



Equipped with AEM® Dryflow™ Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

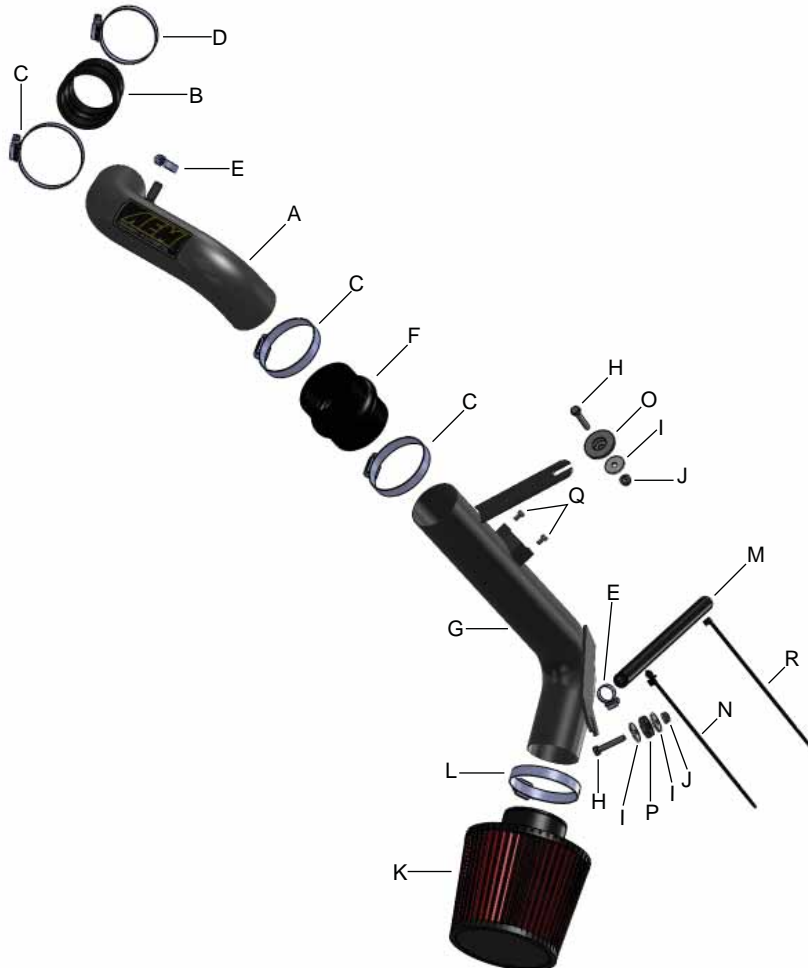
PART NUMBER: 21-703

2011 FORD Fiesta L4-1.6L SEE * NOTE

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

PARTS LIST

Description	Qty.	Part Number
A	1	2-1461
B	1	5-255
C	3	9440
D	1	9436
E	2	4093-5
F	1	5-525
G	1	2-1462
H	2	1-2002
I	3	08160
J	2	444.460.04
K	1	21-2011D
L	1	9444
M	1	5-10048
N	1	1-127
O	1	2-670
P	1	2-665
Q	2	1-2105
R	1	1-115



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.

The AEM® intake system is a performance product that can be used safely during mild weather conditions. During harsh and inclement weather conditions, you must return your vehicle to stock OEM air box and intake tract configuration. Failure to follow these instructions will void your warranty.

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. Do not discard stock components after removal of the factory system.

2. Removal of stock system



a. Stock air box system installed.



b. Disconnect the negative battery terminal using a 10mm socket. Also disconnect the MAF sensor harness connector from the MAF sensor.



c. Remove the electrical tape from the MAF sensor clip.



d. Using needle-nose pliers, loosen the hose clamp and disconnect the valve cover hose.



e. Unclip the plastic tube from the two header clips.



f. Disconnect the upper breather hose from the stock intake tube. Loosen the hose clamp securing the intake tube to the throttle body and then disconnect the stock intake tube from the throttle body.



