



**BULLY
DOG**
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INSTALLATION MANUAL

RAPID FLOW

Cold Air Intake



Applications

GM Pickups and SUVs
4.8L, 5.3L, 6.0L, 8.1L
1999-2007 (classic body style)

RFI Part Number

53204

Not legal for sale or use in California on pollution-controlled vehicles.



POWER



FUEL-ECONOMY

ECONOMY

Introduction

This manual provides step-by-step installation instructions for the Bully Dog Rapid Flow Induction (RFI) Cold Air Intake for '99 - early '07 (classic body style) 4.8L, 5.3L, 6.0L and 8.1L GM pickups and SUVs. Installation requires a few basic tools and takes about 20 minutes.

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Parts Included

<i>RFI Lid</i>	(53104-1)
<i>RFI Base</i>	(53104-2)
<i>RFI MAF Tube</i>	(53202-3)
<i>Stage 2 RFI Tube</i>	(53204-3)
<i>Air Filter with Band Clamp</i>	(224800)
<i>Silicone Coupler</i>	(53252-5)
<i>4.5" Worm Drive Band Clamp (2)</i>	(53252-7)

Tools Needed

- Flat-head screwdriver
- Phillips screwdriver
- 10 mm socket
- 5/16 socket

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, keeps it separate from the hot environment under the hood and houses the air filter. There are two features to notice about the enclosure to ensure a smooth and effective installation: (1) the circular hole on the back of the base, where the RFI MAF tube will snap in and (2) the circular holes in the bottom where rubber grommets from the stock intake will be attached.



RFI Tube

The RFI MAF tube comes with a precisely manufactured mount for the mass airflow (MAF) sensor. The tube is also designed with a snap-fit feature that will secure it tightly to the RFI base.



Stage 2 RFI Tube

Designed to fit in your engine bay, the stage 2 RFI 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.



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 Coupler

The high-quality 3-ply coupler is durable, flexible and strong.



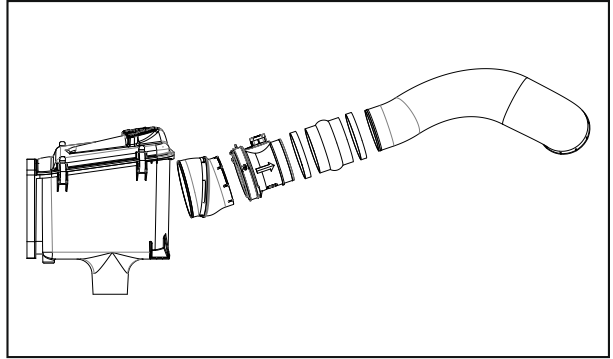
4.5" Worm Drive Band Clamps

Adjustable clamps connect and hold all tubing in place.



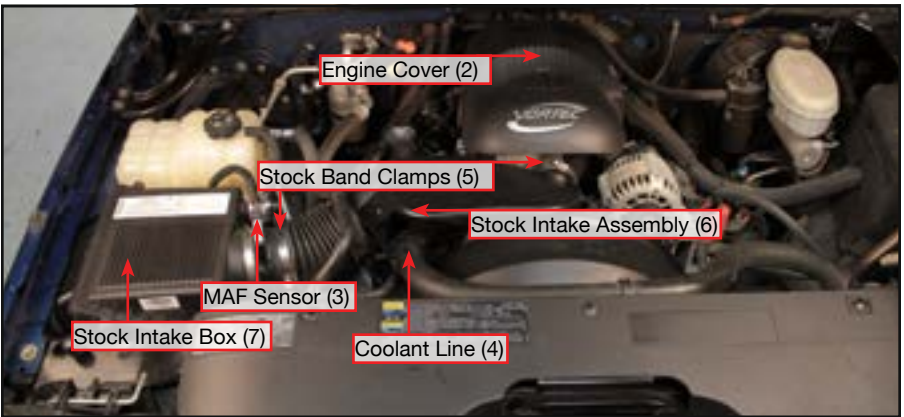
Installation

Installation is very simple and can be separated into three parts: Removing the Stock Intake, Preparing the RFI Intake and Installing the RFI

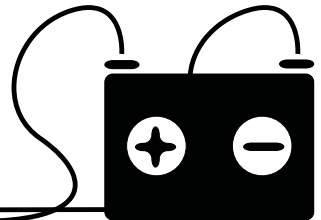


Intake. The complete installation of the RFI Cold Air Intake system should take about 20 minutes. The assembly diagram shows how the parts of the intake fit together in sequence.

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. Remove the top bolt (use a $\frac{5}{16}$ " socket).
 - b. Lift the engine cover and pull it out of the engine bay.



3. Unplug the mass airflow (MAF) sensor.
 - a. Release the white lock tab.
 - b. Pull the plug away from the sensor.



4. Separate the coolant line support clip from the intake tube.



5. Loosen the band clamps on the stock intake. (Use a flat-head screwdriver.)
 - Do not completely detach the band clamps; just loosen them enough to remove the intake tube.
 - One clamp between resonator and throttle body.
 - One clamp between intake box and tube.



