



INSTALLATION INSTRUCTIONS
STILLEN HI-FLOW INTAKE
2005+ Nissan Frontier, Pathfinder, Xterra
P/N 403440

Materials supplied:

1. (1) Velocity Ring
2. (1) K&N Air Filter with clamp
3. (1) Air box
4. (1) MAF Tube
5. (1) Air box Cover
6. (1) Mounting Bracket
7. (11) ¼-20 BHCS
8. (4) ¼-20 SHCS

Equipment needed:

1. Assorted sockets and wrenches
2. +,- Screwdriver
3. Assorted pliers
4. Assorted Allen keys

WARNING!!!! - DO NOT ATTEMPT TO START VEHICLE WITH THE MASS AIR SENSOR DISCONNECTED, FAILURE TO FOLLOW WARNING WILL RESULT IN FUTURE DIAGNOSTIC REPAIRS.

Installation:

1. Ensure that you have the correct kit prior to installation.
2. Disconnect the negative battery cable.
3. First begin by disconnecting your MAS by unbolting 2 screws on your stock air box tube (fig.1). Set aside carefully as it will be reused. At this point you can also unclip the MAS harness from the air box as well (fig.1)
4. Next remove the stock air box by unbolting it from the mounting point in the rear (fig.1). Loosen the flex hose for easier removal.
5. You will now have to swap over the rubber grommet on the bottom of your stock air box onto your new box as shown in (fig.2)
6. Once out you can start to assemble your new Hi-Flow Intake. Insert the velocity ring into the air filter with the flat side out and clamp the filter on with the supplied clamp.
7. Insert your air filter assembly into the air box and index it so the holes lines up. Clock the MAS tube as shown in (fig.3) Use the supplied bolts to attach the tube to your air box.
8. Now bolt in your MAS onto your new tube. Make sure you install it pointing in the same direction as when removed.
9. Bolt on the mounting bracket on the back of the air box as shown in (fig.4)
10. Remove your stock foam gasket from your stock air box. Install it onto the inlet neck of your new box. Be careful not to damage or rip it in the process of swapping it over. See (fig.5)



WARNING:

IF YOU ARE NOT EXPERIENCED IN THE AREA OF AUTOMOTIVE MECHANICS WE STRONGLY URGE THAT YOU REFER THIS INSTALLATION TO YOUR MECHANIC.

