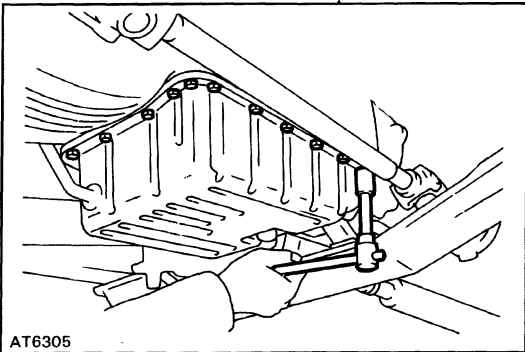
Remove the drain plug and drain fluid into a suitable container.



5. REMOVE OIL PAN AND GASKET

NOTICE: Some fluid will remain in the oil pan. Be careful not to damage the filler tube.

- (a) Remove oil pan protector.
- (b) Install the blade of SST between the transmission and oil pan, cut off applied sealer.
SST 09032-00010

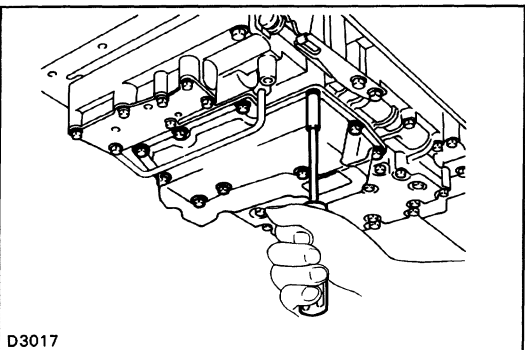


6. REMOVE OIL STRAINER AND GASKET

- (a) Remove the ten bolts and oil strainer.

NOTICE: Be careful as some oil will come out with the filter.

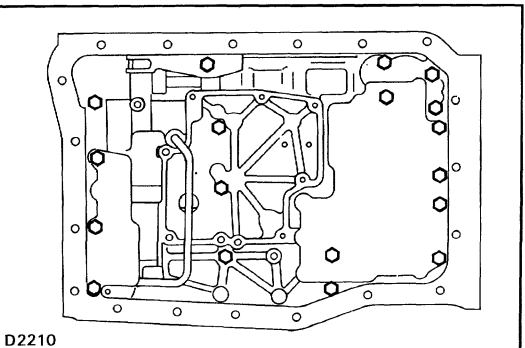
- (b) Remove the gasket.

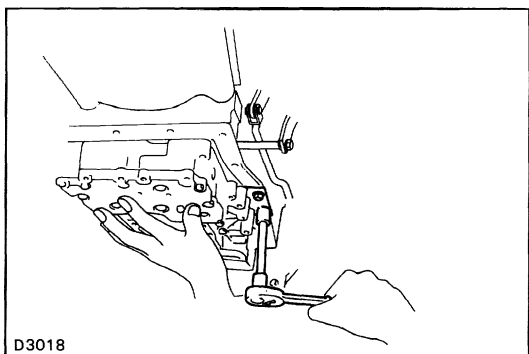


7. REMOVE VALVE BODY

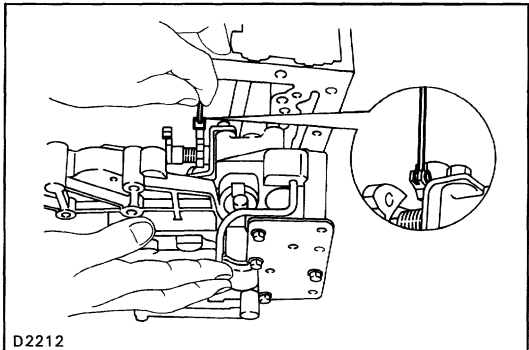
- (a) Remove the eighteen bolts.

HINT: Support the valve body by hand to prevent it from falling.

