

## Installation Instructions

# Water Pump

NOTE: Always refer to your vehicle manufacturer's repair manual for the exact procedures and specifications when replacing your water pump.



### STEP 1

- Clean the cooling system with a chemical cleaner and reverse-flush all sediment, rust and scale before removing old pump.



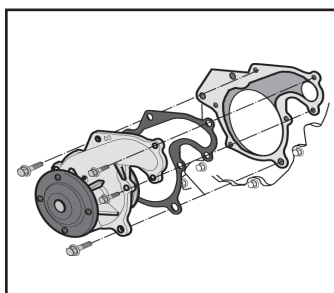
### STEP 2

- Drain coolant from radiator and engine block.



### STEP 3

- Remove fan, fan clutch (if equipped) and pulley from old water pump; inspect and replace if necessary. A worn or defective fan clutch will cause premature water pump failure. Replacing the fan clutch at this time is recommended.



### STEP 4

- Remove old water pump from engine. Make note of the location of any special bolts or fasteners.



### STEP 5

- Remove all gasket material from pump mounting surfaces on engine and clean impeller cavity in engine block.



### STEP 6

- Compare pumps to be certain they match.



### STEP 7

- Tighten mounting bolts gradually and evenly in a staggered sequence. Tighten bolts to vehicle manufacturer's torque specification.



### STEP 8

- Turn pump shaft by hand to make sure it rotates freely.



### STEP 9

- Tighten fan belts to factory recommended tension. Improper belt tension can cause premature failure!



### STEP 10

- Fill radiator and coolant recovery bottle with a proper mixture of fresh coolant and distilled water and check for leaks. Do not use tap water.



### STEP 11

- Purge system of air as required.



### STEP 12

- Install radiator cap and run engine until normal operating temperature is reached. Check to be certain there are no leaks and coolant is circulating properly.



### STEP 13

- Shut off engine, allow to cool, remove radiator cap and top off radiator with additional coolant mixture.