

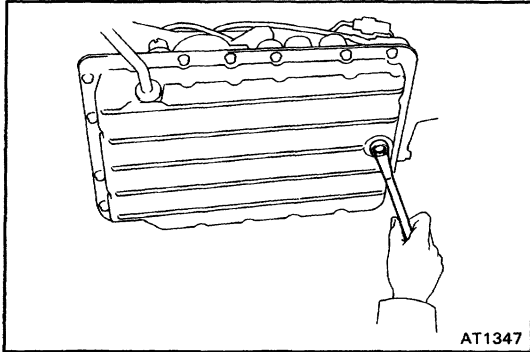
ON-VEHICLE REPAIR

Valve Body

REMOVAL OF VALVE BODY AND/OR SOLENOID VALVE

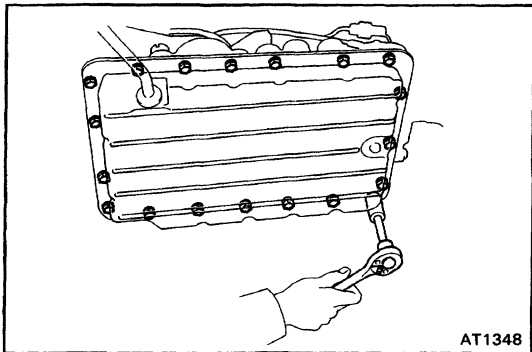
1. RAISE VEHICLE AND CLEAN TRANSMISSION EXTERIOR

To prevent contamination, clean the exterior of the transmission.



2. DRAIN TRANSMISSION

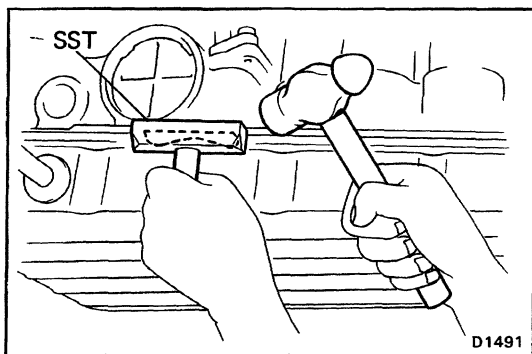
Remove the drain plug and drain fluid into a suitable container.



3. REMOVE OIL PAN

NOTICE: Some fluid will remain in the oil pan.

(a) Remove the nineteen bolts.



(b) Insert the blade of SST between the transmission case and oil pan, cut off applied sealer and then remove the oil pan.

SST 09032-00 100

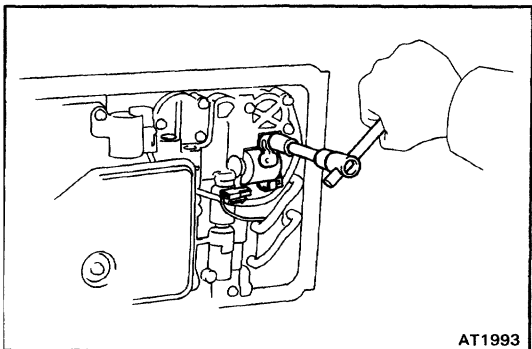
NOTICE: When removing the oil pan, be careful not to damage the oil pan flange.

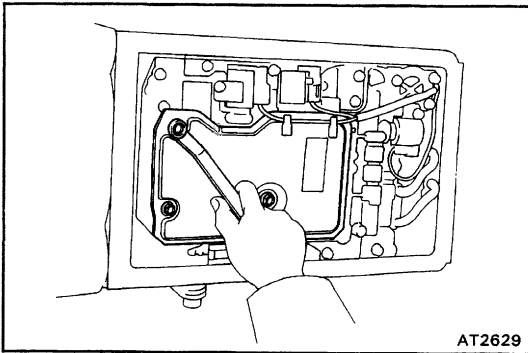
4. WHEN REPLACING SOLENOID

(a) Disconnect the connector from the solenoid.

(b) Remove the solenoid mounting bolt.

(c) Remove the solenoid.



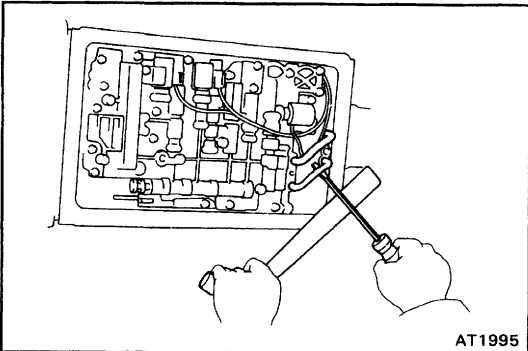


AT2629

5. REMOVE OIL STRAINER

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

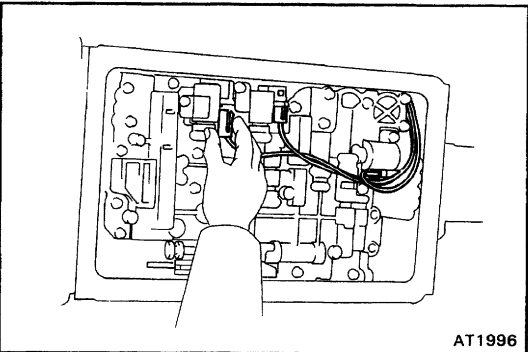
Remove the three bolts, oil strainer and gasket.



