BULLY DOG
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INSTALLATION MANUAL

RAPID FLOW
Cold Air Intake

Applications	RFI Part Number
Ford 5.0L F150 ’11-’14	51201

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

POWER FUEL ECONOMY ECONOMY

TROUBLESHOOTING:
Technical support is available by calling 1-940-783-9915.

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

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INTRODUCTION

This instruction set outlines the description and installation of the Rapid Flow Cold Air Intake for the Ford 5.0L F 150 '11-'14. Installation of this intake takes about 20 minutes and requires only basic tools. This installation can be easily completed using basic tools, mechanical experience is not required.

For additional question or product information visit our website www.bullydog.com or call Bully Dog technical support at 1-940-783-9915.

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

Rapid Flow Lid	Part# 51200-1
Air Filter Tube with MAF Mount	Part# 51201-3
Stage 2 Intake Tube	Part# 51201-4
High Flow Air Filter	Part# 224900
Silicone Coupler 70mm X 200mm	Part# 51201-5
Silicone Coupler 100mm x 310mm	Part# 51201-6
Silicone Coupler (Straight) 50 Length	Part# 51105-5
Silicone Coupler (Straight) 76 mm	Part# 51105-6
4" Worm Drive Clamp (4)	Part# 51105-7
Literature pack	Part# LITPAC
Black Oxide Phillips Head Screws (2)	Part # 54100-94
T20 Torx Bit	Part# 229120
#6 Stainless Hose Clamp	Part# 4-28201
#8 Hose Clamp	Part# 10800-4

Tools needed

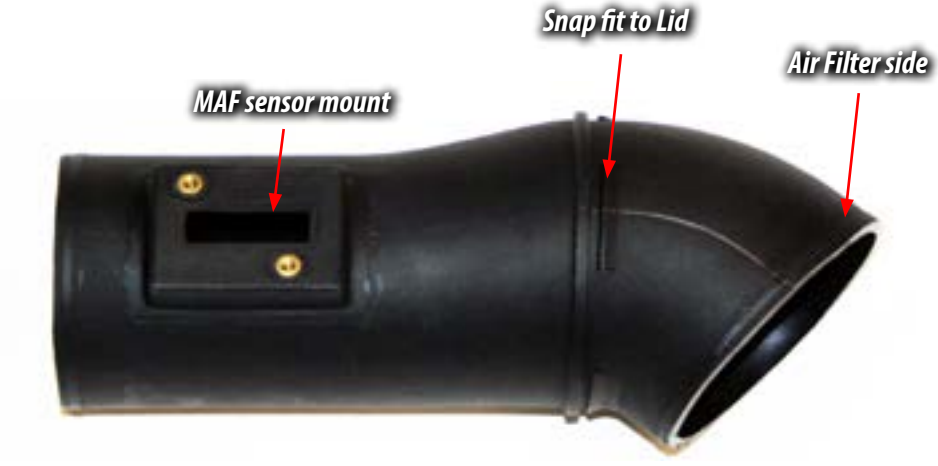
Flat-head Screwdriver **Phillips Screwdriver** **Bit Driver**
13mm Socket and Wrench (*optional*)

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.

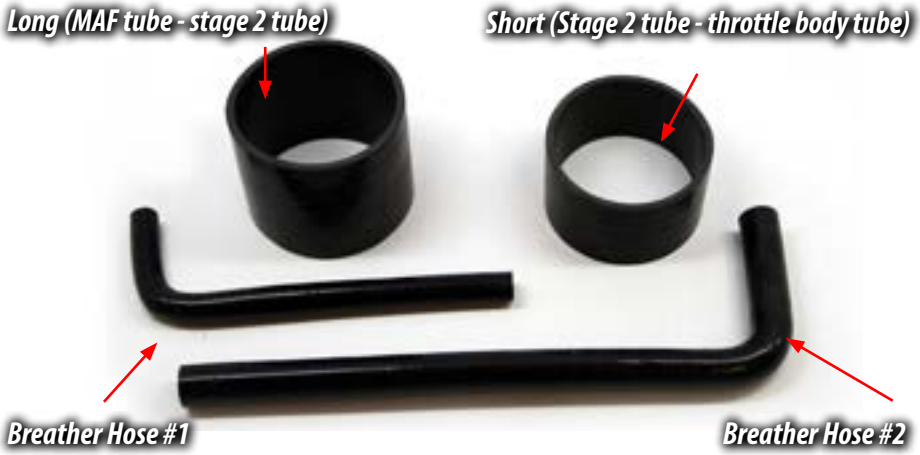
The Lid: This simple to install lid replaces the stock lid and conceals and protects the high flow air filter that comes with the kit. It also has an extra air flow port to provide more cold air from the front of the vehicle for a slight charge effect.

