

LS Classic Series By Lokar Gen IV Valley Plate Installation Instructions

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General Installation Notes:

Please read these instructions completely before beginning the installation. If you have any questions, please call.

Before beginning the installation, disconnect the negative battery cable and use wheel chocks to block the vehicle's wheels.

We recommend using anti-seize lubricant on all aluminum threads.

Refer to Fig. 1 and Fig. 2 for the component names.

If you will be applying any sort of a finish (paint, powder coat, etc.) to the new Valley Plate or hardware, do so before beginning the installation.

Step 1: If applicable, remove the intake manifold from the engine and disconnect the oil pressure sensor. Remove the oil pressure sensor from the valley plate, and remove the valley plate.

Step 2: Make sure the valley plate sealing surface on the engine block is clean.

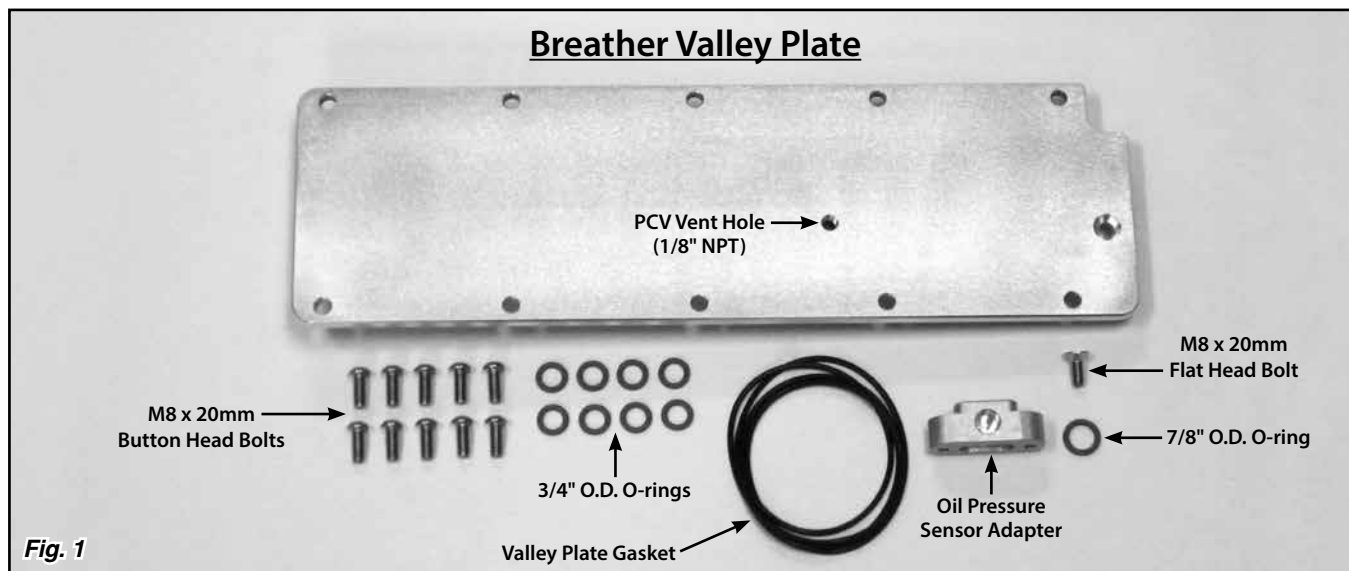
Step 3: Install the provided valley plate gasket into the groove around the perimeter of the new Valley Plate. Install the provided 3/4" O.D. O-rings into the eight round grooves in the center area of the Valley Plate. Install the 7/8" O.D. O-ring into the groove at the original oil pressure sensor port near the driver side rear corner of the Valley Plate. **Fig 3**

NOTE: The O-rings above are CRITICAL to prevent engine damage. Make DOUBLY sure that all of the O-rings are installed properly!

