



Equipped with AEM® Dryflow™ Filter  
No Oil Required!

## **INSTALLATION INSTRUCTIONS**

**PART NUMBER:**

**21-518B (Blue Finish)**

**21-518C (Gun Metal Grey Finish)**

**21-518P (Vacuum Metalized Chrome-VMC)**

**21-518R (Red Finish)**

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2007-2008 HONDA Fit L4-1.5L Manual Trans. C.A.R.B. E.O. # D-670-15

**Intake systems for vehicles listed are 50  
state legal. See [AEMIntakes.com](http://AEMIntakes.com) for CARB  
status on each part for a specific vehicle.**

## PARTS LIST

Description	Qty.	Part Number
Element Parts Kit 2.75 X 5" Dry Ele.	1	21-202DK
Upper Pipe	1	2-730
Lower Pipe	1	2-731
Hose, Adapter 2.50/2.75 X 2" Bl.	1	5-256
Hose, Silicone 2.75x2" Black	1	5-272
Mount, Rubber 1" X 6mm	1	1228599
Drain Valve, 0.500"	1	8-145
Grommet, 3/8"	1	784633
Hose; 3/8"ID X 4"L	1	5-1004
Bracket, Honda Fit Manual Tran. - Zinc Black	1	32-3047
Washer, 6mm Soft Mount	2	08160
Nut, M6 Hex Serrated	2	444.460.04
Hose Clamp, 3/4"	2	4093-5
1/2" Bnd. Hose Clamp, 2.31-3.25"	3	9444
1/2" Bnd. Hose Clamp, 2.15-3.00"	1	9440
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.

The AEM<sup>®</sup> 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. Disconnect negative battery terminal.
- e. 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.**

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

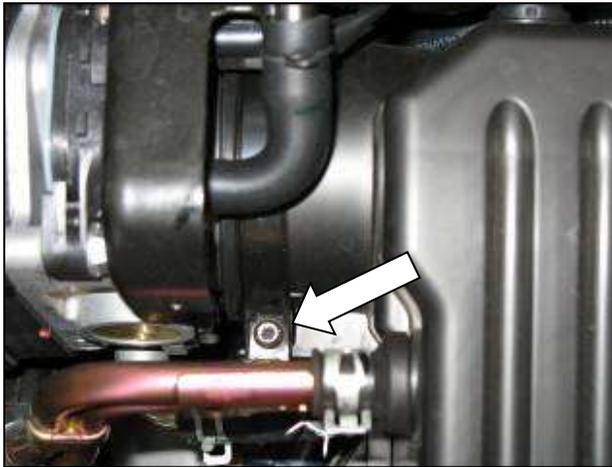
### 2. Removal of stock system



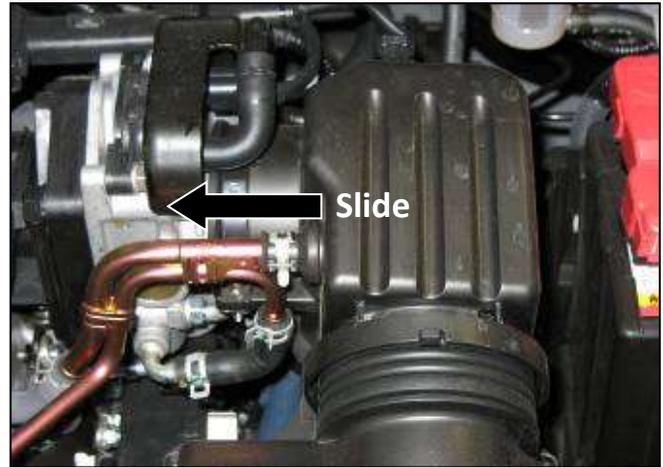
a. Stock air box system configuration.



b. Unplug the Inlet Air Temperature (IAT) sensor from the wiring harness on the back side of the resonator as shown.



