



C6 Corvette High Flow Air Intake

LN4230

Read the entire instruction manual before beginning installation.

Some stock parts will be used in re-assembly.

Parts List

1	LN4230-AB	Airbox with bracket
1	LN4230-AI	C6 Air Bridge
1	LN4230-002	Air filter
11	AV17222	Push fastener
1	TFC40GNB0375X2	3.900" I.D. Hose x 2 1/2" Long
1	LN4230-001	C6 Air intake hump hose
4	53990110	90-110MM Hose Clamp
1	539100120	100-120MM Hose Clamp
1		Airbox Seal 3/16" x 3/8" Black
2	MP1655	Push Retainer (christmas tree)
1		Alcohol Pad

Tools Required

Small Flat Screwdriver	Fork type Pry Tool or equivalent
Ratchet	Scissors
6mm Socket	Drill Motor
7mm Socket	5/16" Drill bit
10 mm Socket	11/32" Drill bit
Tape	1/2" Drill bit
Center Punch Preferably spring loaded	Saw or suitable cutting tool
Jack and Jack Stands	Marking tool for shroud, light colored marker or scribe tool.

Disconnect Battery ground.

Remove gray retainer then disconnect MAF sensor connector.

Disconnect breather tube from bellows.

Loosen hose clamp at throttle body, pull bellows from the Throttle Body.

Work entire assembly free from push pins.

Remove assembly from car.



Remove (4) screws holding top mount radiator shroud.

Unclip hose from top mount radiator shroud.

Remove top mount radiator shroud.



Disconnect electrical connector for under hood light.

Unclip electrical connector for under hood light from the radiator shroud.

Disconnect the electrical connector from Outside Air Temp Sensor located low on the right side of the shroud.

Remove the 2 "christmas tree" push fasteners holding the radiator shroud to the condenser. They are located approx. midway up along each side.

Raise front of vehicle, follow manufacturer instructions. Use jack stands to support vehicle.

From underneath remove (3) screws holding the front fascia inside the radiator opening. Remove the next screw on either side. These are the screws holding the bottom of the bumper cover. See Picture



Remove (2) plastic push pins holding radiator shroud to bumper beam.

Remove (2) plastic retainers from each side of the radiator shroud.

Guide the side wings of the radiator shroud around the brackets for the last (2) screws that were removed.

Remove the shroud from the topside, pushing condenser rearward as necessary for clearance.

If the shroud does not clear the bumper during removal it may be easier to free it from the under side of the vehicle.

Thoroughly clean shroud to ensure adhesion of tape.

Place cut template on shroud as shown ensuring line on template matches up with the crease on the shroud.

Secure in several places with tape.

Use a center punch to mark centers of holes to be drilled. You should have 19 center punch marks. It is important to not remove template until all 19 holes are marked.

Remove the template.

Drill (4) 5/16" holes first as shown on template.

Drill (7) 11/32" holes as shown on template.

Drill (8) 1/2" holes as shown on template.

Use a ruler and marking tool to connect outer edges of 1/2" holes to form cut line as shown with "dashed lines" on template.

Use a saw or other suitable cutting tool cut on line drawn, making sure to NOT CUT OUTSIDE OF LINE. As a reference, the top cut line should be along the break line or outside corner running lengthwise across the shroud.

After drilling and cutting test fit the air box on the shroud. This can be done by using the push pin fasteners without pushing the center nail of the fastener. The air box should lay flat against the shroud.



Reinstall modified radiator shroud.

From underneath replace 5 screws previously removed then install (4) "christmas tree" fasteners and (2) push fasteners.

From the topside, install the (2) "christmas tree" fasteners holding the radiator shroud to the condenser.

Remove (2) plastic pins from the top mount radiator shroud by prying up center nail, then pulling out as shown.

Install (2) supplied "christmas tree" fasteners into same holes.



Install top radiator shroud ensuring it engages fan shroud in the center as shown.

Tuck water hose back into holders on shroud, secure with (4) bolts previously removed.

Remove MAF sensor from stock air intake.



Remove black plastic nipple from stock bellows as shown.

Install barbed end of the plastic nipple into protrusion of hump hose. Make sure the shoulder of the fitting is securely seated against the silicone.



To install hump hose to MAF sensor, align cut out notch on hump hose with protrusion on MAF sensor.

Clamp must be in position shown. Tighten at this time.

Install 4" hose on other side of MAF sensor with clamp. The "clocking" or positioning of the clamp should match with the clamp on the opposite side.

Hose clamps must be in position shown.



Attach supplied air inlet to other end of 4" hose with the nipple on the hump hose in the 10 o'clock position as shown.

NOTE POSITION OF LOGO.

Install clamp, just snug up, DO NOT TIGHTEN at this point.



Remove protective cover from air cleaner.

Supporting bottom of air filter with one hand insert end of air tube assembly into rubber neck of air filter (may need lubricant). Snug (not tighten) clamp.

Thoroughly clean edge of airbox with alcohol pad supplied.

Install rubber seal to (3) edges of airbox as shown. Slide airbox assembly in place as shown. Cut as necessary using ordinary scissors.

Make sure the foam seal does not interfere with the mounting holes.





Slide airbox assembly into place as shown.
Place remaining hose clamp over hump hose.

Connect 4" hump hose to throttle body.

Push 4" hose firmly as shown to seat hump hose onto throttle body. Make sure bottom is butted up to the throttle body flange. Tighten clamp to throttle body securely.

Attach breather hose to plastic nipple at this time.

For hood clearance reasons, this should be clocked as close to the throttle body housing as possible.



Use (4) of the supplied push fasteners to secure airbox flange to the shroud. Pinch pieces together as tight as possible when pushing in center of fastener to ensure a tight fit.

Install remaining (7) fasteners from underneath, pinching pieces tight together while fastening.

Looking at the air filter from underneath at this time, if it is not parallel with shroud cut, it may be straightened now.

From top- tighten hose clamp that fastens air filter to the air duct. Tighten clamp on opposite end of air duct. NOTE : PUSH DOWN FIRMLY ON AIR DUCT WHILE TIGHTENING THIS CLAMP. This is necessary to achieve proper alignment. Double check all hose clamps for tightness.

Reattach MAF sensor and gray retaining clip.

Reconnect the outside air temperature connector and the hood light connector.

Reconnect the battery ground cable.

DISCLAIMER:
CAUTION SHOULD BE USED WHEN DRIVING IN HEAVY RAIN.

DO NOT DRIVE THROUGH DEEP STANDING WATER.

