

## Fitting Instructions – IGNITE 2.5" & 3" Exhaust System Installation Guide

Vehicle Application: VE/VF Holden & HSV Commodore

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### Before You Begin:

Ensure the vehicle is securely parked on a flat surface and safely supported. Always allow the exhaust system to cool down before commencing removal or installation.

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### Installation Steps

- 1. Safety First:** Before beginning installation, disconnect the vehicle battery. Welding is required when fitting the exhaust tips.
- 2.** Remove the factory rear mufflers. On some VF models, the bi-modal valve connectors may need to be unplugged prior to removal.
- 3.** Disconnect the secondary O2 sensors before removing the factory centre section. Once disconnected, unbolt and remove the centre section.
- 4. Cat-Back Only Purchases:**

If you have purchased the *Ignite Cat-Back System*, install the new cat-back connector pipes using the factory gaskets and nuts.

Once complete, proceed to **Step 19**.

If you have purchased the *full exhaust system*, continue to **Step 5**.
- 5.** Unplug the pre-cat O2 sensors. Unbolt and move the steering shaft upward to gain clearance.
- 6.** From the engine bay, remove the engine cover and air intake assembly.
- 7.** Carefully remove the spark plug leads (pull on the metal shield, not the lead itself).
- 8.** Using a 15mm socket, unbolt and remove the dipstick. Note its orientation prior to removal to ensure easier reinstallation later.
- 9.** (Recommended but not required) Remove the spark plugs before unbolting the manifolds to reduce the risk of breakage.
- 10.** Using a 13mm socket, unbolt and remove the factory manifolds, taking care not to shear any bolts.
- 11.** Loosely position the new header gaskets using two manifold bolts—one at each end—to hold them in place.

12. Before installing the headers, fit the O2 sensor extensions to them.  
Install the headers from underneath the vehicle, guiding them up into the engine bay and allowing them to hang on the bolts.  
*For the right-hand side, ensure the steering shaft is pushed upwards for additional clearance.*
13. Insert the remaining manifold bolts and tighten securely.
14. Reinstall the steering shaft. Connect the O2 extensions to the factory plugs (use extension looms if required).
15. Reinstall the dipstick in the same orientation as removed. Ensure it is fully seated.
16. Refit the spark plugs and spark plug leads.
17. Reinstall the air intake and engine cover.
18. From beneath the vehicle, install the high-flow catalytic converter sections using the supplied 3/8 UNC nuts and bolts (leave finger-tight at this stage).  
Install the secondary O2 sensors and use extension looms if needed.  
Secure all wiring looms with cable ties to prevent contact with hot or moving components.
19. With assistance, install the centre section using the supplied hardware and gaskets. Leave finger-tight until final alignment.
20. Loosely fit the double-prong muffler hangers to the new mufflers. Install the mufflers using the supplied nuts, bolts, and gaskets.
21. Tighten the entire exhaust system **from front to rear**, ensuring proper clearance throughout.
22. With the rear muffler hangers still loose, adjust the mufflers to the desired position, then tighten the hangers.  
For HSV models that do **not** require exhaust tips, proceed to **Step 24**.
23. With assistance, install the chrome exhaust tips. Each tip requires a small stitch weld on both sides to secure its position.
24. Perform a final visual inspection to confirm all components have adequate clearance and all wiring looms are safely tied away from heat and moving parts.
25. Once satisfied, start the vehicle and check all joints for exhaust leaks.
26. Vehicles fitted with the **full exhaust system** will require an ECU tune.
27. **Enjoy your IGNITE Exhaust System!**