



Equipped with AEM® Dryflow™ Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

PART NUMBER: 21-429DS (Plastic Intake Tube)

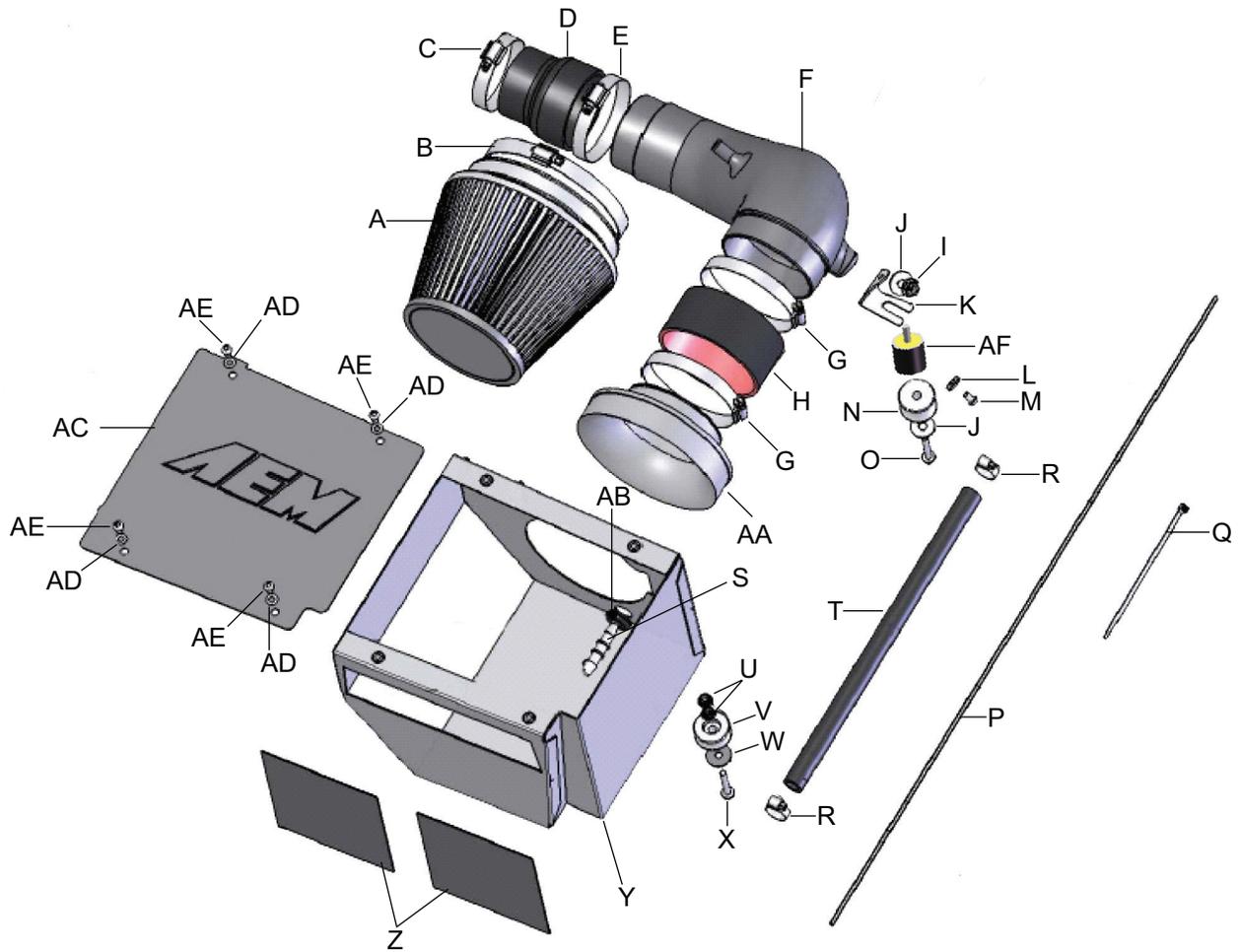
2008-2009 DODGE Caliber SRT-4 L4-2.4L C.A.R.B. E.O. # D-670-15

Intake systems for vehicles listed are 50 state legal. See AEMIntakes.com for CARB status on each part for a specific vehicle.

