



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

## INSTALLATION INSTRUCTIONS

**PART NUMBER: 22-450**

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2000-2003 FORD Focus L4-2.0L

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 2.50 X 5" Dry Ele.	1	21-201DK
Short Pipe	1	2-4502P
Elbow, 3.15/2.5 90 Deg.	1	5-301
Hose; 5/8"ID X 19"L	1	5-7019
Stud, 6m-1 X 50	1	1-103
Wrench; Torx T20 T/R, L-Key	1	69801
Spacer, 1.00 OD .256 ID X 1"	1	2-658
Washer, 6mm Soft Mount	1	08160
Nut, M6 Hex Serrated	1	444.460.04
1/2" Bnd. Hose Clamp, 2.56"-3.50"	1	9448
1/2" Bnd. Hose Clamp, 2.15-3.00"	1	9440
Hose Clamp, 1"	2	99024.032
1/2" Bnd. Hose Clamp, 2.31-3.25"	1	9444

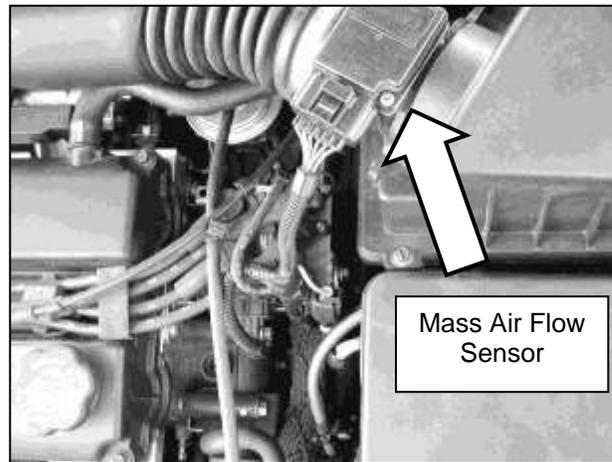
**Read and understand these instructions BEFORE attempting to install this product. Failure to follow installation instructions and not using the provided hardware may damage the intake tube, throttle body and engine.**

## **1. Preparing Vehicle**

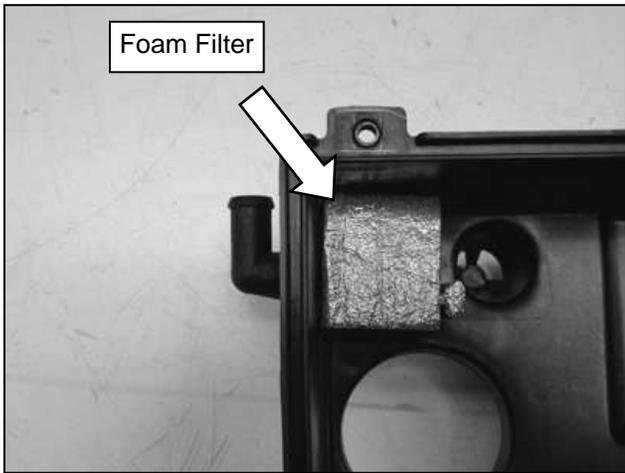
- a. Make sure vehicle is parked on level surface.
- b. Set parking brake.
- c. If engine has run in the past two hours, let it cool down.
- d. Disconnect negative battery terminal.
- e. Do not discard stock components after removal of the factory system.

## **2. Removal of stock system**

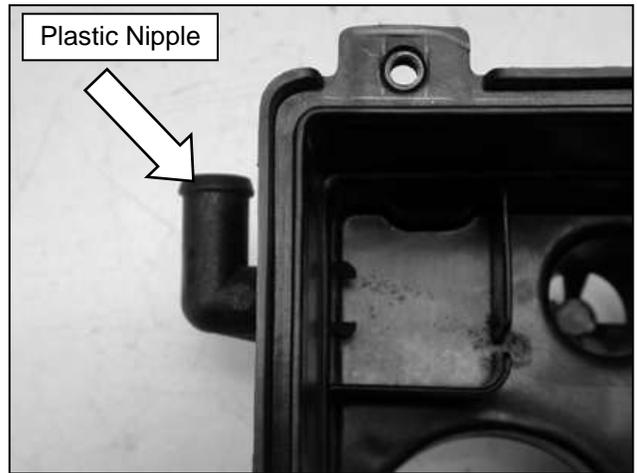
- a. Loosen the hose clamps that secure the primary inlet tube to the throttle body and mass air flow sensor.
  - i. Remove the primary inlet tube.
- b. Disconnect the wiring harness from the mass air flow sensor.



