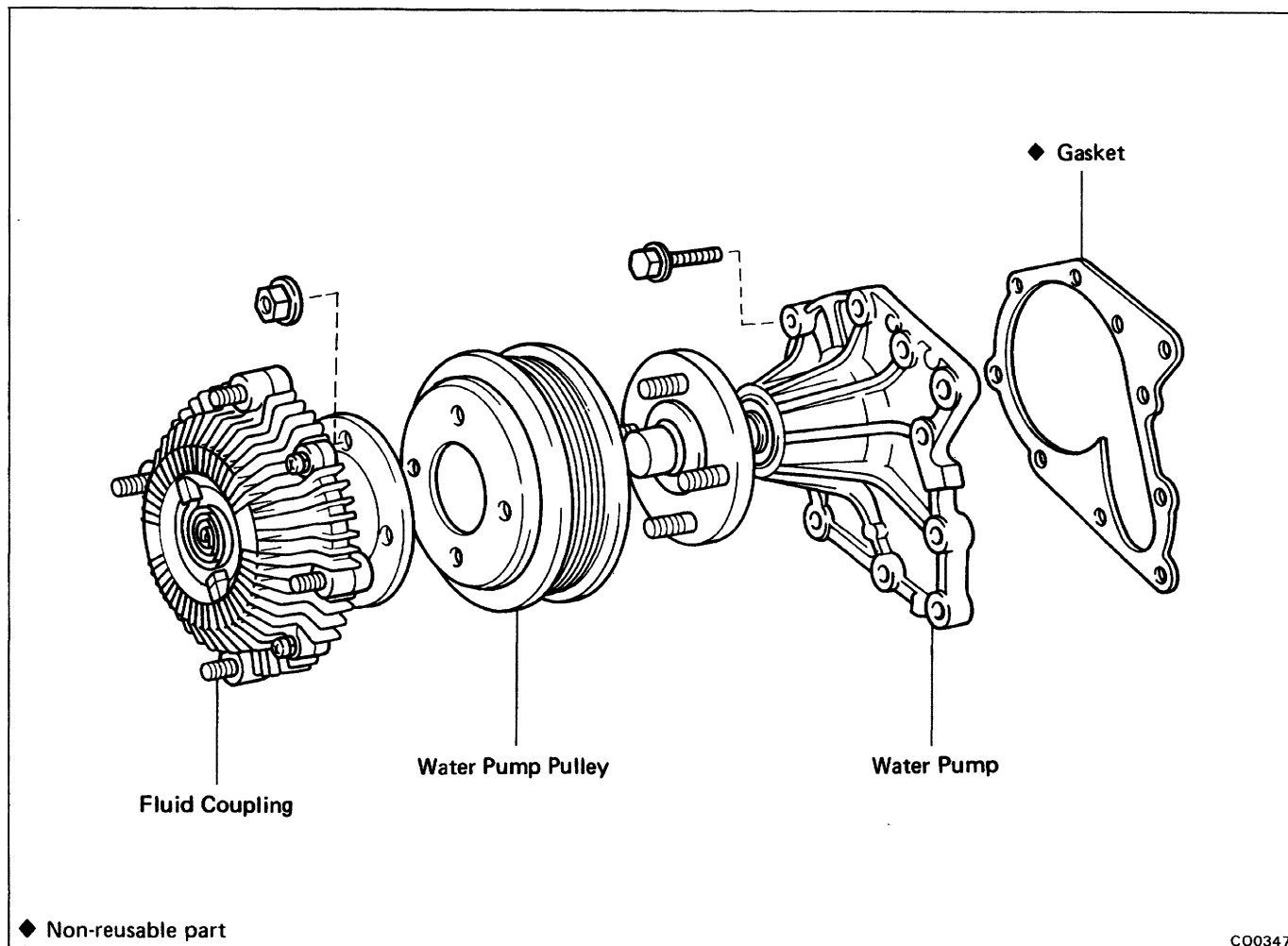


WATER PUMP COMPONENTS

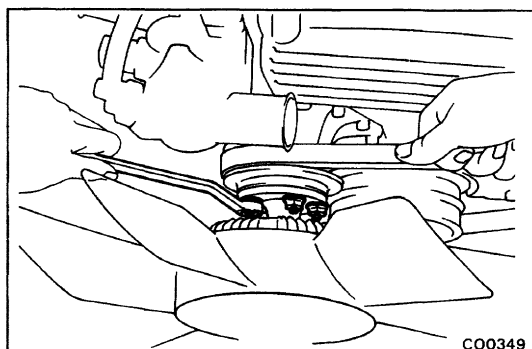


REMOVAL OF WATER PUMP

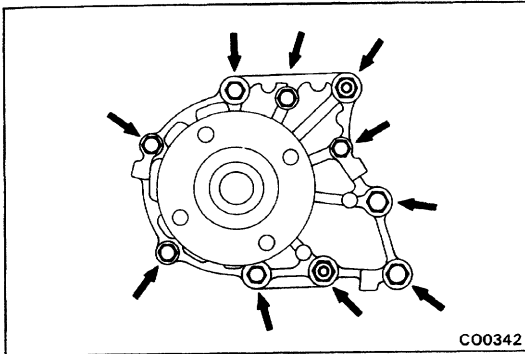
1. DRAIN ENGINE COOLANT (See page CO-5)
2. REMOVE RADIATOR INLET HOSE

3. REMOVE ALTERNATOR DRIVE BELT, FAN WITH FLUID COUPLING, WATER PUMP PULLEY AND FAN SHROUDS

- (a) Remove the No.2 fan shroud.
- (b) Loosen the four nuts holding the fluid coupling to the water pump.
- (c) Loosen the pivot bolt, adjusting bolt and nut, and remove the drive belt.
- (d) Remove the fan shroud mounting bolts.
- (e) Remove the four nuts, fluid coupling, water pump pulley and fan shroud.
- (f) Remove the fan from the fluid coupling.