AT1995

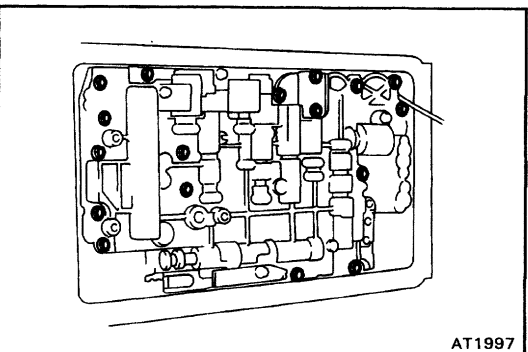
6. REMOVE OIL TUBES

Pry up both tube ends with a large screwdriver and remove the two tubes.



AT1996

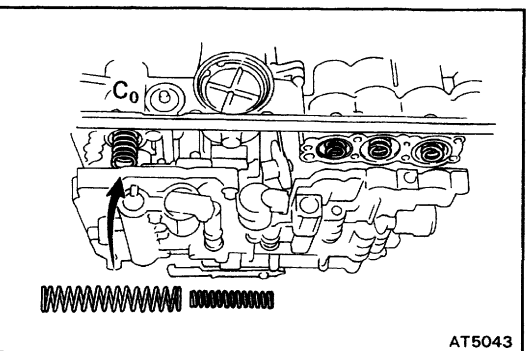
7. DISCONNECT CONNECTORS FROM EACH SOLENOID



AT1997

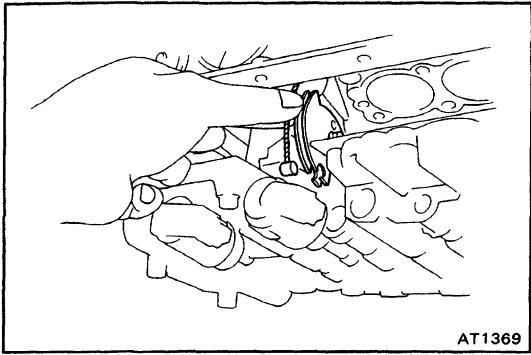
8. REMOVE VALVE BODY

(a) Remove the seventeen bolts.

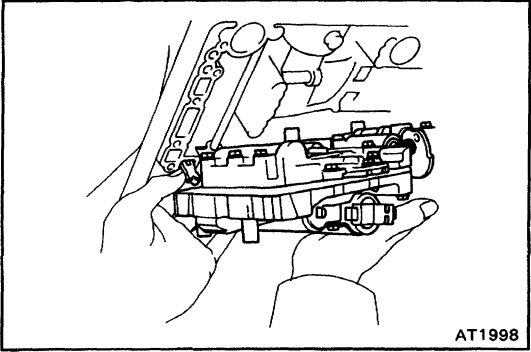


AT5043

(b) Remove the two C₀ accumulator piston springs.



- (c) Disconnect the throttle cable from the cam.
 - (d) Remove the valve body.
- HINT: Be careful not to drop the check ball body and spring.

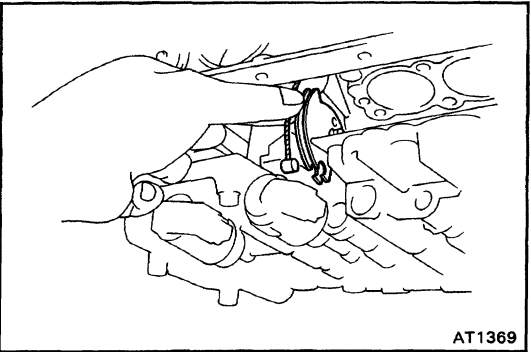


INSTALLATION OF VALVE BODY AND/OR SOLENOID VALVE

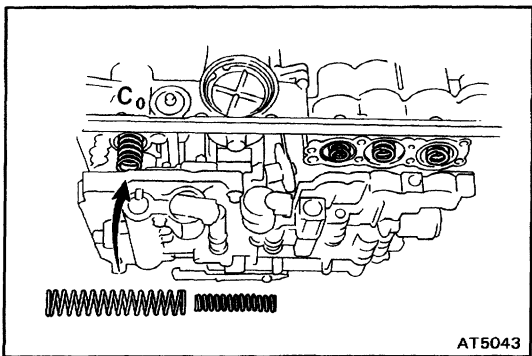
1. INSTALL VALVE BODY

- (a) Install the valve body together the check ball body and spring.

