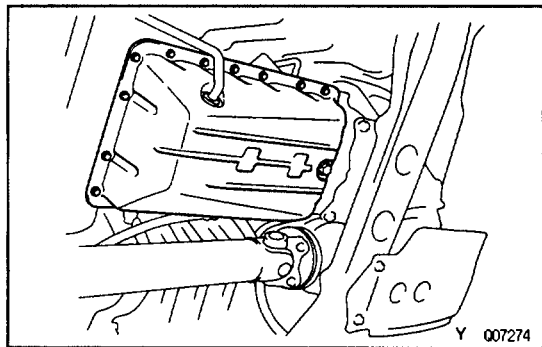




ON-VEHICLE REPAIR VALVE BODY REMOVAL

Installation is in the reverse order of removal.

INSTALLATION HINT: After installation, fill AT fluid and check fluid level. (See page [AT-50](#))

1. DRAIN AT FLUID

Torque: 20 N·m (205 kgf·cm, 15 ft·lbf)

2. REMOVE OIL PAN

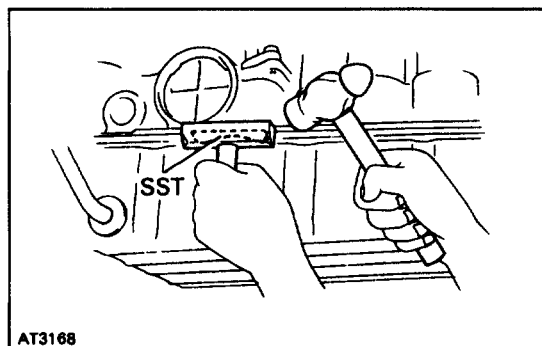
REMOVAL NOTICE: Some fluid will remain in the oil pan.

(a) Remove the 19 bolts.

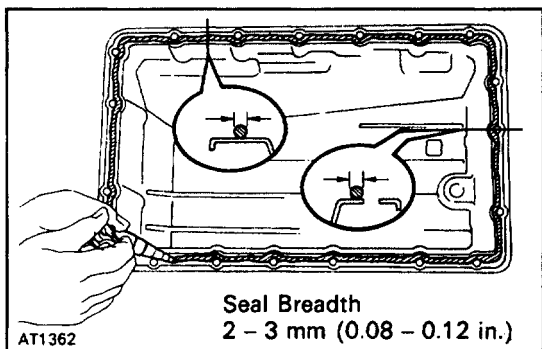
Torque: 7.4 N·m (75 kgf·cm, 65 in·lbf)

(b) Install the blade of SST between the transmission case and oil pan, cut off applied sealer and then remove the oil pan.
SST 09032-00100

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



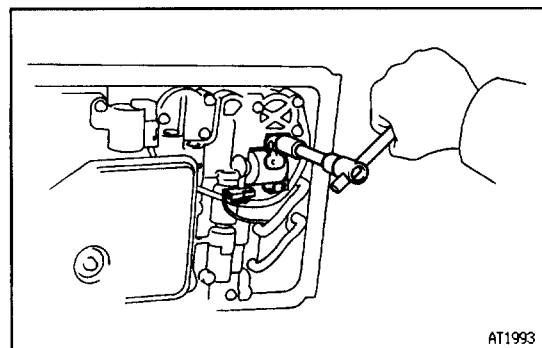
AT3168



AT1362

INSTALLATION HINT: Apply FIPG to the oil pan, as shown in the illustration.

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



AT1993

3. WHEN REPLACING 3 SHIFT SOLENOID VALVES

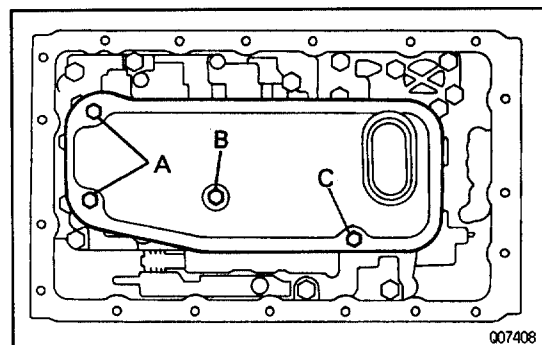
(a) Disconnect the connectors from the solenoid valves.

