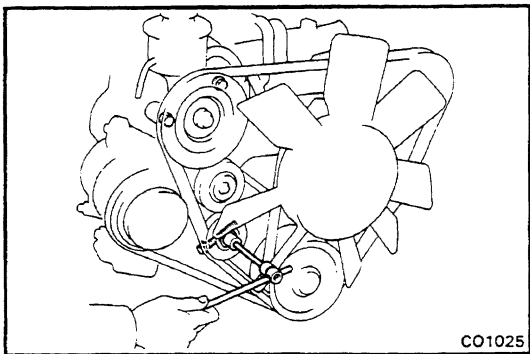
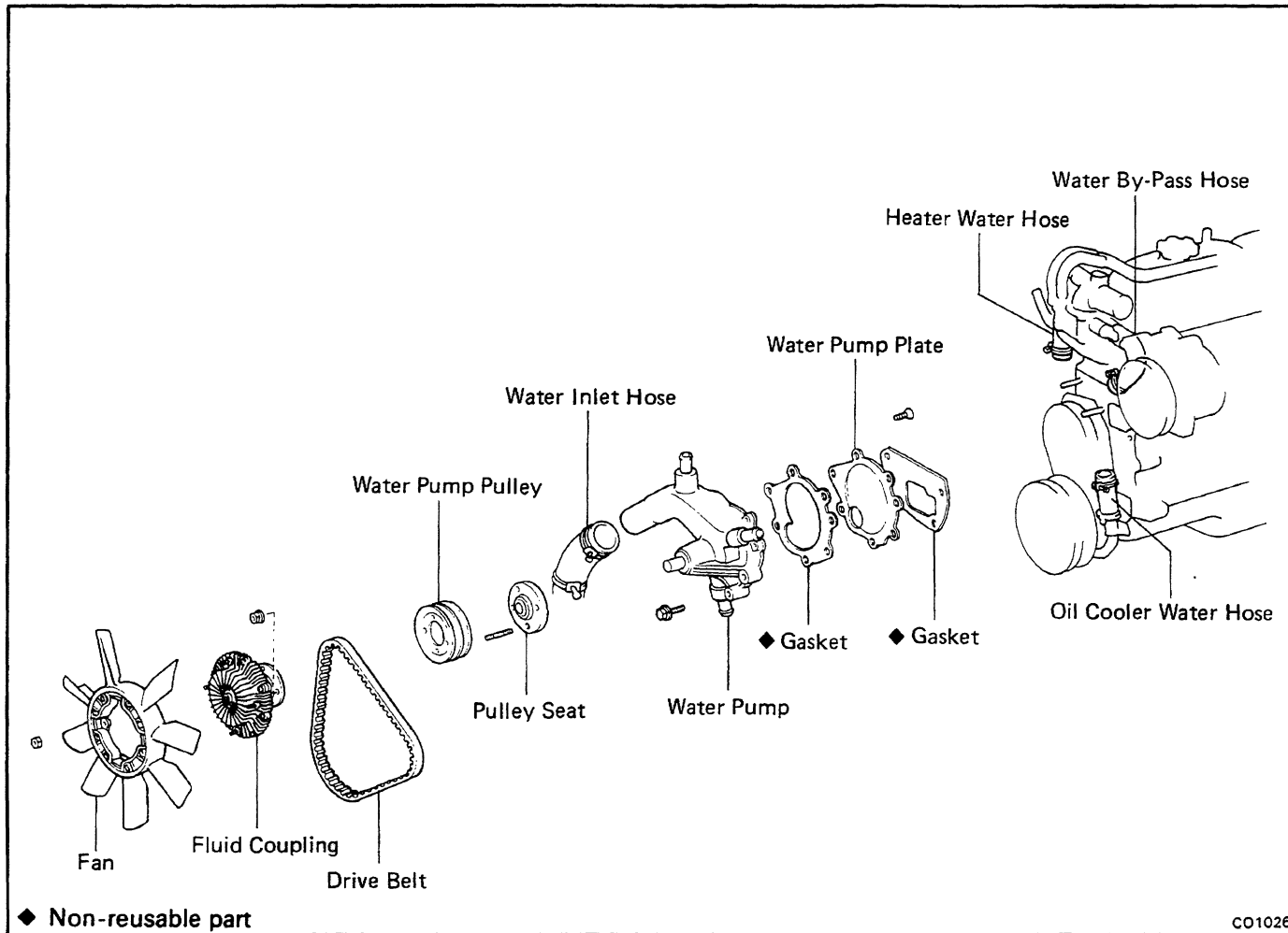
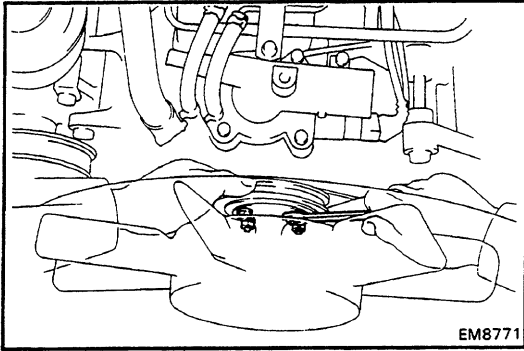


