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# INSTALLATION MANUAL

## AEROFLOW PERFORMANCE

### 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.

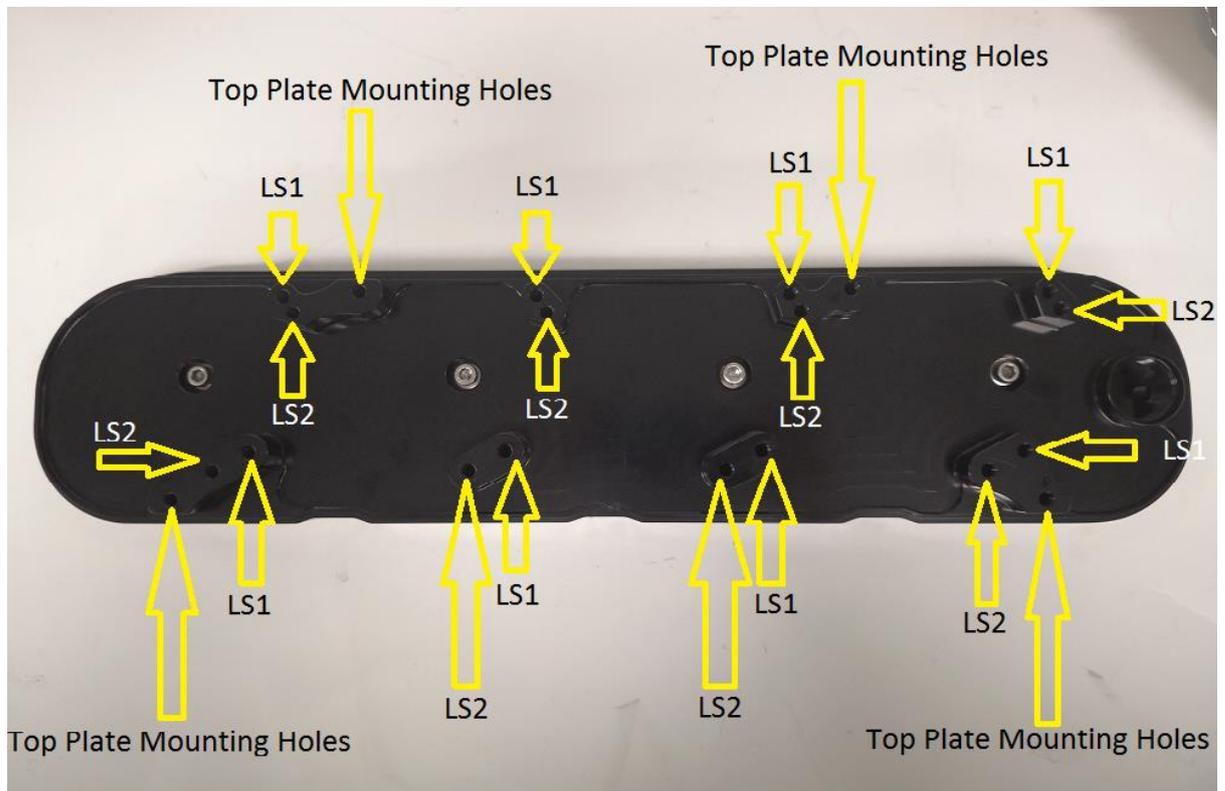
### INTRODUCTION

Congratulations on your purchase of Aeroflow Performance LS Chev retro 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.

This product is designed to suit your LS Chev motor and will allow both LS1/LS6 and LS2/LS3 coils to be bolted up and hidden away. **Note:** This product will require an aftermarket PVC system as it removes the factory valve covers and factory barb option. It features x 1 female -6 ORB on each cover for custom plumbing options.

### 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.
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. Lay one of the coils mounting plates down on a clear work bench. Take the four ignition coils and lay them on top of the coil mounting plate so they are centred into the correct threaded holes. Below is a picture of both LS1 style and LS2/LS3 style coils bolted down to the mounting plate. And a photo showing which threaded hole is suited to what purpose.