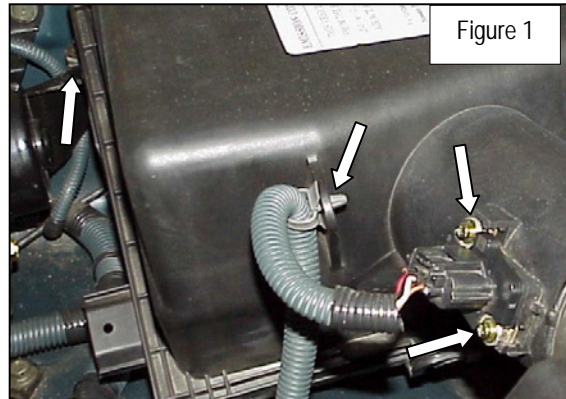


Figure 1

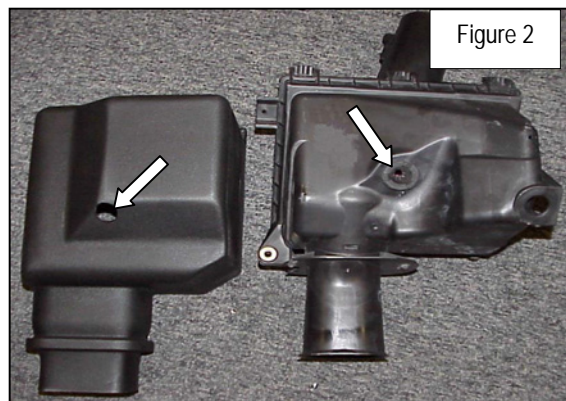
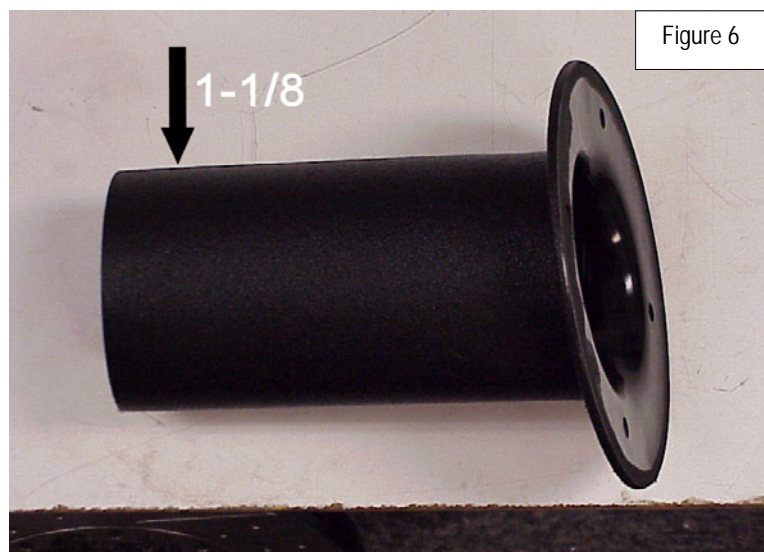
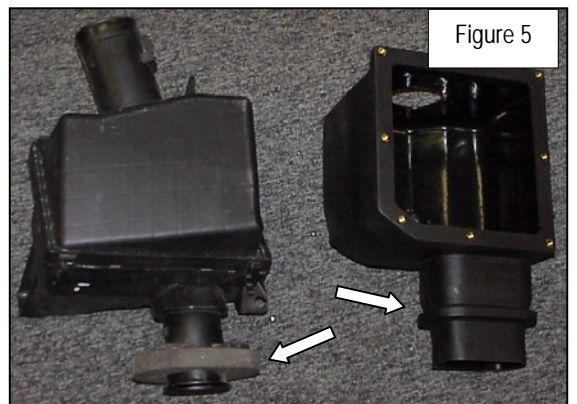
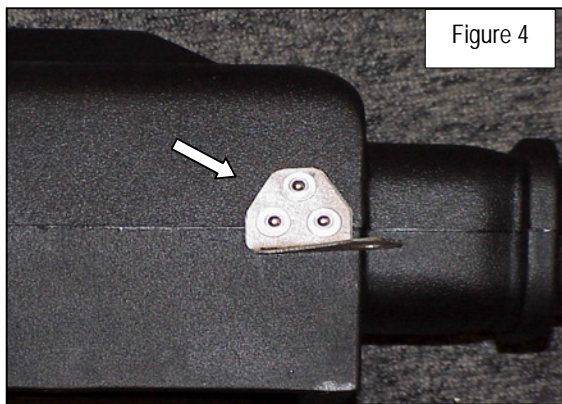
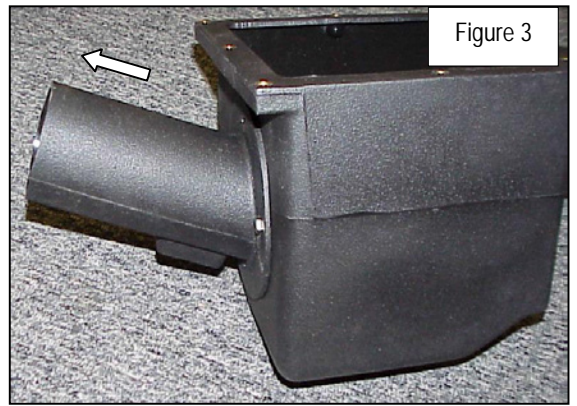


Figure 2

11. Once everything is bolted together install it in reverse order that you removed your stock box. You can install your cover top at this time as well. When installing you will have to reuse the stock mounting bushing from your stock air box located near the inlet flange.

Note: Once the MAS is disconnected do not start vehicle, Check Engine Light will go on and will need to be reset by a dealer.

12. Re-connect the negative battery cable.
13. Make sure all connectors and bolts are securely fastened.
14. You are now finished with the installation, and can now enjoy the benefits of the Stillen Hi-Flow intake system.
15. **NOTE: If you are installing the Stillen Hi-flow intake system with the Stillen Supercharger you will have to cut your tube as shown in (fig.6) for proper fit. Cut 1-1/8" from the edge of the tube.**



A BREATH OF FRESH AIR

Stillen hooks up our Nissan Frontier with a Hi-Flow intake system

By Galen Armenta • Photography: Galen Armenta

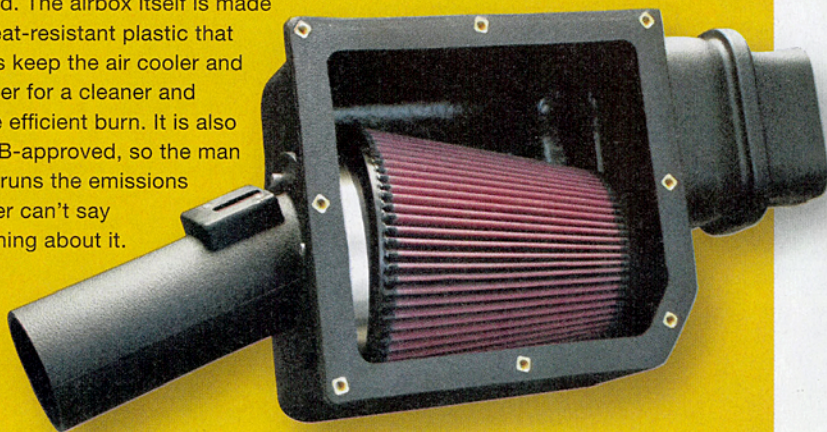
One of the easiest and cheapest ways for any enthusiast to get more power out of his truck's engine is to install an air-intake system. Such a system is designed to increase air-flow and reduce the temperature of air entering the motor to maximize the engine's power. An