WATER PUMP COMPONENTS

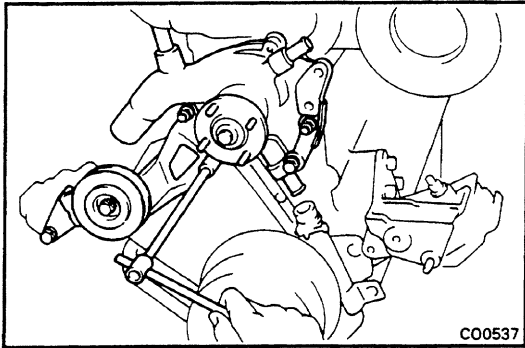


REMOVAL OF WATER PUMP

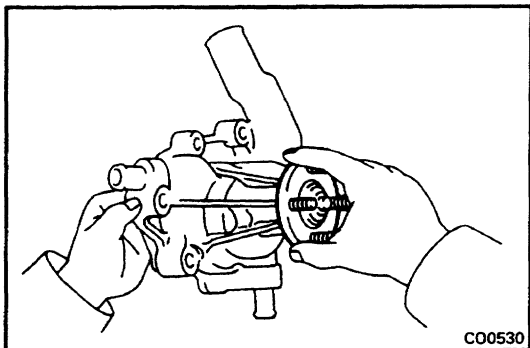
1. **DRAIN ENGINE COOLANT** (See page [CO-5](#))
2. **REMOVE PS DRIVE BELT**
Loosen the PS mount, idler pulley and adjusting bolts, and remove the drive belt.
3. **DISCONNECT COOLANT RESERVOIR HOSE**
4. **DISCONNECT RADIATOR INLET HOSE**
5. **REMOVE FAN SHROUD BOLTS**



6. **REMOVE ALTERNATOR DRIVE BELT, FAN, FLUID COUPLING AND WATER PUMP PULLEY**
 - (a) Remove the four nuts holding the fluid coupling to the pulley seat.
 - (b) Loosen the alternator adjusting lock bolt, adjusting bolt, pivot bolt and nut, and remove the drive belt.
 - (c) Pull out the fan and fluid coupling with the fan shroud.
 - (d) Remove the fan from the fluid coupling.
7. **REMOVE ALTERNATOR (See page CH-6)**
8. **REMOVE A/C DRIVE BELT**
9. **DISCONNECT HOSES FROM WATER PUMP**
 - (a) Water inlet hose
 - (b) Water by-pass hose
 - (c) Heater water hose
 - (d) Oil cooler water hoses



