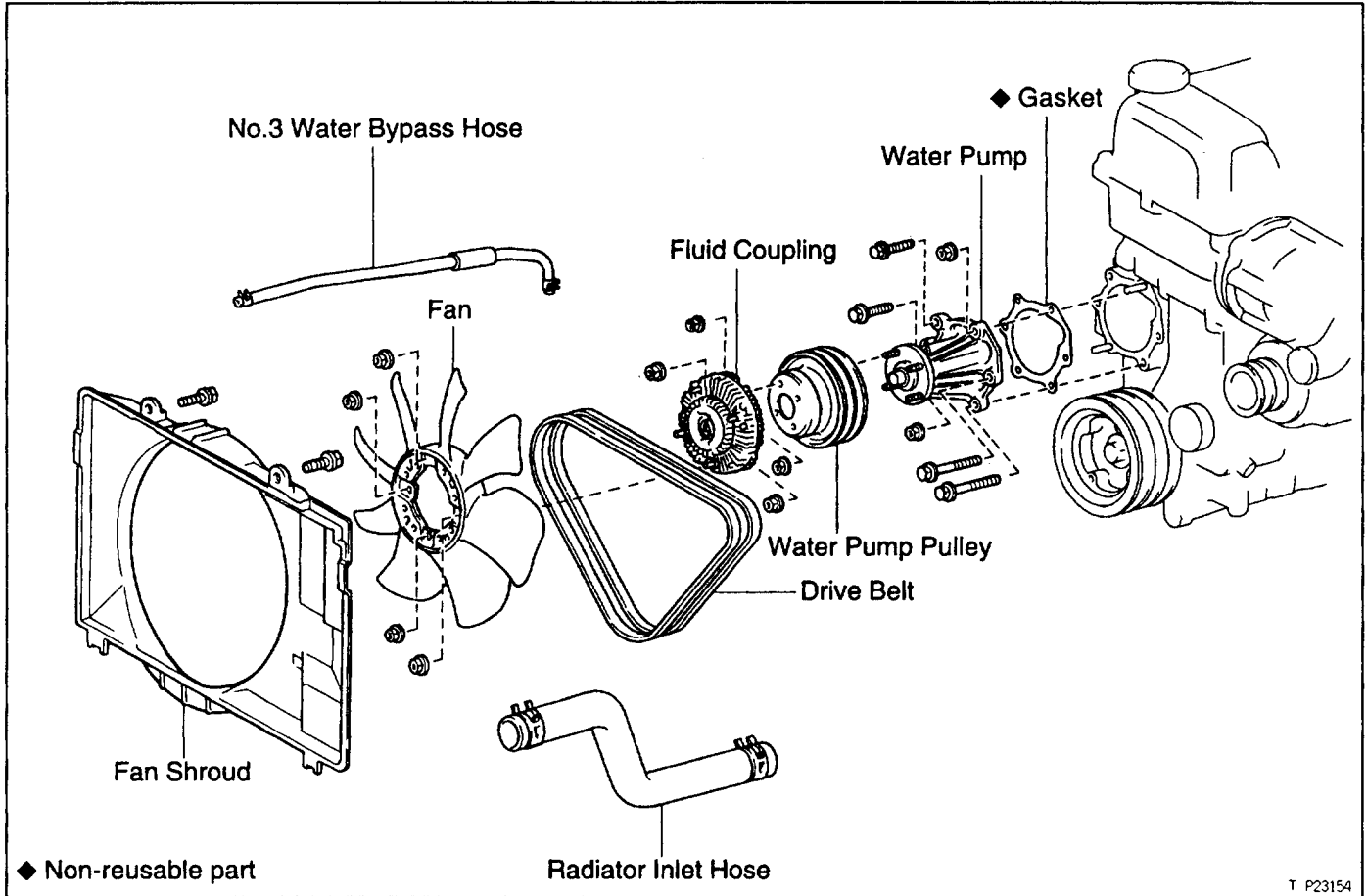
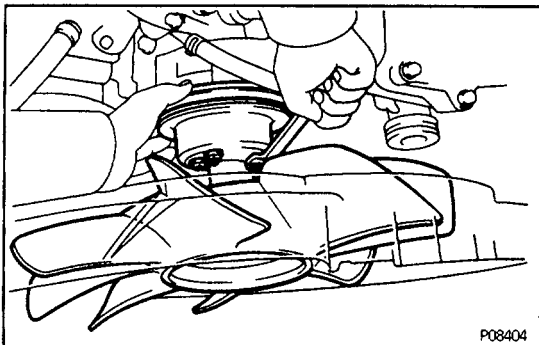


