



Equipped with AEM® *Dryflow™* Filter
No Oil Required!

INSTALLATION INSTRUCTIONS

PART NUMBER:

21-434B (Blue Finish)

21-434C (Gun Metal Grey Finish)

21-434P (Vacuum Metalized Finish-VMC)

21-434R (Red Finish)

2002-2003 MITSUBISHI Lancer L4-2.0L Manual Trans. C.A.R.B. E.O. # D-670-15

PARTS LIST

Description	Qty.	Part Number
Element Parts Kit 2.75 X 5" Dry Ele.	1	21-202DK
Upper Pipe	1	2-518
Lower Pipe	1	2-519
Adapter, MAF Mitsu.	1	2-606
Hose; 5/16ID X 20"L	1	5-2020
Hose, Adapter 2.75/3.00 X 3" Bl.	1	5-273
Hose, Silicone 2.75x3" Blk.	2	5-275
Mount, Rubber 1" X 6mm	1	1228599
Bolt, Socket M6-1 X 30mm	4	1-2020
Washer, 6mm Soft Mount	1	08160
Nut, M6 Hex Serrated	5	444.460.04
1/2" Bnd. Hose Clamp, 2.90"-3.75"	1	9452
1/2" Bnd. Hose Clamp, 2.31-3.25"	5	9444
Hose Clamp, 3/4"	1	4093-5
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[®] 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.

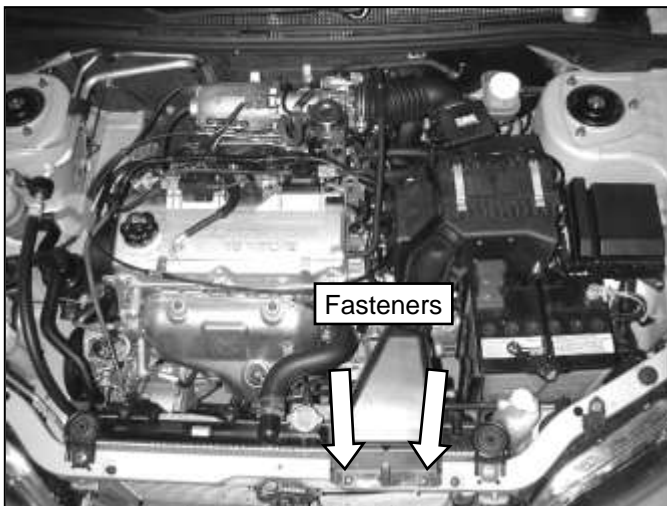
1. Preparing Vehicle

- 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.

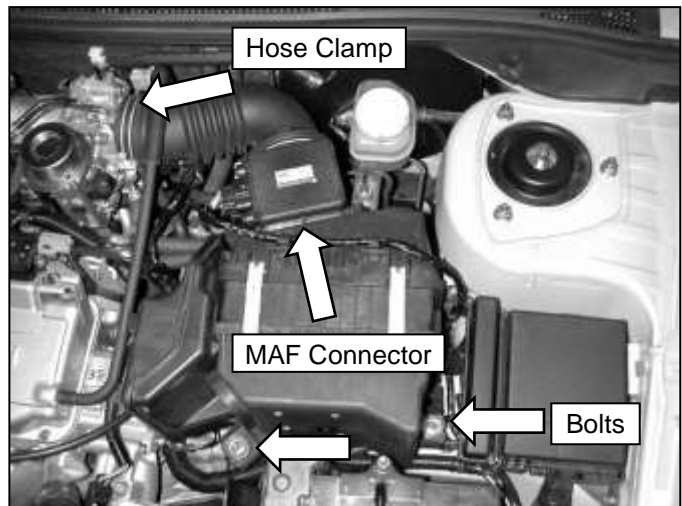
NEVER WORK UNDER A VEHICLE WITHOUT USING JACK STANDS.

- i. Remove the front driver side wheel.
- f. Do not discard stock components after removal of the factory system.