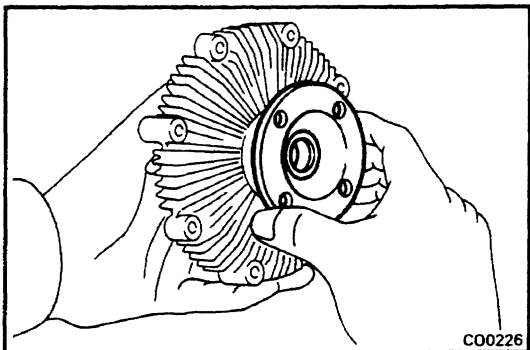
10. **REMOVE WATER PUMP, PS IDLER PULLEY WITH BRACKET ASSEMBLY AND ALTERNATOR STAY BRACKET**
 - (a) Remove the bolt, two nuts and PS idler pulley with bracket assembly.
 - (b) Remove the bolt, nut, alternator stay bracket, water pump and gasket.



INSPECTION OF WATER PUMP COMPONENTS

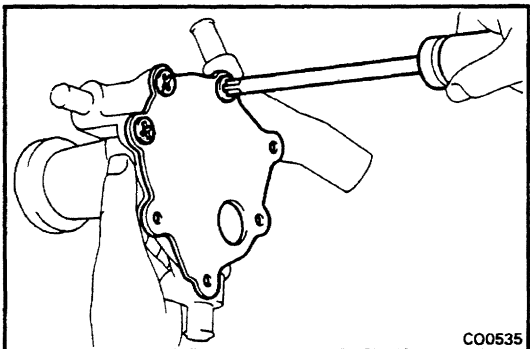
1. INSPECT WATER PUMP

Turn the pulley seat and check that the water pump bearing is not rough or noisy.
If necessary, replace the water pump.



2. INSPECT FLUID COUPLING

Check that the fluid coupling is not damaged and that no silicon oil leaks.
If necessary, replace the fluid coupling.

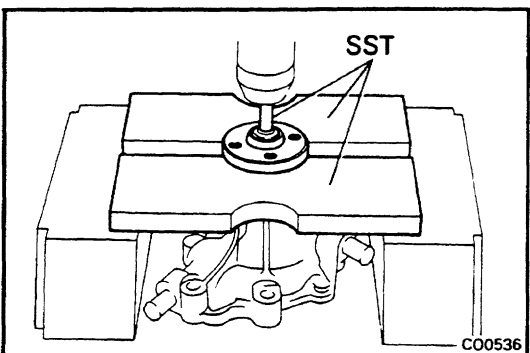


DISASSEMBLY OF WATER PUMP

(See page [CO-6](#))

1. REMOVE WATER PUMP PLATE

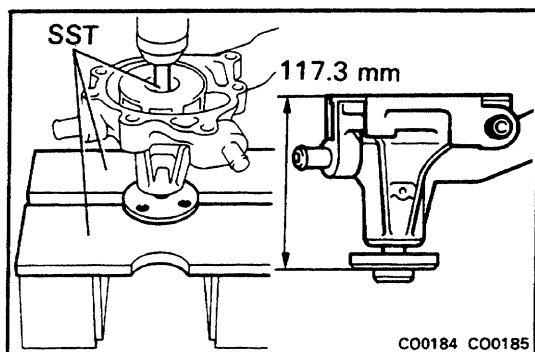
Remove the three screws, plate and gasket.



2. REMOVE PULLEY SEAT

- (a) Remove the stud bolts.
- (b) Using SST and a press, press the shaft of the bearing and remove the pulley seat.

SST 09236-00101 (09237-00010,09237-00050)



ASSEMBLY OF WATER PUMP

(See page [CO-6](#))

1. INSTALL WATER PUMP SEAT

- (a) Using SST and a press, press the shaft of the bearing and install the pulley seat to a distance specified below from the water pump body edge.