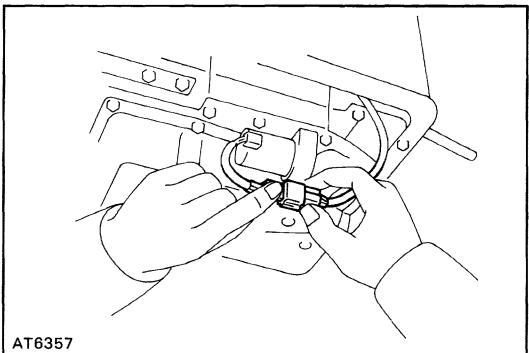




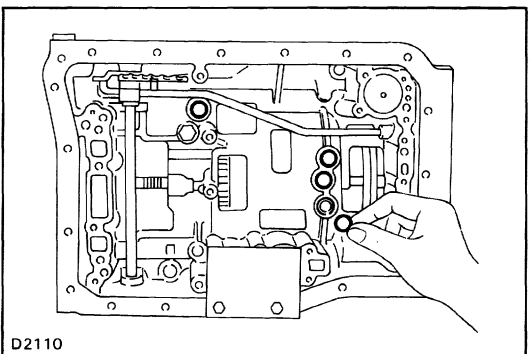
- (b) Lower valve body slightly, and install the accumulator piston retaining plate. Hold in place with two pan bolts, and hand tighten.



- (c) Disconnect the throttle cable from the cam and remove the valve body.



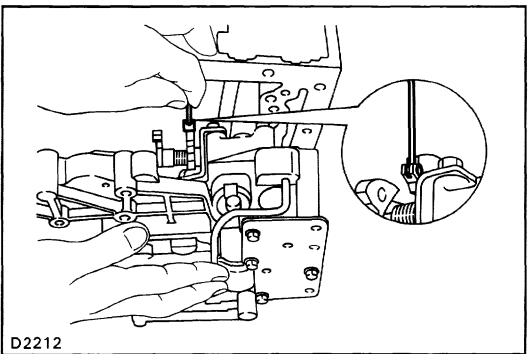
- (d) (w/ Cruise Control System)
Disconnect the solenoid wiring, throttle cable and remove the valve body.



8. REMOVE FOUR CENTER SUPPORT APPLY GASKETS INSTALLATION OF VALVE BODY

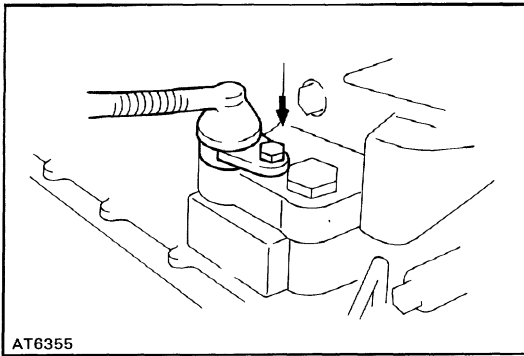
1. INSTALL FOUR CENTER SUPPORT APPLY GASKETS

Install the four center support apply gaskets, facing the pitted sides toward the transmission case.

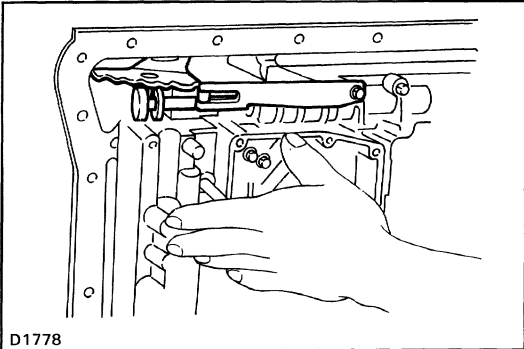


2. CONNECT THROTTLE CABLE TO CAM

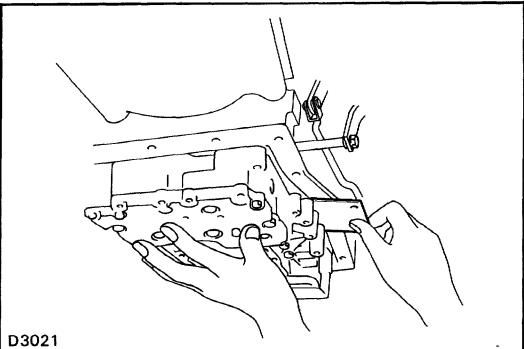
Push the cable fitting into the cam.

**(w/ Cruise Control System)**

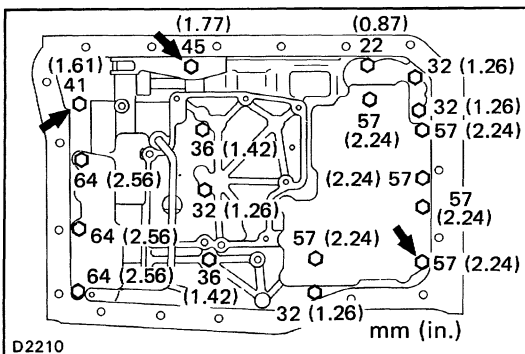
Push the cable fitting into the cam and connect the solenoid wiring connector.