HINT: Align the groove of the manual valve to the pin of the lever.

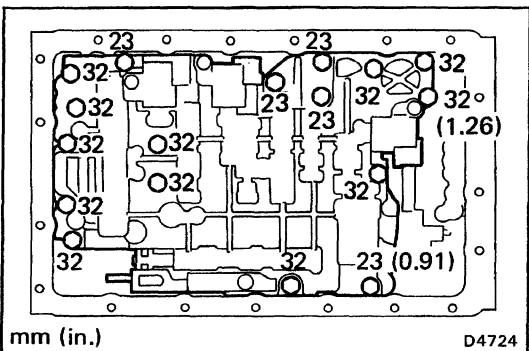


- (b) Connect the throttle cable to the cam.

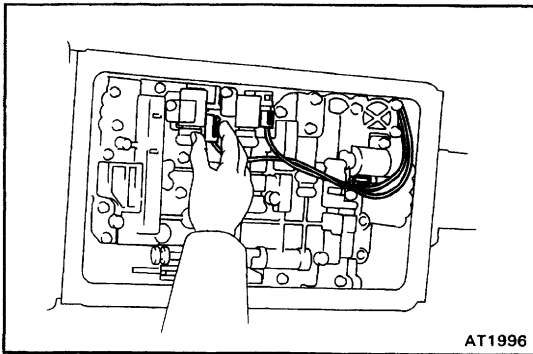


- (c) Install the two C₀ accumulator piston springs.
- C₀ accumulator piston spring

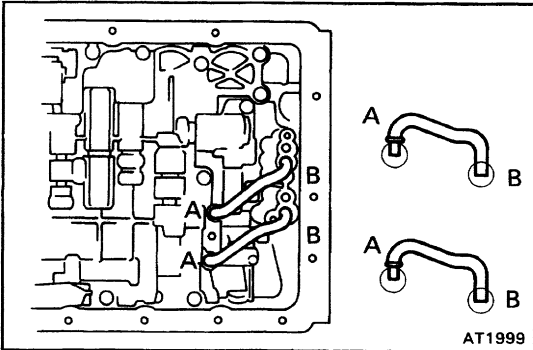
Spring	Free length	Outer diameter	Color
Outer	74.6 (2.937)	20.9 (0.823)	Orange
Inner	46.0 (1.811)	14.0 (0.551)	Yellow



- (d) Install the seventeen bolts.
- HINT: Each bolt length (mm, in.) is indicated in the figure.
Torque: 100 kg-cm (7 ft-lb, 10 N-m)



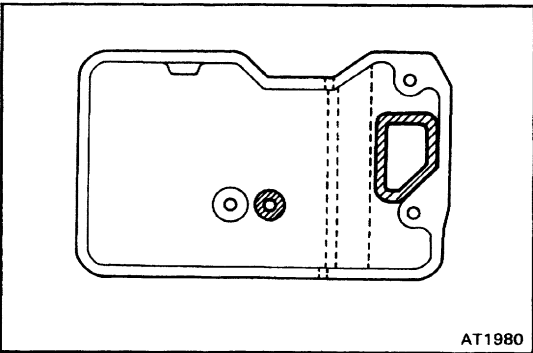
2. CONNECT CONNECTORS TO EACH SOLENOID



3. INSTALL OIL TUBES

NOTICE: Make sure that the oil tubes or the magnet do not interfere with the oil pan.

Install the two tubes by hand as shown.

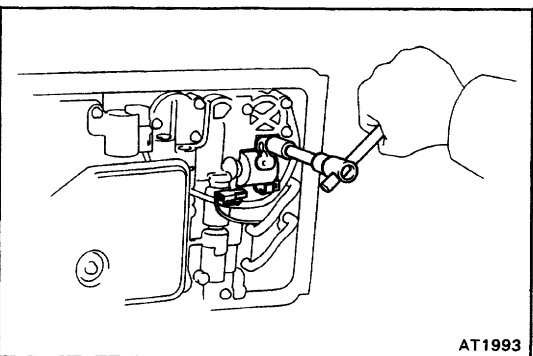


4. INSTALL OIL STRAINER

- If necessary, replace the strainer or case gasket.
- Install the gaskets and oil strainer and torque the three bolts.

Torque: 100 kg-cm (7 ft-lb, 10 N-m)

- Clamp the solenoid wire.

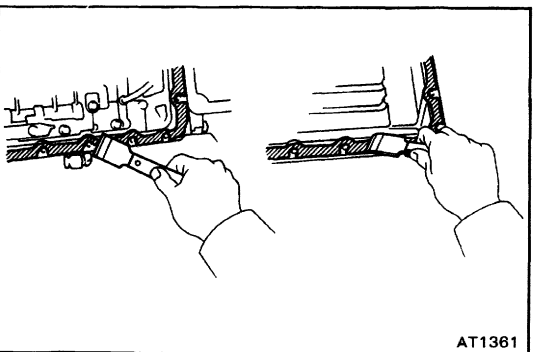


5. WHEN REPLACING SOLENOID

- Install a new O-ring to the solenoid.
- Install the solenoid and torque the bolt.

