



Equipped with *AEM DRYFLOW* Filter  
No oil required!

**Kit Part Number: 21-8217**

2007 Dodge Caliber 2.0/2.4L  
2008 Dodge Caliber 2.0L  
2007 Jeep Compass/Patriot 2.0/2.4L

CARB EO # Pending  
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Cold Air Intake Systems that are pending an Executive Order number (EO#) relating to exemptions under Section 27156 of the Vehicle Code from the California Air Resource Board (CARB) are for off-road use only in California, which may never be used on public highways.

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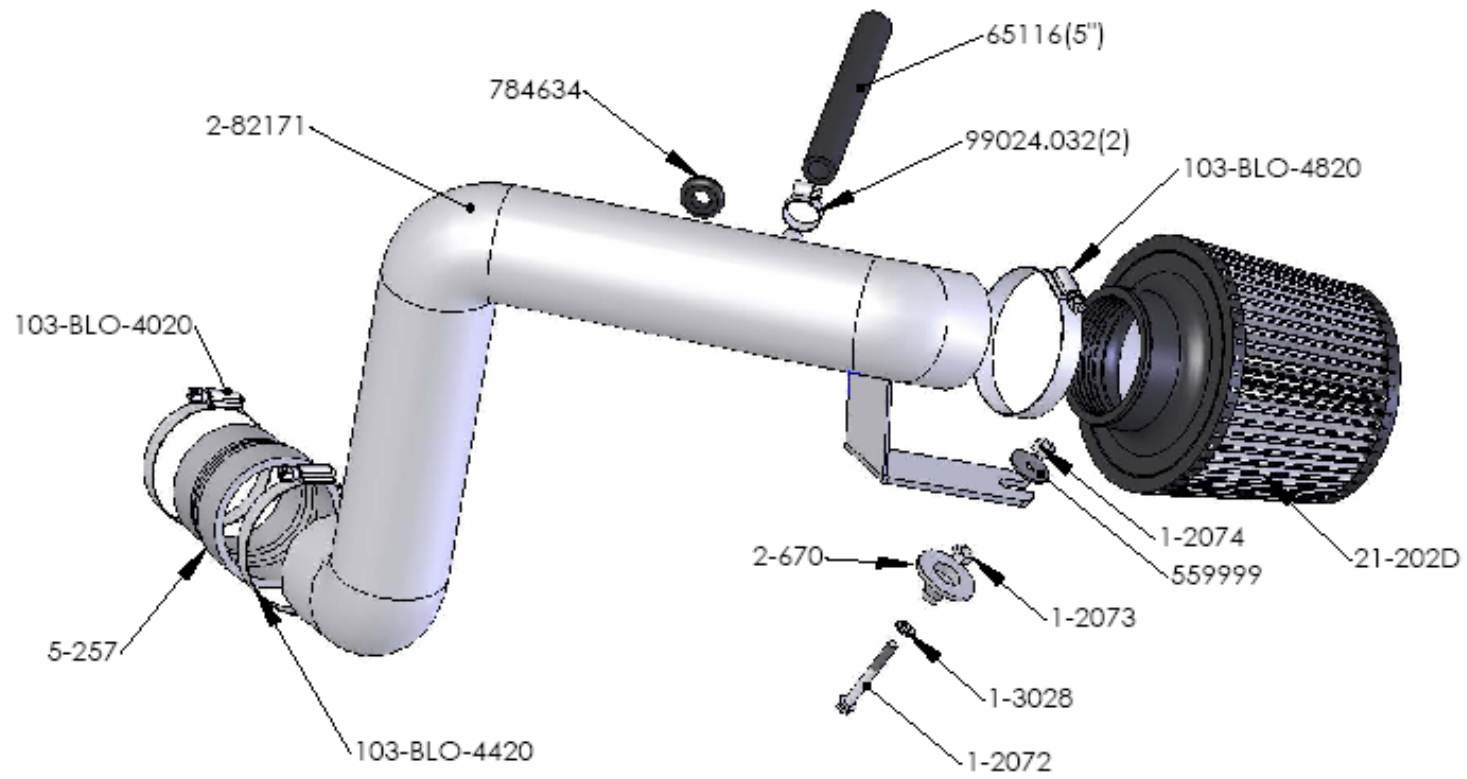


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**Bill of Materials**

<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
2-82171	Inlet pipe	1
10-7554	Instructions	1
10-922Y	AEM Decal	2
21-202D	2.75" Air Filter	1
559999	M6 Washer	1
1-3028	1/4 Washer	1
1-2072	1/4-20 x 1 3/4 Bolt	1
1-2074	1/4-20 Nylock Nut	1
1-2073	1/4-20 Nut	1
2-670	Spacer	1
5-257	Adapter Coupler 2.5/2.75	1
103-BLO-4420	#44 Hose Clamp	1
103-BLO-4020	#40 Hose Clamp	1
784634	Grommet	1
99024.032	Hose Clamp 1"	2
65116	Hose 1/2ID	5
103-BLO-4820	#48 Hose Clamp	1

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## 1. Preparing Vehicle

- Make sure vehicle is parked on a level surface.
- Set parking brake.
- If engine has run in the past two hours, let it cool down.
- Disconnect negative battery terminal.

