

ROTO-FAB
A LIMITED LIABILITY COMPANY



***Dodge Charger, Dodge Challenger
Chrysler 300C, & Dodge Magnum***

Air Intake System Installation Instructions

Tools Required

Phillips Head Screwdriver
10mm Socket
7mm Socket

Ratchet
8mm Socket
6" extension

Step 1. Remove stock engine cover by gently lifting the front of the engine cover.

Step 2. Disconnect IAT sensor. Slide red safety clip outward to allow you to squeeze black tab while removing the connector.



Step 3. Remove OEM air box. Using a 8mm socket, loosen hose clamp that holds the stock air tube to the throttle body. Next, use a 10mm socket to remove the air box bolt. Disconnect the breather hose, and remove the OEM air box assembly and air tube.

Step 4. Remove the OEM IAT sensor from the stock air intake assembly. Lubricate the sensor and pull to remove.

Step 5. Install IAT sensor into the Roto-Fab Air tube assembly. Lubricate with water and press sensor through grommet on the Roto-Fab air inlet tube assembly.



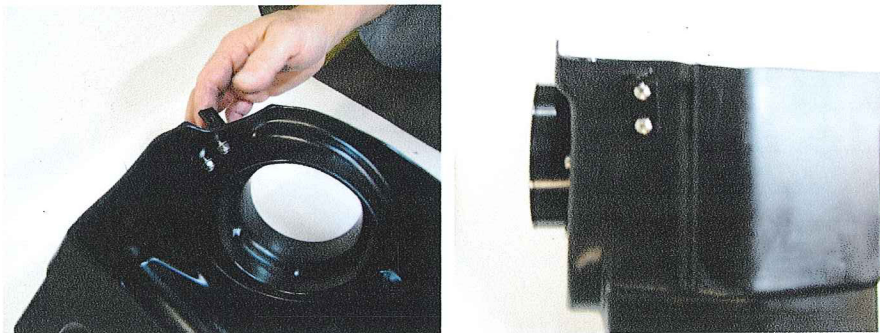
Step 6. Locate #21 Foam Seal. Install lower air box foam seal. Wipe area with supplied alcohol swab before installing seal. Install around the perimeter of air inlet hole on the car as shown in illustration.



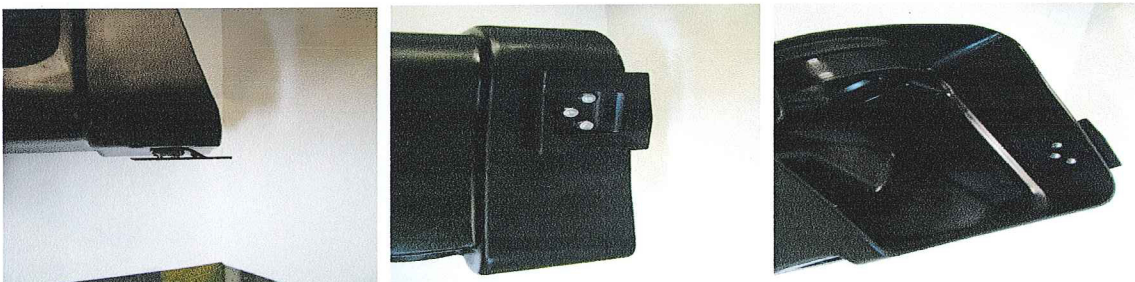
Step 7. Locate #1 air box, #5 filter housing, #25 mounting flange, and #12 10-32 machine screws. Insert filter housing as shown in illustrations. Align the five mounting holes of the flange, air box, and filter housing and insert all five of the 10-32 machine screws. Tighten all six screws using a phillips screwdriver. CAUTION. Be careful not to over tighten.



Step 8. Locate #3 "L" bracket. Install "L" bracket to Roto-Fab air box. Using the supplied 10-32 SS machine screws, fasten the bracket to the front side of the Roto-Fab air box. *Note: Install the head of the machine screws from the outside of the air box.



Step 9. Locate #14 Coolant Reservoir Bracket. Install the Coolant Reservoir Bracket. Using the supplied 10-32 SS machine screws, fasten the bracket to the back side of the Roto-Fab air box. *Note: Install the head of the machine screws from the inside of the air box.