**3. INSTALL VALVE BODY**

(a) Align the manual valve lever with the manual valve.



(b) Remove the two pan bolts, and slide out the accumulator retaining plate.

**4. INSTALL VALVE BODY BOLTS**

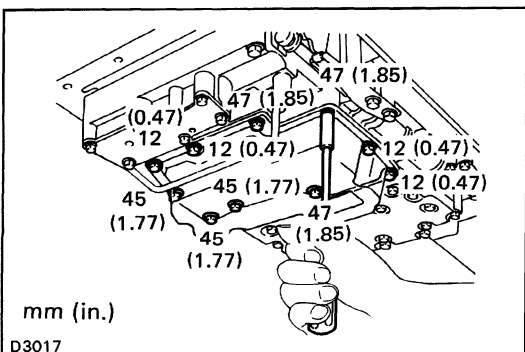
(a) Install the three bolts indicated by the arrows.

(b) Install the other bolts.

(c) Check that the manual valve lever contacts the center of the roller at the tip of the detent spring.

(d) Tighten the bolts.

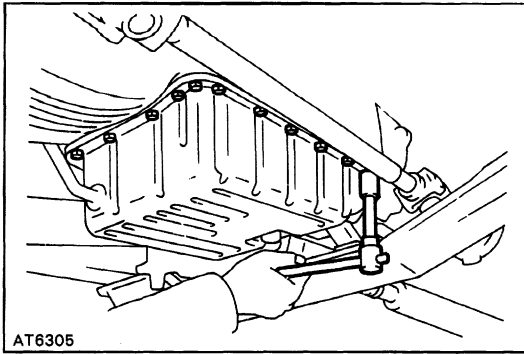
Torque: 10 N-m (100 kgf-cm, 7 ft-lbf)

**5. INSTALL OIL STRAINER**

Be sure the strainer is clean. Install a new gasket and strainer.

Torque: 5 mm bolt 5.4 N-m (55 kgf-cm, 48 in.-lbf)

6 mm bolt 10 N-m (100 kgf-cm, 7 ft-lbf)



6. INSTALL PAN WITH NEW GASKET

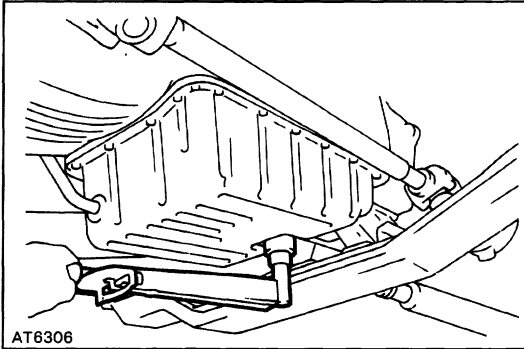
- (a) Remove any packing material and be careful not to drop oil on the contacting surface of the transmission case and oil pan.

- (b) Apply seal packing to the oil pan.

Seal packing: Part No. 08826-00090, THREE BOND 1281B or equivalent

- (c) Install and torque the twenty bolts.

Torque: 6.9 N-m (70 kgf-cm, 61 in.-lbf)



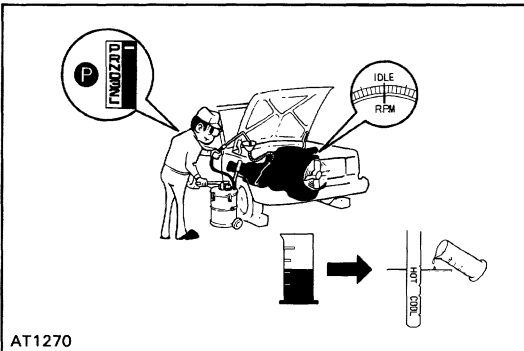
7. INSTALL DRAIN PLUG

- (a) Install the drain plug with a new gasket.

- (b) Torque the drain plug.