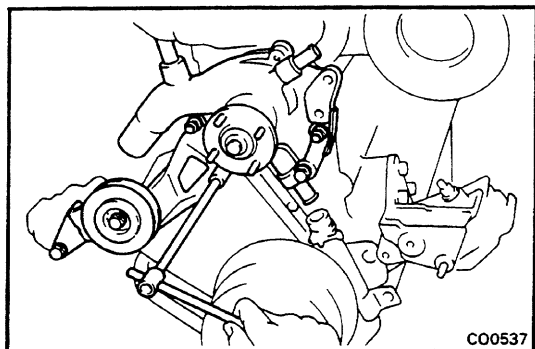
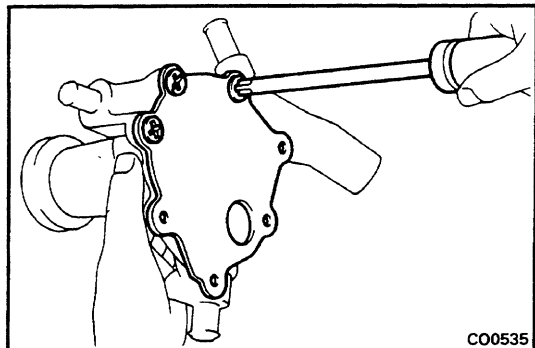
SST 09236-00101 (09237-00010, 09237-00050)

Distance: 117.3 mm (4.618 in.)

- (b) Install the stud bolts.

2. INSTALL WATER PUMP PLATE

Install a new gasket and the water pump plate with the three screws.



INSTALLATION OF WATER PUMP

(See page [CO-6](#))

1. INSTALL WATER PUMP, PS IDLER PULLEY WITH BRACKET ASSEMBLY AND ALTERNATOR STAY BRACKET

- (a) Temporarily install a new gasket, the water pump and alternator stay bracket with the bolt and nut.
- (b) Temporarily install the PS idler pulley with bracket assembly with the bolt and nuts.
- (c) Torque the water pump mounting bolt and nuts.

Torque: 380 kg-cm (27 ft-lb, 37 N-m)

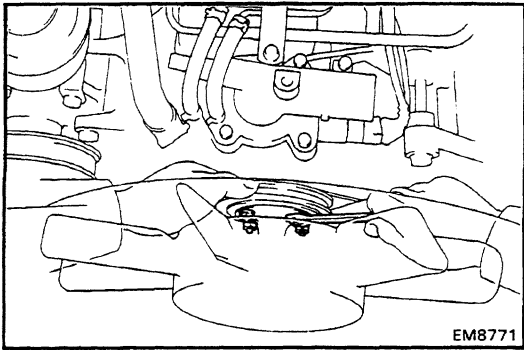
2. INSTALL AND ADJUST A/C DRIVE BELT

(See page [MA-4](#))

3. CONNECT HOSES TO WATER PUMP

- (a) Water inlet hose
- (b) Water by-pass hose
- (c) Heater water hose
- (d) Oil cooler water hose

4. INSTALL ALTERNATOR (See page [CH-14](#))



- 5. INSTALL WATER PUMP PULLEY, FLUID COUPLING, FAN AND ALTERNATOR DRIVE BELT**
 - (a) Install fan to the fluid coupling.
 - (b) Place the fan shroud together with the fluid coupling in the position.
 - (c) Install the water pump pulley and fluid coupling with the four nuts.
 - (d) Place the drive belt onto each pulley.
 - (e) Stretch the belt tight and tighten the four nuts.
 - (f) Adjust the water pump drive belt tension.
(See page [MA-4](#))
- 6. INSTALL FAN SHROUD BOLTS**
- 7. CONNECT RADIATOR INLET HOSE**
- 8. CONNECT COOLANT RESERVOIR HOSE**
- 9. INSTALL AND ADJUST PS DRIVE BELT**
(See page [MA-4](#))
- 10. FILL WITH ENGINE COOLANT** (See page [CO-5](#))
- 11. START ENGINE AND CHECK FOR LEAKS**