SportJet 200 HP OptiMax Fuel Lift Pump (Electric)

Models Affected

<table>
<thead>
<tr>
<th>Models Covered</th>
<th>Serial Number Or Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury SportJet 200 HP OptiMax</td>
<td>S/N 0E432496 to 0E433492</td>
</tr>
</tbody>
</table>

Situation

The 2.5L 200 HP OptiMax SportJet may exhibit a no fuel condition resulting in: no start, hard to start, or the engine may stall.

Inspection

A simple fuel pump lift test, as described in the appropriate service manual section, can be used to determine if the pump is functioning to specification.

The fuel lift pump is designed to lift fuel vertically about 152.4 cm (60 in.), if there are no other restrictions in the system, using a fuel hose that is 7.9 mm (5/16 in.) minimum diameter.

As restrictions are added (such as filters, fittings, valves etc.) the amount of fuel pump lift decreases.

Fuel pump vacuum and air bubbles in the fuel supply can be checked with a vacuum gauge, a t-fitting, and a clear piece of fuel hose. Connect the clear hose between the inlet fitting on the fuel lift pump and the vacuum gauge t-fitting, keeping the t-fitting as close as possible to the pump. Connect the fuel line from the fuel tank to the remaining connection on the t-fitting.
Before proceeding with the system vacuum test, confirm that the fuel lift pump is capable of supplying the required vacuum. To do this, start the engine and pinch off/restrict the fuel supply hose between the vacuum gauge and fuel tank. The vacuum gauge should rise to or exceed the maximum normal reading of 2.5 inches vacuum (mercury). If it fails to reach this minimum number, the pump needs servicing.

Correction

If the lift pump fails the previous test, replace the 2.5L lift pump (P/N 880001A03) with the 3.0L lift pump (P/N 885555T03.)

Fuel Lift Pump Removal/Disassembly

1. Disconnect fuel pump harness connector.
2. Disconnect the fuel hose from the fuel filter.
3. Use a sharp side cutter or end cutter to peel back the end of the clamp securing the vapor separator hose. Remove hose from fuel pump.
4. Loosen the bolt securing the pump retaining clamp and remove the pump.

Cleaning/Inspection

There are no serviceable parts within the electric fuel pump. However, there is a replaceable fuel filter on the pump which should be replaced every 100 hours or once a season. Use a strap wrench to remove filter.

Reassembly/Installation

ASSEMBLY

1. Install the fuel pump inside the retaining clamp. Secure the clamp with a screw.

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<th>lb. ft.</th>
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<tr>
<td>Screw</td>
<td>16.0</td>
<td>145</td>
<td></td>
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</table>
2. Reconnect the harness connector.
3. Reconnect the fuel tank hose to the filter. Use a stainless hose clamp to secure the fuel hose.
4. Reconnect the vapor separator fuel hose to the fuel pump. Secure the hose with clamp #183. Use the clamp tool (91-803146T) to secure clamp.
5. Run the engine and check for leaks.

Part Interchangeability
Mercury Marine Service Parts has superseded P/N 880001A03 to P/N 885555T03.

Parts Required

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Description</th>
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</tr>
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<tbody>
<tr>
<td>1</td>
<td>Lift pump</td>
<td>885555T03</td>
</tr>
</tbody>
</table>

Warranty
Complete the warranty claim for the lift pump in MercNET identifying SportJet Service Bulletin 2006-01, and include a copy with your parts return for the complete kit listing:
- Lift Pump (P/N 880001A03)
- Quantity of Lift Pumps
- Labor time of 0.5 hours for diagnosis
- Labor time of 0.5 for pump replacement
- Part Code 732

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• Failure Code 00
• Warranty Flat Rate Code: SB10

**Dealer Parts Inventory**
Complete the warranty claim for the lift pump in MercNET identifying SportJet Service Bulletin 2006-01, and include a copy with your parts return for the complete kit listing:
- Lift Pump (P/N 880001A03)
- Quantity of Lift Pumps
- Part Code 732
- Failure Code 00

**Return Details**

**US AND CANADA:**
Complete/process the claim via MercNET or return a warranty claim form.

**INTERNATIONAL:**
Follow instructions issued by Marine Power International office or by an authorized Marine Power Distributor.