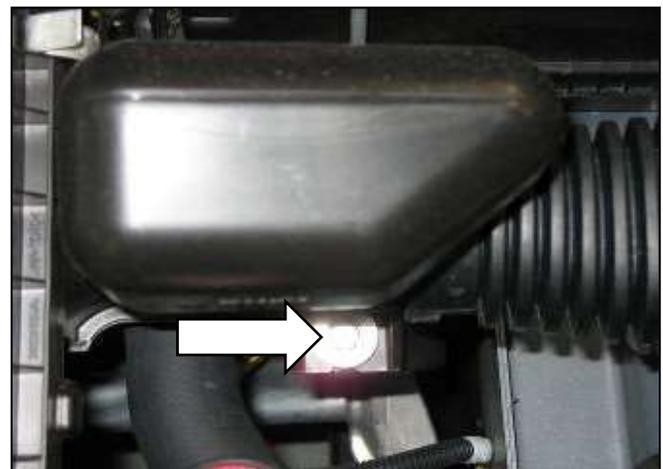
c. Loosen the factory hose clamp on the throttle body.



d. Remove the metal breather hose from the upper resonator by compressing the clamp and pulling the hose out of the resonator.



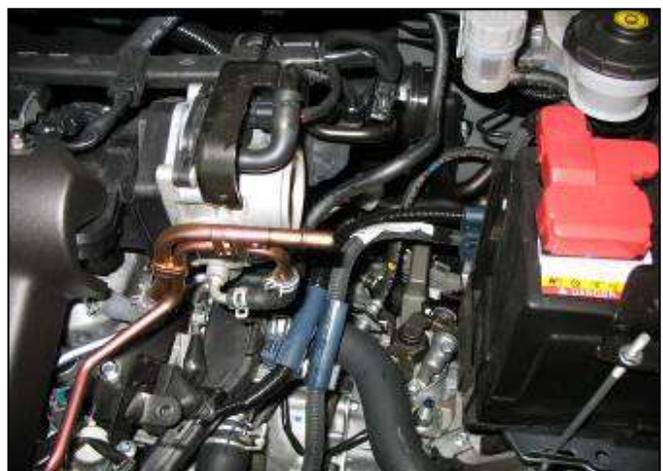
e. Remove the two bolts securing the air filter housing and upper resonator to the vehicle. Start with the bolt closest to the engine.



f. Remove the remaining bolt near the air inlet hose.



g. Remove the air inlet hose from the air filter housing by sliding off the housing.



h. Remove the air filter housing and resonator from the vehicle by sliding the resonator off the throttle body and lifting straight out.



i. Remove the air inlet hose from the chassis by removing the plastic retaining clip securing it and pulling it out of the fender opening.



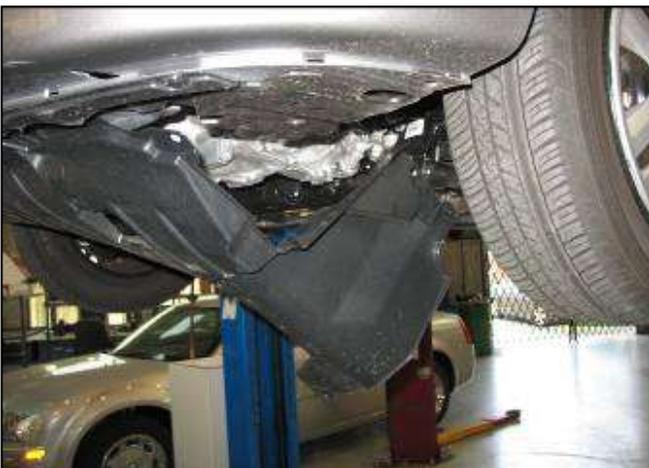
j. Remove the retaining clips and bolts securing the driver side splash shield to the bumper and chassis.



k. From inside the wheel well, remove the retaining clips securing the underbody tray to the chassis.



l. From underneath the vehicle remove the plastic retaining clip located on the driver's side subframe.



m. Unclip the underbody tray from the driver's side fender liner and let it hang to gain access behind the front bumper as shown.



n. From underneath the vehicle, trim the driver's side fender liner to allow clearance.



o. Trimmed fender liner as shown.



p. Carefully remove the IAT sensor from the previously removed resonator and air filter housing.



q. Remove the two bolts from the transmission housing shown above. These will be replaced in step 3b.



r. Stock air box system removed

### 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. Install the transmission bracket using the two bolts removed in step 2q. with the third hole towards the front of the vehicle as shown. Torque bolts to 33 ft-lbs.



c. Install the supplied rubber mount into the previously installed transmission bracket using a flat washer and serrated nut. The rubber mount should face the driver's side.



d. Install the rubber grommet into the hole on the short upper pipe as shown.