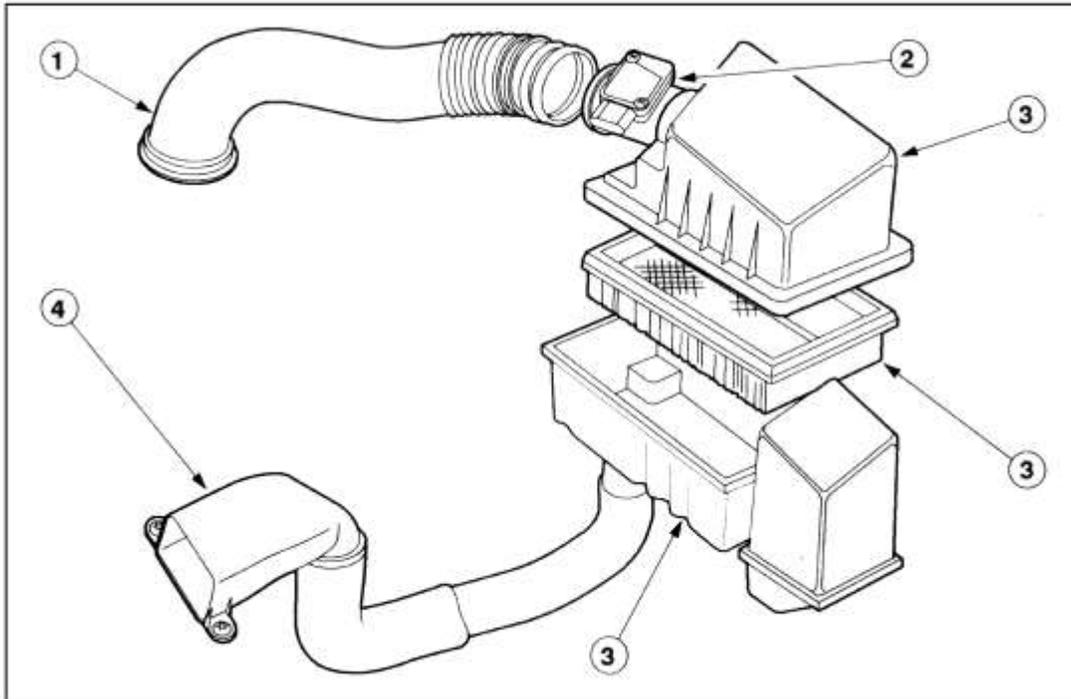
- c. Remove the sensor from the air cleaner housing using the supplied torx tool. Be careful not to damage the mass air flow sensor and set aside. It will be reinstalled with the AEM<sup>®</sup> intake system.
- d. Remove the breather hose from the valve cover and air cleaner housing.
- e. Remove the air cleaner housing from the vehicle by pulling straight up on the housing.
- f. Remove the two plastic hold downs from the secondary inlet tube.
- g. Remove the secondary inlet tube from the engine mount by lifting straight up. Once the inlet tube is detached, remove the tube from the vehicle through the front of the vehicle.
- h. Remove the upper portion of the air cleaner housing assembly. Remove the stock air filter from the lower air cleaner housing.



i. Remove the foam filter from the lower air cleaner housing.



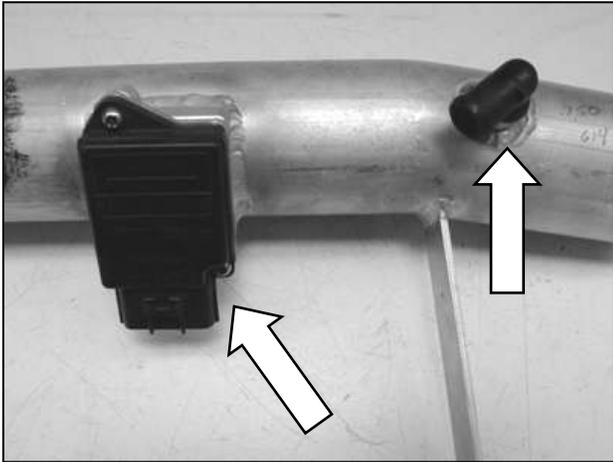
j. Remove the plastic nipple from the lower air cleaner housing and set aside as it will be used with the installation of the AEM<sup>®</sup> intake.



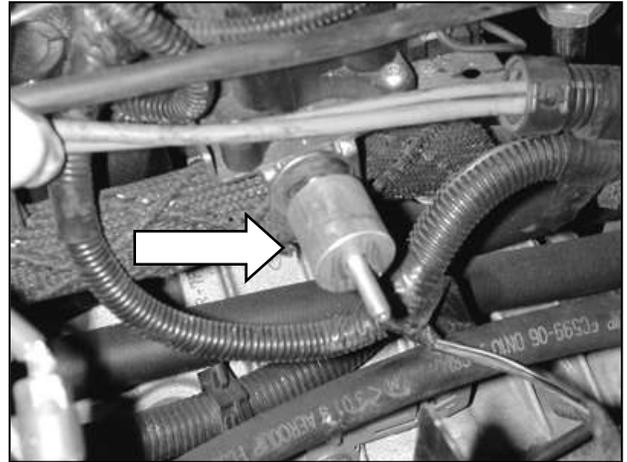
1. Primary stock intake piping	3. Air cleaner housing assembly
2. Mass air flow sensor	4. Secondary stock intake piping

