**Longblock guidelines, 7.4L, 8.2L**

Models: 7.4GL, 7.4Gi, 7.4GSi, 740B, 740A, 8.2GL, 8.2GSi, DPX385, DPX415

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**Fuel System** | **Model** | **notes** | **Longblock part no.**
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**carb** | 740A | | 3857949
**carb** | 740B | | 3857949
**carb** | 7.4GL | | 3857949
**PFI** | 7.4Gi | HU, NC, LK | 3857949
**PFI** | 7.4Gi | BY, WT, EF | 3858957
**PFI** | 7.4GSi | | 3856688
**PFI** | DPX385 | | 3856688
**carb** | 820A | | 3856689
**carb** | 8.2GL | | 3856689
**PFI** | 8.2GSi | | 3856689
**PFI** | DPX415 | | 3856689

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**All 7.4L and 8.2L**

These long blocks do not come with intake manifolds. Re-use the intake manifold from the original engine or order a new manifold. These long blocks also come with an oil splash shield (S) in the lifter valley. This shield is part of the intake gasket seal and must be used for all applications. Discard any oil shields from the original engine or intake manifold.

Order one intake manifold gasket set (G) per engine, part numbers are:

- 3854096 - 740A, 740B, 7.4GL, 7.4Gi
- 3854095 - 8.2GL, 7.4GSi, 8.2GSi, all DPX
All of these long blocks, except 3858957, include a complete oil tube assembly and dipstick. The oil tube assemblies on earlier engines may not mount on these blocks or will give incorrect oil fill readings.

3858957 - re-use the oil tube assembly.

The picture shows how to assemble the oil tube assembly. Attach the tube assembly mounting tab (B) to the front port exhaust manifold bolt or stud.

Note! do not bend the oil tube assembly, it may change the reading of the dipstick.

The following parts also come with these long blocks:

<table>
<thead>
<tr>
<th>Part no.</th>
<th>name</th>
<th>qty</th>
<th>use</th>
</tr>
</thead>
<tbody>
<tr>
<td>3852117</td>
<td>stud</td>
<td>2</td>
<td>lift brackets</td>
</tr>
<tr>
<td>856917</td>
<td>bearing</td>
<td>1</td>
<td>crank, 290 drive, inboard</td>
</tr>
<tr>
<td>3850571</td>
<td>stud</td>
<td>2</td>
<td>ground</td>
</tr>
<tr>
<td>3852140</td>
<td>stud</td>
<td>8</td>
<td>exhaust manifold</td>
</tr>
<tr>
<td>3853274</td>
<td>stud</td>
<td>6</td>
<td>coupler, SX, DP-S drive</td>
</tr>
</tbody>
</table>

Order 6 ea. 3853273 for locknuts for coupler.
740A

3857949 does not have a boss to mount the mechanical fuel pump. Order fuel pump kit 385577 to convert the engine to an electric pump. Instructions are included in the kit.

The oil line adapter from the 740A will not work on the new long block. Order the parts shown in the picture to change the adapter.

Remove/discard the connector that comes with the block. Use 857257. Do not remove the oil pressure relief valve above the connector.

There are two 1/8-27 NPSF holes in 857258, these must be plugged.

Output may be slightly higher.

7408, 7.4GL

3857949 is a direct replacement. Output may be slightly higher. See parts catalogs for needed gaskets and seals.

7.4Gi, early version;

PFI engines with flame arrestor on front. all HU engines and NC spec. numbers 3868282, 3868335, 3868450;

3857949 is a direct replacement, except for the ECM. Order new ECM 3858735. The original ECM will not function correctly on the long block. Output may be slightly higher with longblock and new ECM.

NC spec. numbers 3868527, 3868528, 3868529 and all LK engines; Direct replacement. See parts catalogs for needed gaskets and seals.
7.4Gi, later version;
PFI engines with flame arrestor on starboard side.
3858957 is a direct replacement.
See parts catalogs for needed gaskets and seals.
3858957 can not be used to service any other 7.4L engine.

7.4GSI, DPX385;
all HU engines and NC spec. numbers 3868198, 3868509;
3856688 is a direct replacement except for the ECM.
Order new ECM 3855764.
The original ECM will not function correctly on the long block.
Output may be slightly higher with long block and new ECM.
NC spec. numbers 3868558, 3868560 and all LK, BY, WT and EF engines;
Direct replacement.
See parts catalogs for needed gaskets and seals.

8.2GL, 8.2GSI, DPX415;
3856689 is a direct replacement for 8.2 GSi and DPX415 engines.
3868869 is also used for service of the MD 8.2 GL engine.
See parts catalogs for needed gaskets and seals.