WATER PUMP COMPONENTS FOR REMOVAL AND INSTALLATION

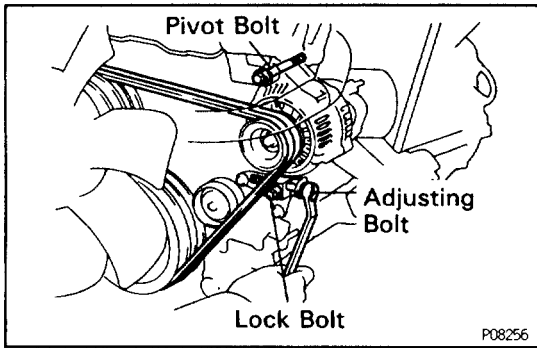


WATER PUMP REMOVAL

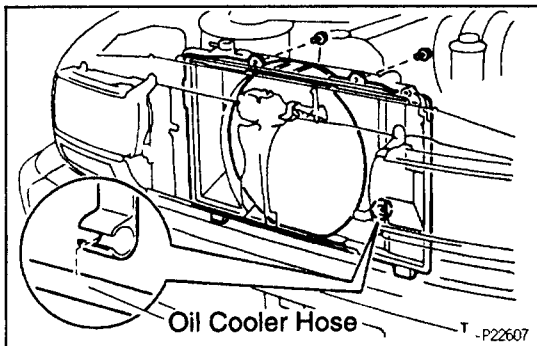
1. DRAIN ENGINE COOLANT
2. DISCONNECT NO.3 WATER BYPASS HOSE
3. DISCONNECT RADIATOR INLET HOSE



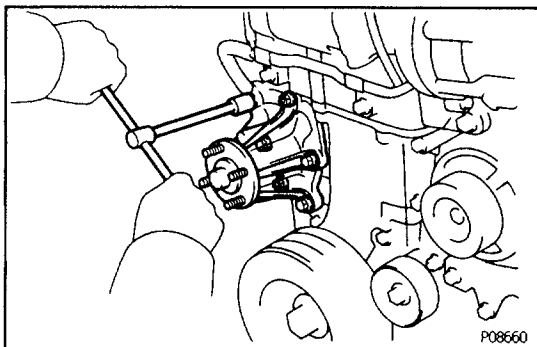
4. REMOVE DRIVE BELTS, FAN WITH FLUID COUPLING, WATER PUMP PULLEY AND FAN SHROUD
 - (a) Stretch the belts and loosen the water pump pulley mounting nuts.



- (b) Loosen the lock, pivot and adjusting bolts of the generator, and remove the drive belts.

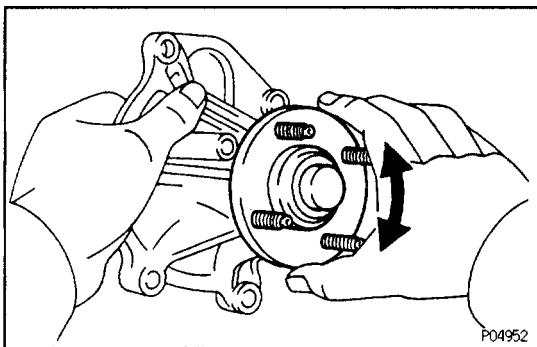


- (c) Disconnect the oil cooler hose from the clamp on the fan shroud.
 (d) Remove the 2 bolts holding the fan shroud to the radiator.
 (e) Remove the 4 water pump pulley mounting nuts.
 (f) Pull out the fan with fluid coupling, water pump pulley and fan shroud.
 (g) Remove the fan from the fluid coupling.