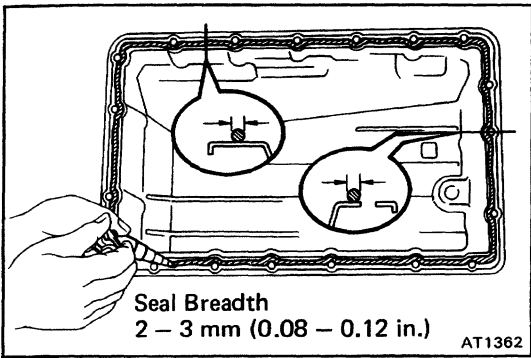
Torque: 100 kg-cm (7 ft-lb, 10 N-m)

- Connect the connector to the solenoid.
- Clamp the solenoid wire.



6. INSTALL OIL PAN

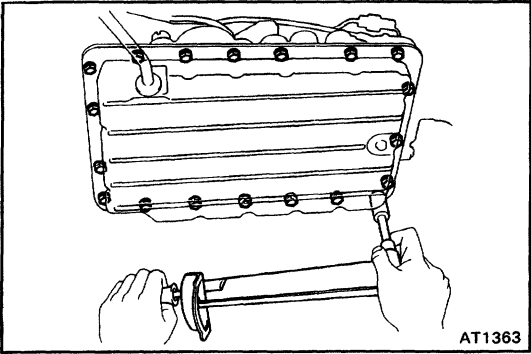
- Remove any packing material and be careful not to drop the oil pan on the contacting surfaces of the oil pan and transmission case.
- Clean contacting surfaces of any residual packing material using gasoline or alcohol.



(c) Apply seal packing to the oil pan.

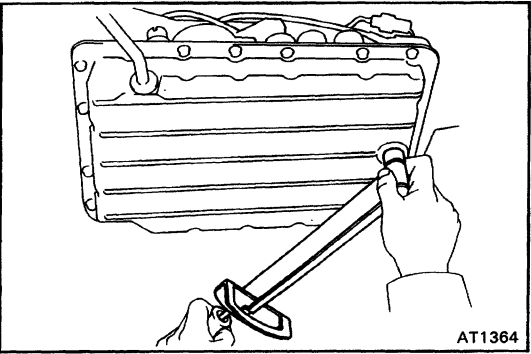
Seal packing: Part No. 08826-00090, THREE BOND 1281 or equivalent

HINT: Install the oil pan within 10 minutes after applying seal packing.



(d) Install the oil pan and torque the nineteen bolts.

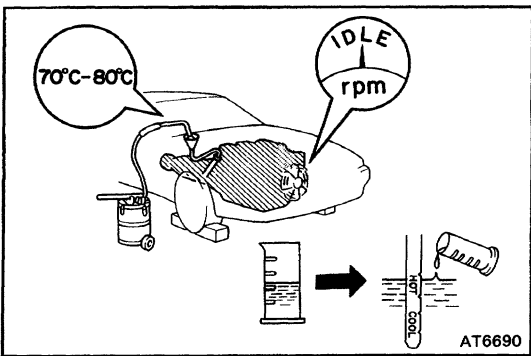
Torque: 75 kg-cm (65 in.-lb, 7.4 N-m)



7. INSTALL DRAIN PLUG

Torque the drain plug.

Torque: 205 kg-cm (15 ft-lb, 20 N-m)



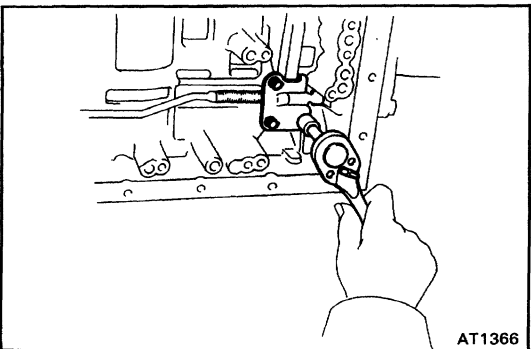
8. FILL TRANSMISSION WITH ATF

(See page [AT-19](#))

NOTICE: Do not overfill.

