

Subject: Coolant Leakage At Water Pump

Application: 9000 with ■ Engine

CATEGORY	
Engine	
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■■■■■	262

Supersedes PSI ■■■■■

When attempting to diagnose a water pump leak, it is extremely important to determine where the coolant is leaking before performing any corrective action and/or replacing the pump unnecessarily.

In addition to hose connections, leakage may occur:

- ▮ at the shaft seal. This will result in coolant being evident around the weep hole. See Figure 1-3.
- ▮ at the connections between the by-pass pipe (see Figure I-I) and the water pump (see Figure 1-21).

Cars Affected:

9000 models with ■ engine up to 1990

Parts:

Action A:
 Water Pump Kit 93 21 670
 (Consists of: water pump, gasket and o-ring)

Action B:
 O-Ring 79 72 696
 Gasket 75 66 ■■■

Action:

A. If leakage can be traced to the shaft seal and this results in low coolant level in the expansion tank, then the water pump should be replaced. Order Kit P/N 93 21 670.

B. If leakage is found at the connection between the by-pass pipe (see Figure I-I), and the water pump (see Figure ■■■) then thoroughly clean the area around these parts:

1. Drain coolant.
2. Remove the water pump.
3. Loosen the bolt (see Figure 1-4) for the by-pass pipe.
4. Thoroughly clean the mating surfaces on the by-pass pipe and water pump.
5. Fit a new O-ring on the by-pass pipe. Order P/N 79 72 696.
6. Insert the by-pass pipe into the water pump and refit the pump using a new gasket.
7. Press the by-pass pipe firmly into the water pump and tighten the bolt (see Figure 1-4).
 - a. Refill with coolant.
9. Start the engine, let it run up to temperature and verify that there is no more leakage.

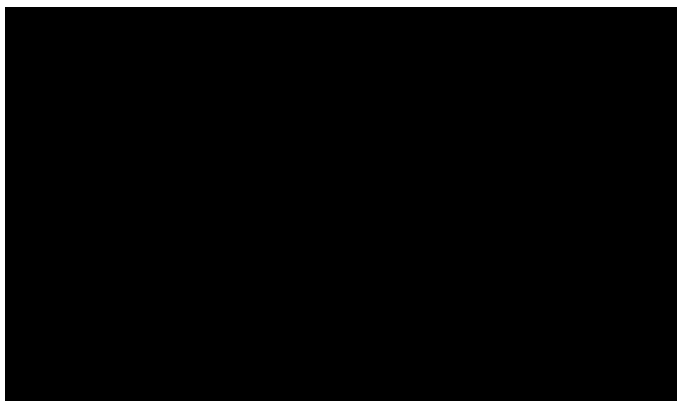


Figure 1. Areas Indicating Where Water Pump May Leak