PARTS LIST

	Description	Qty.	Part Number
A	Element Parts Kit 6.00 X 5" Reg/Top Dry	1	21-209EDK
B	1/2" Bnd. Hose Clamp, 4.125-7.00"	1	94104
C	1/2" Bnd. Hose Clamp, 2.15-3.00"	1	9440
D	Hose, Adapter 2.50/3.0" X3"	1	5-253
E	1/2" Bnd. Hose Clamp, 2.56"-3.50"	1	9448
F	Inlet Tube	1	9-429
G	1/2" Bnd. Hose Clamp, 3.56"-4.50"	2	9464
H	Hose, Silicone 4.00x2" Black	1	5-402
I	Nut, M8 Hex Serrated	1	444.460.08
J	Washer, 8mm Soft Mount	2	559960
K	Bracket, 21-429	1	7-7429
L	Washer, M6 X 12mm OD Zinc	1	1-3018
M	Bolt, Socket M6-1 X 12mm	1	1-2045
N	Stand-Off, Alum. 1.593 "H .325" ID	1	2-924
O	Bolt, Hex/flange M8-1.25 X 50	1	1-2064
P	Rubber Edge Trim 37"	1	8-3037
Q	Zip Tie, 6 Long	1	1-113
R	Hose Clamp, 1"	2	99024.032
S	Connector, Plastic 5/16".	1	8-148
T	Hose; 1/2"ID X 17"L	1	5-5017
U	Nut, M6 Hex Serrated	2	444.460.04
V	Stand-off, Alum. 1.28 "H .325" ID	1	2-923
W	Washer, 6mm Soft Mount	1	559999
X	Bolt, Hex/Flange M6-1 X 40	1	1-2075
Y	Air Box	1	20-4292
Z	Neoprene, 1/16" X 6" X 5" Adhes.	2	8-121-5
AA	Adapter, Nylon A/F 4" Inlet/6" Filter	1	9-0372
AB	Grommet, 1/2"	1	784634
AC	Lid, Air Box	1	20-4291A
AD	Washer, #12 Nylon 6/6	4	1-3001
AE	Bolt, Button Head M6-1.0 X 10mm	4	1-112
AF	Mount, Rubber 1" X 8mm Male/Fem.	1	1228559

KIT DIAGRAM



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

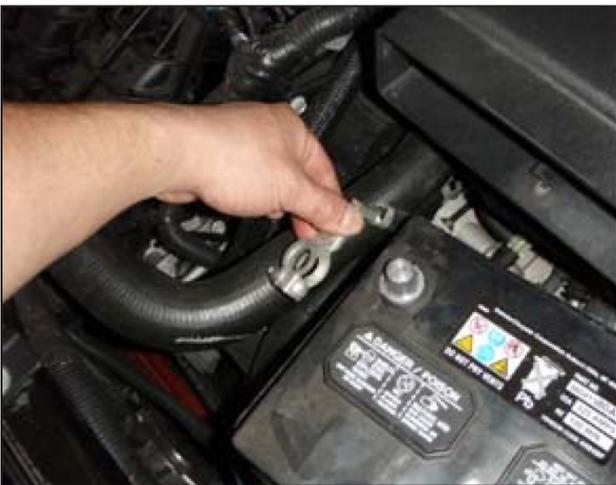
2. Removal of stock system



a. Release the two tabs securing the factory air inlet.



b. Remove the factory air inlet from the air box assembly.



c. Disconnect the negative battery terminal.



d. Release the sensors mounted to the rear of the factory air box lid.



e. Loosen hose clamp securing the charge pipe to the coupler on the intercooler.