(b) Remove the 3 solenoid valve mounting bolts.

Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)

(c) Remove the 3 solenoid valves.

INSTALLATION HINT: Replace the O-rings with new ones.



007408

4. REMOVE OIL STRAINER

Remove the 4 bolts, and the oil strainer and gaskets.

Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)

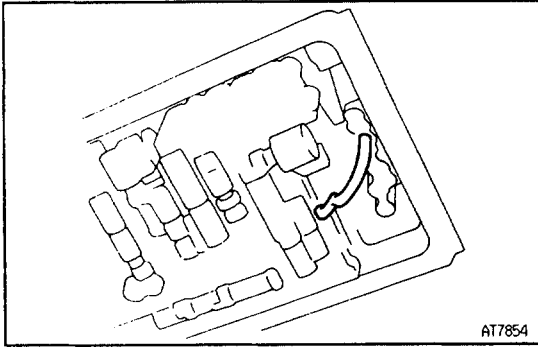
NOTICE: Be careful as some fluid will come out with the oil strainer.

Bolt length:

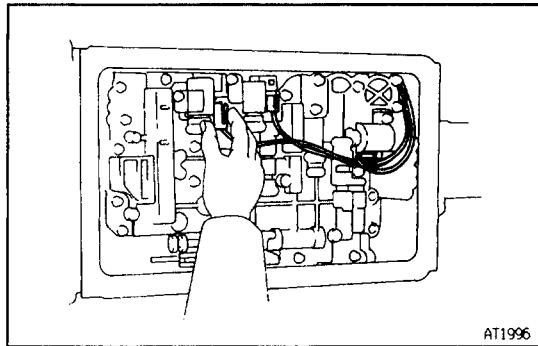
Bolt A: 16 mm (0.63 in.)

Bolt B: 20 mm (0.79 in.)

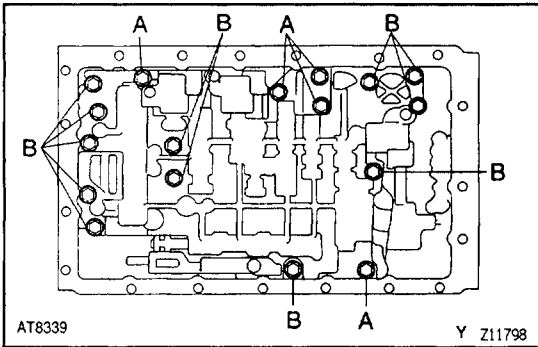
Bolt C: 28 mm (1.10 in.)



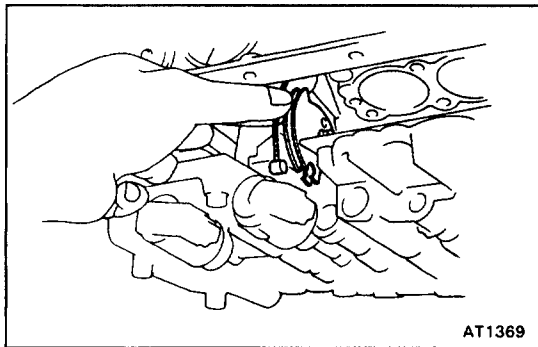
- INSTALLATION HINT: Replace the gaskets with new ones.
5. **REMOVE OIL PIPE**
Pry up both pipe ends with a large screwdriver and remove the pipe.
INSTALLATION NOTICE: Make sure that the oil pipe or the magnet do not interfere with the oil pan.



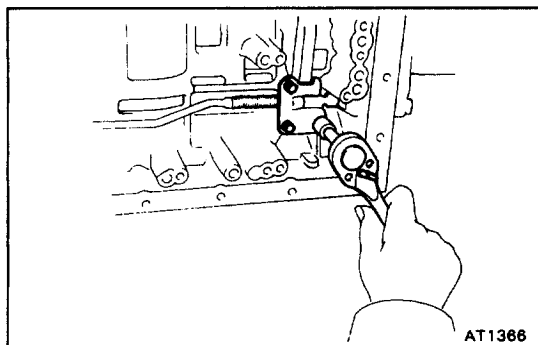
6. **DISCONNECT CONNECTORS FROM EACH SOLENOID VALVES**



7. **REMOVE VALVE BODY**
Remove the 17 bolts.
Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)
Bolt length:
Bolt A: 23 mm (0.91 in.)
Bolt B: 32 mm (1.26 in.)



