### Applications

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Introduction

This manual provides step-by-step installation instructions for the Bully Dog Rapid Flow Induction (RFI) Cold Air Intake for 2011-2012 6.0L GM pickups and SUVs. Installation requires a few basic tools and takes about 20 minutes.

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Tools Needed

• Flat-head screwdriver
• Phillips screwdriver
• 10 mm socket
• Bit driver

• Ratchet

Optional (Recommended):
• 12” ratchet extension
Parts Description

**RFI Lid**
The easy-to-remove lid replaces the stock lid and allows for hassle-free filter maintenance. When the lid is installed, the latch mounts should line up with the latches on the base. This will ensure that the lid creates a good seal with the enclosure base and that the latches close securely.

**RFI Base**
The base of the enclosure is designed to bring in large amounts of cool air from outside the engine bay and keep it separate from the hot environment under the hood. It also holds the air filter and directs the airflow to the turbo unit. There are two features to notice about the enclosure to ensure a smooth and effective installation: (1) the round hole where the RFI MAF tube will snap into the back of the base and (2) the foam secured to the inlet of the box, which seals the RFI base to the side of the truck.
RFI MAF Tube
The air intake tube comes with a precisely manufactured mount for the stock MAF sensor. The mount has inset screw mounts that are designed to work with the black oxide screws provided by Bully Dog. The tube is also designed with a snap-fit feature that will secure it tightly to the RFI lid.

Stage 2 RFI Tube
Designed to fit in your engine bay, the stage 2 air intake tube improves air flow into the turbo through the smoothest curves possible to prevent any loss of power and provide sleek style under the hood. The stage 2 tube also includes a precision mount for the stock MAP sensor.

Air Filter with Band Clamp
The Rapid Flow Induction Cold Air Intake system includes an ISO 5011 certified eight-layer oil filter. The air filter is housed within the intake enclosure and secured onto the end of the air intake tube using the included filter clamp and a flat-head screwdriver.
Silicone Hose and Couplers
The high-quality 3-ply hose and couplers are durable, flexible and strong.

Hose and Band Clamps
Adjustable clamps connect and hold all tubing in place.

T15 Security Torx® Bit
The mass air flow sensor is attached to the stock intake tube using tamper resistant pin-in-Torx® screws. Bully Dog includes a Torx® bit for convenience. If the bit is lost it can be purchased at any auto parts store.

Black Oxide Screws and Washer
Bully Dog provides two \( \frac{\text{3}}{\text{8}} \)" black oxide screws to secure the MAF sensor to the RFI MAF tube. Also included are a \( \frac{\text{3}}{\text{4}} \)" black oxide screw and a washer to secure the MAP sensor to the Stage 2 RFI Intake tube.
Installation

Installation can be separated into three parts: Removing the Stock Intake, Preparing the RFI Intake and Installing the RFI Intake. The complete installation of the RFI Cold Air Intake system should take about 20 minutes. The assembly diagram shows how the parts of the intake fit together in sequence.

Removing the Stock Intake

1. **IMPORTANT**: Before beginning installation, disconnect your battery at the negative terminal. *Failure to disconnect the battery could result in personal injury and/or damage to your vehicle.*
2. Remove the engine cover.
   a. Pop the cover off the front grommets by pulling up on the front of the cover.
   b. Pull the cover straight out toward the front of the engine.
   b. Make sure the rubber grommets are still attached to the bottom of the engine cover. (If not, pull them off the bolts in the engine bay and put them back on the cover.)

3. Disconnect the stock sensor plugs.
   a. Disconnect the mass airflow (MAF) sensor plug.
   b. Disconnect the manifold absolute pressure (MAP) sensor plug.
4. Loosen the band clamps at both ends of the intake tube. You do not need to completely disconnect the clamps, just loosen them enough to remove the tube. (Use a flat-head screwdriver.)

5. Disconnect the crank case vent (CCV) tube.
   a. Locate the connection. (It is labeled in the photograph on page 5).
   b. Grasp the plastic plug on the end of the CCV tube and pull it straight away from the stock intake tube. (It is held in place by a rubber O-ring and should come out easily.)

6. Detach the coolant line by pushing the barb connector off the tube.
7. Remove the stock intake tube as a single piece and set it aside.

8. Remove the CCV tube.
   a. Rotate the tube until you can see clip that holds it to the CCV breather.
   b. Carefully push the clip over and out (The clip can easily be broken), noting the location of the tube for later.

9. Remove the stock air filter box.
   a. Pull up on the end of the stock air filter box.
   b. The rubber grommets should pop off the bottom of the stock air filter box, remaining on the mounting plate.
10. Remove the mounting plate.
   a. Use a 10 mm socket to remove the four bolts that secure the plate to the vehicle frame.
   b. Set aside three of the bolts.