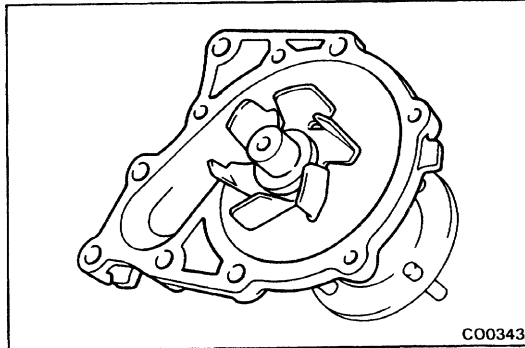


4. REMOVE PS AIR PIPE



5. REMOVE WATER PUMP

Remove the eight bolts and two nuts, and remove the water pump and gasket.

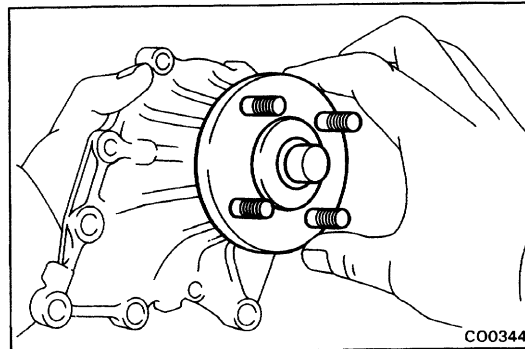


INSPECTION OF WATER PUMP

1. INSPECT WATER PUMP BODY AND TIMING BELT CASE

Check the water pump body and timing belt case for cracks and damaged gasket surfaces.

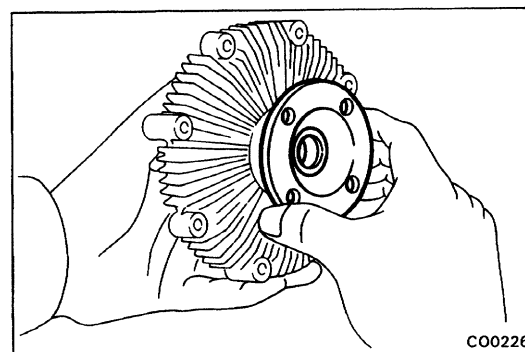
If necessary, replace the water pump or timing belt case.



2. INSPECT WATER PUMP

Turn the pulley and check that the water pump bearing moves smoothly and quietly.

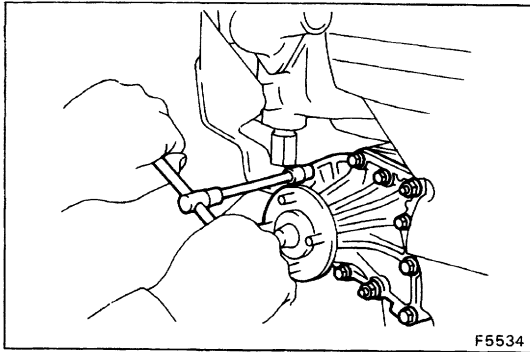
If necessary, replace the water pump.



3. INSPECT FLUID COUPLING

Check that the fluid coupling is not damaged and that no silicon oil leaks.

If necessary, replace the fluid coupling.



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INSTALLATION OF WATER PUMP

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

1. INSTALL WATER PUMP

Install a new gasket and water pump with the eight bolts and two nuts.

Torque:

10 mm bolt head 90 kg-cm (78 in.-lb, 18 N-m)

12 mm bolt head 195 kg-cm (14 ft-lb, 20 N-m)

2. INSTALL PS AIR PIPE

3. INSTALL WATER PUMP PULLEY, FAN WITH FLUID COUPLING, ALTERNATOR DRIVE BELT AND FAN SHROUDS

- (a) Place the fan with fluid coupling and the fan shroud in position.
- (b) Install the water pump pulley and fan with fluid coupling with the four nuts.
- (c) Install the fan shroud with the two bolts.
- (d) Place the drive belt onto each pulley.
- (e) Stretch the belt tight and tighten the four nuts.
- (f) Install No.2 fan shroud.

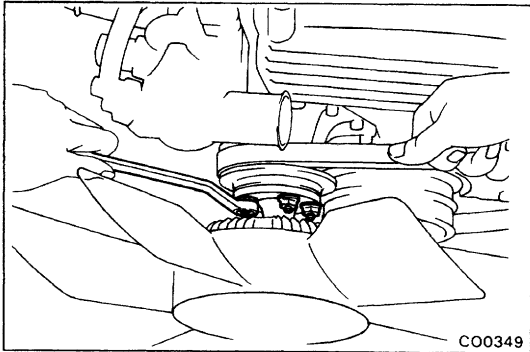
4. ADJUST ALTERNATOR DRIVE BELT TENSION

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

5. INSTALL RADIATOR INLET HOSE

6. FILL WITH ENGINE COOLANT (See page [CO-5](#))

7. START ENGINE AND CHECK FOR LEAKS



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