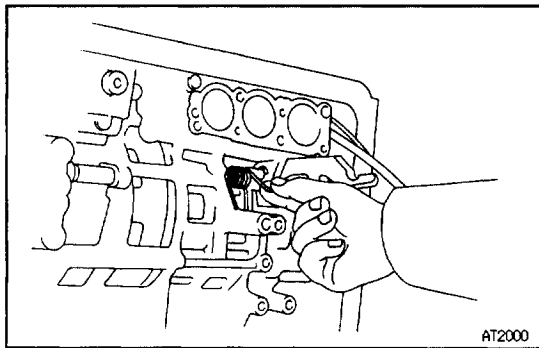
- (c) Disconnect the throttle cable from the cam.
- (d) Remove the valve body.
REMOVAL NOTICE: Be careful not to drop the check ball body and spring.
INSTALLATION HINT:
 - Install the body together the check ball body and spring.
 - Align the groove of the manual valve to the pin of the lever.



PARKING LOCK PAWL REMOVAL

Installation is in the reverse order of removal.

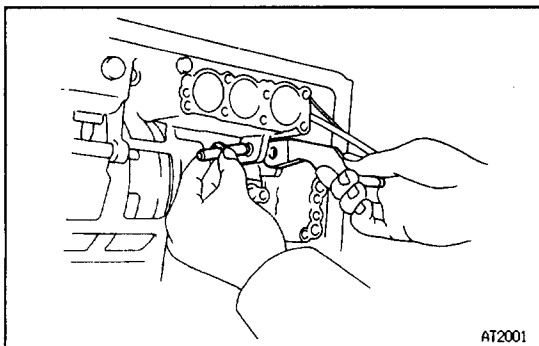
1. **REMOVE VALVE BODY**
(See page [AT-14](#))
2. **REMOVE PARKING LOCK PAWL BRACKET**
INSTALLATION HINT:
 - Push the lock rod fully forward.
 - Install the 3 bolts finger tight.



- Check that the parking lock pawl operates smoothly.
- Torque the bolts.

Torque: 7.4 N·m (75 kgf·cm, 65 in.-lbf)

3. REMOVE SPRING FROM PARKING LOCK PAWL SHAFT



4. REMOVE PARKING LOCK PAWL AND SHAFT

THROTTLE CABLE REMOVAL

Installation is in the reverse order of removal.

INSTALLATION HINT:

- After installation, fill and check the fluid level.
(See page [AT-50](#))
- Adjust the throttle cable. (See page [AT-51](#))

1. DISCONNECT THROTTLE CABLE

- Disconnect the cable housing from the bracket.
- Disconnect the cable from the throttle linkage.
- Remove the bolt and disconnect the cable clamp from the torque converter clutch housing.

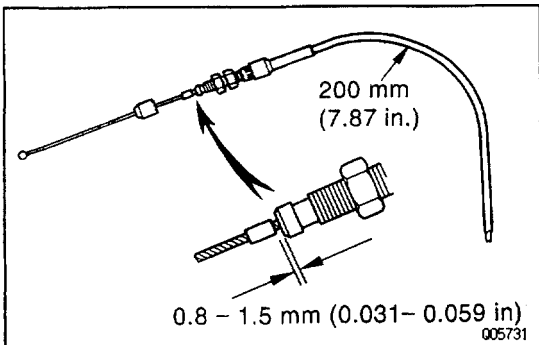
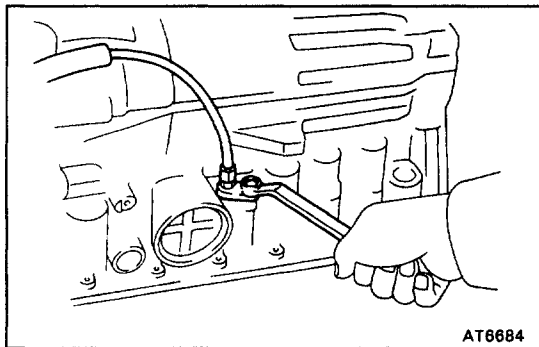
2. DISCONNECT THROTTLE CABLE CLAMP FROM TORQUE CONVERTER CLUTCH HOUSING