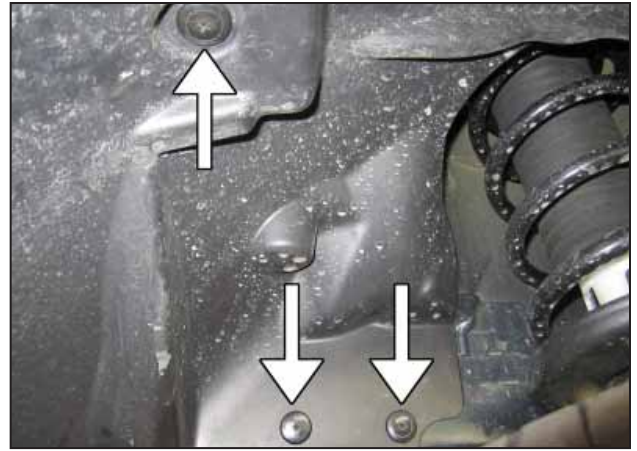
g. Disconnect the front air inlet duct using a flat head screwdriver. Ensure the MAF sensor harness connector and upper breather hose are tucked away from the air box, then carefully pull the stock air box up and out from the engine bay.



h. 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 the 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 3 7/32" bolts from underneath the front bumper.



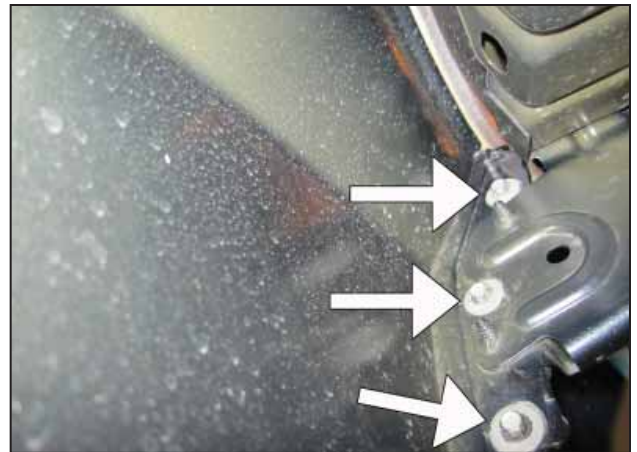
i. Remove the 2 T25 screws and 1 plastic clip from the front driver and passenger wheel wells as shown. You may need to turn the wheels to access T25 screws.



j. Remove the 3 plastic clips from each front inner wheel well liner.



k. Pull back the front part of the wheel well plastic underlining and disconnect the front bumper light harness clips.



l. Remove the 3 8mm bolts securing the bumper to the fender on the driver and passenger side.



m. Remove the 4 clips above the front grill and carefully slide the bumper off.



n. Loosen the two plastic clips securing the lower grill air director on the driver's side and remove.
NOTE: Keeping this component on the vehicle will restrict the AEM® intake system from optimal performance.

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. Remove the self-tapping M6 bolt and red clip from the lower mount of the washer bottle reservoir.



c. Replace with bolt removed in the previous step with the provided M6 bolt, M6 washer and spacer as shown.



d. Remove the 2 self tapping screws on the MAF sensor mounted to the stock air box.



e. Install the MAF sensor into the lower AEM® intake tube with the 2 provided M4 screws.



f. Insert the aluminum stand into the left rubber grommet of the factory air box mount. Slide the provided M6 bolt through the spacer and rubber grommet as shown.



g. Slide a washer and M6 nut onto the M6 bolt as shown. Thread the bolt on about 3-4 threads.



h. From underneath the vehicle, position the lower intake pipe so the upper bracket slides between the rubber grommet and washer. Hand tighten the M6 nut, but do not fully tighten until instructed to do so.



i. Slide lower bracket in place against aluminum spacer and fasten with provided washer and M6 nut as shown. Hand tighten the M6 nut, but do not fully tighten until instructed to do so.