Fluid type: ATF DEXRON® II

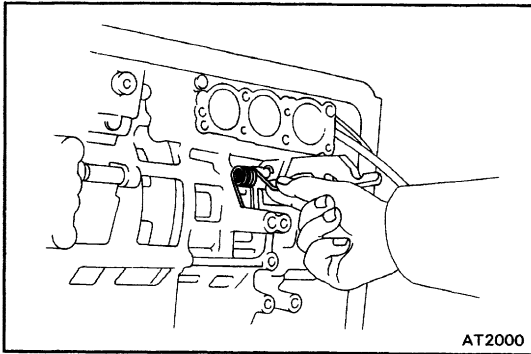
9. CHECK FLUID LEVEL



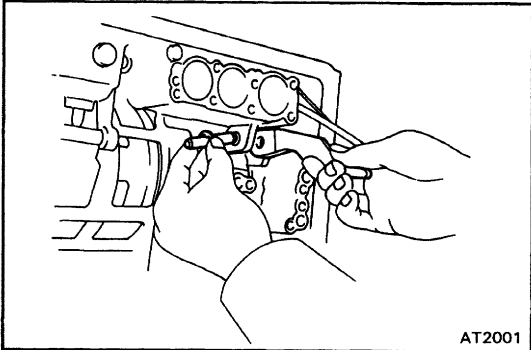
Parking Lock Pawl

REMOVAL OF PARKING LOCK PAWL

1. REMOVE VALVE BODY (See page [AT-43](#))
2. REMOVE PARKING LOCK PAWL BRACKET

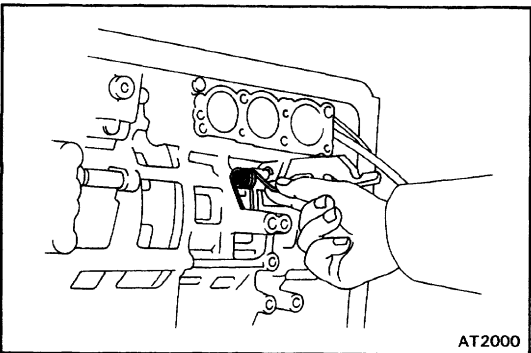


3. REMOVE SPRING FROM PARKING LOCK PAWL SHAFT

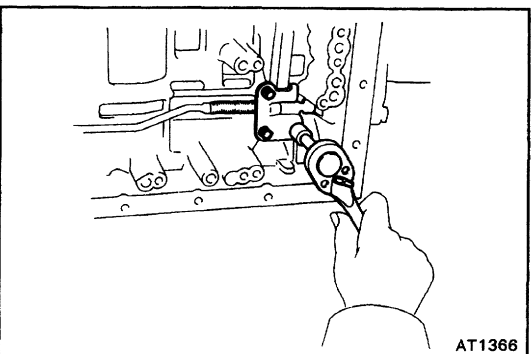


4. REMOVE PARKING LOCK PAWL AND SHAFT INSTALLATION OF PARKING LOCK PAWL

1. INSTALL PARKING LOCK PAWL AND SHAFT



2. INSTALL SPRING

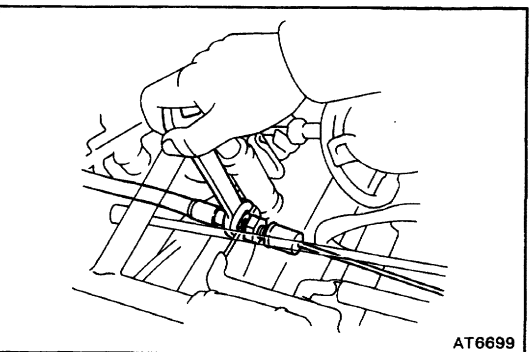


3. INSTALL PARKING LOCK PAWL BRACKET

- (a) Push the lock rod fully forward.
- (b) Install the three bolts finger tight.
- (c) Check that the parking lock pawl operates smoothly.
- (d) Torque the bolts.

Torque: 75 kg-cm (65 in.-lb, 7.4 N-m)

4. INSTALL VALVE BODY (See page [AT-45](#))

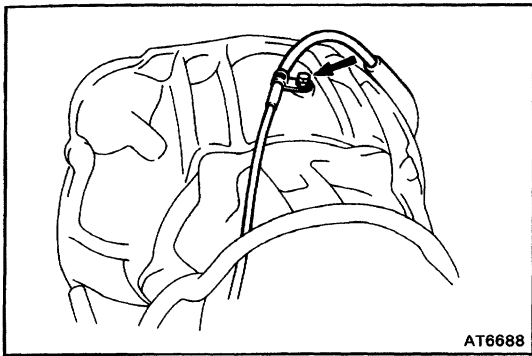


Throttle Cable

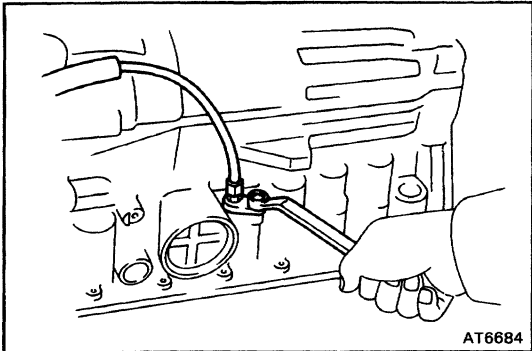
REMOVAL OF THROTTLE CABLE

7. 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.