efficiently operating engine eats up less gas and delivers better overall fuel economy because the engine does not have to work as hard. Greater efficiency equals better fuel mileage. The net result is more horsepower as your engine taps into power that would otherwise have gone to waste.

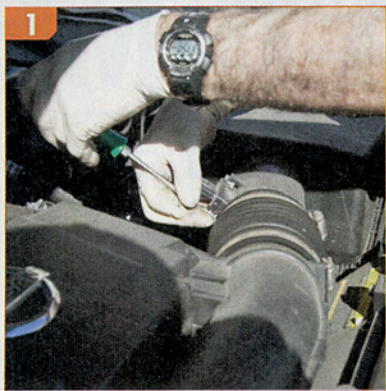
>> Stillen, a company that has an excellent track record in supplying performance products for the Nissan brand of vehicles, has been focusing on Ford, Chevy, and Dodge as well and is now supplying its Hi-Flow intake system with a wide variety of applications. Since we've heard good things about Stillen's system, we decided to outfit our project Frontier with the Hi-Flow system to see the effectiveness of the product for ourselves. We took a trip to Stillen's headquarters in Costa Mesa, California, to have the system installed by Stillen's highly capable technicians. The entire installation took under an hour, and when finished, gave our truck's engine bay a cleaner look and a performance attitude.

WHAT'S IN THE BOX?

The Stillen Hi-Flow element consists of a cleanable K&N cone filter that incorporates a velocity stack, which uses the venturi effect to accelerate air-intake speed. The airbox itself is made of heat-resistant plastic that helps keep the air cooler and denser for a cleaner and more efficient burn. It is also CARB-approved, so the man who runs the emissions sniffer can't say anything about it.



THE INSTALL



1 Stillen's technicians started by removing the mass airflow sensor from the factory intake with a No. 2 Phillips screwdriver. Then, the 10mm bolt on the back right side of the airbox was removed, and the worm-drive hose clamp securing the intake tube to the airbox was loosened. Finally, the airbox was removed with a steady upward force to release it from the retaining bolt.

2 Here is a side-by-side comparison of the stock unit and Stillen's setup. Right away, you can see how the new unit will be more efficient thanks to the straight-through design and, of course, the high-performance filter.

3 With the airbox out of the truck, the techs removed the retaining bolt that holds the airbox down on the bottom. The rubber grommet on the bottom of our stock airbox and was placed into our new box. The MAS is located on the bottom of the intake tube, so it was installed before putting the intake into the truck.


4 Starting with the inlet side of the intake, the techs inserted it into the opening of the fender that gave them room to connect the outlet side of the intake to the coupler hose and tighten it down. Then, the 10mm bolt was reinstalled to finish securing the airbox to the truck.

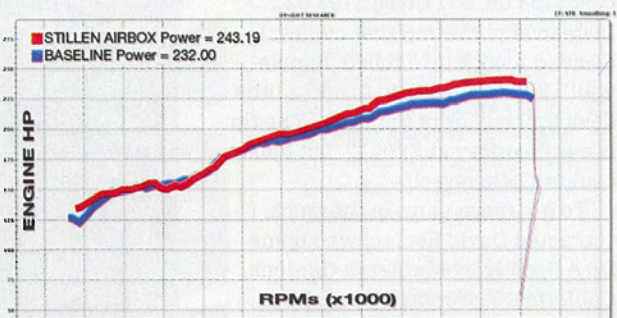
5 Here's our Stillen Hi-Flow intake system for Nissan '05-'07 4.6L V-6s installed. The upgrade looks good under the hood of our Frontier, and it provided 11.2 additional horsepower at 5,700 rpm. Not bad for a performance product that installs in less than an hour.

THE FINAL WORD

For several days following the install, we had plenty of seat time in the Frontier to gauge the effects of the new intake, and we can honestly say that there is a very noticeable difference. When the throttle is punched, especially while cruising the freeway, the added power can easily be felt, especially in the truck's sweet spot. The sound of additional air being sucked into the intake is mellow enough not

to be annoying

on long drives. During dyno testing of Stillen's Hi-Flow intake kit, we measured a gain of 11.2hp (see accompanying chart), which is substantial for any stand-alone intake system. 



When it comes to quality performance air intake systems, Stillen is the brand you can depend on.