



Equipped with AEM® Dryflow™ Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

PART NUMBER: 22-484

2003-2004 MAZDA 6 L4-2.3L Automatic 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	2-4841
Hose, Silicone 2.75x2" Black	1	5-272
Zip Tie, 6 Long	1	1-113
Vacuum Cap, 1/4	1	8-131
Mount, Rubber 1" X 8mm	1	1228560
Bracket	1	7-7222
Bolt, Socket 8-32 X 5/16 SS	2	1-2023
Bolt, Hex M6-1 X 65mm	1	1-2095
Washer, 8mm Soft Mount	1	559960
Washer, 6mm Soft Mount	1	559999
Nut, M8 Hex Serrated	1	444.460.08
Hose Clamp, 3/4"	1	4093-5
1/2" Bnd. Hose Clamp, 2.31-3.25"	2	9444
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 both the negative and positive battery terminals.
- e. Remove the plastic engine cover.
- f. Do not discard stock components after removal of the factory system.

2. Removal of stock system



a. Stock air box system installed.



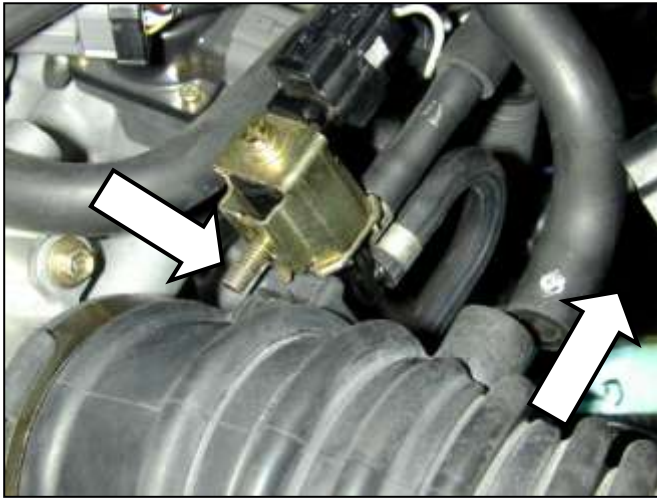
b. Release the green plug on the vacuum solenoid located next to the air box.



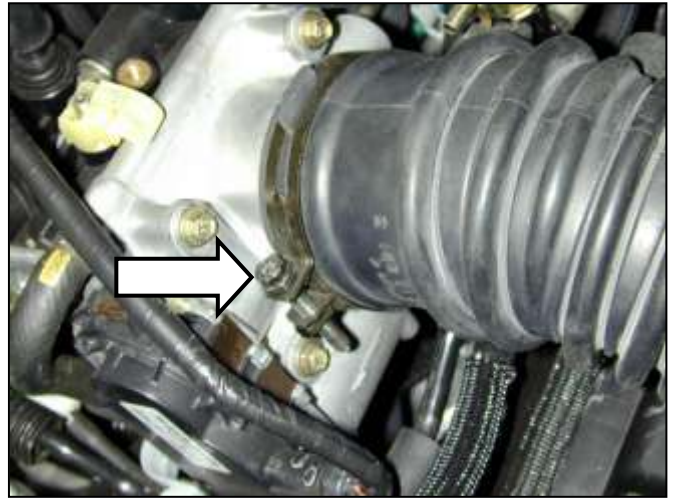
c. Pull the vacuum hose off of the air box nipple.



d. Unplug the mass air flow (MAF) sensor. Remove MAF sensor from air box.



e. Pull the crankcase breather hose off of the inlet tubing. Remove the nut that secures the vacuum solenoid to the metal bracket and save it for later use.



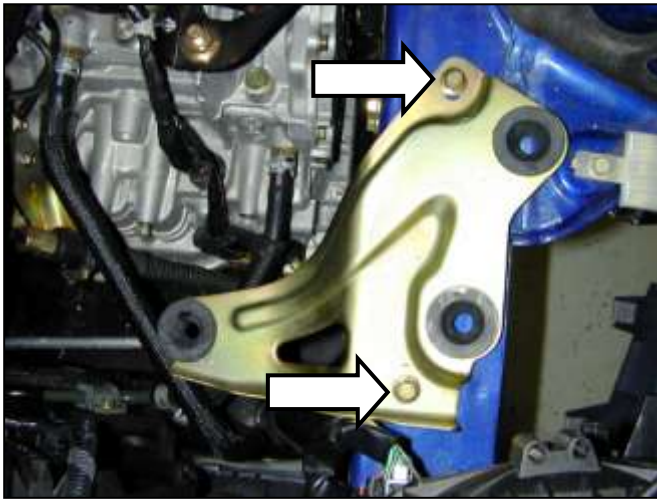
f. Loosen the hose clamp at the throttle body. Pull the inlet hose off of the throttle body.