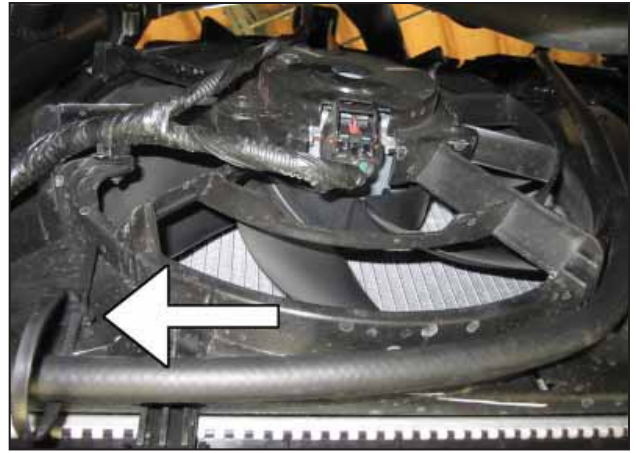
j. Install the air filter onto the lower intake pipe and secure with a #44 hose clamp. Tighten the upper and lower M6 nuts on each of the mounting brackets once adequate clearance for the air filter is achieved.



k. Using a mild soap mixture, attach the supplied 3/8 hose to the valve cover nipple and secure with the factory hose clamp.



l. Secure the 3/8 hose to the front upper radiator support using the provided zip tie.



m. From underneath the vehicle, run the 3/8 hose around the radiator fan and use the provided tree mount zip tie to firmly secure the hose around the fan housing as shown. Trim off the excess zip tie end after tightening.



n. Attach the hose to the lower intake pipe's nipple; trim if necessary. Secure the hose onto the pipe's nipple using the provided small hose clamp.



o. Install the 2¼"-2½" coupler onto the throttle body with the #36 hose clamp. Slide a #40 hose clamp onto the open end of the coupler.



p. Insert the hump coupler onto the lower intake pipe with two #40 hose clamps. Leave a 1" space between the upper bracket and the edge of the hump coupler. Tighten the lower hose clamp.



q. Insert the upper pipe into the hump coupler with the nipple facing the battery. Slide the upper end of the pipe into the coupler attached to the throttle body. Ensure the pipe is seated in the coupler and secure both hose clamps on the throttle body coupler.



r. Check the upper intake pipe's position within the hump coupler by squeezing the edge before the hump. Ensure there is proper clearance between the upper and lower pipes prior to tightening the hose clamps. Adjust the upper pipe's height if necessary and ensure the hose clamps are secured.



s. Unclip the vacuum hose above the negative battery terminal and slide the hose out an additional inch (1"), then re-fasten the clip. Attach the vacuum hose to the upper pipe's nipple and secure with a small hose clamp.



t. Connect the MAF sensor's harness plug back into the MAF sensor and lock by pressing down the red clip.



u. Check for clearance around the AEM® air filter and near the radiator and adjust if necessary.

4. Reassemble Vehicle

- a. **Front Bumper:** Install the bumper in the reverse order it was removed, ensuring all hardware is properly secured. Connect the harness plugs for the bumper's lighting on each side.
- b. **Fender Liner:** Install the fender liner, inner wheel well liner and any hardware that was removed in steps 2i. through 2j.
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.
- 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 the negative battery terminal and start the engine. Let the vehicle idle for 3 minutes. Perform a final inspection before driving the vehicle.

5. Service and Maintenance

- a. AEM Induction Systems requires cleaning the intake system's air filter element every 100,000 miles. When used in dusty or off-road environments, our filters will require cleaning more often. We recommend that you visually inspect your filter once every 25,000 miles to determine if the screen is still visible. When the screen is no longer visible some place on the filter element, it is time to clean it. To clean, purchase our Synthetic air filter cleaner, part number 99-0624 and follow the easy instructions.
- 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.