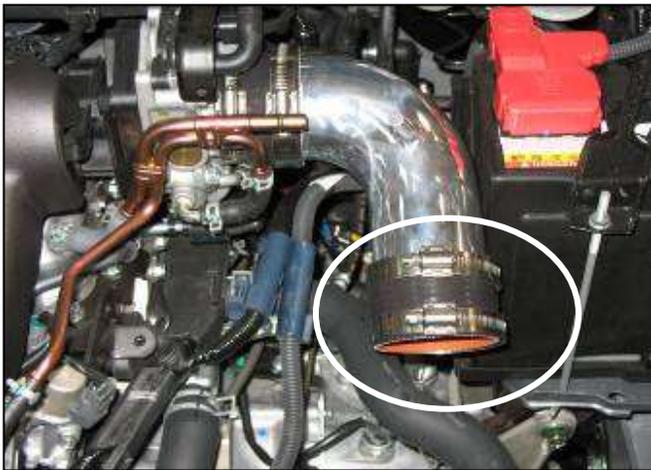
e. Carefully install the IAT sensor into the grommet. Fitment may be tight, if so use soapy water to ease installation.



f. Install the supplied reducing coupler onto the throttle body using a #40 and a #44 hose clamp as shown.



g. Slide the short upper intake pipe into the throttle body with the IAT sensor facing the firewall. If clearance is needed, loosen the battery mount and slide battery away from pipe.



h. Install the straight coupler onto the end of the upper pipe and secure using two #44 hose clamps.



i. Locate the hole on the lower intake pipe and insert the supplied duck bill drain as shown.



j. From under the vehicle, slide the lower intake pipe up and into the previously installed coupler. Align the bracket with the rubber mount installed in step 3c.



k. With the intake pipe bracket aligned with the rubber mount, install a washer and serrated nut to secure.



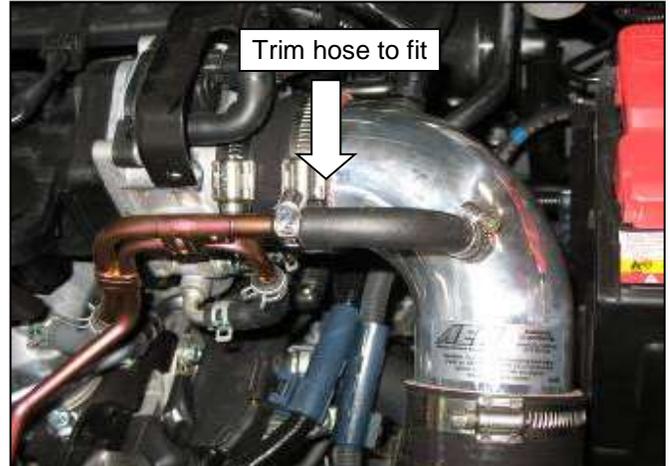
l. From under the vehicle, install the AEM® Dryflow™ air filter onto the end of the lower pipe. Push the air filter onto the intake pipe until the stop inside is reached. Then secure the air filter using a #48 hose clamp.



m. Check for clearance around the lower pipe. If the radiator hose is too close or touching, gently bend its support bracket for clearance. Once clearance has been verified, tighten all hose clamps and the nut on the rubber mount.



n. Plug the IAT sensor harness that was disconnected in step 2b into the installed sensor on the upper intake pipe.



o. Install the supplied 3/8" breather hose between the steel breather line and the nipple on the pipe. Secure using the two 3/4" hose clamps as shown.



Factory air box system installed



AEM® intake system installed

#### 4. Reassemble Vehicle

- a. **Splashguard and underbody tray:** Install the splash guard, underbody tray and any hardware that was removed in steps 2j through 2m.

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

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