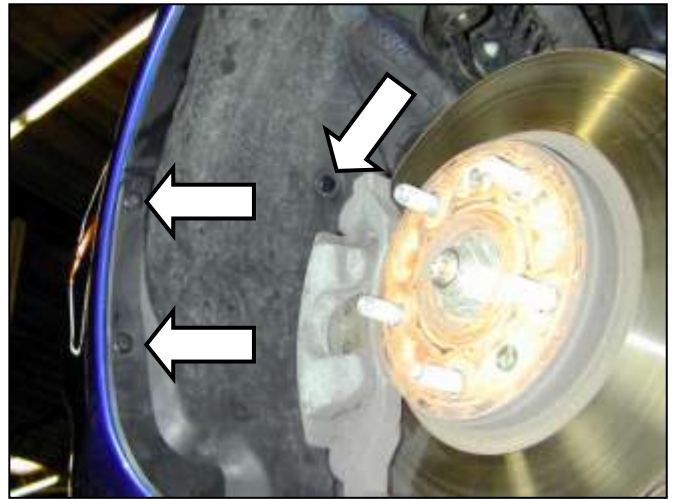
g. Pull the air box up and out of the engine bay.



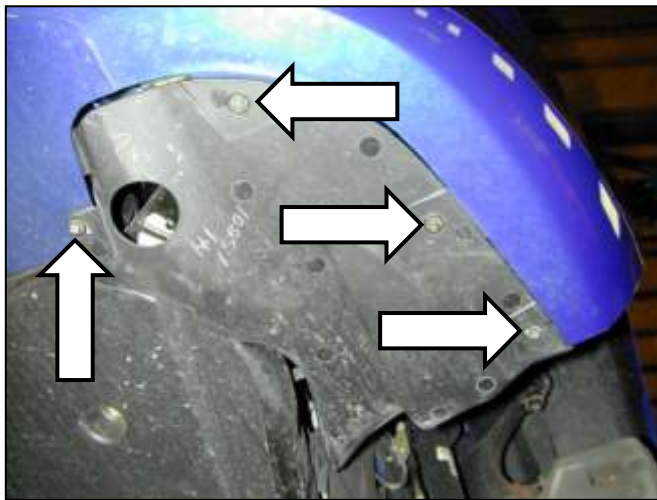
h. Remove the vacuum solenoid from the air box. Remove the 2 vacuum lines from the solenoid. **Plug the green connector back** into solenoid and secure it to a wiring harness utilizing the supplied zip tie.



i. Remove the air box support plate.



j. 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.
Release the three plastic rivets securing the fender liner.



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



l. Place the fender liner as shown.



m. Remove the three nuts that secure the lower air box to the vehicle.



n. Remove the lower air box from the vehicle.

3. Installation of AEM® intake system.

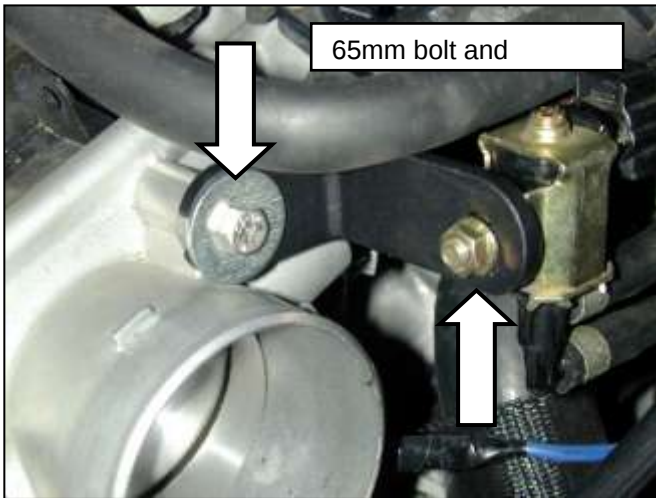
a. When installing the intake system, do not completely tighten the hose clamps or mounting hardware until instructed to do so.



b. Follow the vacuum hose (that was earlier pulled off of the air box) up to the intake manifold. Pull vacuum hose off nipple on the intake manifold.



c. Cover the open nipple with the supplied vacuum cap.



d. Remove the upper, rear bolt on the throttle body.



e. Use the supplied 65mm bolt and washer to secure the bracket to the throttle body. Install vacuum solenoid utilizing the stock nut as shown.



f. Install the supplied silicone hose onto throttle body.