Step 10. Install the Roto-Fab air box assembly. Aligning the hole in the Roto-Fab air box with the air inlet hole of the car. Lower the Roto-Fab air box into the vehicle, align the coolant reservoir bracket on the rear of the box in the tabs of the coolant reservoir, align the "L" bracket on the front of the air box with the factory air box mounting bracket on the car. Use the factory fastener to secure the Roto-Fab air box to the vehicle. *Note: Roto-Fab also supplies an extra 10-32 SS machine screw with a nut to fasten this if the factory hole threads have been stripped.



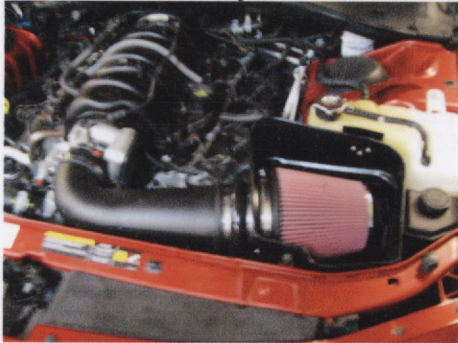
Step 11. Install the Roto-Fab air inlet tube assembly. Start by installing the supplied hose clamps on each end of the air inlet tube assembly. *Note: leave hose clamps loose for now. Next, install the 5" hump hose onto the filter housing on the air box assembly. Compress the hump hose to align and install the air inlet tube assembly with the throttle body. Using a 7mm socket, align hose clamps and tighten clamps to secure both sides of the air inlet tube assembly. *Note: Do not exceed 8 inch lbs. of torque. Connect the breather hose to the factory breather hose to engine. Be sure to see notes following this step.

***For 5.7L vehicles** - use the extension hose provided. Connect the open end of it to the 90 degree fitting in the air inlet elbow. The other end connects to your stock breather hose. Make sure the hoses are fully engaged. No clamps required.

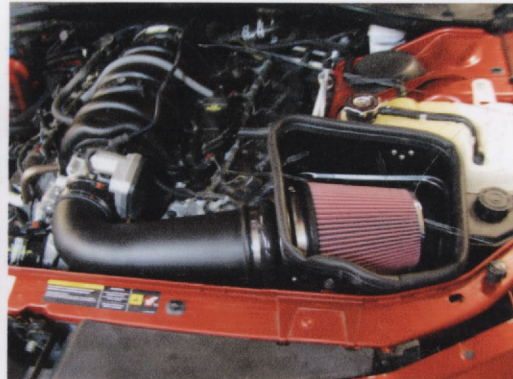
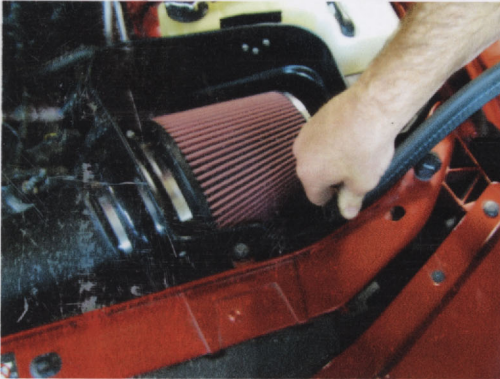
***For 6.1: vehicles** - tighten the 90 degree fitting in the air inlet elbow to achieve optimal alignment with the 1/2" ID breather hose on your motor. Align and mark the hose at the point it will have full engagement on the 1/2" 90 degree fitting. Cut the hose to length and fully engage on the 90 degree fitting. No clamps required. You will not need the extension hose provided in the kit.



Step 12. Locate #6 air filter. Install Air filter. Align air filter inside the air box with the filter housing. Press filter until the seal is completely covering the filter housing. Using an 8mm socket, tighten hose clamp to secure the air filter in place. *Note: Do not exceed 8 inch lbs. of torque.



Step 13. Locate #2 Hood Seal. Install the air box hood seal. Using the supplied hood seal, install the seal around the top of the Roto-Fab air box assembly.



Step 14. Reinstall you engine cover and your installation is now complete!