Torque: 27 N-m (280 kgf-cm, 20 ft-lbf)

8. INSTALL TRANSMISSION UNDER COVER AND TRANSFER UNDER COVER

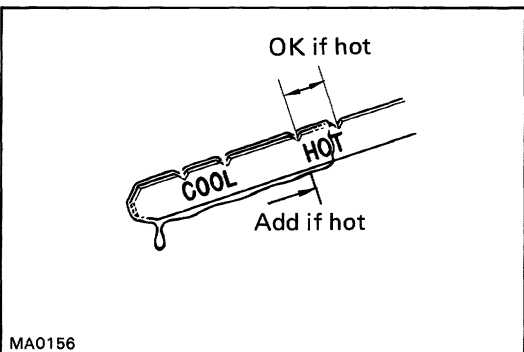


9. FILL TRANSMISSION WITH ATF

Add 6.0 liters (6.3 US qts, 5.3 Imp. qts)

NOTICE: Do not overfill.

Fluid type: ATF DEXRON® II



10. CHECK FLUID LEVEL (See page [AT-13](#))

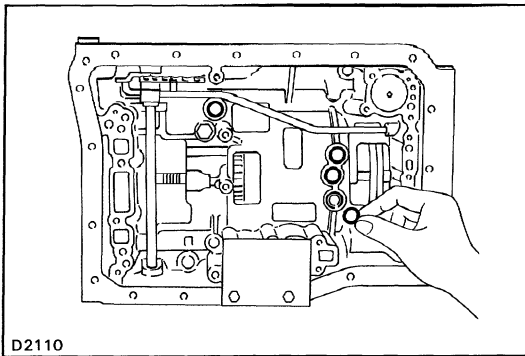
Throttle Cable

REMOVAL OF THROTTLE CABLE

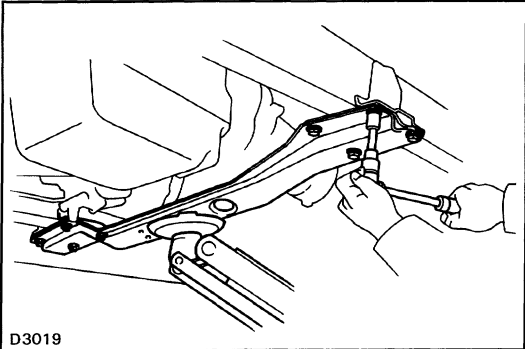
1. REMOVE FRONT PROPELLER SHAFT (See page [PR-2](#))

2. DISCONNECT THROTTLE CABLE

- (a) Disconnect the cable housing from the bracket.
- (b) Disconnect the cable from the throttle linkage.
- (c) Disconnect the cable from the torque converter housing.



3. REMOVE VALVE BODY (See page [AT-27](#))
4. REMOVE FOUR CENTER SUPPORT APPLY GASKETS

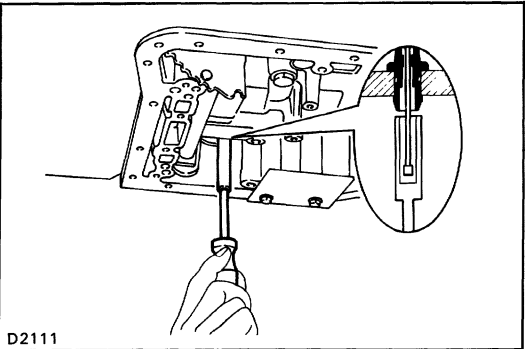


5. REMOVE FRAME CROSSMEMBER SET BOLTS

- (a) Support the frame crossmember with jack.
- (b) Remove the eight set bolts.

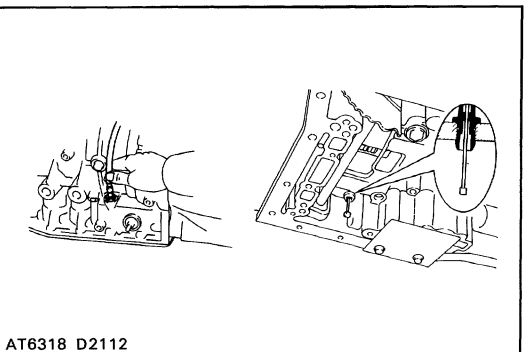
6. REMOVE THROTTLE CABLE CLAMP

- (a) Lower the jack.
- (b) Remove the cable clamp from the transmission housing.



