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Call: 866-bullydog (866-285-5936)



BULLY DOG

#1 IN PERFORMANCE

INSTALLATION MANUAL



Rapid Flow Induction Cold Air Intake

Applications	Rapid Power Module Number
Ford 6.4L Power Stroke '08-'09	51103





TROUBLESHOOTING:

Technical support is available by calling 866-bulldog (866-285-5936).

Tech support by phone is available Monday-Friday 8am-5pm Mountain Standard Time.

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INTRODUCTION

You have just purchased the most technologically advanced power module available for the 2009

PREFILTER RECOMMENDED

Recommended with this kit but not included is a Bully Dog prefilter which can be purchased through a local Bully Dog dealer. A prefilter blocks large particles and insects from becoming lodged in the filter ribs. This keeps air flow at a maximum and makes cleaning much easier.



Parts Included and Tools Needed:

This section displays the parts included in the package and the tools needed to properly install the system.

Parts Included

RFI Housing Base
RFI Housing Lid
(2) Pre-Attached Lid Latches
Air Filter Tube with MAF mount
(2) black oxide MAF screws
Air Filter
Air filter Band clamp
Special Torx bit
Product Information Packet

TOOLS NEEDED

Flat head screw driver
Phillips screw driver
Bit driver



Parts Description:

This section describes each part and any special features of each part that need to be noted to assist with installation. All parts will be referred to during installation by the names used in this section.

The Filter housing base: The base to the filter housing has a couple of features to note. The first is the circular hole on the back of the base, this hole is where the RFI tube will snap into the base and hold secure the air filter. The second important part of the base to take special notice of are the mounting pegs that are located on the bottom of the filter housing base. The mounting pegs are used to secure the base to the mounting plate within the engine bay.



The Filter Housing Lid: The lid is very easy to remove for filter maintenance, be aware that the tongue and groove formed between the housing base and the lid needs to be properly lined up for a good seal. The latch mounts on the lid should always match up with the latch mounts on the base.



Lid Latches: The lid latches come preassembled onto the filter housing base and are used to secure the lid to the base. This latch system is typical of many OEM style systems and allows for quick and easy access to the air filter for maintenance and to clean out any debris which may have collected inside of the filter housing.



Air Intake Tube with MAF mount: The injection molded tube comes with a precisely manufactured Mass Air Flow sensor mount with inset screw mounts. The Tube also has a unique snap in feature that will tightly secure the tube to the filter housing base. This also enables the tube to rotate while it is still connected to the housing base which can sometimes help during installation. Notice in the diagram below which end of this tube goes into the filter housing base.

Stock band clamp end

MAF sensor mount

Snap fit

Filter housing end



Black oxide screws: The two philips style black oxide screws included with the kit are used to secure the MAF sensor to the air intake tube.



Air filter and clamp: The air filter included is an ISO 5011 certified eight layer oil filter. The air filter is secured onto the end of the air intake tube using the filter clamp and a flat head screw driver.



Special Torx bit: This bit is included for convenience the Mass Air Flow sensor is attached to the stock intake tube using this special style of torx screw.



Installation Overview:

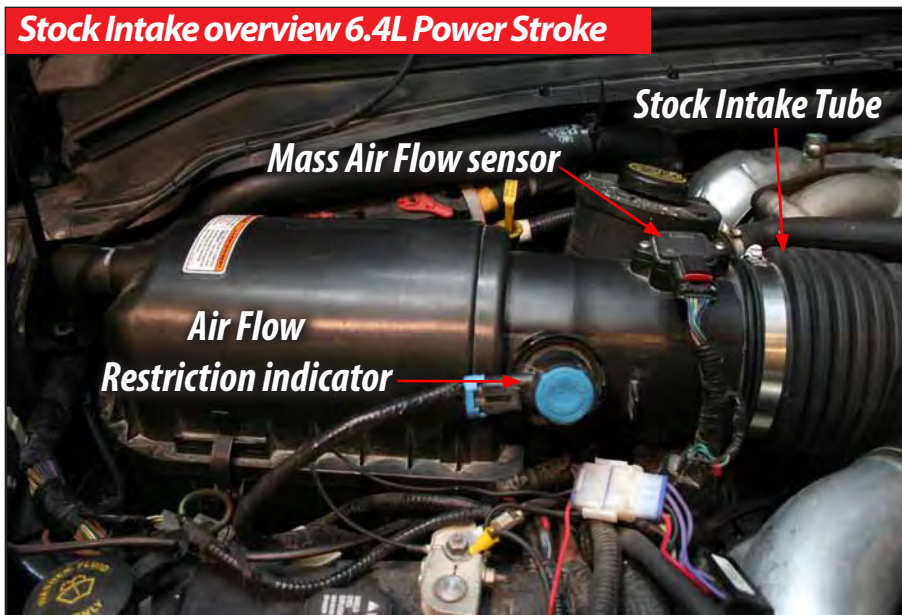
Installation is very simple, it is separated into three parts: Removing the Stock Intake, Swaping stock parts to the new intake, and Installing the RFI intake system. The complete installation of the RFI intake system should total about 20 minutes.

