INSTALLATION INSTRUCTIONS:
1) MAKE SURE CYLINDER HEAD EXHAUST MOUNTING SURFACE IS FREE OF KNICKS AND ANY OLD GASKET MATERIAL IS REMOVED. SEALANT IS NOT REQUIRED ON THE 300-1413 GASKETS. FIG. A.
2) THE PORT AND STARBOARD MANIFOLDS ARE THE SAME PART AND CAN BE USED ON EITHER SIDE OF THE ENGINE.
3) INSTALL MANIFOLDS WITH THE SUPPLIED 8MM BOLTS AND WASHERS. APPLY ANTI-SIEZE TO 8MM MOUNTING BOLTS, FIG. B. TORQUE TO 20 FT. LBS..
4) APPLY LIQUID PIPE THREAD SEALANT TO THE SUPPLIED 540-222999 3/4 NPT PIPE PLUGS.
5) FIG. C SHOWS STARBOARD SIDE PIPE PLUG GOES INTO THE FRONT OF THE MANIFOLD. REMOVE YOUR ORIGINAL MERCURY FITTING AND INSTALL INTO THE REAR PORT. SEE PICTURES 9 & 10 THAT SHOWS HOW TO CUT YOUR ORIGINAL HOSE AND INSTALL THE HOSE EXTENSION WE SUPPLY.
6) FIG. D SHOWS PORT SIDE PIPE PLUG GOES INTO THE REAR OF THE MANIFOLD. REMOVE YOUR ORIGINAL MERCURY FITTING AND INSTALL IN THE FRONT PORT. SEE PICTURES 7, 8 & 14 THAT SHOWS HOW TO CUT AND INSTALL THE DUMP VALVE HOSE EXTENSION.
7) GO TO 620-38087 TAILPIPE INSTRUCTIONS TO CONTINUE THE INSTALLATION.

CAUTION** HARDIN MARINE MANIFOLD SYSTEMS ARE DESIGNED FOR USE ON ENGINES WITH FULL TIME CONSTANT WATER CIRCULATION AT ALL TIMES. NOTE** AFTER APPROXIMATELY 2-5 HOURS USE OR NUMEROUS ENGINE HEAT CYCLES ALL HARDWARE MUST BE RETORQUED AND OR TIGHTENED.

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INSTALLATION INSTRUCTIONS:
1) APPLY LIQUID THREAD SEALANT TO THE SUPPLIED 1" HOSE BARB FITTING & 3/4 NPT PIPE PLUGS.
2) INSTALL 1" HOSE BARB FITTINGS INTO FRONT OF THE MANIFOLDS, FIG. A.
3) INSTALL 3/4 NPT PIPE PLUGS INTO THE REAR OF THE MANIFOLDS, FIG. B.
4) APPLY ANTI-SIEZE TO THE 8 STUDS, FIG. C.
5) SLIDE GASKETS OVER STUDS, FIG. D. DO NOT USE SEALANT ON THE GASKETS.
6) INSTALL RISERS.
7) ON THE PORT SIDE RISER, INSTALL 620-38085 COMPUTER ADAPTER OVER THE REAR STUDS. MAKE SURE THE 3RD HOLE IS INBOARD MOUNTED, FIG. E.
8) INSTALL THE 620-38068 CUSHION CLAMP OVER THE REAR OUTSIDE SIDE, FIG. C.
9) THE STOCK OIL FILTER BRACKET, NOT SHOWN, WILL SLIDE OVER THE PORT SIDE FRONT STUDS, FIG. F.
10) INSTALL WASHERS AND NUTS, FIG. G. TORQUE TO 30 FT. LBS..
11) INSTALL JUMPER HOSE AND HOSE CLAMPS. STARBOARD SIDE IS SHORTER HOSE, FIG. H.

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NOTE** AFTER APPROXIMATELY 2-5 HOURS USE OR NUMEROUS ENGINE HEAT CYCLES ALL HARDWARE MUST BE RETORQUED AND OR TIGHTENED.
SEE PICTURES 7,8 & 14
PORT SIDE DUMP VALVE
MUST CUT HOSE TO FIT
SEE PICTURES 9 & 10

STARBOARD SIDE WATER INLET HOSE EXTENSION
SEE PICS 4, 5 & 6

ATTACHED TO PORT SIDE MANIFOLD REAR OUTBOARD STUD

OIL FILTER ADAPTER TO OIL BLOCK OFF ADAPTER
TITLE: SEAWARD 496 MANIFOLDS WITH STD HEIGHT RISERS

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**Title:** Seaward 496 Riser Height Dimensions

**Diagram:**
- Stock Riser
- Measure from riser flange to top of riser as shown. The chart below shows the Mercury height and the seaward kit to order.

<table>
<thead>
<tr>
<th>Mercury Riser Height</th>
<th>Seaward Kit Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-1/2</td>
<td>620-38060</td>
<td>Manifolds &amp; Std Height Risers</td>
</tr>
<tr>
<td>10-1/2</td>
<td>620-38061</td>
<td>Manifolds &amp; 2&quot; Taller Risers</td>
</tr>
<tr>
<td>14-1/2</td>
<td>620-38062</td>
<td>Manifolds &amp; 6&quot; Taller Risers</td>
</tr>
<tr>
<td>16-1/2</td>
<td>620-38063</td>
<td>Manifolds &amp; 8&quot; Taller Risers</td>
</tr>
</tbody>
</table>

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