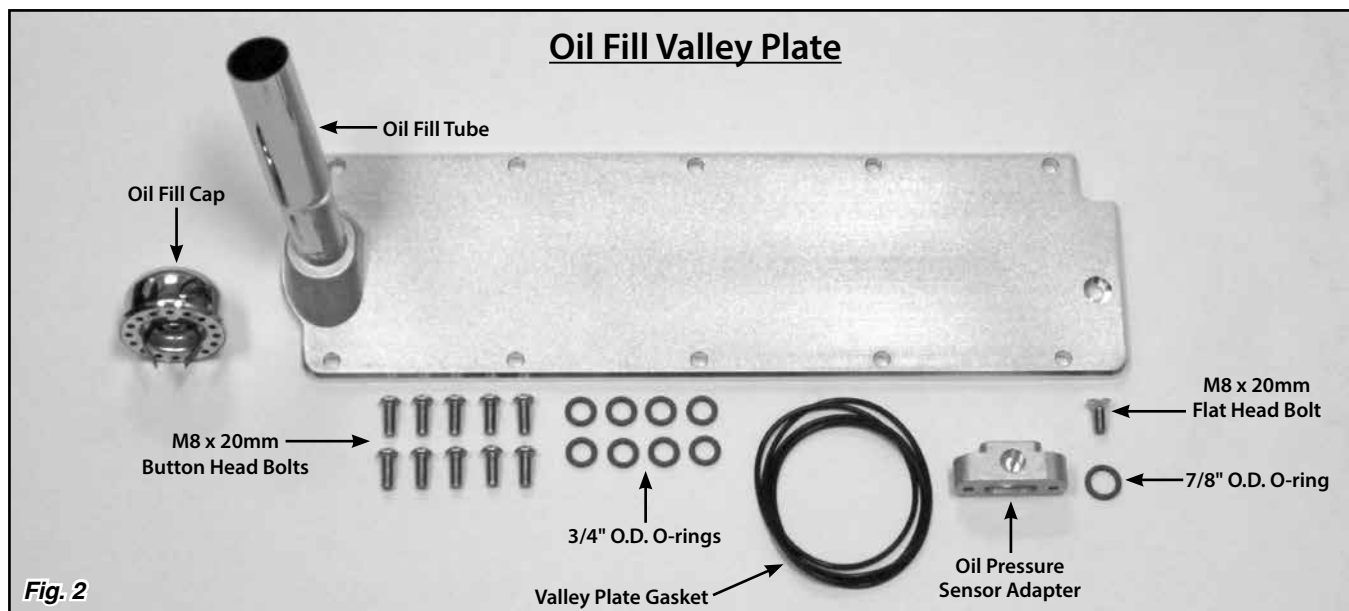
Step 4: Place the new Valley Plate into position on the engine block. Install the ten M8 x 20mm button head bolts, and snug them down finger tight. Then, install the M8 x 20mm flat head bolt in the countersunk hole at the rear of the valley plate.

Starting in the center and working your way out in a crisscross pattern, torque the bolts to 18 lb.-ft. using a torque wrench with a 5mm hex bit.

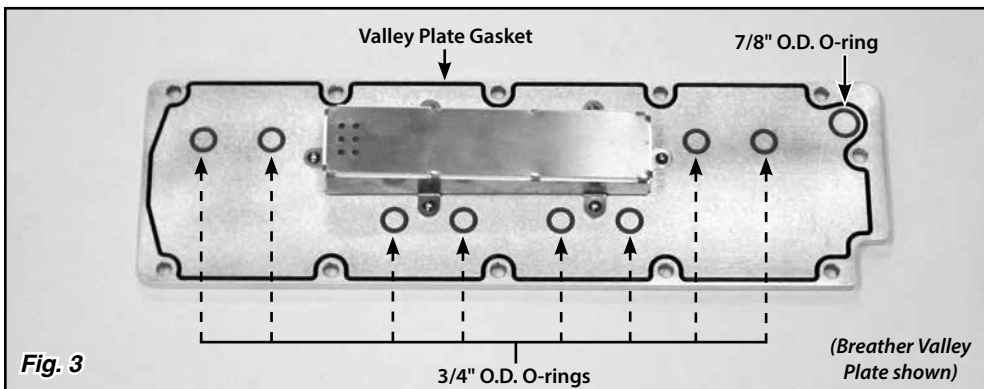
Breather Valley Plate



Oil Fill Valley Plate



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Step 5, With Breather: In the PCV vent hole, install a 1/8" NPT 90 degree nipple of the appropriate size to connect to your PCV system. Connect the proper PCV hose to the PCV fitting. **Fig. 4**

Step 5, With Oil Fill Tube: The oil fill cap serves as a breather, and a PCV valve is not required. Install the oil fill cap by pushing it down into the top of the oil fill tube. **Fig. 5**

Step 6: Remove the oil cooler block-off plate from the oil pan, just above the oil filter. **Fig. 6**
Clean and dry the gasket mating surface on the oil pan.

Step 7: Install the oil pressure sensor adapter onto the oil pan, using your original bolts and gasket. Install your original oil pressure sensor into the oil pressure sensor adapter. **Fig. 7**

Step 8: Reconnect your oil pressure sensor's electrical connector.

Step 9: Reinstall your intake manifold.