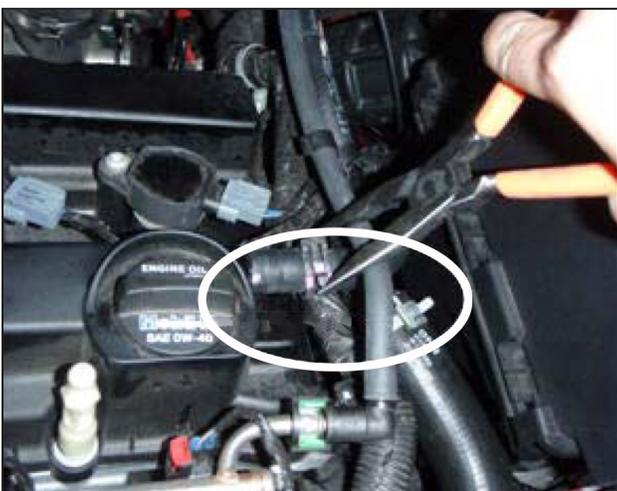
f. Loosen hose clamp securing the charge pipe to the coupler above the engine cover.



g. Remove the charge pipe from vehicle.



h. Remove engine cover by pulling upward at the outer edges.



i. On the valve cover side of the PCV hose, slide clamp away to disconnect the hose.



j. Disconnect the small rubber hose on the back side of the air box.



k. Loosen hose clamp securing the factory inlet tube to the air box assembly. Disconnect the inlet tube from the air box.



l. Remove factory air box assembly as a whole by pulling upward; the air box is held in place with rubber grommets.



m. Loosen the hose clamp securing the factory inlet tube to the turbocharger and remove factory inlet tube.



n. There are 3 grommets on the pan that hold the factory air box. The center and rear one will need to remain on the vehicle for the AEM® air intake system. Remove the grommet that is closest to the battery.



o. Remove the two M6 nuts next to the engine computer, they will be utilized in a later step.



p. The engine bay should look like this, ready for the AEM® intake installation process.

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 2.50" to 3.00" hose adapter on the inlet tube and make sure it's fully seated. Place a #48 hose clamp on the larger diameter side of the hose adapter and lightly secure allowing the clamp to be rotated but not able to slip off.



c. On the smaller diameter side of the hose adapter, place a #40 hose clamp and lightly secure. Make sure the clamp can still be rotated. Angle both clamps in the position as shown, this will allow them to be tightened down in the vehicle with ease.



d. Prepare a M8 washer on the flanged M8 bolt for the following step.



e. The hardware in step 3d will be installed as shown in the grommet furthest from the battery.



f. Slide the .93" tall aluminum stand on to the grommet and the hardware, support the bolt from the bottom so it doesn't slip out (Two aluminum stands are provided in this kit, this step uses the taller one).



g. Install the 8mm x 1" tall rubber mount and tighten the assembly.



h. Bolt the inlet tube bracket to the inlet tube and secure with a socket head M6 screw and M6 x 12 O.D. washer.



i. Install the inlet tube. Start by lining up the hose adapter to the turbocharger inlet and then the bracket to the rubber mount installed in step 3g.



j. With the inlet tube bracket in place, install an 8mm washer and 8mm serrated nut, lightly secure.



k. With the rubber edge trim, cut and install on all four edges of the air box opening as shown.



l. With the rubber edge trim, cut and install on the large circular opening as shown. Install the $\frac{3}{4}$ " ID grommet in the hole below the large opening and slip in the white plastic connector as shown, the fit will be snug.



n. Peel the backing from the adhesive neoprene sheets and apply them to the air box.



p. Prepare a M6-1 x40mm bolt and M6 washer for the following step.



m. With the two adhesive neoprene sheets, place them over the front face of the air box and trim them to cover the front face.



o. With both neoprene sheets applied, the front of the air box should look like this.



q. The hardware prepared in step 3p is installed as shown in the middle grommet.



