

**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.

Make sure the engine, transmission, body and frame are properly grounded. We recommend using anti-seize lubricant on all aluminum threads.

**Refer to Fig. 1 for the component names.**

These Valve Covers come with a carbon fiber pattern insert to go in the recess in the valve cover frame. A custom insert may be created out of a different material if you like. The valve cover frame may also be painted or powdercoated.

**Step 1:** Remove the existing valve covers if they have not been removed yet. Make a note of the location of the original oil filler cap. Keep the original valve cover bolts for re-use.

**Step 2:** Clean the gasket surfaces of the cylinder heads. Make sure they are dry and free from oil or grease.

**Step 3:** Install new valve cover gaskets (not included) into the grooves on the bottom of the valve cover bodies.

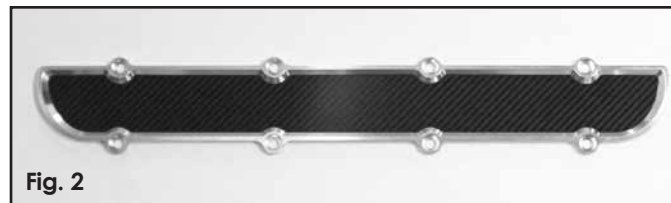
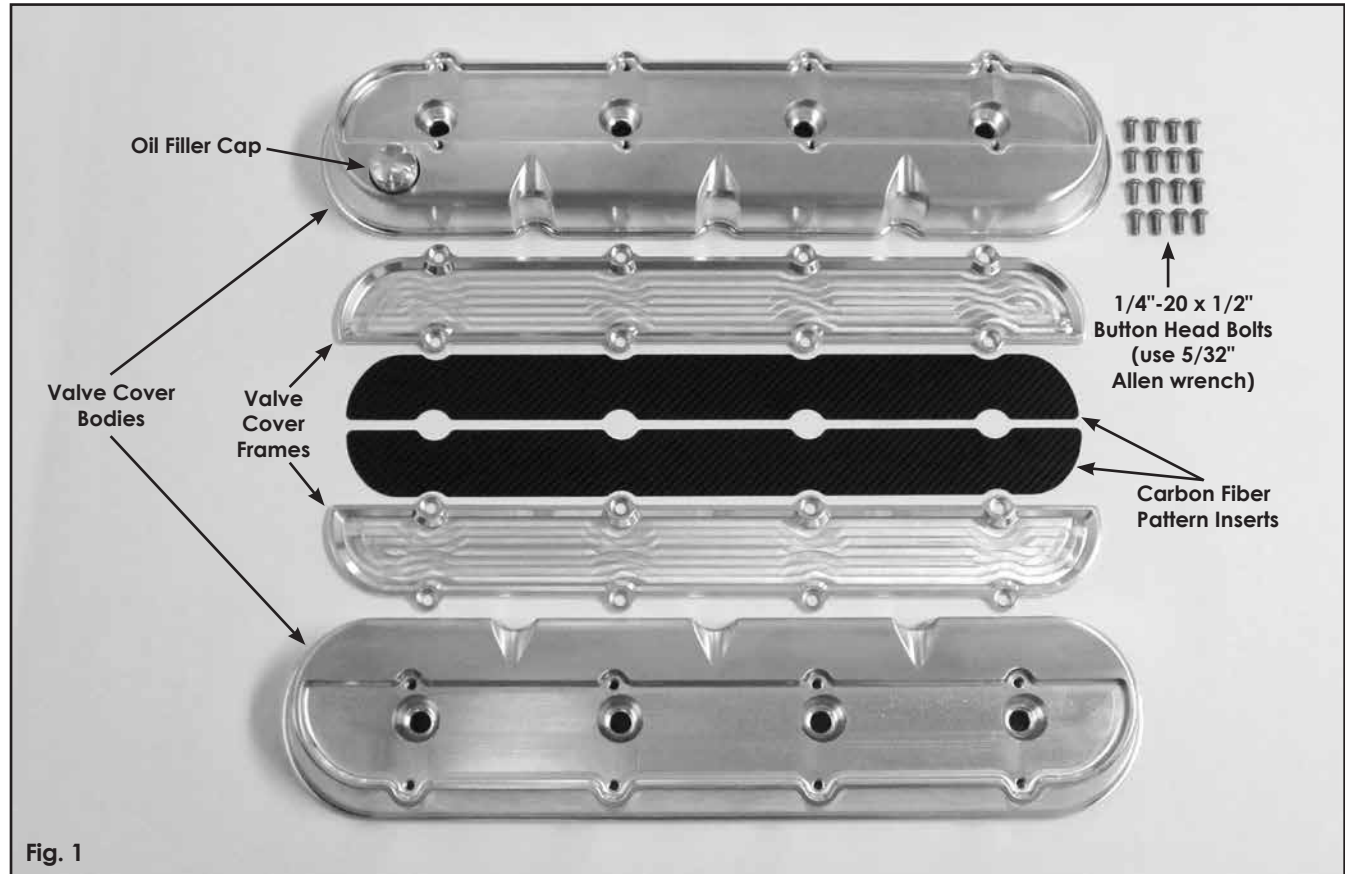
**Step 4:** Place the valve cover body with the oil filler cap into position on the proper cylinder head. Reinstall the original valve cover bolts and just snug them down evenly to start. Then, starting with the two center bolts, torque the valve cover bolts to 106 lb.-in. (or 9 lb.-ft.).

**Step 5:** Place the other valve cover body on the other cylinder head. Reinstall the original valve cover bolts and just snug them down evenly to start. Then, starting with the two center bolts, torque the valve cover bolts to 106 lb.-in. (or 9 lb.-ft.).

**Step 6:** If you are using the provided carbon fiber pattern inserts, remove the paper backing from the inserts. Place each of them into the valve cover frames with the adhesive facing the valve cover frame. Press the inserts firmly into place in the valve cover frames. **Fig. 2**

If you are using your own custom inserts, place them into each of the valve cover frames.

**Step 7:** Place each of the valve cover frames onto the valve cover bodies. Install the four 1/4"-20 x 1/2" button head bolts into each Valve Cover, and tighten using a 5/32" Allen wrench. **Fig. 3**



**CLAYTON  
MACHINE  
WORKS**

**LS Valve Covers  
Installation  
Instructions**



**865 - 824 - 9778**