Removing the Stock Air Intake:

Follow the steps in this section for guidance on how to remove the stock air intake.

Stock intake Overview Diagram: The stock intake can be seen in the picture below. Notice the important parts of the stock air intake that are noted in the diagram below. These noted items will also be refered to in the text of the steps for removing the stock intake, swapping parts over to the Bully Dog intake and the installation of the Bully Dog RFI Intake.

Stock Intake overview 6.4L Power Stroke



Removing the stock intake continued:

1. Unplug the Mass Air Flow sensor harness from the mass air flow sensor. Move the harness out of the way, so that the intake can be removed without damaging the sensor harness.



2. Unplug the Air Flow Restriction Indicator harness from the indicator. Also move this harness to a safe place that will allow the intake to be removed.



3. Using a flat head screw driver loosen the stock band clamp on the stock intake tube. Once the band clamp is loose enough disconnect the stock intake tube from the stock air intake as seen in the pictures below.



4. Now remove the stock air intake housing along with the breather hose in one peice by gently pulling the intake up and out of the engine bay. The intake is only secured by rubber grommets which will make it easy to remove, if there is strong resistance while attempting to remove check around the stock intake for any item that may be causing additional resistance.



Preparing the RFI intake for installation:

The steps in this section will make installation of the intake into the truck even easier: Here is a quick list of what needs to be done before installing the intake into the pickup:

- Insert the RFI intake tube into the filter housing base.
- Installing the stock MAF sensor onto the Bully Dog Intake.
- Securing the Air Filter onto the RFI intake tube.

1. Fit the RFI intake tube into the filter housing base; see the picture below for proper orientation of the tube. To secure the tube to the filter housing simply push the two items together until the tube snaps into place, which can be noted by the pop that is made when the interference fits on the tube go past the filter housing wall. Notice that once the tube is in place it will easily rotate in place.



2. Rotate the tube in place so that the Mass Air Flow sensor points up and so that the neck of the tube where the air filter attaches points downward.



3. Remove the stock Mass Air Flow sensor from the stock intake using the special torx bit included with the intake kit and a bit driver. The OEM screws should be screwed back into the stock intake to save them.



4. Once the MAF sensor is removed, reinstall the sensor on the RFI, make note that it is easier to twist the MAF sensor while inserting the MAF sensor mount rather than trying to force the sensor straight down.



5. Secure the MAF sensor using the black oxide screws provided with the kit and a philips head screw driver. Be certain that the arrow on the MAF sensor is pointing away from the intake filter housing.



6. Place the air filter onto the end of the RFI intake tube which should now be on the inside of the intake filter housing. To properly orient the filter onto the tube, move the filter over tube and then pull it down until the ribs on the inside of the rubber collar of the air filter hit the rib that is on the end of the RFI intake tube. See the picture below to see an example of proper filter orientation onto this particular intake tube.



Do not place the air filter too far up the tube or there will be restriction as air moves from outside of the filter and into the tube, this may also cause interference between the filter and the lid.