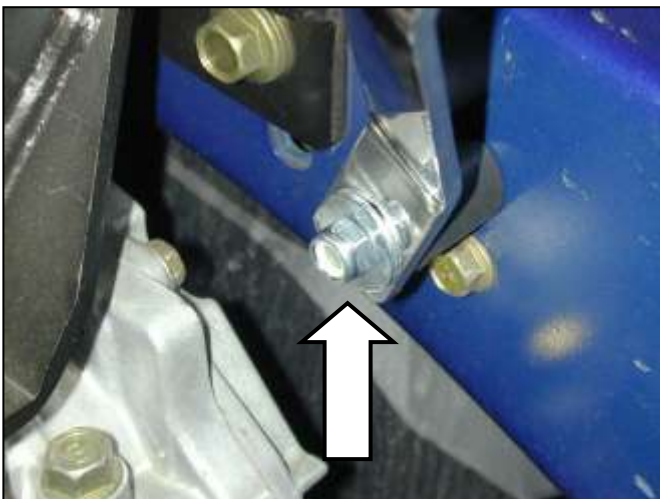
g. Remove the upper bolt in the frame rail.



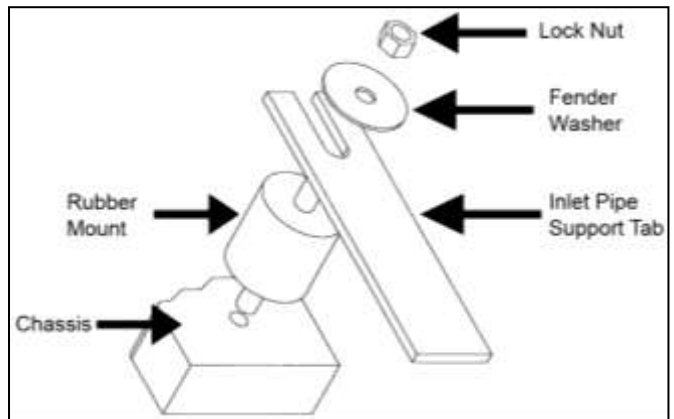
h. Install supplied rubber mount as shown.



i. Install the inlet pipe as shown. Do not tighten hose clamps.



j. Place the support bracket behind the rubber mount washer as shown.



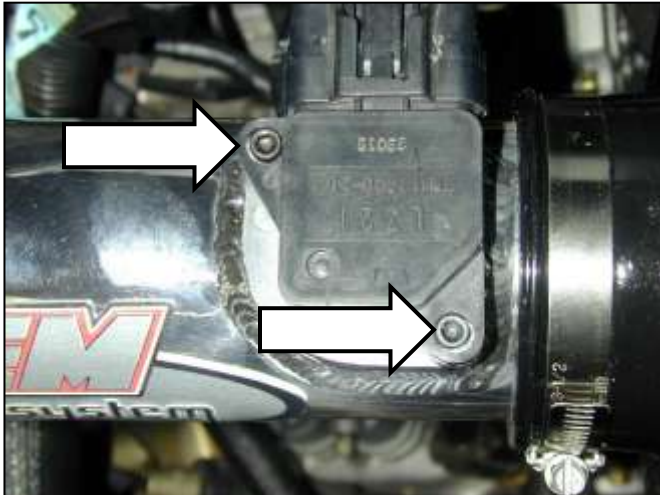
Proper rubber mount assembly.



k. Install crankcase breather hose onto nipple. Secure hose with the supplied 3/4" hose clamp.



l. Install the air filter onto the end of the pipe.



m. Install the MAF sensor into inlet pipe. Secure it with the supplied screws. Plug in the MAF sensor.



n. Install the engine cover.

4. Reassemble Vehicle

- a. **Fender liner:** Install the fender liner and any hardware that was removed in steps 2j through 2l.
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 both the positive and 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[®] 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[®] intake tube.
- c. Use window cleaner to clean your powder coated AEM[®] 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[®] 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.