2. REMOVE VALVE BODY (See page AT-43)
3. PUSH THROTTLE CABLE OUT OF TRANSMISSION CASE

Remove the retaining bolt and pull out the throttle cable.

INSTALLATION OF THROTTLE CABLE

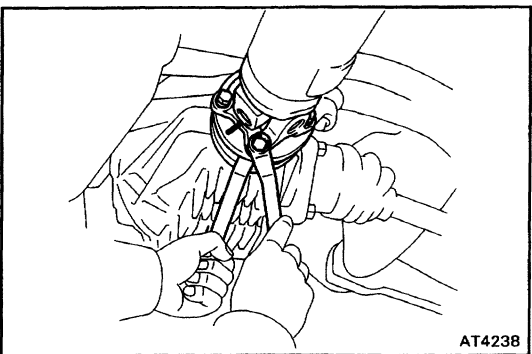
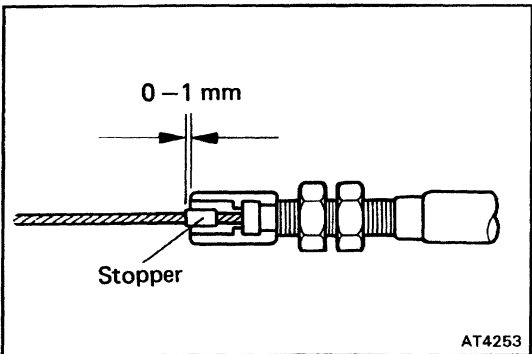
1. INSTALL THROTTLE CABLE

Install the retaining bolt and push in the throttle cable.

2. INSTALL VALVE BODY (See page AT-45)
3. IF THROTTLE CABLE IS NEW, STAKE STOPPER ON INNER CABLE

(a) Pull in the slack of the inner cable.

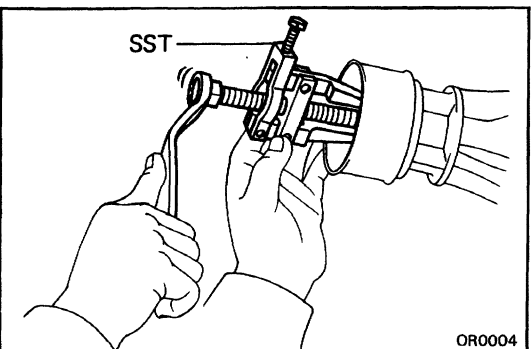
(b) Stake the stopper as shown 0 - 1 mm (0 - 0.04 in.) in width.



Extension Housing

REPLACEMENT OF OIL SEAL

1. RAISE VEHICLE AND POSITION PAN TO CATCH ANY FLUID THAT MAY DRIP
2. REMOVE PROPELLER SHAFT TOGETHER WITH CENTER BEARING

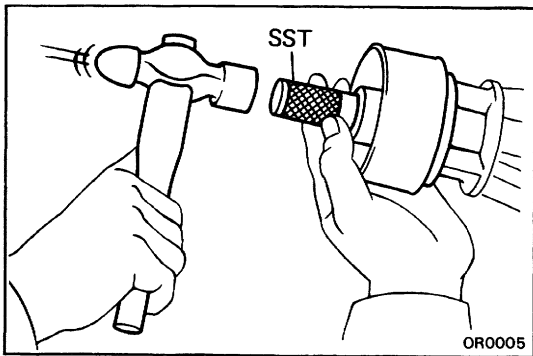


3. REMOVE REAR OIL SEAL

NOTICE: Clean the extension housing before removing the oil seal.

Using SST, remove the seal.

SST 09308-10010



4. INSTALL NEW OIL SEAL

Using SST, drive in a new oil seal as far as it will go.

SST 09325-40010

5. INSTALL PROPELLER SHAFT

6. LOWER VEHICLE AND CHECK FLUID LEVEL

(See page [AT-19](#))

Add fluid as necessary.

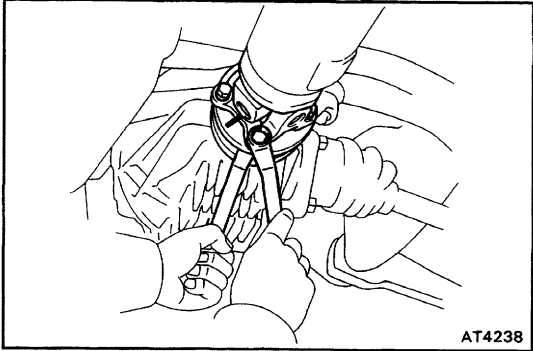
NOTICE: Do not overfill.

