



# advanced FLOW engineering Installation Instructions

## Part #: 50-10411

Magnum FORCE™ Intake Systems

Make: Dodge

Model: RAM 2500-3500

Engine: Cummins 5.9L- L6

Year: 2003

## Tools Required:

- 7mm Socket
- 10mm Socket
- 7/16 Socket
- 9/16 Socket
- Ratchet
- Extension
- Slotted screwdriver, small
- Slotted or Phillips screwdriver, medium

## Parts Included:

- 1 Filter (PN# 20-91009) and clamp
- 1 Filter housing
- 1 Intake tube 4" diameter
- 2 Screws for sensor pad (8-32 x 5/8")
- 2 Hex bolts, (3/8-16 thread)
- 2 Nuts, locking (3/8"-16)
- 2 Washers, (3/8" x 7/8")
- 1 Trim seal
- 2 Clamps (small)
- 1 1-1/2" length of 1/2" rubber hose
- 3 1/4-20 combination head machine screw
- 3 1/4" split lock washer

## Installation Instructions

1. Install the AFE Intake Tube in the housing with the (3) combination head screws and lock washers. *Caution make sure to start all 3 combination head screws first before tightening completely.* Install the trim seal around the edge of the housing. (See photo 1)
2. Remove Temperature Sensor from filter box (See photo 2). Save the mounting screws with the filter box. It is not necessary to disconnect the wire harness but do not rest the sensor or harness on any hot exhaust components. Remove the plastic Filter Sensor from factory filter box and save for reuse. Leave the rubber grommet with the factory filter box.
3. Remove the upper fan shroud bolt and washer (See photo 3).
4. Loosen boot clamp at filter box and disconnect. Remove nut at radiator bulkhead and remove filter box. It is necessary to disconnect the radiator overflow hose for clearance (Let the engine cool-down before disconnecting to minimize coolant loss). (See photo 4 and 5)
5. Lower your new filter housing into place. The bottom louvered panel must be positioned below the headlight housing and above the aluminum A/C line (See photo 6). Insert fan shroud bolt but do not fully tighten at this time. Assemble 3/8 thread bolts and self-locking nuts with flat washers on each side. These will be assembled thru the filter box bottom rubber mounts. Tighten just enough to compress the rubber mounts slightly. Fully tighten the fan shroud bolt at this time.
6. Attach the Temperature Sensor using the (2) 8-32 thread screws provided (See photo 7). The sensor can be installed with the wire harness pointing up or down. It does not measure airflow or direction.
7. The Filter Sensor can be attached to the Intake Tube using the supplied short vent hose and small-clamps (See photo 8).
8. The Boot can now be reinstalled over the Intake Tube and the clamp tightened. It may help to reach into the tube to pull the boot on.
9. The pre-oiled filter can now be installed on the Intake Tube. Do Not use any oil or grease when attaching the filter.



Photo 1



Photo 2



Photo 3



Photo 4

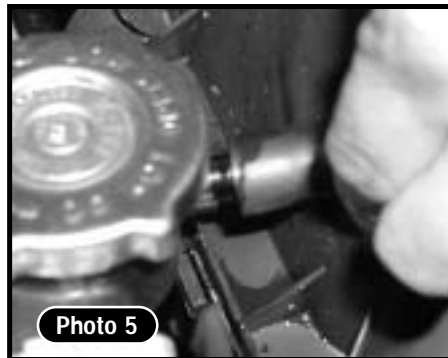


Photo 5

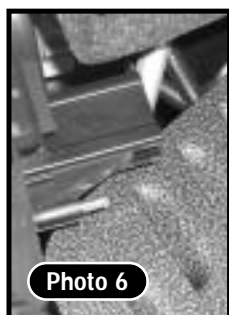


Photo 6



Photo 7



Photo 8



Photo 9



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