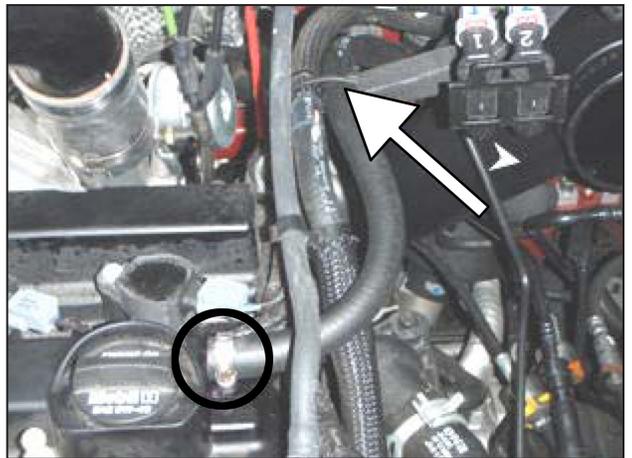
r. Slide the .63" tall aluminum stand into the grommet and the hardware, support the bolt from the bottom so it doesn't slip out.



s. Use a 6mm hex nut to secure and tighten the hardware.



t. Install the PCV hose on the nipple on the inlet tube and secure with the 1" hose clamp.



u. Connect the other end of the PCV hose to the nipple on the valve cover and secure with a 1" hose clamp. Use the supplied zip tie to secure the hose as shown (see arrow in photo).



v. Place the air box into the engine bay close to where the factory air box originally sat and at the same time, reach under the box and connect the rubber hose that was disconnected in step 2j to the white plastic connector.



w. Properly connected rubber tube in previous step should look like this, make sure the plastic connector is snug and centered in the grommet.



x. Seat the air box on the three threaded M6 studs and install a M6 hex nut on the bolt to the left. Install the M6 hex nuts removed in step 2o on the two studs to the right.



y. Assemble the air horn and 4" diameter coupler, place two size 64 hose clamps in the exact position as shown. Tighten down the clamp closest to the air horn.



z. Install the assembly from the previous step on to the inlet tube through the inside of the air box and tighten down the clamp.



aa. Install the air filter onto the air horn and use a size 104 clamp to secure. Slide the sensor assembly (circled) on to the rear of the air box.



ab. Install the factory air inlet duct by inserting the duct into the air box opening and then the two clips into their factory mounting position. Twist the two clips to secure the duct.



ac. Position the inlet tube, air horn and filter assembly for clearance around surrounding components. Once the optimal position is set, tighten the hose clamps on the hose adapter at the turbo-charger and the nut on the inlet tube bracket.



ad. Place the AEM® lid above the air box and make sure the tab on the upper left hand corner holds the factory sensor bracket in place.



ae. Place a nylon washer on each of the four fastener locations.



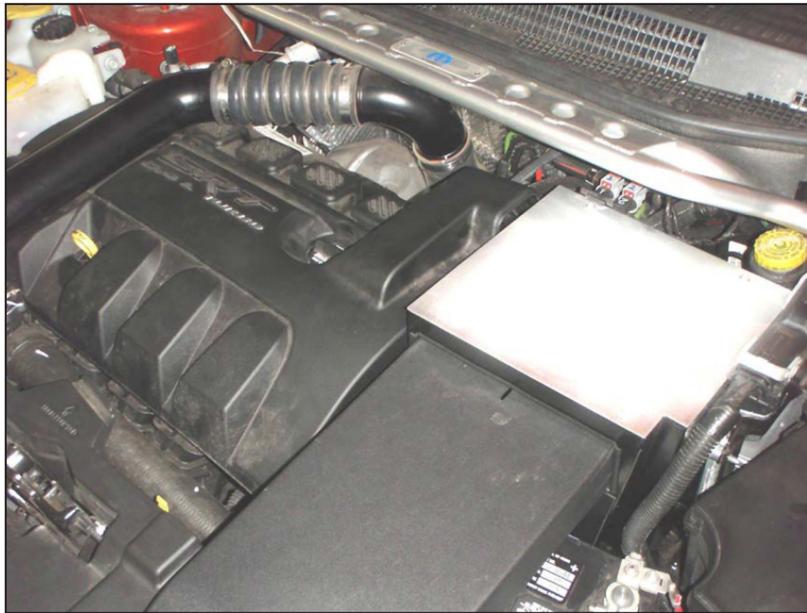
af. Use the button head M6 allen bolts to secure the lid at the 4 locations.



ag. Re-install engine cover removed in step 2h.



ah. Re-install charge pipe removed in step 2g.



AEM® intake system installed

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 any rubber mounts, 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 terminal 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 state may vary.

6. 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 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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