 NOTICE! Please read and understand Parts Bulletin P-21-0-1 before ordering any parts or longblocks. Bulletin P-21-0-1 contains important information that applies to all gas engine longblock service.

**4.3L Models covered by this bulletin;**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>3869114</td>
<td>4.3GXi-A</td>
</tr>
<tr>
<td>3869055</td>
<td>4.3GiPEFS</td>
</tr>
<tr>
<td>3868998</td>
<td>4.3GiJBYA</td>
</tr>
<tr>
<td>3868955</td>
<td>4.3GiJWTR</td>
</tr>
<tr>
<td>3868954</td>
<td>4.3GSJWTR</td>
</tr>
<tr>
<td>3868943</td>
<td>4.3GIPWTR</td>
</tr>
<tr>
<td>3868942</td>
<td>4.3GSPWTR</td>
</tr>
</tbody>
</table>

The current longblock for these engines is **21165946**. The previous longblock, 3862055 is no longer available from the supplier and is now replaced by new longblock 21165946.

The following parts **are not included** with 21165946;
- Circulation pump
- Intake manifold
- Flywheel

The existing parts from the original engine should be reused if they are in good condition. If not new parts must be ordered to complete the installation.

The Crankshaft sensor is **not included** with the new longblock. Move the sensor from the original engine to the longblock.

**NOTICE!** Install sensor with o-ring. If original o-ring is worn or damaged, replace. See catalog for o-ring PIN.

On GL/GS models the sensor is installed in the timing cover but is not electrically functional. The sensor is not connected to the engine harness. The sensor is needed to seal the timing cover and crankcase.
The following parts come with 21165946:

<table>
<thead>
<tr>
<th>Part no.</th>
<th>name</th>
<th>#</th>
<th>use</th>
</tr>
</thead>
<tbody>
<tr>
<td>3853273</td>
<td>locknut</td>
<td>6</td>
<td>coupler studs</td>
</tr>
<tr>
<td>3853274</td>
<td>stud</td>
<td>6</td>
<td>coupler, SXjDP-Sj XDP</td>
</tr>
<tr>
<td>3857937</td>
<td>stud</td>
<td>2</td>
<td>ground</td>
</tr>
</tbody>
</table>

21165946 is painted red.
All from list except 4.3GXi-A were painted dark charcoal.
For dark charcoal paint order:
3851221, OAL spray can

21165946 comes with high quality spark plugs designed for late model ignitions.
The plugs are gapped (G) at 0.060" (1.52mm). These plugs will work correctly in these engines, however the plugs will have to be re-gapped to match the ignition on the original engine.
All from list except 4.3GXi-A, plug gap is; 0.045" (1.14mm).
The plug gap for 4.3GXi-A engines is; 0.060" (1.50mm), no re-gap is needed.

21165946 has no intake manifold. The intake from the original engine must be moved to the longblock.
For Gi and GXi engines order the following gaskets and seals:
1 ea. 3850423 o-ring, fuel pump
1 ea. 3850424 o-ring, fuel pump
1 ea. 3851981 seal, oil fitting
1 ea. 3852109 gasket, distributor
1 ea. 3852111 gasket, thermo housing
2 ea. 3853412 gasket, exh. manifold
1 ea. 3853674 o-ring, oil fitting ret.
1 ea. 3855807 gasket, intake set
1 ea. 3852479 o-ring, pwr. strg. line
1 ea. 3850405 gasket, TBI adapter
1 ea. 3850355 gasket, TBI to adapter

For GS engines order the following gaskets and seals:
1 ea. 3851981 seal, oil fitting
1 ea. 3852109 gasket, distributor
1 ea. 3852111 gasket, thermo housing
2 ea. 3853412 gasket, exh. manifold
1 ea. 3853674 o-ring, oil fitting ret.
1 ea. 3855807 gasket, intake set
1 ea. 3852479 o-ring, pwr. strg. line
1 ea. 3852437 gasket, carb adapter
1 ea. 3853497 gasket, carb to adapter

Remove intake and fuel system from original engine. If possible remove as an assembly.
Gi, GXi - Disconnect fuel lines at fuel pump end, not TBI end.
Discard intake gaskets.
Save intake/fuel assembly, intake screws.
Inspect all saved parts for condition, replace as needed.
Clean all saved parts with brush and cleaning solvent.
Do not immerse intake/fuel assembly in cleaning solvent.
Install gasket, sealer and intake assembly on longblock.

*NOTICE!* Engine failure may occur if intake is not installed correctly on longblock.

Check Workshop Manual 7743365 covering 4.3L Engine Mechanical for the procedure for the sealer (S) and torquing the bolts (T) on the intake. Both procedures are critical and must be followed.

Continue with longblock installation.