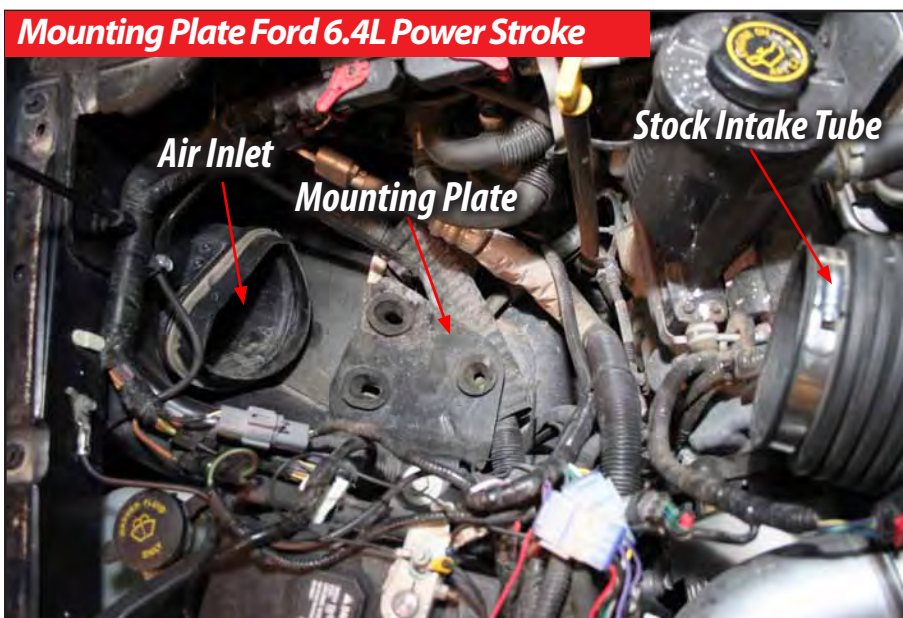
7. When the filter is in place, tighten the filter band clamp using a flat head screw driver. Tighten the clamp until the filter cannot be easily pulled off of the tube by hand.

Note: It is OK to install and remove the filter while the air intake is installed on the vehicle and is encouraged when performing filter maintenance or installing a new filter.

Installing the RFI intake:

With the intake prepared for installation now move to the vehicle and prepare to install.

1. Before placing the RFI into the stock location take notice of the plate with the three rubber grommets, the air inlet and the stock intake tube. The mounting plate with grommets is where the three mounting pegs on the bottom of the intake housing must fit. Further the mouth of the RFI also needs to fit around the air inlet coming through the side of the engine and the tube needs to line up to the stock intake tube.



2. To set the intake housing into position within the engine bay first hold the intake over the empty cavity within the engine bay. Point the mouth of the intake housing downward towards the air inlet. Line up the mount of the intake to the inlet and at the same time align the mounting pegs on the bottom of the intake housing to the rubber grommets on the mounting plate.

3. Once everything is lined up press downward on the entire filter housing to set the mounting pegs securely into the grommet locations on the mounting plate.



4. With the intake firmly in place, pull the stock intake tube over the RFI intake tube. Make sure to continue pulling the stock tube over the RFI tube until it hits the rim that wraps around the end of the RFI intake tube.



5. Secure the stock tube to the RFI tube by tightening the stock intake clamp using a flat head screw driver. Tighten the band clamp until it is hand tight and the tubes cannot be easily pulled apart by hand.



6. Plug the MAF sensor harness back into the MAF sensor.



7. The Bully Dog RFI does not incorporate the Air Flow Restriction Indicator back into the system. The harness for the indicator will need to be taped up or the stock restriction indicator can be plugged into the harness and then secured using zip ties.



8. The final step in this installation process is to secure the lid to the filter base using the latches.



Filter Maintenance:

The intake system should be cleaned at least once every three months; in dusty climates the filter should be cleaned more often. To help prevent the need to clean so often install a prefilter. Cleaning the intake is a two part process, the first part of the process involves the physical cleaning of the filter with soap and water and the second part involves oiling the filter. To properly clean the filter, a Bully Dog cleaning kit should be used. Cleaning kits are available at any Bully Dog dealer.

PART 1, CLEANING THE FILTER:

1. Remove filter from filter housing. Clean the filter housing if necessary.
2. Begin the cleaning process by ridding the filter of any dirt by lightly tapping it. Then brush away any loose particles with a soft-bristle brush. This step can usually be avoided with the use of a prefilter.
3. Spray cleaner generously over entire filter and let soak for 10 minutes.
4. Thoroughly rinse the filter with regular tap water (avoid high-pressure hoses). Flush from the inside out or clean side to the dirty side to prevent dirt from entering the filter.
5. Let the filter air dry before oiling, do not use any method to speed up the drying process. Using a blow dryer or compressed air can cause the filter to disfigure which would then allow particles to pass through the filter.



PART 2, OILING THE FILTER:

1. Apply a small amount of oil to the soft bristle brush and spread the oil over the filter. Be sure to apply a small amount of force so not to damage the filter element.
2. Continue applying oil to the filter using a soft bristle brush until the entire filter is covered in an even amount of oil, just enough to give the filter a solid blue color. Apply enough oil to make the filter a solid and uniform blue, but do not go beyond that.
3. Allow oil to sit for 20 minutes. Re-oil any dry spots that appear. Do not oil filter excessively. Excessive oiling can cause damage to intake sensors.

