



# advanced FLOW engineering

## Installation Guide

**Part #: 51/54-10142**  
**Magnum FORCE™ Intake Systems**  
**Make: JEEP**  
**Model: Wrangler (TJ)**  
**Engine: I6 4.0L Year: 1997 - 2005**

### Tools Required:

- 5/16 or 8mm nut driver
- 10mm socket wrench
- 13mm socket wrench

### Parts Included:

- Air Filter 24-30018, or 21-30018 Pro Dry S (1)
- Coupler, straight (1)
- Coupler, single hump (1)
- 5/8" Hose @ 12"L (1)
- Housing, filter (1)
- Tube w/vent, rotomolded black (1)
- 3/4" Trim Seal @ 25-1/2" (1)
- Clamp mini, #008 (2)
- Clamps, hump coupler #052 (2)
- Clamps, straight coupler #048 (2)
- Rubber Grommet (1)
- Hex bolts, M6 x 20 (2)
- Nuts, M6 (2)
- Wave washer, M6 (2)
- Fender Washer (4)
- Grommet, air temp (1)
- Cap, 1/2" (1)

### Instructions:

1. Loosen hose clamps on both ends of air intake duct and remove duct. 2005 models have a teme **(Photo A)** Unclip the five clamps holding down air box lid and remove lid and filter element. Then, loosen three bolts in bottom of air box **(Photo B)** holding the nut inside the fender well with a 10mm wrench and remove box. Then using a 13mm socket, remove the two bolts holding strut rod and remove rod.
2. With 10mm socket extension and ratchet, remove bolt on radiator bracket **(Photo C)**.
3. Install heat shield using the supplied nuts, bolts, and washers and tighten. Slide rubber grommet (also supplied) over strut rod, then slide strut rod through panel **(Photo D)**. Replace bolts and tighten.
4. Install aFe Magnum Force Intake tube using straight coupler on throttle body side of intake tube. Then install 3" hump hose on heat shield. Slide intake tube into hump hose and bring tube down to meet throttle body. Slide straight coupler over throttle body and tighten coupler and hump hose with hose clamps (supplied). **(Photo E)**
5. Replace vent hose with supplied hose and clamps. Trim to length if necessary.
6. Install the edge trim seal on the filter housing. The trim is notched for the corner and the shorter 11" leg installs towards the radiator bracket.
- 7 On 2005 models with an air temperature sensor in the factory tube, transfer the sensor to the plugged grommet hole. **(Photo F)**



Photo A

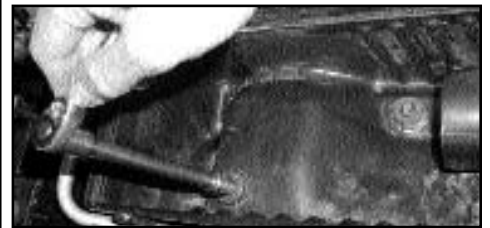


Photo B



Photo C



Photo D



Photo E



Photo F