7. PUSH THROTTLE CABLE OUT OF TRANSMISSION CASE

Using 10 mm socket, push the throttle cable out.

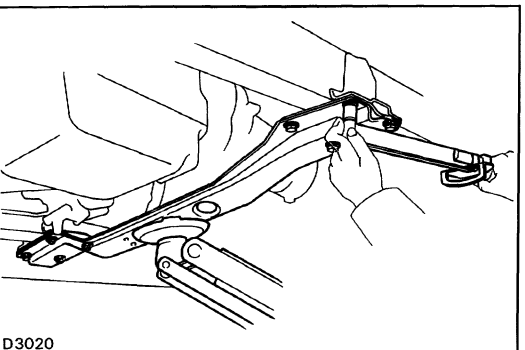


INSTALLATION OF THROTTLE CABLE

1. INSTALL CABLE IN TRANSMISSION CASE

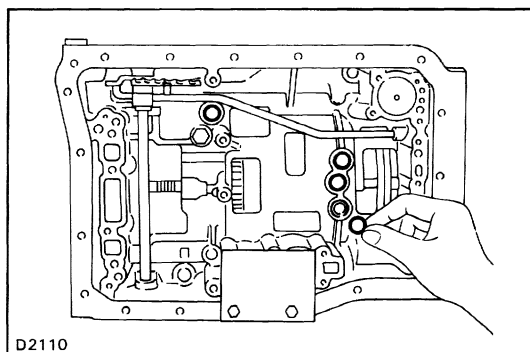
Be sure to push it in all the way.

2. INSTALL THROTTLE CABLE CLAMP TO TRANSMISSION HOUSING

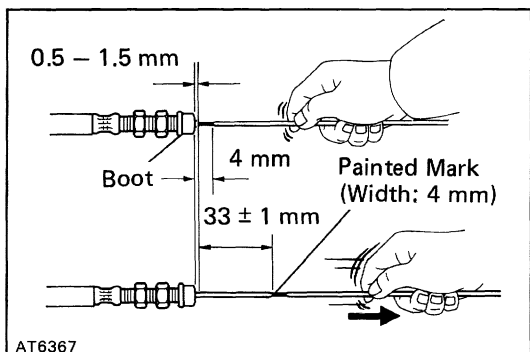


3. INSTALL FRAME CROSSMEMBER SET BOLTS

Torque: 61 N-m (620 kgf-cm, 45 ft-lbf)



4. INSTALL FOUR CENTER SUPPORT APPLY GASKETS
5. INSTALL VALVE BODY (See page [AT-28](#))
6. INSTALL FRONT PROPELLER SHAFT (See page [PR-2](#))



7. IF THROTTLE CABLE IS NEW, PAINT MARK ON INNER CABLE

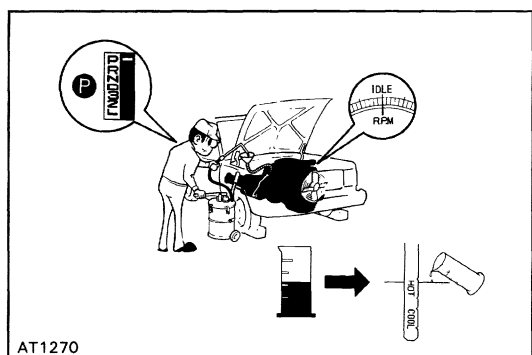
HINT: New cables do not have a cable stopper installed. Therefore to mark adjustment possible, paint a mark as described below.

- (a) Connect the throttle cable to the throttle cam of valve body.
- (b) Pull the inner cable lightly until resistance is felt, and hold it.
- (c) Paint a mark as shown, about 4 mm (0.16 in.) in width.
- (d) Pull the inner cable fully, measure the cable stroke.
Cable stroke: 33 ± 1 mm (1.30 ± 0.04 in.)

8. CONNECT THROTTLE CABLE

- (a) Connect the cable to the throttle linkage.
- (b) Connect the cable housing to the bracket on the valve cover.

9. ADJUST THROTTLE CABLE (See page [AT-14](#))



10. FILL TRANSMISSION WITH ATF

Add 6 liters (6.3 US qts, 5.3 Imp. qts)

NOTICE: Do not overfill.

Fluid type: ATF DEXRON® II

11. CHECK FLUID LEVEL (See page [AT-13](#))

