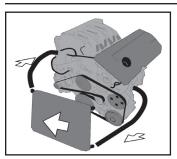
# **Water Pump**

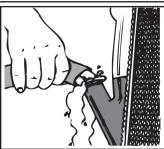
#### **Installation Instructions**

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



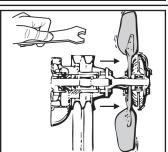
## STEP 1

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



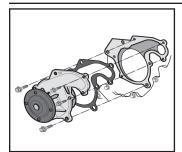
## STEP 2

• Drain coolant from radiator and engine block.



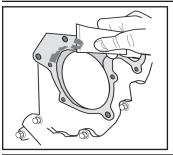
#### STEP 3

 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.



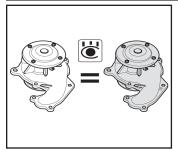
# STEP 4

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



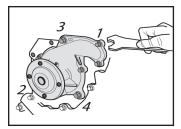
# STEP 5

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



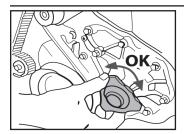
## STEP 6

• Compare pumps to be certain they match.



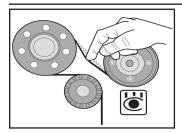
## STEP 7

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



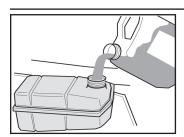
## STEP 8

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



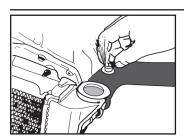
## STEP 9

 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.



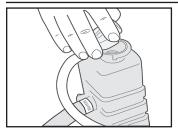
# **STEP 11**

• 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.