



# 860 Performance Hard-Lined LSX Steam Vent Kit

PART NUMBER 03-51001 and 03-51008

Requires at least 1-1/4" clearance between the intake plenum and engine valley cover.

## INSTALLATION INSTRUCTIONS

These installation instructions cover installing a Hard-Lined Steam Vent kit on LSX engines equipped with raised plenum floor style intake manifolds. If you do not see your intake listed below and need verification of fitment, or need technical assistance during installation, call our Tech Help Line at 254-848-4300.

### Intake Examples:

Edelbrock Victor Jr	Edelbrock Super Victor	Edelbrock Pro-Flo	BTR Trinity
All-Pro	CID Series	Mast Motorsports	Holley Single Plane Split Design
Holley Hi-Ram	Holley Sniper	Stock Plastic Gen 3 Truck	Texas Speed Sheet Metal Series
Performance Design	Texas Speed Titan Series		

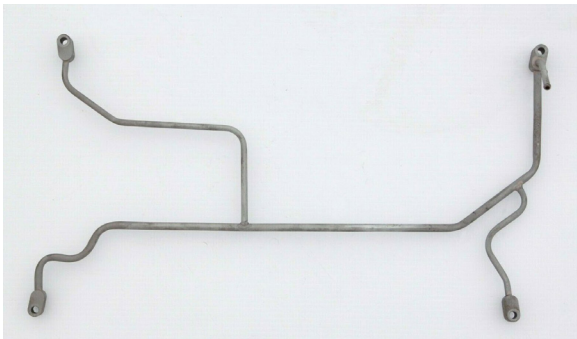
**Tools Needed for Installation\*:** • 5mm Allen Wrench • 9/16" Wrench • 3/8" Wrench • Loctite • Silicone

\*These are the tools required for installation of this kit on a stock vehicle. If your vehicle has aftermarket parts, other tools may be required.



### Step 1:

Remove intake manifold.



### Step 2:

Remove the OEM engine coolant air bleed assembly or block off blocks. There are two different OEM configurations:

Early model LS platforms had a 4-port coolant air bleed assembly that bolted to air bleed ports on the front and rear of the head.

Late model applications with non LS3 & LS7 heads have a two-port crossover connecting the front air bleed ports on the heads with block off blocks on the rear head air bleed ports.

LS3 & LS7 OEM heads have a two-port coolant air bleed assembly connecting the front air bleed ports on the heads. The rear air bleed ports have threads to bolt down the air bleed blocks, however the air bleed ports are plugged and require drilling a 1/4" passageway to install a 4-port coolant air bleed assembly.



### Step 3:

Apply a small drop of silicone lubricant to the o-ring on the vapor bleed block.

**IMPORTANT:** All appropriate safety equipment (gloves, tools etc.) must be used during the installation of this product(s).

Nitro Dave's LLC accepts NO responsibility for injuries or damages resulting during and/or from the installation of any product(s). All products are intended for off-road use only.

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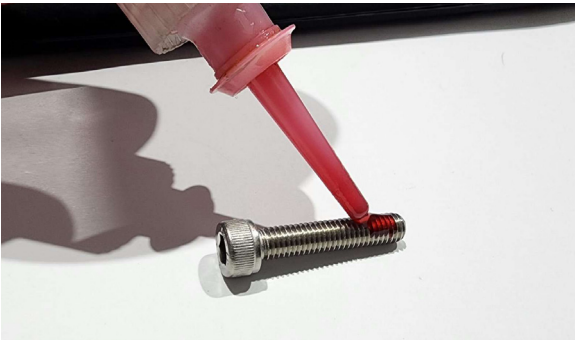


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#### Step 4:

Using a 5mm Allen wrench, install vapor blocks with supplied hardware four socket head bolts. Apply Loctite to the socket head bolts for final assembly.



#### Step 5:

Assemble the Center block. The 4 1/8" NPT x 4AN 90° will go on each corner and the straight 1/8" NPT x 4AN straight will go out the front. To assemble use Loctite (Red 262)

**Note:** Make sure the 90° fittings are aligned with the center distribution block.



#### Step 6:

Layout the hardlines as labeled:

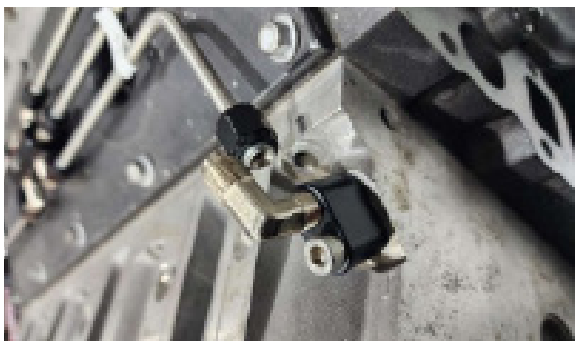
DF - Driver Side front

DR - Driver Side rear

PF - Passenger Side front

PR - Passenger Side back

B - Barb to radiator steam port hose driver side front



#### Step 7:

Finger tighten (no loctite yet) a 1/8NPT x 4AN 90° fitting into each vapor bleed block.

**Note:** The Middle Hardline with the flared hose end should be faced to the front of the engine on the driver side.

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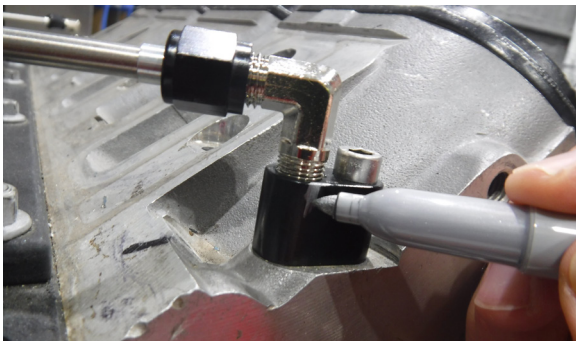
### INSTALLATION INSTRUCTIONS



#### Step 8:

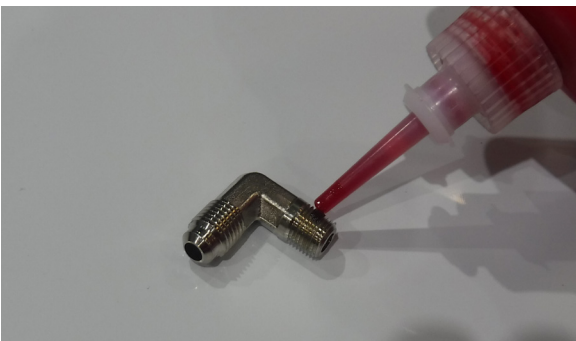
Hand tighten the hardlines onto the center distribution block so you can align the 90° fittings on the vapor bleed blocks.

Tighten once each of the 90° fittings are loctited in.



#### Step 9:

Mark the installed angle of the 90° NPT fittings on each of the vapor blocks.



#### Step 10:

Apply Loctite to the NPT threads on the 90° NPT fittings.



#### Step 11:

Using a 3/8" wrench, reinstall the 90° NPT fittings. Align the marks from Step 9 for the correct installation angles. Make sure to not over torque the fitting as it may damage the block and shear the steam port nub.

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#### Step 12:

Using a 9/16" wrench, reinstall the hardline assembly. Also tighten the hardlines to the distribution block.



#### Step 13:

Using a hose clamp, connect the rubber hose from the factory steam port to the hardline hose barb.



#### Step 14:

Your installation is complete. Reinstall your intake manifold.



#### Step 15:

Check for any water leaks after your car has reached operating temperature.

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