Fluid type: ATF DEXRON® II

REMOVAL OF EXTENSION HOUSING

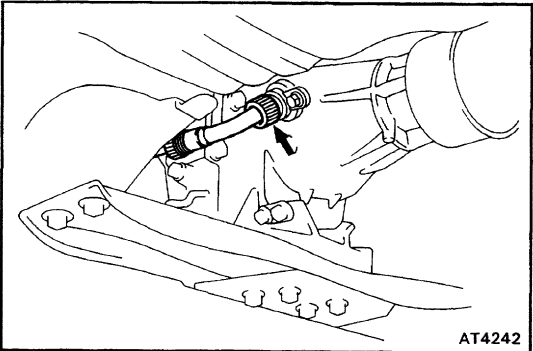
1. RAISE VEHICLE AND POSITION PAN TO CATCH ANY FLUID THAT MAY DRIP

2. REMOVE PROPELLER SHAFT TOGETHER WITH CENTER BEARING



3. DISCONNECT SPEEDOMETER CABLE

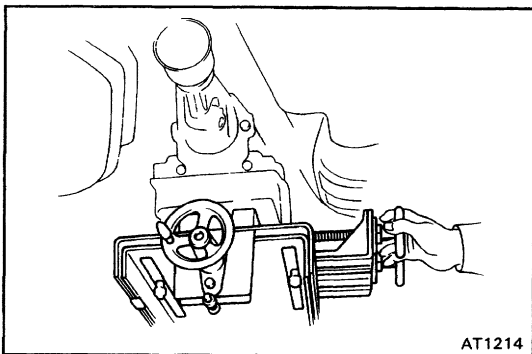
4. REMOVE SPEEDOMETER DRIVEN GEAR AND SPEED SENSOR



5. JACK UP TRANSMISSION SLIGHTLY

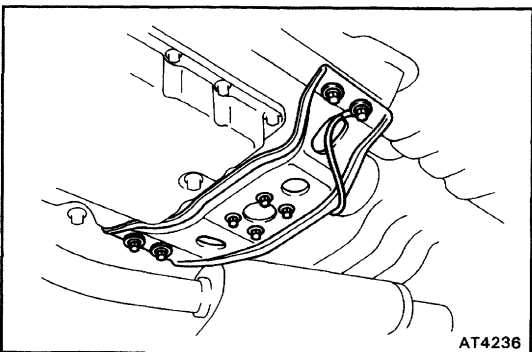
Securely support the transmission on a transmission jack.

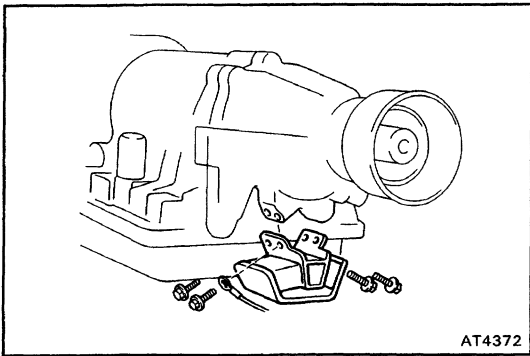
Lift the transmission slightly to remove weight from the rear support member.



6. REMOVE REAR SUPPORT MEMBER

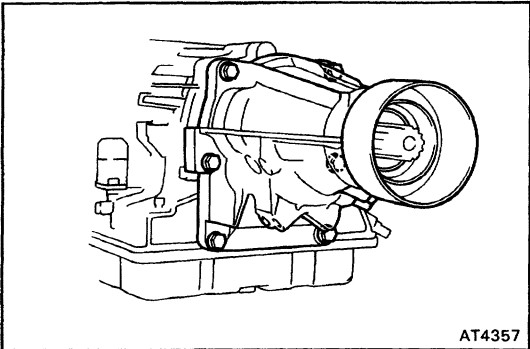
Remove the eight bolts and support member.





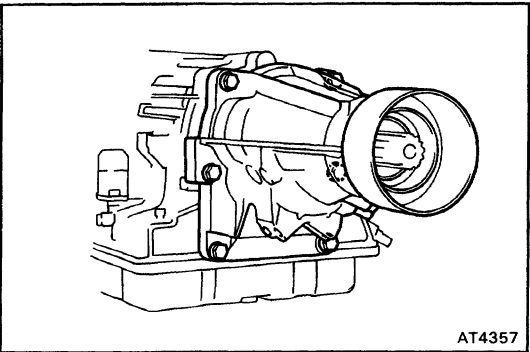
7. REMOVE TRANSMISSION MOUNTING BRACKET

Remove the four bolts and bracket from the transmission.



8. REMOVE EXTENSION HOUSING AND GASKET

Remove the six bolts. If necessary, tap the extension housing with a plastic hammer or block of wood to loosen it.



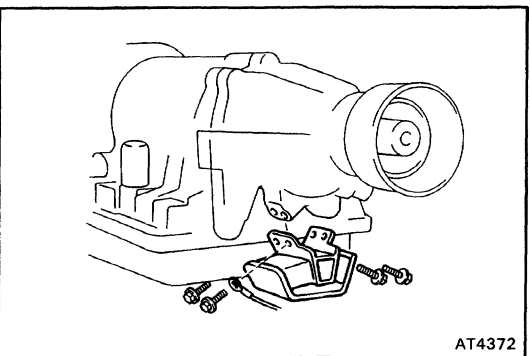
INSTALLATION OF EXTENSION HOUSING

1. INSTALL NEW GASKET AND EXTENSION HOUSING ON TRANSMISSION

Install the six bolts finger tight, then torque them.