**Preparing the RFI Intake**

1. Snap the RFI MAF tube into the RFI base.

2. Remove the MAF sensor from the stock intake. (Use the included T15 Torx® bit and a bit driver.)
3. Remove the MAP sensor from the corner of the stock intake box. (Use a Phillips screwdriver.)

4. Attach the MAF sensor to the RFI MAF tube.
   - Use the $\frac{3}{8}$" black oxide screws provided by Bully Dog and a Phillips screwdriver.
   - **IMPORTANT:** Do not overtighten the screws, as this could damage the MAF sensor.

5. Attach the MAP sensor to the Stage 2 RFI tube.
   - Use the black oxide washer and $\frac{3}{4}$" black oxide screw provided by Bully Dog.
   - **IMPORTANT:** Do not overtighten the screws, as this could damage the MAP sensor.
6. Connect the silicone couplers to the Stage 2 RFI tube.
   - The hump coupler connects with the RFI MAF tube.
   - The straight coupler connects with the throttle body.
   - Put the band clamps on, but do not tighten them.

7. Slide the hose clamps onto the silicone hose, but do not tighten them.
Installing the RFI Intake

1. Install the prepared RFI base/air filter/MAF tube assembly.
   a. Place the base in the space left after removing the stock filter box.
   b. Attach the RFI base to the vehicle frame with the three 10 mm stock bolts set aside on step 10, page 9.
   c. **IMPORTANT:** Do not overtighten the bolts, as this could damage the Bully Dog intake.

2. Install the Stage 2 RFI tube.
   a. Connect the silicone couplers to the RFI MAF tube and the throttle body.
   b. Do not tighten the band clamps yet; leave them loose. (You will tighten them on step 5, page 13.)
3. Install the silicon hose (replace the CCV tube).
   a. Connect one end of the silicon hose to the CCV breather. (See step 8, page 8.)
   b. Connect the other end of the hose to the Stage 2 RFI tube.
   c. Tighten the hose clamps. (Use a flat-head screwdriver.)

4. Install the air filter
   a. Connect it to the end of the MAF tube that is inside the RFI base.
   b. Tighten the band clamp (use a flat-head screwdriver).

5. Tighten all of the band clamps. (All of the parts should be in the correct position at this point.)
6. Reconnect the MAF and MAP sensor plugs.

7. Replace the engine cover.
   • Ensure that all the mounting points are fitted into the rubber boots on the bottom of the engine cover.
   • Press down gently until all of the mounts have snapped in place.

8. Install the RFI lid.
   • Set the lid in place by lining up the latches and the mounts.
   • Snap the latches over the mount on the lid.
9. Reconnect the battery. Start the vehicle, listen for leaks and check all connections. Go for a ride and enjoy.

Be sure to check out the information about filter maintenance and the protective prefilter described in the next section (pages 17-18).
**Filter Maintenance**

The intake system should be cleaned with the Bully Dog RFI Cleaning Kit at least once every three months; in dusty climates, the filter should be cleaned more often. Cleaning the intake is a two part process: cleaning and oiling the filter.

**(1) Cleaning the Filter**

1. Remove the filter from the RFI enclosure. Clean the enclosure if necessary.
2. Remove surface dirt (this step can be avoided if a Bully Dog RFI Prefilter has been installed).
   - Lightly tap the filter.
   - Use a soft-bristle brush to remove any loose particles.
3. Spray the cleaner generously over the filter and let it soak for 10 minutes.
4. Thoroughly rinse the filter.
   - Use regular tap water.
   - Avoid high-pressure hoses.
   - Prevent dirt from entering the filter by rinsing from inside out or from the clean side to the dirty side.
5. Let the filter air dry.
   - Do not use any method to speed up the drying process.
   - Using a blow dryer or compressed air can disfigure the filter and allow particles to pass through.

**(2) Oiling the Filter**

1. Apply a small amount of oil to the soft-bristle brush and gently spread the oil over the filter. Be sure to apply only a small amount of force so the filter is not damaged.
2. Continue applying the oil to the filter until the entire filter is covered in an even amount of oil. Apply enough oil to make the filter a solid and uniform blue, but do not go beyond that.

3. Allow the oiled filter to sit 20 minutes. Re-oil any dry spots that appear. Do not oil the filter excessively. Excessive oiling can cause damage to intake sensors.

**Prefilter**

The Bully Dog RFI Prefilter is a semi-water-repellent barrier that will keep bugs and debris out while lengthening the time between filter cleanings and reducing the amount of time you spend cleaning the filter.
Check out more of our **ADRENALIN PUMPING** products!

**Triple Dog GT**

**Pre Filter**

**Cleaning Kits**

**Clothing**

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