



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

# INSTALLATION INSTRUCTIONS

## PART NUMBER: 22-483

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2003-2006 MAZDA 6 V6-3.0L Auto. Trans. Only C.A.R.B. E.O. # D-670

\* **NOTE:** Legal in California only for racing vehicles which may never be used upon a highway

## PARTS LIST

Description	Qty.	Part Number
Element Parts Kit 2.75 X 5" Dry Ele.	1	21-202DK
Short Pipe	1	2-4831
Zip Tie, 6 Long	1	1-113
Cap, Vacuum 3/16	1	444.130.10
Bolt, Socket 8-32 X 5/16 SS	2	1-2023
1/2" Bnd. Hose Clamp, 2.56"-3.50"	1	9448

Read and understand these instructions **BEFORE** attempting to install this product. Failure to follow installation instructions and not using the provided hardware may damage the intake tube, throttle body and engine.

## 1. Preparing Vehicle

- a. Make sure vehicle is parked on level surface.
- b. Set parking brake.
- c. If engine has run in the past two hours, let it cool down.
- d. Disconnect negative battery terminal.
- e. Do not discard stock components after removal of the factory system.

## 2. Removal of stock system



a. Stock air box system installed.



b. Unplug MAF sensor and loosen hose clamp at air box inlet.



c. Release all clips and remove upper air box from vehicle. Loosen the two screws securing the MAF sensor and remove it from the air box.



d. Remove the air filter from the lower air box.



e. Unplug green connector on the vacuum solenoid.



f. Pull vacuum hose off of the nipple on the air box.



g. Pull the air box up and out of the engine bay. Remove the two bolts holding down the air box bracket and remove the bracket from the vehicle.



h. Remove the vacuum solenoid from the air box. Remove all vacuum lines from the solenoid. Plug green connector back into solenoid and secure it to a wiring harness utilizing the supplied zip tie.



i. Raise the front of the vehicle with a jack. Refer to your owner's manual for proper jack and jack stand placement to properly support vehicle. Support your vehicle using properly rated jack stands before wheel removal or while working under the vehicle. **NEVER WORK UNDER A VEHICLE WITHOUT USING JACK STANDS.** Remove the driver side wheel. Release the plastic clips inside the fender well securing the liner.



j. Remove the four screws on the bottom of the fender liner.



k. Place fender liner as shown.



l. Release the three nuts securing the resonator box. Remove the resonator box from the vehicle.

### 3. Installation of AEM® intake system.

a. When installing the intake system, do not completely tighten the hose clamps or mounting hardware until instructed to do so.



b. Release the two hose clamps that hold the vacuum hose to the radiator hose.



c. Follow the vacuum hose up to the 'T' fitting. Pull the vacuum hose off of the 'T' fitting. Remove the hose from the vehicle.



d. Install the supplied vacuum cap onto the open port on the 'T' fitting.



e. Loosen the upper bolt on the frame rail.



f. Install the air filter onto the end of the pipe as shown.



g. Insert other end of pipe into the stock inlet hose. Place mounting tab under the bolt in the frame rail.



h. Install the air flow sensor into the inlet pipe utilizing the supplied screws. Plug in the air flow sensor.



i. Check the clearance of the air filter with respect to the surrounding surfaces. Tighten the hose clamp on the inlet hose and the frame bolt.

#### 4. Reassemble Vehicle

- a. **Fender liner and splashguard:** Install the fender liner, lower splash guard and any hardware that was removed in steps 2i through 2k.  
**NOTE: Failure to install the fender liner will result in diminished performance and increase the potential for engine damage due to water ingestion in rainy conditions.**
- b. **Wheel:** Install the driver side wheel using the factory torque specification (see owner's manual).
- c. Position the inlet pipes for the best fitment. Be sure that the pipes or any other components do not contact any part of the vehicle. Tighten the rubber mount, all bolts, and hose clamps.
- d. Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them.
- e. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened.
- f. Reconnect negative battery terminals and start engine. Let the vehicle idle for 3 minutes. Perform a final inspection before driving the vehicle.

## 5. CARB Sticker Placement

- a. The C.A.R.B. exemption sticker, (attached), must be visible under the hood so that an emissions inspector can see it when the vehicle is required to be tested for emissions. California requires testing every two years, other states may vary.

## 6. Service and Maintenance

- a. It is recommended that you service your AEM<sup>®</sup> Dryflow™ filter every 20,000 miles for optimum performance. Use AEM Dryflow cleaning kit part # 21-110.
- b. Use aluminum polish to clean your polished AEM<sup>®</sup> intake tube.
- c. Use window cleaner to clean your powder coated AEM<sup>®</sup> intake tube. **(NOTE: DO NOT USE aluminum polish on powder coated AEM intake tubes).**

For technical inquiries  
e-mail us at  
sales@aemintakes.com  
or  
call us at  
800.992.3000

## AEM Air Intake System Warranty Policy

AEM<sup>®</sup> warrants that its intake systems will last for the life of your vehicle. AEM will not honor this warranty due to mechanical damage (i.e. improper installation or fitment), damage from misuse, accidents or flying debris. AEM will not warrant its powder coating if the finish has been cleaned with a hydrocarbon-based solvent. The powder coating should only be cleaned with a mild soap and water solution. Proof of purchase of both the vehicle and AEM intake system is required for redemption of a warranty claim.

This warranty is limited to the repair or replacement of the AEM part. In no event shall this warranty exceed the original purchase price of the AEM part nor shall AEM be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to AEM must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is nontransferable. Improper use or installation, use for racing, accident, abuse, unauthorized repairs or alterations voids this warranty. AEM disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by AEM. Warranty returns will only be accepted by AEM when accompanied by a valid Return Merchandise Authorization (RMA) number. Credit for defective products will be issued pending inspection. Product must be received by AEM within 30 days of the date RMA is issued.

If you have a warranty issue, please call (800) 992-3000 and our customer service department will assist you. A proof of purchase is required for all AEM warranty claims.