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# INSTALLATION MANUAL

## AEROFLOW PERFORMANCE

### GM LS VALVE COVERS

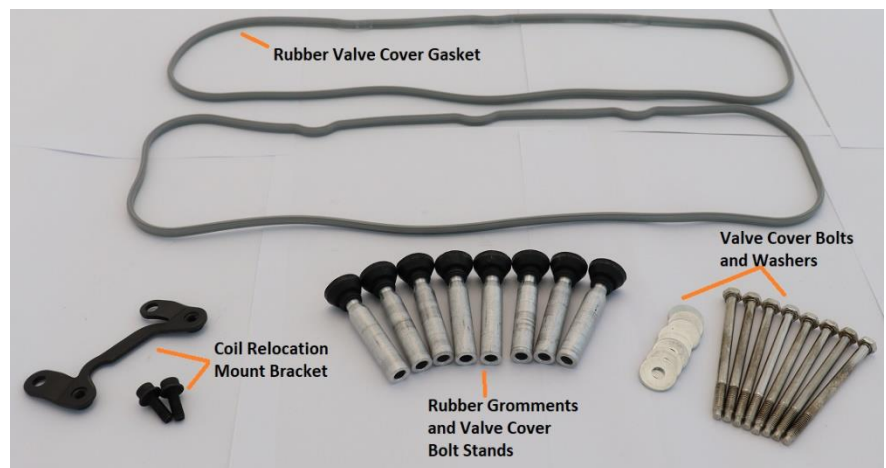
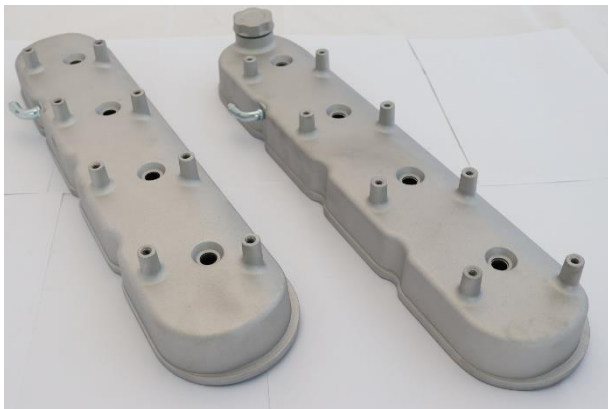
## WARNING!

BEFORE PROCEEDING WITH INSTALLATION PLEASE READ INSTRUCTIONS CAREFULLY. THIS PRODUCT REQUIRES DETAILED KNOWLEDGE OF AUTOMOTIVE SYSTEMS. WE RECOMMEND THAT THIS INSTALLATION BE CARRIED OUT BY A QUALIFIED AUTOMOTIVE TECHNICIAN.

### INTRODUCTION

Congratulations on your purchase of Aeroflow Performance GM LS valve covers. Aeroflow Performance products cannot and will not be responsible for any damage, or other conditions resulting from misapplication of the parts described herein. However, it is our intention to provide the best possible products for our customer, products that perform properly and satisfy your expectations. Should you have any questions? Please call technical support at +61 2 8825 1900 and have the product part number on hand when calling.

Cast aluminium valve covers are a great way to improve and refine the look of your LS engine, without any radical changes to its configuration. These Aeroflow Performance valve covers allow you to bolt the factory coils back into the factory position but without the brackets required on the OE covers. These valve covers were designed to add an additional 13mm of internal clearance over the factory height valve covers. It also features a baffled stock-style ventilation set-up and oil fill cap while also retaining the factory gaskets and bolts. Fits all LS engines using LS2, LS3, LS7 or similar coils with 72mm bolt spacing.