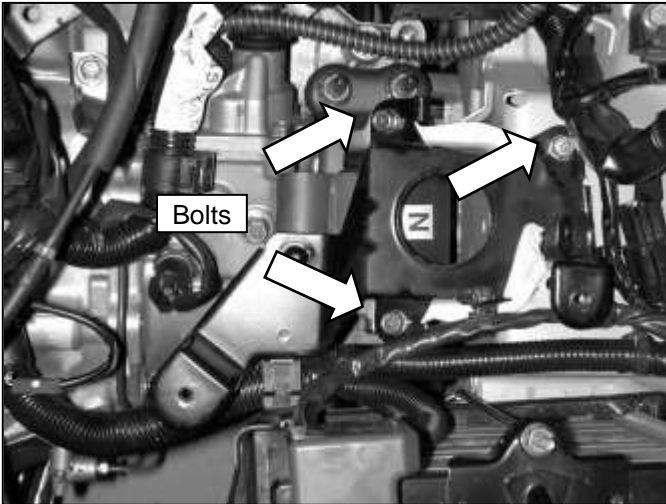
2. Removal of stock system



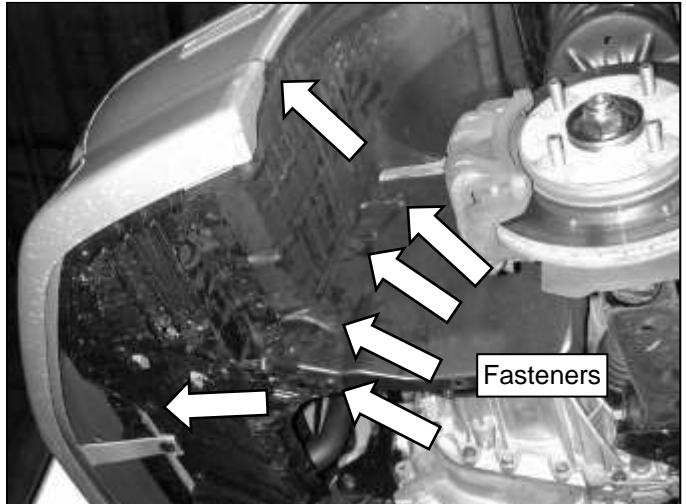
a. Remove the fasteners holding the air duct to the radiator support, and remove it.



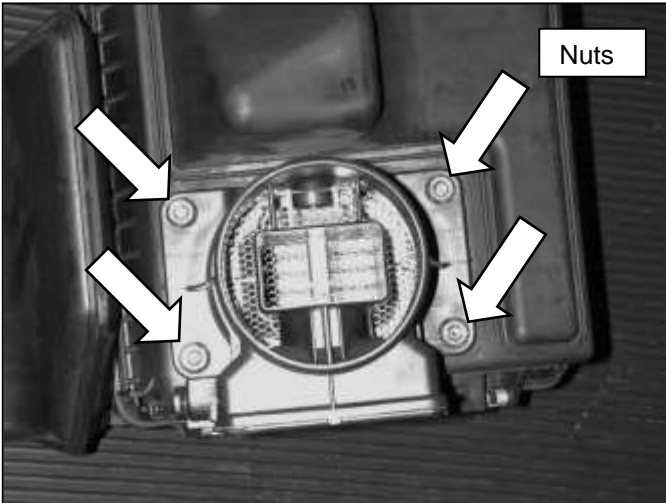
b. Unplug the MAF Sensor, loosen the hose clamp, and loosen the two bolts holding the factory air box to the fender, and remove it.



c. Loosen the three bolt holding the air box mount to the inner fender and remove it.



d. Remove the fasteners holding the driver side inner fender liner and remove it.



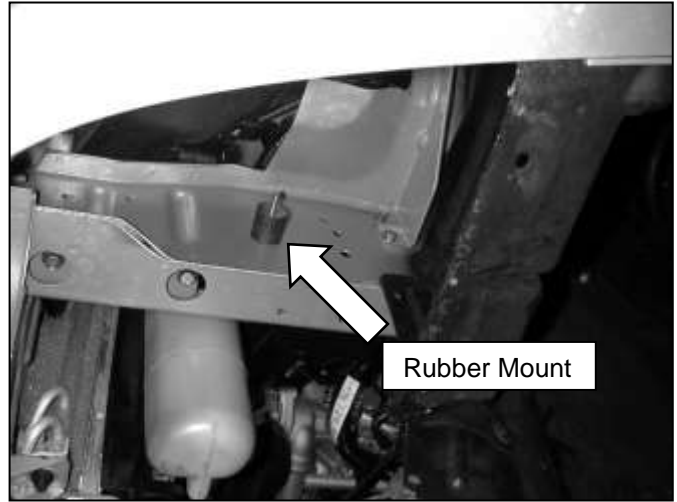
e. Loosen the four nuts holding the MAF to the air box, and remove it.

