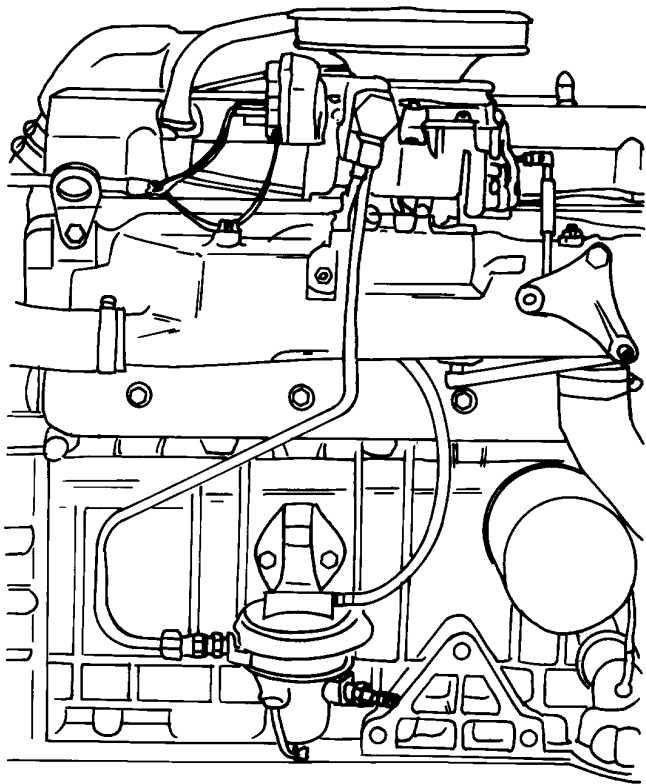


TO: SERVICE MANAGER TECHNICIANS
PARTS MANAGER

No. 87-12

Over a period of the last two years reports of vapor lock have become more and more frequent. The increase in vapor lock complaints is enhanced by the fact that today's fuels have lower vaporization points, caused by the increased use of alcohols and butanes. When you add this to a boat constructed with a tight engine compartment where residual heat is trapped when a warm engine is shut off, there is a very good chance the engine will vapor lock. Unusually warm weather in spring can also increase vapor lock problems because most areas are still using up winter blend fuels which vaporize easier than summer blend fuels.

To combat vapor lock MerCruiser is introducing a water cooled fuel line to fit the 153/181/224 CID 4 cylinder engines. This fuel line is so constructed as to surround the metal fuel line with sea water which cools the fuel and combats vapor lock.



**Figure 1. 224 CID High Volume Fuel Pump
(Part No. 42725A2)**

IMPORTANT: The water cooled fuel lines will not be available until July 1. Do not order until then as the kits will be backordered until they are available.

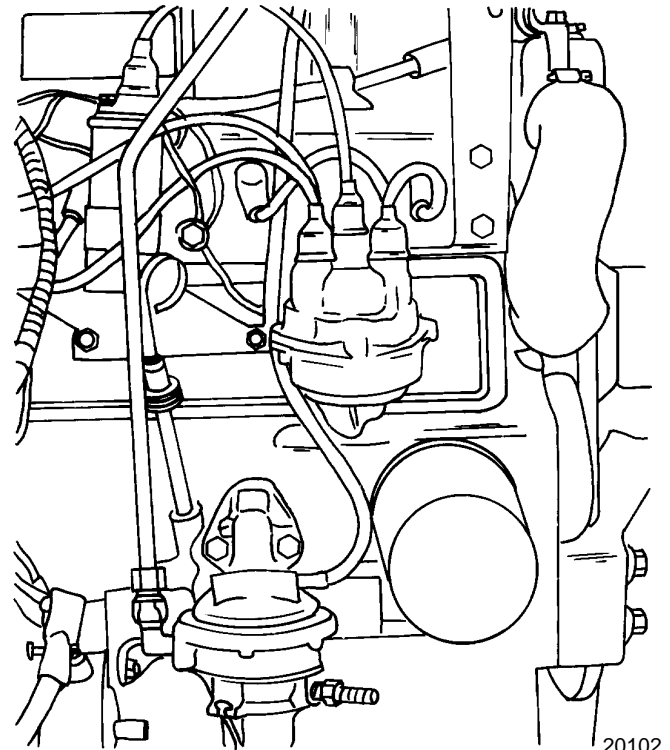
Part numbers for the water cooled fuel line kits are as follows:

| | |
|--------------------------------------|------------|
| MCM 120/140/2.5 Litre/3 Litre (Note) | 32-17870A2 |
| MCM 470/165/170/3.7 Litre (Note) | 32-17816A2 |
| MCM 488/180/190/3.7 Litre LX | 32-17869A2 |

NOTE: Water cooled fuel lines can be installed on 224 CID engines equipped with Mercarb and high volume fuel pump. (Figure 1) 153/181 CID engines must be equipped with high volume fuel pump. (Figure 2)

Labor allowance will be 1.0 hours to install the water cooled fuel line.

IMPORTANT: This is not a recall program. Water cooled fuel lines should be installed only on engines experiencing symptoms of vapor lock.



**Figure 2. 153/181 CID High Volume Fuel Pump
(Part No. 42725A5)**