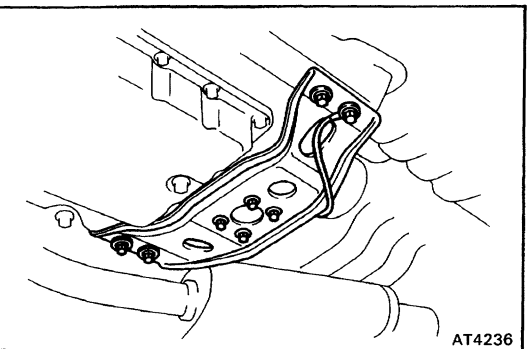
HINT: The two lower bolts are shorter.

Torque: 370 kg-cm (27 ft-lb, 36 N-m)



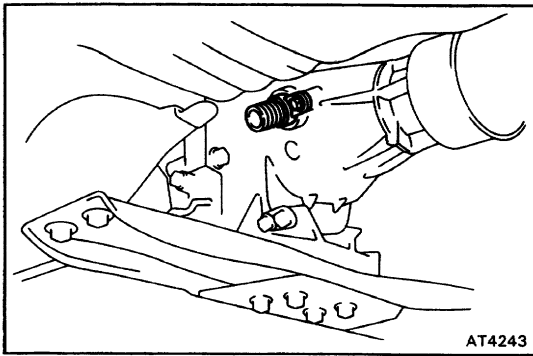
2. INSTALL TRANSMISSION MOUNTING BRACKET

Torque: 250 kg-cm (18 ft-lb, 25 N-m)

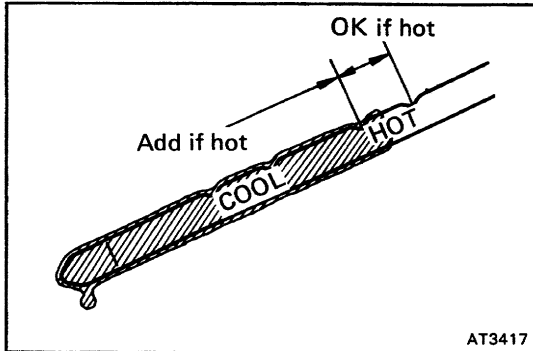


3. INSTALL REAR SUPPORT MEMBER

Torque: 260 kg-cm (19 ft-lb, 25 N-m)



4. INSTALL SPEEDOMETER DRIVEN GEAR
5. CONNECT SPEEDOMETER CABLE
6. INSTALL PROPELLER SHAFT



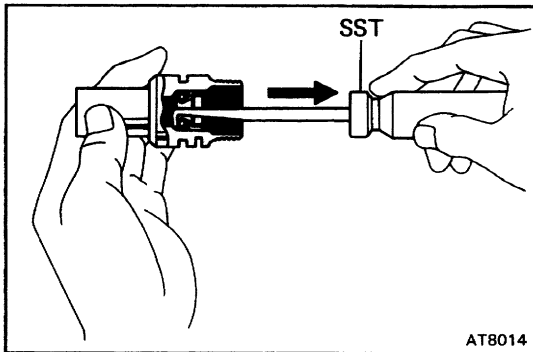
7. LOWER VEHICLE AND CHECK FLUID LEVEL

(See page [AT-19](#))

Start the engine, shift the shift lever into each position, then check the fluid level with the transmission in P position. Add fluid as necessary.

NOTICE: Do not overfill.

Fluid type: ATF DEXRON® II

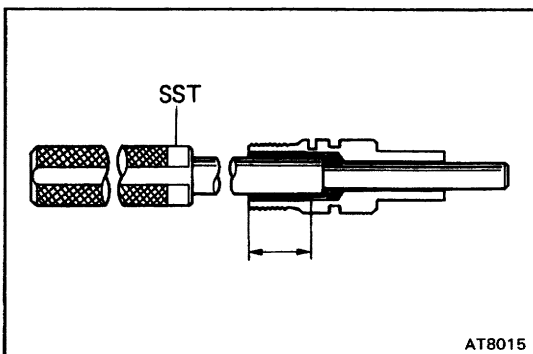


Speedometer Driven Gear REPLACEMENT OF OIL SEAL

1. REMOVE SPEEDOMETER DRIVEN GEAR OIL SEAL

Using SST, remove the oil seal.

SST 09921-00010



2. INSTALL SPEEDOMETER DRIVEN GEAR OIL SEAL

Using SST, install a new oil seal.

SST 09201-60011

Drive in depth: 20 mm (0.79 in.)