



# advanced FLOW engineering

## Installation Guide

**Part #: 51/54-10331**

**Magnum FORCE™ Intake Systems**

**Make: FORD**

**Model: F-Series Super Duty and Excursion**

**Engine: V8-5.4L, V10-6.8L**

**Year: 1998 - 2004**

**Tools Required:**

- Medium slotted screwdriver or 8 mm (5/16) socket or wrench.
- 10 mm socket or wrench

**Parts Included:**

- 1 Air Filter (P/N 24-90039) or **Pro Dry S™** 21-90039
- 1 Adaptor, Injection molded
- 1 Housing panel assy
- 1 Gasket MAF
- 4 Screws, hex head, M6 x 20
- 4 Washers, wave, M6
- 1 Trim seal, top edge, 28."
- 1 Coupler, reducer 4-1/2" x 3-1/2"

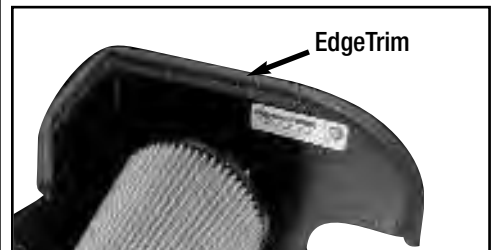
**Instructions:**

1. Loosen the large hose clamp on the intake duct at the filter canister. Disconnect the electrical harness from the filter canister. **DO NOT** attempt to pull the wires out of the filter canister. The connector can be found by following the wire harness from the canister to the inner fender panel. On some models there is also a white plastic 2 pin harness mount to the sheet metal. This can be pried from the sheet metal with a small screwdriver. This will give better access to the harness connector and can now be pulled apart while pressing the locking tab.
2. Remove the filter canister from its mounts by pulling up to disengage the rubber grommets. Once the mounts are free the complete canister can be removed from the vehicle and placed on a workbench for further disassembly. Remove the canister mounting tray & save bolts for reassembly.
3. At this time you will need to remove the Mass Air Flow Sensor (MAF) from the canister. Separate the filter canister by unfastening the band clamp & remove the air filter. Insert a small screwdriver into the slots & gently pry the filter base apart from the canister. Once apart you will need to disconnect the harness from the MAF sensor. Reach into the canister & depress the locking tab while pulling the connector apart. The MAF sensor can now be unbolted from the filter base & the short wire harness set aside for later use.
4. Mount your MAF sensor to the outside of the Magnum FORCE intake panel using the supplied gasket & (4) M6x20 metric hex bolts & small wave washers (**see photo A**). Plug the short wire harness back into the MAF sensor. Install the housing edge trim on the top edge of the panel (**see photo B**).
5. You are now ready to mount the filter housing into the engine compartment. Remove the remaining bolt on the evap canister mounting bracket (**see photo C**) and install the housing using the (2) bolts thru the base & (1) bolt on the radiator core support. Reconnect the wire harness and install the pre-oiled aFe air filter (Do NOT use any oil or grease). Slide the reducer sleeve over the MAF outlet & install the factory inlet duct over the sleeve & tighten the clamp.
6. Your installation is now complete. Make sure all clamps are tight & all electrical connections are secure.

Make sure all hoses & clamps are tight & all electrical connections are secure. Your installation is now complete. Start your engine and check for unusual noises. If you have any questions in regards to this installation, please feel free to call our toll free support line. **877-512-8111**.



**Photo A**



**Photo B**



**Photo C**



**Includes the now famous Mega Cannon air filter**

**Part # 24-90039**  
• **Black w/ blue media**

**Note: Filter Cleaning and Re-oiling:** When cleaning your aFe filter, be sure to use only aFe's "Restore Kit" (aFe P/N: 90-50001 blue oil aerosol, or aFe P/N: 90-50501 blue squeeze bottle oil).

**Filter Replacement:** PN: 24-90039 (black w/blue media). **Pro Dry S™** P/N: 21-90039 **Pro Dry S™** cleaning: see cleaning instruction sheet 06-00074

**06-80033**

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