



# Installation Instructions

## VLOM Cavity Plug

Part Number: Part #1300484

Support: [help@pnptechworks.com](mailto:help@pnptechworks.com) or 513-330-5358

## Vehicle Applications:

2014-2018 L83 (5.3L) and L86 (6.2L) GM Truck and SUV's



## Preface:

This product is intended to modify the OEM Valley Lifter Oil Manifold (VLOM). Oil pressure is supplied to the VLOM through the forward mating surface of the engine block. The VLOM has four solenoid valves that control oil pressure to the eight collapsible DoD lifters. This cavity plug is installed in place of the solenoid filter screen in the VLOM. The cavity plug will block oil pressure from the solenoids preventing them from actuating the DoD lifters. The VLOM solenoid(s) will often fail by leaking oil past them which will allow the DoD lifters to collapse uncommanded. This plug can also be used in place of lifter tower plugs when completing a DoD delete. **Custom tuning or a DoD inhibiting device is required in conjunction with this product!**



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### Instructions:

#### Step 1: Remove Intake Air Box

##### Tools Required:

- 8mm socket or nut driver

Loosen 8mm hose clamps on airbox and throttle body.

Remove the two breather hoses from the intake tube by squeezing the gray retaining clips.

Remove the intake tube from the vehicle.



#### Step 2: Loosen Intake Manifold

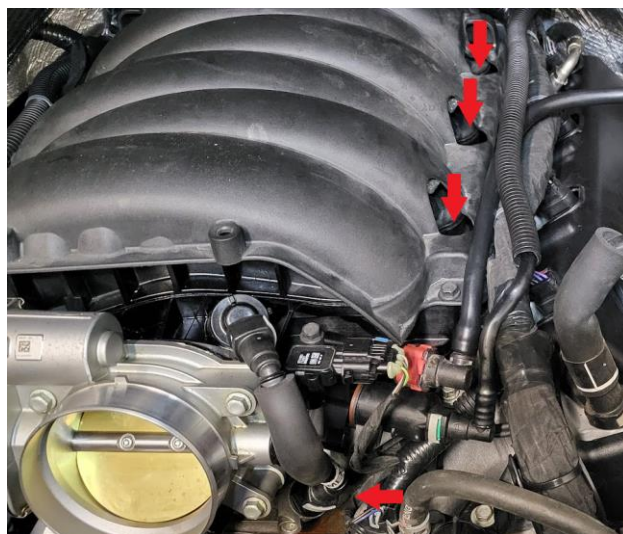
##### Tools Required:

- 10mm socket wrench

Remove the PCV hose VLOM by squeezing the gray retaining clip.

Disconnect the electrical connector to the throttle body and TMAP sensor. Slide the red lock on TB connector towards the wires before squeezing the retaining clip. Slide the blue lock on the TMAP sensor towards the intake prior to squeezing retaining clip.

Loosen 10x intake manifold bolts using 10mm socket wrench. Bolts can be accessed through manifold cover.





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### Step 3: Remove Throttle Body and VLOM Screen Hex Plug

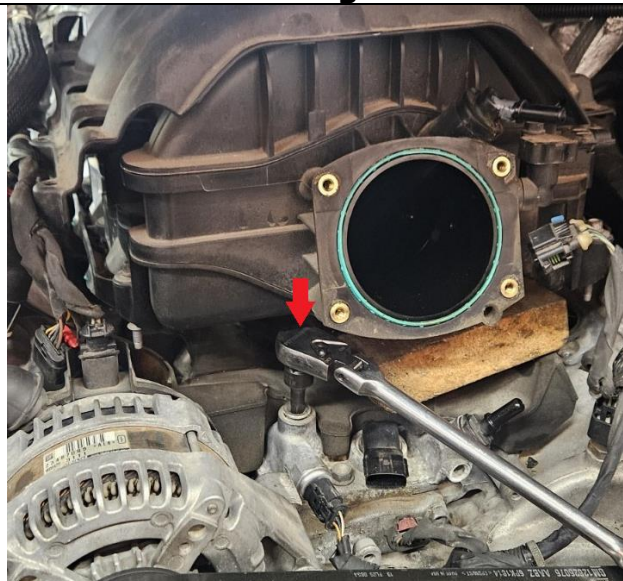
#### Tools Required:

- 10mm socket wrench
- 8mm hex socket

Remove the 4x 10mm bolts retaining the throttle body and set aside.

Lift the front of the intake manifold slightly to allow tool access to VLOM screen plug.

Remove the VLOM screen plug.



### Step 4: Remove VLOM Screen and Insert Cavity Plug

#### Tools Required:

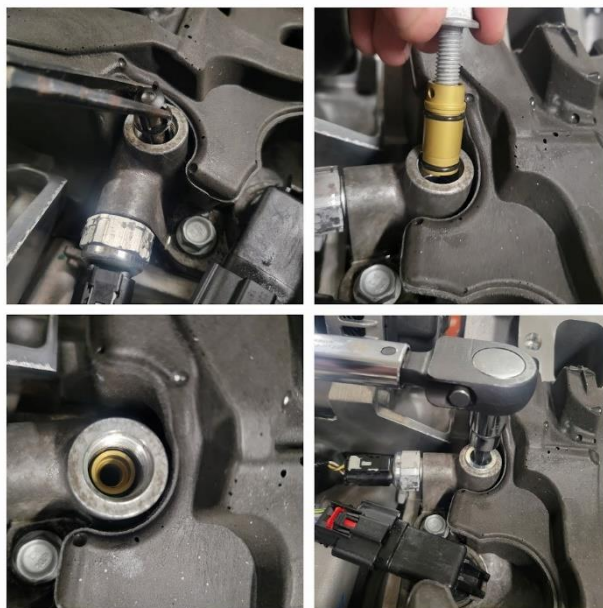
- Needle nose pliers
- Torque wrench
- 8mm Hex socket

Using needle nose pliers, remove the VLOM screen and discard.

Lightly coat the cavity plug with motor oil and insert into the bore of the VLOM.

Firmly press the cavity plug into the bore until it is fully seated.

Install hex plug and torque to **22 ft-lbs.**





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## Step 5: Reinstall Throttle Body, Intake Manifold, and Intake Tube

### **Tools Required:**

- Torque Wrench
- 10mm socket wrench
- 8mm socket wrench

Install 10x intake manifold bolts. Torque to **44 in-lbs** on first pass. Torque to **88 in-lbs** on second pass.

Install 4x throttle body bolts and torque to **88 in-lbs**.

Plug in throttle body and TMAP sensor and set locks.

Install PCV hose.

Install intake tube.