3. REMOVE VALVE BODY

(See page [AT-14](#))

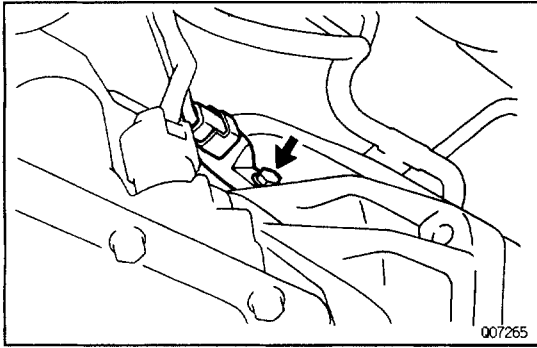
4. REMOVE THROTTLE CABLE

Remove the retaining bolt and pull out the throttle cable.



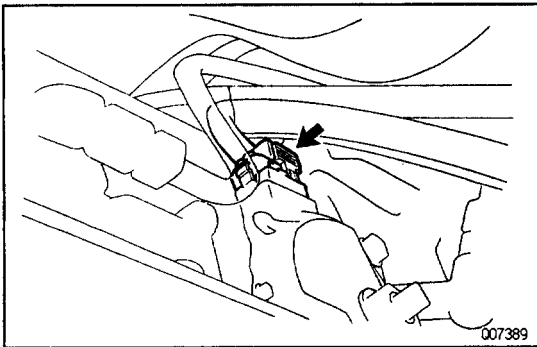
INSTALLATION HINT: If throttle cable is new, stake stopper on inner cable.

- Bend the cable so there is a radius of about 200 mm (7.87 in.)
- Pull in the slack of the inner cable.
- Stake the stopper with 0.8–1.5 mm (0.039–0.059 in.) protruding from the end of the outer cable.



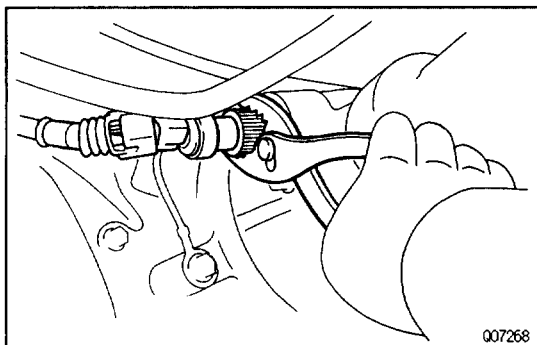
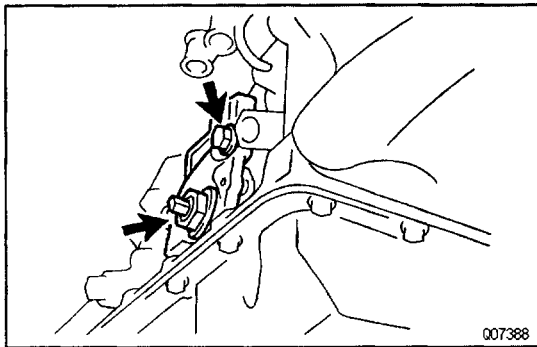
NO.2 VEHICLE SPEED SENSOR REPLACEMENT

1. **DISCONNECT NO.2 VEHICLE SPEED SENSOR CONNECTOR**
2. **REMOVE NO.2 VEHICLE SPEED SENSOR**
 - (a) Remove the bolt and No.2 vehicle speed sensor.
 - (b) Remove the O-ring from it.
3. **INSTALL NO.2 VEHICLE SPEED SENSOR**
 - (a) Coat a new O-ring with ATF and install it to the vehicle speed sensor.
 - (b) Install the speed sensor and torque the bolt.
Torque: 5.4 N·m (55 kgf·cm, 48 in·lbf)
4. **CONNECT NO.2 VEHICLE SPEED SENSOR CONNECTOR**