6. Remove the intake tube and resonator assembly.
 - Disconnect at the intake box and the throttle body.
 - Pull out of the engine bay as one piece.



7. Remove the stock intake box.
 - a. Pull up gently to pop the box off the grommets.
 - b. Remove the box and intake tube assembly as one piece.



8. Remove the mounting plate.
 - a. Remove all five machine screws. (Use a 10 mm socket.)
 - b. Pull the mounting plate out of the engine bay.
 - c. Set aside three of the machine screws.



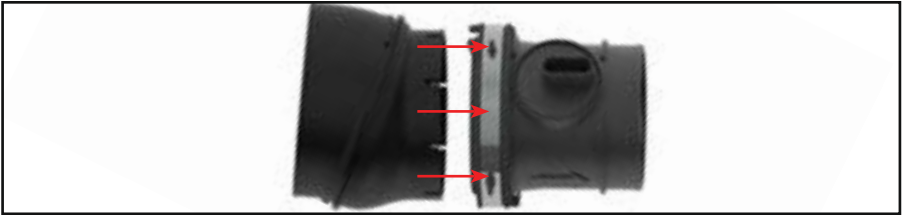
Preparing the RFI Intake

1. Remove the MAF sensor assembly from the stock intake.
 - a. Loosen the band clamp (use a flat-head screwdriver).
 - b. Pull the assembly away from the stock intake.



IMPORTANT: Be careful not to jar the MAF sensor, as this could damage it.

2. Connect the MAF sensor assembly to the RFI MAF tube.
 - a. Align the tubes according to the red marks in the photo.
 - b. Make sure that the assembly is completely seated.
 - c. Tighten the band clamp (use a flat-head screwdriver).



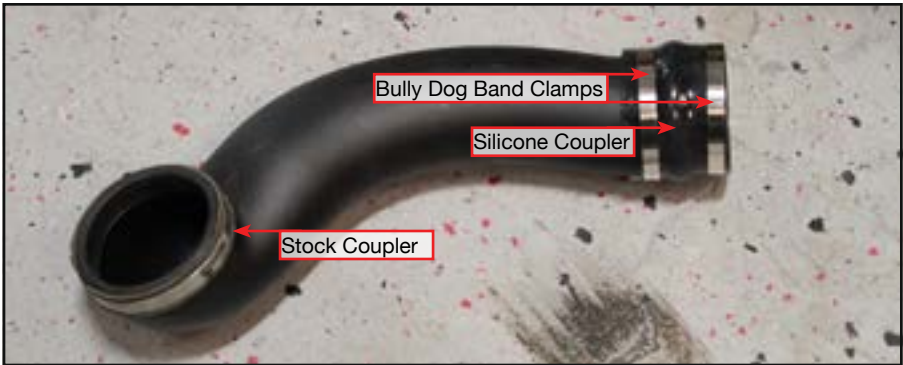
3. Snap the RFI MAF tube and sensor assembly into the RFI Base.



4. Remove the stock coupler from the intake tube.



5. Prepare the Stage 2 RFI Tube.
 - a. Attach the stock coupler to the throttle body side of the stage 2 tube.
 - b. Turn the band clamp until the screw is on top (to allow for easier tightening later).
 - c. Attach the silicone coupler to the MAF side of the stage 2 tube.
 - d. Do not tighten band clamps yet.



Installing the RFI Intake

1. Install the RFI Base and MAF assembly.
 - a. Mount the base in the engine bay space where the stock intake box sat.
 - b. Secure the base with the three 10 mm bolts set aside on step 8 (page 8).



2. Install the prepared Stage 2 RFI Tube.



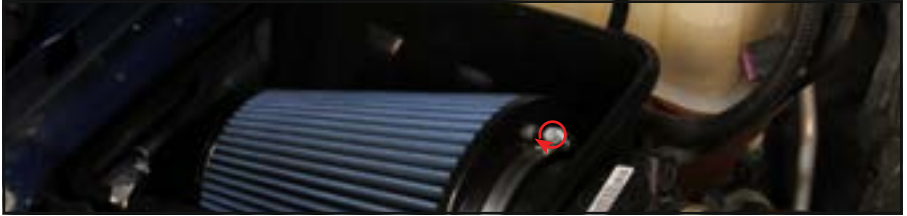
- a. Connect the throttle body side first.
- b. Use a safe lubricant (like WD-40®).
- c. Line up the stock coupler, then push and rotate it onto the throttle body housing.
- d. Check to make sure that the throttle body connection is sealed.
- e. Slide the Stage 2 RFI Tube under the coolant overflow line.



- f. Attach the Silicone Coupler to the MAF assembly.
- g. Tighten the band clamps. (Use a flat-head screwdriver.)



3. 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.)



4. Install the RFI Lid.
 - a. Make sure the lid is properly aligned.
 - b. Snap the latches over the mounts on the lid.



5. Reinstall the engine cover.
6. Reconnect the MAF sensor plug and the battery. Start the vehicle, listen for leaks and check all connections. Go for a ride and enjoy!



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.



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Triple Dog GT



Pre Filter



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Clothing



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