Air Intake Tube with MAF Mount: This tube comes with a precisely manufactured mass air flow sensor mount with inset screw mounts. The tube also has a unique interference snap fit feature that will tightly secure the intake tube to the lid.



Stage 2 Intake Tube: The stage 2 intake tube installs between the MAF sensor intake tube and the stock tube that leads to the vehicle throttle body.

Silicon Tubing (long and short): High quality 3 ply silicon tubing.



Band Clamps: Connects and holds all tubing in place.

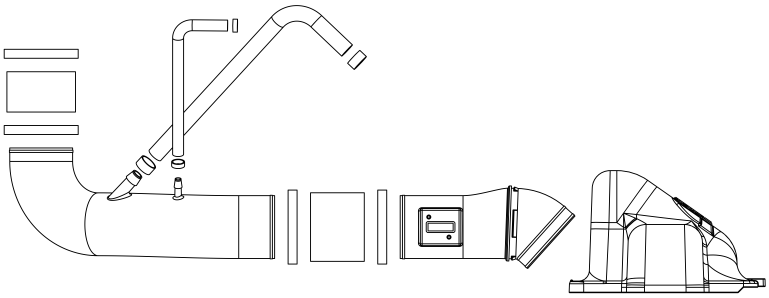
Stainless Black Oxide Screws and Nylon Washers: The two Phillips style stainless black oxide screws and nylon washers are included with the kit are used to secure the MAF sensor to the air intake tube.

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 screwdriver.

Security Torx Bit: This bit is included for convenience; the mass air flow sensor is attached to the stock intake tube using security Torx screws. If this bit is lost it can be ordered.

Installation Overview:

Installation is very simple, it is separated into three parts: Removing the Stock Intake, Preparing the Rapid Flow Cold Air Intake for installation, and Installing the system. The complete installation of the Rapid Flow Cold Air Intake system should total about 20 minutes. The assembly diagram below shows how the parts of the intake fit together in sequence.



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 labeled in the diagram below. These items are referred to throughout these instructions.

Stock Intake Overview

Removing the Stock Intake:

1. Unplug the MAF (mass air flow sensor) to do so properly, first pull the red tab located on the bottom side of the sensor outward to release the locking mechanism. Disconnect the sensor plug and harness from the mounted sensor. Move the harness out of the way, so that the intake can be removed without damaging the sensor harness.

2. Disconnect OEM breather hoses 1&2 that are connected to the grey fitting and the crank case ventilation fitting.

3. Using a flat-head screwdriver loosen the stock band clamp that connects the stock intake tube to the throttle body. Release the OEM latches for the lid and then remove the stock intake assembly in one whole piece.

Also remove the stock air filter from the bottom part of the stock air intake enclosure.

The picture below depicts the engine bay with intake removed from passenger side view.

Preparing the Intake for Installation:

The steps in this section will prepare the intake for installation, this section includes steps that are easier to complete with the intake outside of the vehicle.

1. Fit the intake tube with the MAF into the Rapid Flow lid and snap it into place. To secure the tube to the lid push the two items together until the tube snaps into place. The tube should easily rotate once the interference snaps lock into place.

