

**Subject: Running Change-New Fuel Pump Assembly**

**Application: All 900 and 9000 Models with "Ejector Style" Fuel Pumps**

CATEGORY		<b>Engine</b>	
SECTION	2	PAGE	4
ISSUE	10/90-0032	CODE	234

A running change in 1990 production has altered the design of the "ejector style" (Walbro) fuel pump. The fuel supply to the ejector has been changed from the return line to the supply line. This "positive feed" supply to the ejector will make the scavenging effect of the ejector more consistent over a wide range of engine operating conditions. The positive feed system will help eliminate possible pump cavitation which could, especially in very low fuel level conditions, result in pump noise complaints and pump overheating.

The new pump design was introduced at the following VINs:

- 900 VIN L3007857-, L5003012-, L7021651-
- 9000 VIN L1020814-, L2014948-

Another change associated with the positive feed pump design is the check valve for maintaining rest pressure in the system. This valve, previously located in the pump assembly, is now integrated into the fuel line elbow fitting at the top of the pump (Figure 1).

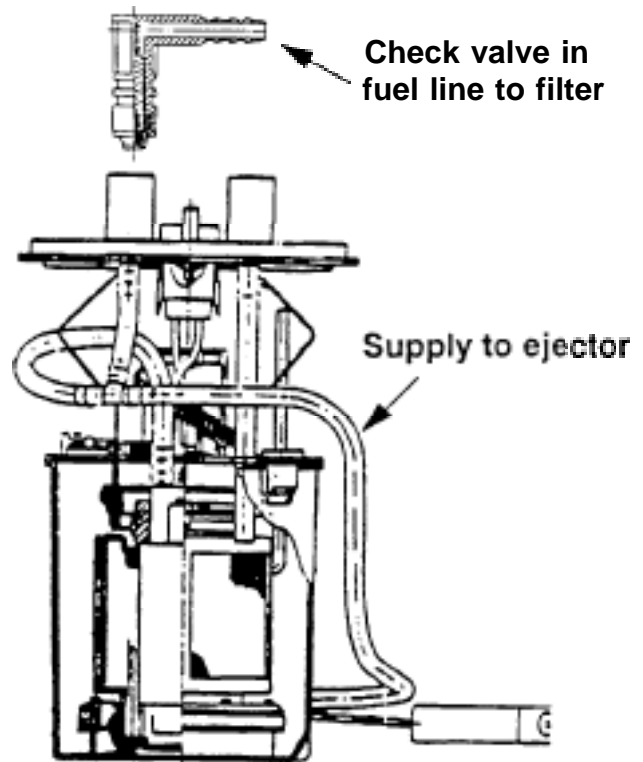
**Supersession in Spare Parts Supply**

The positive feed pump also replaces certain earlier fuel pump variants **in spare parts supply**. Instructions are included with the positive feed pump kits, however, **note the following important points:**

1. The check valve/elbow fitting must be inserted into the fuel supply line with the help of special tool P/N 83 94 546.

**NOTE**

**Do not cut off more than 12-14 mm of the fuel line when removing the previous pump fitting. Removing more than this length will necessitate fitting a new fuel pump to fuel filter fuel line.**



**Figure 1. New "Positive Feed" fuel pump assembly.**

## P.S.I. 10/90-0032

2. In the spare parts system, one fuel pump kit is applicable for both the Turbo and naturally aspirated engines even though the top cover of the pump is marked "Turbo".
  
3. The kit supplied for M90- models is fitted with the fuel level transmitter used on 9000 models. When this pump is installed in a 900, the float arm must be removed from the pump assembly. Remove the float arm as follows:
  - 1 Snap the metal arm out of the two plastic clips that fasten it to the sender unit and remove it from the hinge arm.
  
  - 1 Withdraw the plastic hinge arm and remove it from the sender unit by snipping off the thin braided wire.
  
  - 1 The remaining sender wires should be left in place as the four-pin electrical connector in the 900 has pins only in the two positions for the pump motor circuit.