5. REMOVE WATER PUMP

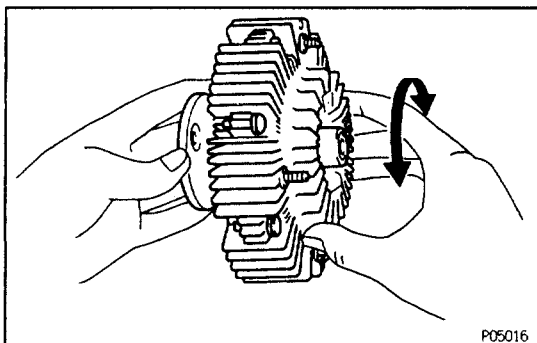
Remove the 4 bolts, 2 nuts, water pump and gasket.



WATER PUMP COMPONENTS INSPECTION

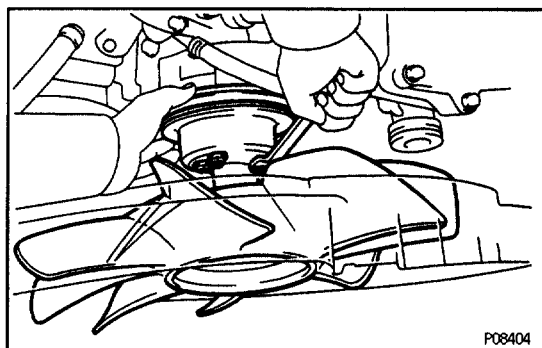
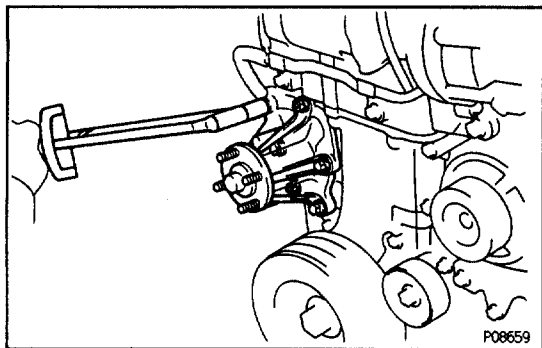
1. INSPECT WATER PUMP

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 the fluid coupling for damage and silicon oil leakage.
 If necessary, replace the fluid coupling.



WATER PUMP INSTALLATION

1. INSTALL WATER PUMP

Install a new gasket and the water pump with the 4 bolts and 2 nuts.

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

2. INSTALL WATER PUMP PULLEY, FAN SHROUD, FAN WITH FLUID COUPLING AND DRIVE BELTS

- (a) Install fan to the fluid coupling.
- (b) Place the fan with fluid coupling, water pump pulley and fan shroud in position.
- (c) Temporarily install the fan pulley mounting nuts.
- (d) Install the fan shroud with the 2 bolts.
Torque: 5.0 N·m (50 kgf·cm, 43 in·lbf)
- (e) Connect the oil cooler hose to the clamp on the fan shroud.
- (f) Install the drive belts with the adjusting bolt and pivot bolt.
- (g) Stretch the belts tight and tighten the 4 water pump pulley mounting nuts.
- (h) Adjust the drive belts.

(See on-vehicle inspection in Charging System)

3. CONNECT NO.3 WATER BYPASS HOSE

4. CONNECT RADIATOR INLET HOSE

5. FILL RADIATOR WITH ENGINE COOLANT

6. START ENGINE AND CHECK FOR LEAKS