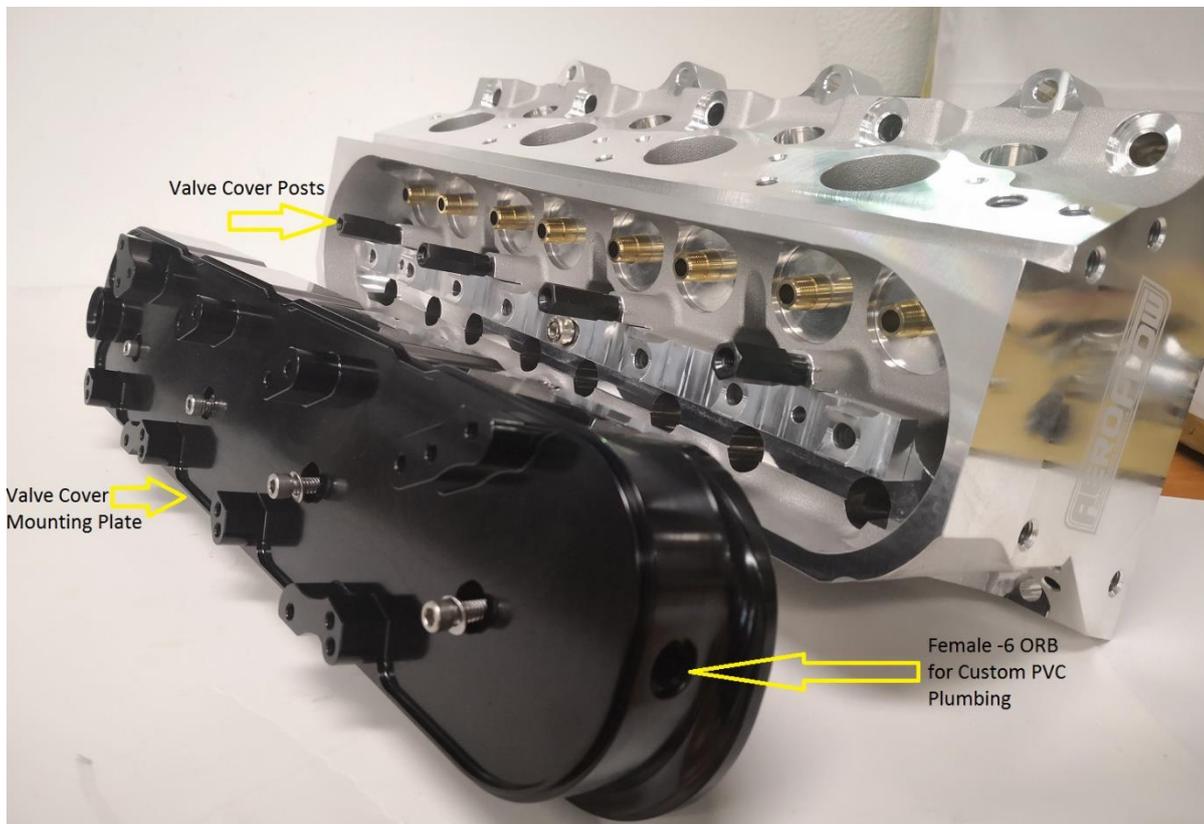
## LS1 Style Coil Packs



## LS2 Style Coil Packs



9. Once all coils have been bolted down and it now ready to bolt down to the engine. Ensure to always use a new valve cover gasket to prevent any leaks (Sold Separately).
10. Take four of the posts from the kit and screw them down into the head. These posts allow the mounting plate to bolt down and seal to the head surface. Torque posts to 5.90 ft. lbs (8 Nm).



11. Install mounting plate with coils attached using the allen key socket cap screws (UHL 31 mm) and torque down to 8 ft. lbs (10 Nm).
12. Connect the ignition coil connectors to their corresponding coils as you labelled them earlier.
13. Now you should have both adaptors mounted and bolted down, the ignition coils mounted to the coil adaptors and connected to the engine harness and fittings in the adaptors.
14. Install ignition leads to coil side and install top plate of valve covers using the allen key socket cap screws (UHL 31 mm) and torque down to 8 ft. lbs (10 Nm). Install the other end of the ignition leads to the spark plug.
15. Reconnect battery cables and fire up the vehicle and check for any misfires.



*For more information or technical enquires*

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