Brute Force Intake System

Equipped with AEM DRYFLOW Filter. No oil required!

Installation Instructions for:
Part Number 21-8300
1997-2004Jeep Wrangler 4.0L I6

ADVANCED ENGINE MANAGEMENT INC.

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Instructions Part Number: 10-8300

1997-2002 Jeep Wrangler 4.0L I6 C.A.R.B. E.O. #D-392-19

2003-2004Jeep Wrangler 4.0L I6 C.A.R.B. E.O. #Pending

Brute Force Intake Systems that are pending CARB approval are illegal in California except on racing vehicles which may never be used on public highways.

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Congratulations! You have just purchased the finest Air Induction & Filtration system for your car at any price!

The **AEM** Brute Force Intake System is the result of extensive development on a wide variety of cars. It is the most advanced short pipe air intake system on the market. Each system is specifically engineered for its particular application. All **AEM** Brute Force Intake Systems deliver maximum performance gains through the lightweight, all-aluminum, mandrel-bent tubing that is tuned in both length and diameter. The tube length and diameter are matched for each specific engine to give power over a broad RPM range. Every intake is coated with a high-gloss, heat-reducing Zirconia based powder coating. This special blend of powder coating helps reduce heat penetration, which in turn reduces the temperature of the inlet air charge. The cooler inlet air temperature translates to more power during the combustion process because cool air is denser than warm air. The <u>air mass</u> flow to the engine is increased because of the increased airflow and reduced inlet temperature, which translates to more power.

Bill of Materials for: Part #21-8300

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Read and understand these instructions **BEFORE** attempting to install this product.

1) Getting Started

- a) Make sure vehicle is parked on a level surface.
- b) Set parking brake.
- c) If engine has run with in the past two hours let it cool down.

2) Removal of the stock intake system.



a) Stock system installed on vehicle.



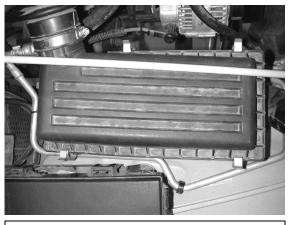
b) Remove the hose clamp securing the stock inlet tube to the throttle body.



c) Remove the breather tube from the valve cover to the stock inlet tube.



d) Remove the hose clamp securing the inlet tube to the filter box. Remove the inlet tube.



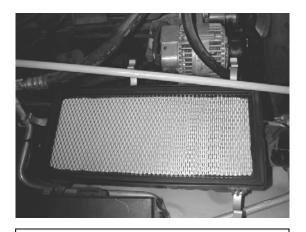
e) Remove five metal clips securing the top of the filter box to the lower filter box. Remove the filter box top from the vehicle.



g) Remove the three bolts securing the lower filter box. Remove the lower filter box from vehicle.



i) Remove the four bolts securing the throttle body to the intake manifold. Remove the two bolts securing the throttle linkage to the intake manifold.



f) Remove the air filter from the lower filter box.



h) Stock system removed from the vehicle.

Installation of the Intake System.

a) When installing the Brute Force Intake System, DO NOT completely tighten the hose clamps or mounting tab hardware until instructed to do so later in these instructions.



b) Install the rubber soft mount in the fender well using the supplied washer and nyloc nut.



c) Install the foam rubber gasket to the top of the heat shield. Install the mounting zip tie into the hole on the heat shield.



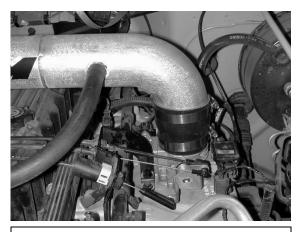
d) Install the heat shield in the vehicle. The front mounting tab will line up with one of the radiator mounting bolts. Remove this bolt and use to secure heat shield in place.



e) Use the supplied 3/8" bolts, nuts and washers to secure the heat shield in place. Use the zip tie to secure the heat shield in place with the hood support. Make sure the locking end of the zip tie is on the passenger side of the support bar. Refer to note at end of these instructions.



f) Install the throttle body spacer and the two new gaskets supplied in the kit. One gasket between the spacer and the intake manifold. The second gasket between the spacer and the throttle body. Secure in place using the supplied four new bolts. Install the three spacers (97-99 Jeep) or two spacers (00-02 Jeep) in between the throttle linkage and intake manifold. Secure in place using the supplied bolts.



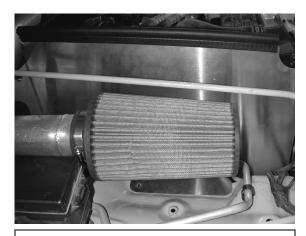
g) Install the rubber reducer onto the throttle body and use the supplied hose clamps to secure in place. Install the inlet pipe in the vehicle. The mounting tab will line up with the rubber mount.



i) Install the inlet pipe support bracket onto the rubber mount and secure in place using the supplied washer and nyloc nut.



h) Install the breather hose from the valve cover to the intake pipe. Use the supplied hose clamps to secure in place.



j) Install the filter onto the inlet pipe.



k) Intake installed on vehicle.

4) Re-assemble the vehicle

- a) Position the filter for best fitment. Be sure that the filter or any other components do not contact any part of the vehicle.
- b) Tighten all hose clamps.
- c) Tighten the bolts and nuts on the mounting bracket.
- d) Inspect & test throttle linkage for full open & closed throttle before starting and riving the vehicle. The cruise and kickdown cables may also require adjustment. Please refer to the factory service manual for proper adjustment of cables.
- e) Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are tight.
- f) Start engine and perform a final inspection before driving the vehicle.

For Technical Inquiries Please E-Mail Us At tech@aempower.com