## 2. Removal of Stock System

### Recommended Tools:

- ¼" Socket
- 10 mm Socket
- 5/16" Socket
- Extension
- Ratchet
- 10mm Wrench

**Installation Time: 2 hours**



- a)** Remove engine cover by pulling straight up.



- b)** Twist and remove retaining clips. Remove ducting by pulling up and forward.

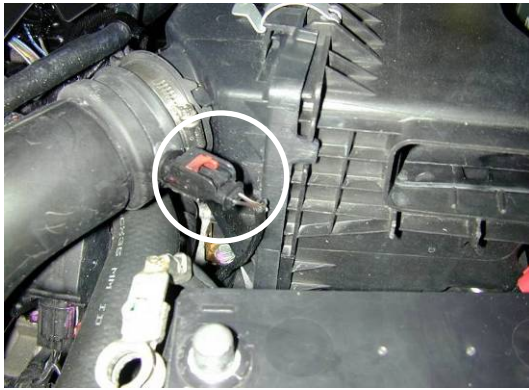


- c)** Loosen hose clamp at the air box.



- d)** Loosen hose clamp of the inlet tube at the throttle body. Loosen the inlet resonator tube mounting bolt located near the throttle body.

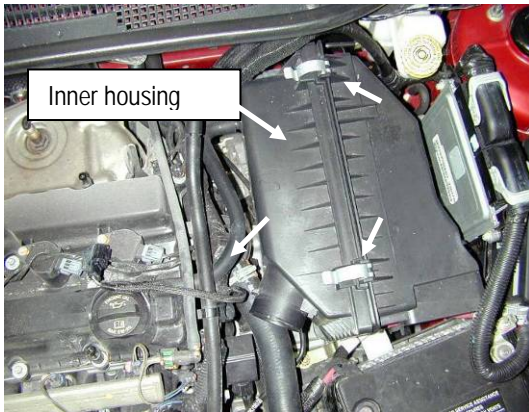




**e)** Remove IAT (Intake Air Temperature) Sensor harness connector. Pull tab out, then depress clip.



**f)** Remove Christmas Tree Mount zip tie from inlet tubing. Remove inlet pipe. Remove IAT Sensor.



**g)** Disconnect the crankcase breather hose from the valve cover. The other end will be connected to the air box. Unclasp the air box and remove the inner housing, air filter and breather hose.



**h)** Pull up on the other half of the air box. Remove the air box.

**3. Installation of Cold Air Intake**

**a)** When installing the intake system, DO NOT completely tighten the hose clamps or mounting tab hardware until instructed to do so.



**b)** Attach the reducer coupler to the throttle body. Secure with the 2.5" hose clamp. Loosely attach the 2.75" hose clamp to the other side of the coupler.



**c)** Insert grommet for the IAT sensor into the inlet pipe.



**d)** Insert the all thread bolt with  $\frac{1}{4}$ " washer up through the air box mount grommet.



**e)** Insert the spacer over the bolt. Secure the thread bolt with the provided nut. Center the spacer in the grommet and tighten.



**f)** Insert the IAT sensor into the grommet from **step 3c**.



**g)** Insert pipe as shown. Line up the bracket to the spacer assembly.

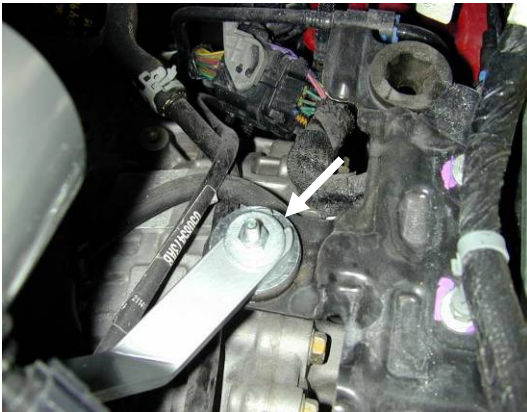


**h)** Insert the other end of the inlet pipe into the coupler at the throttle body. Realign the bracket and secure the hose clamp.



**i)** Attach filter. Check for clearance and tighten with filter hose clamp.





**j)** Check for clearance of the inlet pipe around the coolant hose. Tighten bracket with washer and lock nut.



**k)** Reattach the IAT sensor wire harness connector. Check for clearance around the negative battery terminal.



**l)** Attach the breather hose as shown to the inlet pipe and to the crankcase vent. Secure with hose clamps.



**m)** Secure both breather hoses with the factory clip. *(If equipped)*. Reinstall the engine cover.



n) Your AEM Cold Air Intake System should look like this.

**4. Re-assemble Vehicle**

- a) Position the inlet pipes for 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 retighten them. Tighten radiator cap.
- c) Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tight.
- d) Start engine. Let car idle for 3 minutes. Perform a final inspection before driving the vehicle.



**5. 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 Brute Force intake pipe.
- c) Use window cleaner to clean your powder coated AEM Brute Force intake pipe. **(NOTE: DO NOT USE Aluminum polish on a powder coated AEM BRUTE FORCE intake pipe)**

**For technical inquiries  
e-mail us at  
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or  
call us at  
310.484.2322 Option #3**

**12 MONTH LIMITED WARRANTY**

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.