2. Remove the stock mass air flow sensor from the stock intake using the T20 security Torx bit included with the intake kit and a bit driver.

3. Install the MAF sensor into the MAF sensor intake tube. Secure the MAF sensor with the stainless black oxide screws and nylon washers using a Phillips head screwdriver.
DO NOT USE STOCK SCREWS

4. With the tube secure in the lid, now install the air filter onto the part of the tube that is inside of the lid. Secure the filter using the supplied band clamp, tighten the clamp until the filter cannot be easily pulled off by hand.

Pre-installation Tip:

To make installation of the intake tubing easier, make the following adjustments prior to installing the stage 2 tube. Installing the lid assembly prior to this adjustment will not affect the outcome.

1. Use a 13mm socket to loosen the two mounting bolts that hold the intake base in place. Do not remove them, only loosen them enough to adjust the intake base.

2. Push the intake base back towards the driver seat as far as it will go and then retighten the 13mm bolts. This will help create a little more clearance for the installation of the stage 2 intake tube.

Installing the Rapid Flow Intake:

With the lid assembly put together the intake system can now be installed.

1. Place the lid assembly onto the top of the stock intake base. The lid will install onto the base exactly as the stock lid does, utilizing the same mounting spots and the stock latches.

2. Slide the long silicone coupler along with band clamps over the MAF air intake tube. Do not tighten the band clamps yet.

3. Slide the short silicone coupler onto the Stage 2 air intake tube with band clamps. Slide the Stage 2 intake tube into the MAF air intake silicone coupler. Next, slide the other end of the Stage 2 intake tube with silicone coupler onto the throttle body. Adjust the Intake tubes and couplers for fitment then tighten the band clamps.

6. Slide the small band clamps over the ends of breather hose 1. Next, slide the end of the breather tube over the fitting on the Stage 2 tube. Take the other end of the small breather hose and slide it onto the grey fitting. Install breather hose 2 onto the crank case ventilation fitting and the other end onto the Stage 2 tube and tighten all of the band clamps.

7. Finally, plug the mass air flow harness plug back into the mass air flow sensor. Being sure to lock the MAF sensor plug in place.

Optional, Post -installation Process to Increase Cold Air Flow:

Want to maximize the cold air potential of this intake to truly maximize horsepower and fuel economy. Follow these easy steps to open up the cold air flow into the extra cool air intake duct on the Rapid Flow lid. This will provide the full effect of our design.

WARNING: PERFORMING THESE STEPS WILL IN GENERAL LEAD TO INTRODUCING MORE DEBRIS AND POTENTIALLY MORE MOISTURE INTO THE ENGINE BAY.

1. Locate and remove the shroud on the drivers side front of the vehicle.

2. Locate the shroud located on the inside of the engine bay just behind the drivers side head light. Remove only the plastic rivets located on the radiator side of this shroud and then fold the shroud back as seen in the photos below.

Filter Maintenance:

The intake system should be cleaned at least once every three months; in dusty climates the filter should be cleaned more often. Use a prefilter to extend time between cleaning. 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 # 229000

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.

Bully Dog PreFilter (Part # 51200-8 for your intake)

The time between scheduled filter maintenance can be extended. Using a prefilter will prevent all large debris from getting into the ribs of the filter. When using the prefilter, only fine dust particles make it through the prefilter and onto the exterior of the filter. Thus when using a prefilter, scheduled cleaning easy much easier and filter life is positively effected.

AIR FILTER PREFILTER

- Extend Time Between Cleanings
- Hydrophobic Material Repels Water
- Protects Cone Filter from Large Debris
- Maintains Filter Airflow Between Cleanings

Doc.51201-99 v1.4

Check out more of our ADRENALIN PUMPING products!

Triple Dog GT

Pre Filter

Cleaning Kits

Clothing

Some products listed may not be legal for sale or use in California on pollution-controlled vehicles. Please refer to BullyDog.com for further details.

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Free Technical Support at: 1-940-783-9915

See More at: bullydog.com