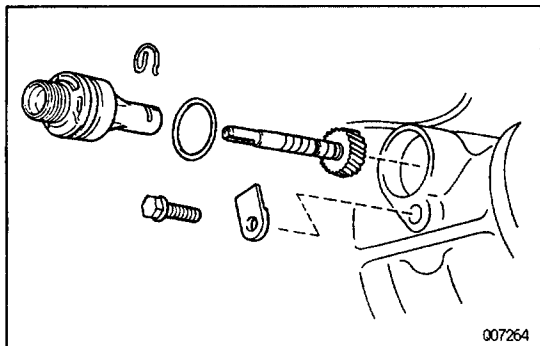
PARK/NEUTRAL POSITION SWITCH REPLACEMENT

1. **DISCONNECT OIL COOLER PIPES**
(See page [AT-23](#))
2. **DISCONNECT PARK/NEUTRAL POSITION SWITCH CONNECTOR**
3. **DISCONNECT PARK/NEUTRAL POSITION SWITCH**
 - (a) Pry off the lock washer and remove the nut.
 - (b) Remove the bolt and pull out the park/neutral position switch.
4. **INSTALL AND ADJUST PARK/NEUTRAL POSITION SWITCH**
(See page [AT-51](#))
5. **CONNECT PARK/NEUTRAL POSITION SWITCH CONNECTOR**
6. **CONNECT OIL COOLER PIPES**
(See page [AT-23](#))

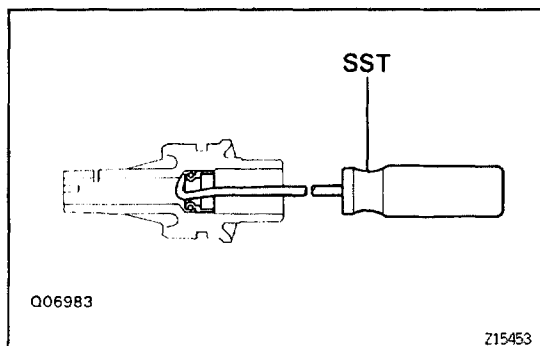


SPEEDOMETER DRIVEN GEAR REPLACEMENT

1. **DISCONNECT SPEEDOMETER CABLE AND REMOVE SPEEDOMETER DRIVEN GEAR**
 - (a) Loosen the serrated collar with pliers. Do not lose the felt dust protector and washer.
 - (b) Disconnect the speedometer cable.

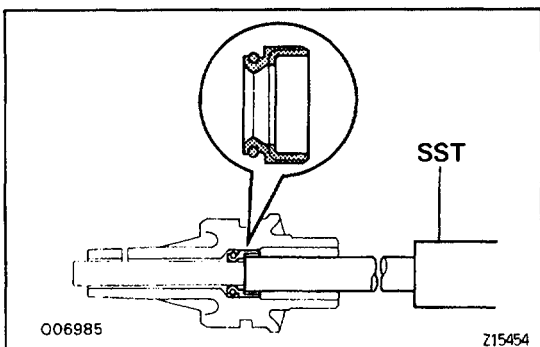


- (c) Remove the bolt and locking plate. Pry out the speedometer driven gear assembly.
- (d) Remove the O-ring from the speedometer driven gear assembly.
- (e) Remove the clip and speedometer driven gear from the speedometer driven gear sleeve.



2. REMOVE SPEEDOMETER DRIVEN GEAR OIL SEAL

Using SST, remove the oil seal.
SST 09921-00010



3. INSTALL SPEEDOMETER DRIVEN GEAR OIL SEAL

Using SST, install a new oil seal.
SST 09201-10000 (09201-01080)
Drive in depth: 20 mm (0.79 in.)

4. INSTALL SPEEDOMETER DRIVEN GEAR AND CONNECT SPEEDOMETER CABLE

- (a) Install the clip and speedometer driven gear to the speedometer driven gear sleeve.
- (b) Install a new O-ring to the speedometer driven gear assembly.
- (c) Install the speedometer driven gear.
- (d) Install the locking plate with the bolt.
Torque: 16 N·m (160 kgf·cm, 12 ft·lbf)
- (e) Connect the speedometer cable.
- (f) Tighten the serrated collar with pliers.

