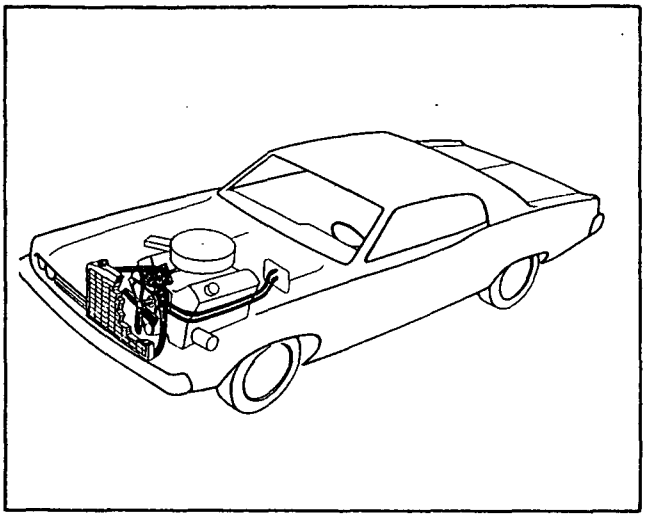
THE WATER PUMP



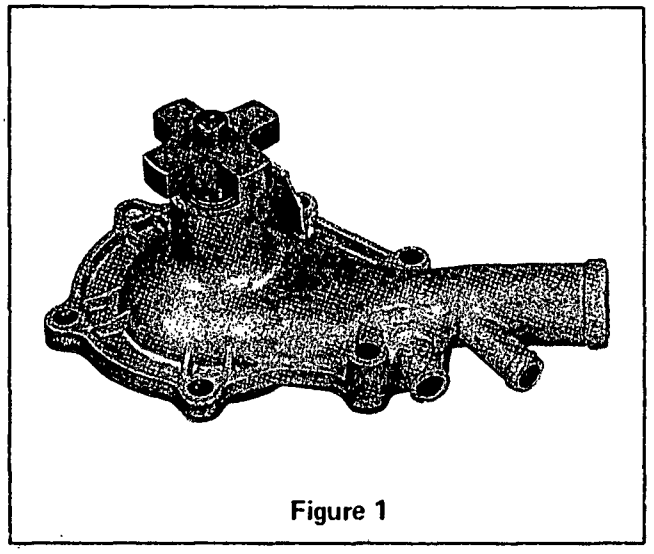


Figure 1

A WATER PUMP (Figure 1) is needed to force the coolant through the cooling system. The water pump is the "heart" of the cooling system. Just as the human heart circulates blood through the body, the water pump circulates water through the engine.

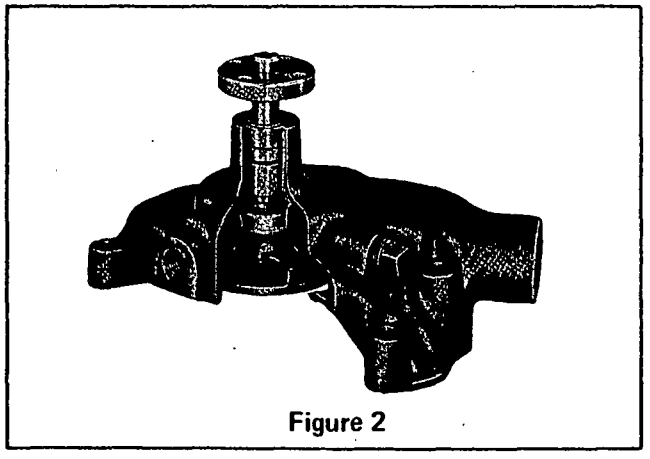


Figure 2

An IMPELLER-TYPE PUMP (Figure 2) is used on the auto engine. An impeller pump is basically a cast iron plate which has "vanes" or "fans" attached to it. (Figure 3). When the impeller whirls on its shaft, the coolant is thrown outward by centrifugal force in the same manner it is thrown outward when dropped on any whirling object (Figure 4).

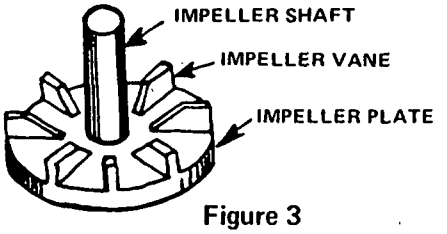


Figure 3

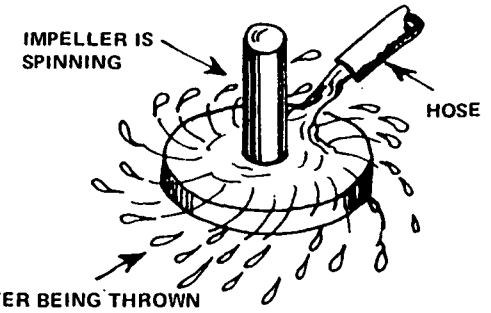


Figure 4

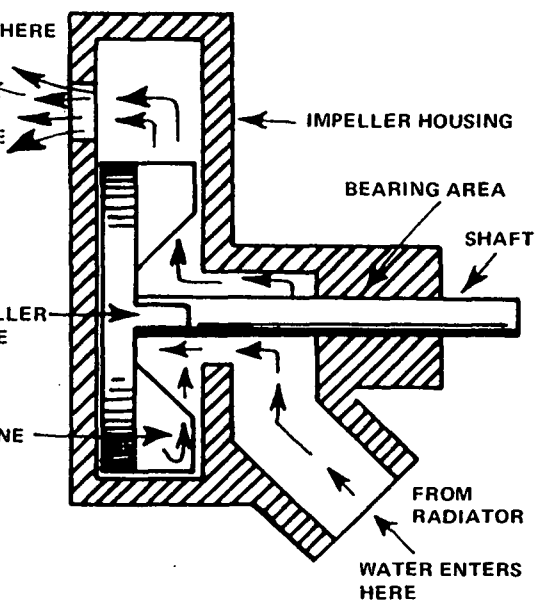


Figure 5