3. Installation of AEM® intake system.

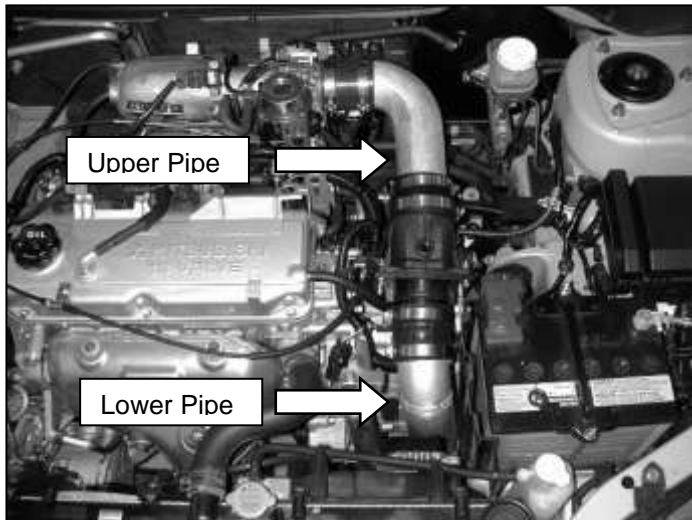
- a. When installing the intake system, do not completely tighten the hose clamps or mounting hardware until instructed to do so.



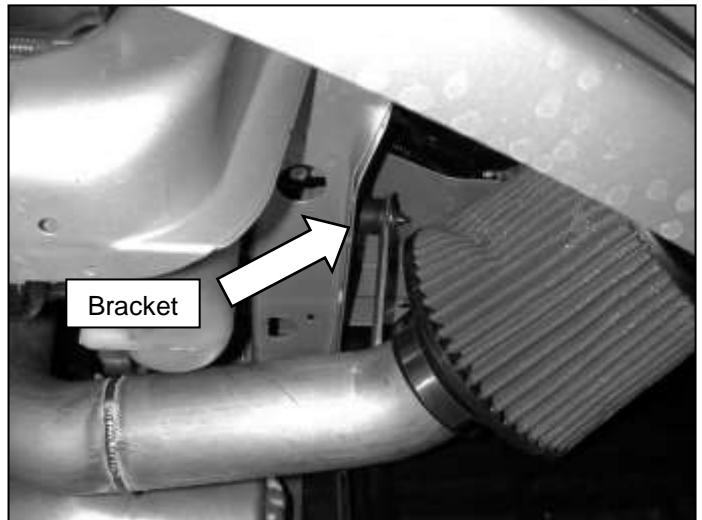
- b. Using the included socket head bolts and nylock nuts, bolt the supplied MAF adaptor to the factory MAF sensor, as shown.



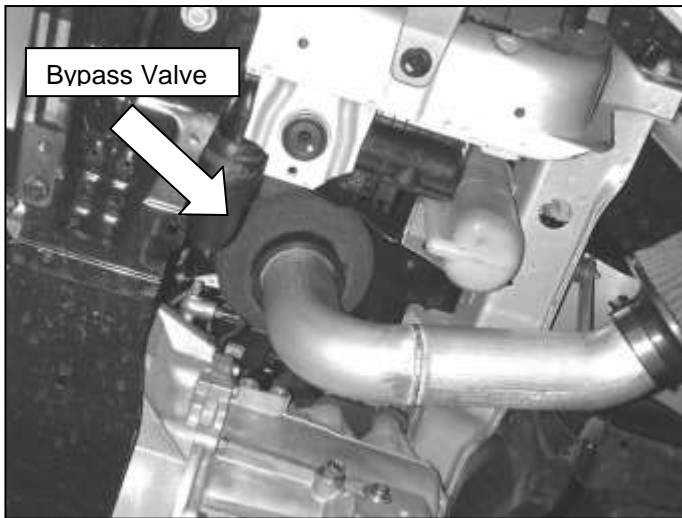
- c. Install the AEM® rubber mount into the treaded hole in the outer frame rail, as shown.



- d. Install the upper intake pipe, MAF assembly, lower intake pipe and supplied couplers and hose clamps. Install the cam cover breather hose, as shown. Use the included clamp to secure the breather hose to the intake pipe.



- e. Secure the bracket to the rubber mount using the included washer and nylock nut and install the supplied air filter.



If AEM® Bypass Valve (part # 20-402S) is installed, install the bypass valve as shown in the figure above. The intake pipe will require modification so follow the instructions included with the AEM Bypass Valve accordingly.

4. Reassemble Vehicle

- a. Fender Liner: Install the fender liner and any hardware that was removed in steps 2d.
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. **Wheel:** Install the driver's side wheel using the factory torque specification (see owner's manual).
- 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 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).**