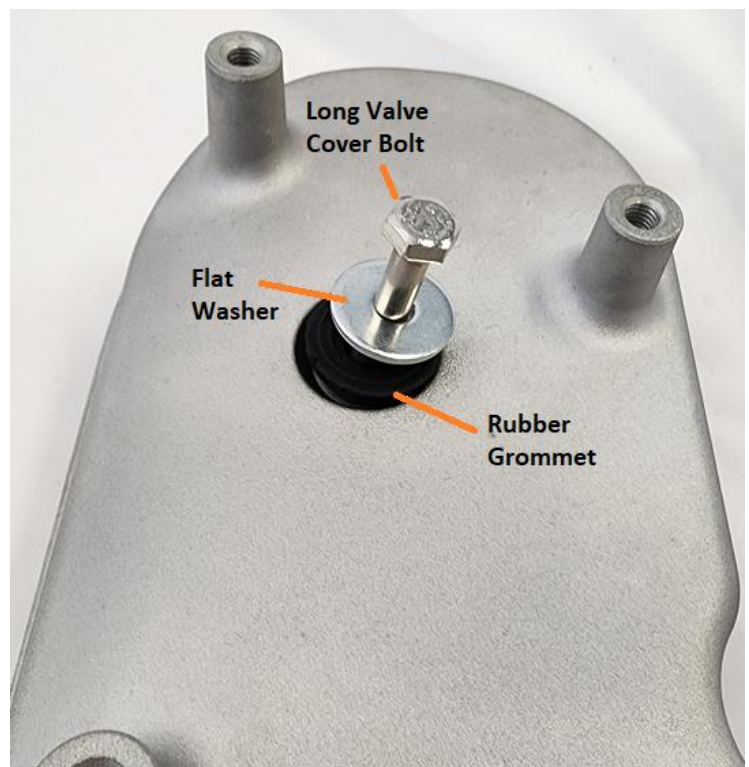
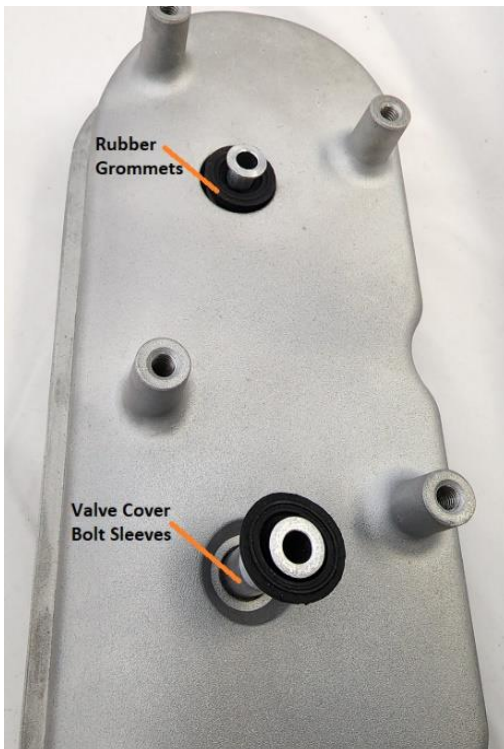


## INSTALLATION

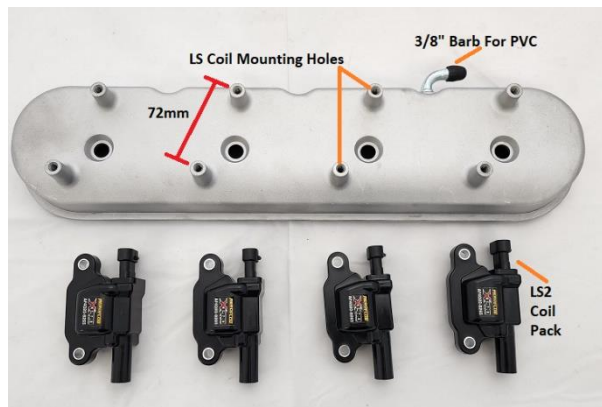
1. Disconnect the battery cables from the battery to ensure a safe work environment.
2. Disconnect the spark plug wires from the plugs and ignition coils and set aside.
3. Disconnect the ignition coil connectors that come from the engine harness and label them to each cylinder number to ensure each connector is not mismatched.
4. Remove the ignition coils from the valve covers and mounting bracket.
  - I. **Set the ignition coils to the side to be reused.**
  - II. **The mounting bracket will not be required for these valve covers.**
5. Remove the PCV hose from the valve cover.
6. Loosen the valve cover bolts and remove valve covers and gaskets.
7. Once the valve covers have been removed from the engine ensure to cover the engine valve train so that nothing falls in the cylinder head. Clean down the surface of the head where the valve cover gasket goes and remove any old gasket material.
8. Ensure to always use the new valve cover gasket to prevent any leaks which is included in this kit. The gaskets will be slightly long as compared to the grooves and will need to be evenly worked around the cover distributing the extra length. Press firmly to properly seat the gasket.



9. Install the new valve cover bolt sleeves by carefully working the new grommets into the valve covers until they are fully seated into each opening.



10. Place the new valve cover on the cylinder head making sure the gasket remains seated in the valve cover groove. Evenly torque the cover bolts to 9 ft. lbs (12 Nm).
  - I. These valve covers are designed to be used with rocker arms and lift ratios compatible with stock valve covers. If using aftermarket valve train components, refer to the manufacturer's instructions for compatibility.
11. Remove the individual ignition coils from the original bracket and install each onto the valve covers. Torque the coil bolts to 9 ft. lbs (12 Nm).
  - I. For applications with high-mounted driver's side alternators, the supplied offset bracket kit should be installed.
  - II. The OEM coil pack mounting bolts can be used from the factory mounting bracket. Alternatively, you can purchase separately M6 x 1.00mm (UHL 25mm) bolts to suit.



12. Remove the coil harnesses from the original brackets and plastic conduits. Reconnect the coil harnesses to the coils. Make sure the coil harnesses are not switched to the opposing sides. If harnesses are accidentally switched, the firing order will be wrong. Neatly tuck the harnesses into the engine valley and retain with wire ties.
13. Reinstall the spark plug wires and rotate the boots for maximum exhaust clearance and visual appeal.
14. Make sure all electrical connections are secure and reconnect the battery.
15. Start the vehicle and verify that there are no oil leaks.

*For more information or technical enquires*

*Contact: Aeroflow Performance on*

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