### 3. Installation of AEM® Intake System

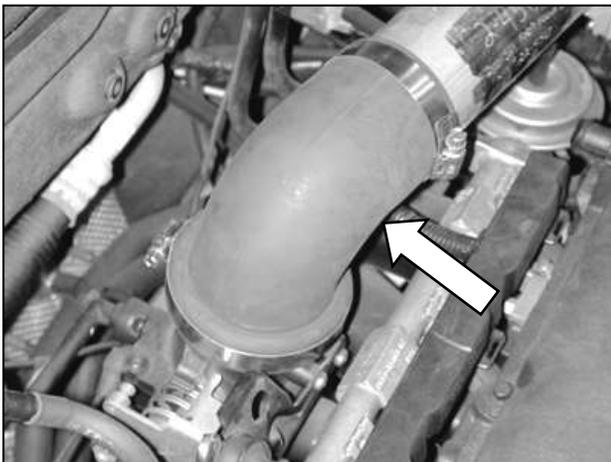
- a. When installing the intake system, do not completely tighten the hose clamps or mounting hardware until instructed to do so.
- b. Check to see that the inside of the AEM® intake pipe and air filter are clean and free from any obstructions.



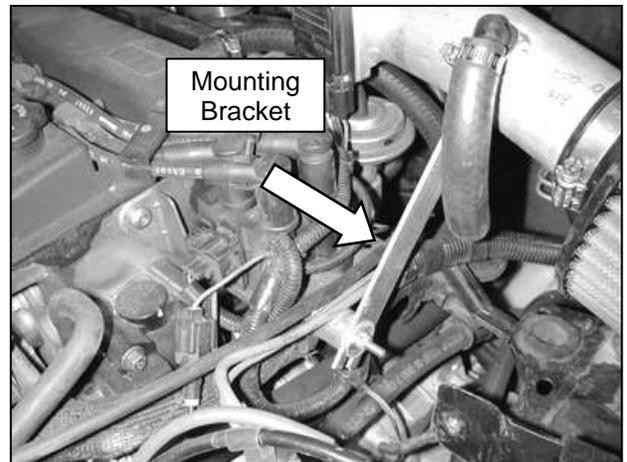
c. Install the mass air flow sensor and the plastic nipple onto the AEM® intake pipe.



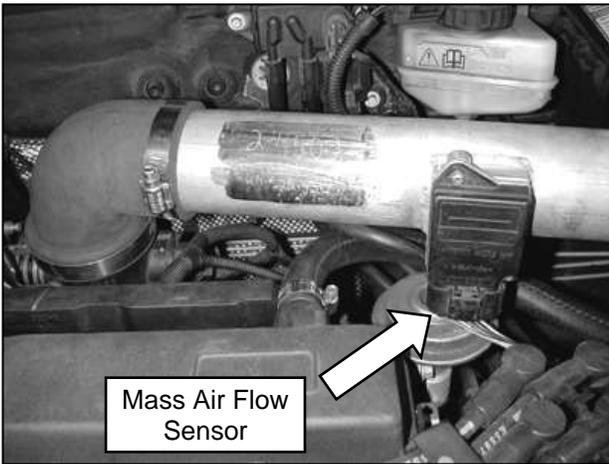
d. Remove the distributor coil pack bracket bolt and replace with the supplied stud and standoff.



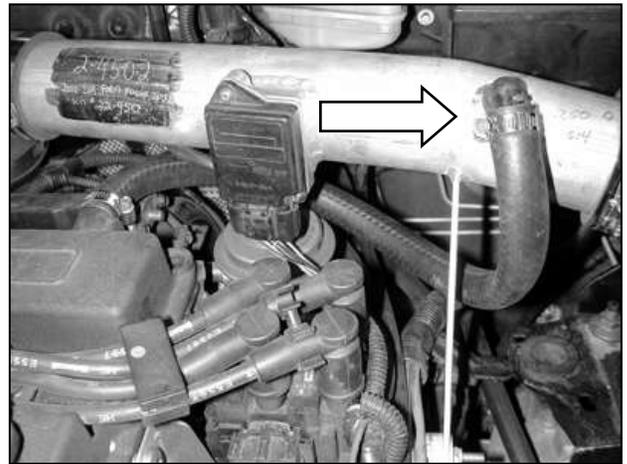
e. Install the supplied rubber elbow on the throttle body using the supplied 3" hose clamp. Install the intake pipe into the rubber elbow and secure it with the supplied 2.5" hose clamp.



f. Line up the intake pipe mounting bracket with the stud and standoff and secure with the supplied washer and lock nut.



g. Install the supplied breather hose onto the valve cover nipple and secure with a 1" hose clamp. Also connect the wiring harness connector to the mass air flow sensor.



h. Install the second end of the breather hose onto the plastic nipple as shown. Secure with the supplied 1" hose clamp.



i. Install the AEM<sup>®</sup> air filter onto the intake pipe and secure with the supplied hose clamp.



AEM<sup>®</sup> intake system installed

j. Check the placement of the air inlet pipe for proper alignment. Ensure that the intake pipe does not contact any components along its route or interfere with the function of any other accessory. Ensure the intake pipe does not rub the transmission mount.

#### 4. Reassemble Vehicle

- a. 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.
- b. Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them.
- c. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened.
- d. 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
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## 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.