



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

INSTALLATION INSTRUCTIONS

PART NUMBER: 22-474

2006-2007	SUBARU	Impreza WRX	H4-2.5L	C.A.R.B. E.O. # D-670-6
2004-2007	SUBARU	Impreza WRX STi	H4-2.5L	C.A.R.B. E.O. # D-670-6
2004-2005	SUBARU	Forester	H4-2.5L	C.A.R.B. E.O. # D-670-6
2002-2005	SUBARU	Impreza WRX	H4-2.0L	C.A.R.B. E.O. # D-670-6
2005	SAAB	9-2X	H4-2.0L	C.A.R.B. E.O. # D-670-6

PARTS LIST

Description	Qty.	Part Number
Air Filter Assy. 2.75 X 5" Dry	1	21-202DK
Short Pipe	1	2-4741
Hose, Hump 2.75/2.75x3.00"	1	5-575
Mount, Rubber 1" X 6mm	1	1228599
Zip Tie,8" Tree Push-Mnt.	1	1-127
Washer; 1"D X 1/4 Hole Fender	2	08160
Nut, M6 Hex Serrated	2	444.460.04
1/2" Bnd. Hose Clamp, 2.31-3.25"	2	9444
1/2" Bnd. Hose Clamp, 2.56"-3.50"	2	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.

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

2. Removal of stock system

- a. Above the air box, remove the two twist locks and plastic cover.
- b. Remove the two mounting bolts securing the air inlet scoop; remove the air inlet scoop from the vehicle. (Fig.1)
- c. Loosen the two hose clamps on the stock air inlet tube and remove it.
NOTE: The cable for the cruise control unit is held in place with a clip that is molded into the stock air inlet tube. Be sure to remove the cable from this clip before removing the tube from the vehicle.
- d. Unplug the wire harness from the MAF sensor. Remove the coolant hoses from the clips molded into the top of the air box.
- e. Down on the frame rail, on each side of the air box are bolts that secure the air box in place. Remove the two bolts and the air filter box assembly.
NOTE: Reinstall the bolts after removing the air box. (Fig.2)

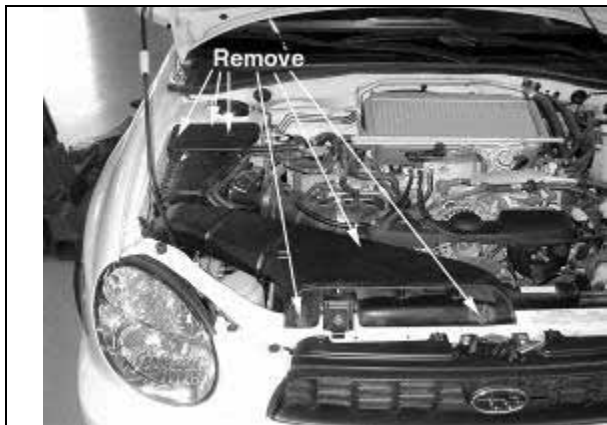


Fig. 1

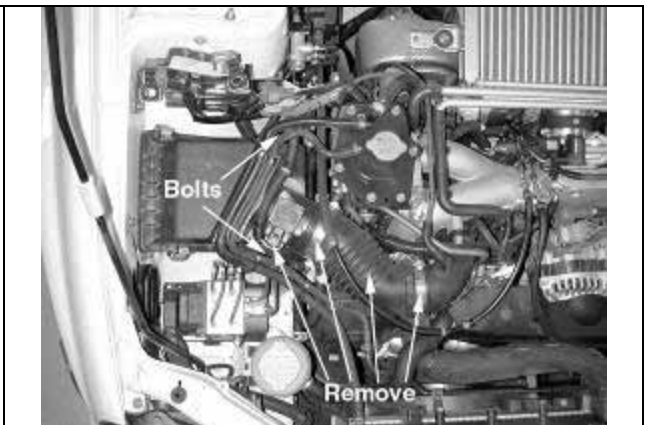


Fig. 2

- f. 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.
- g. Remove the two plastic clips securing the wheel well liner to the underside of the vehicle's passenger side bumper. (Fig. 3) Your splash shield may look different if it's a 2004, if so you will only remove one clip.
- h. With the front wheels turned all the way to the right, locate the plastic clips located in front of the suspension. They secure the liner to the passenger side wheel well; remove them. (Fig.4)

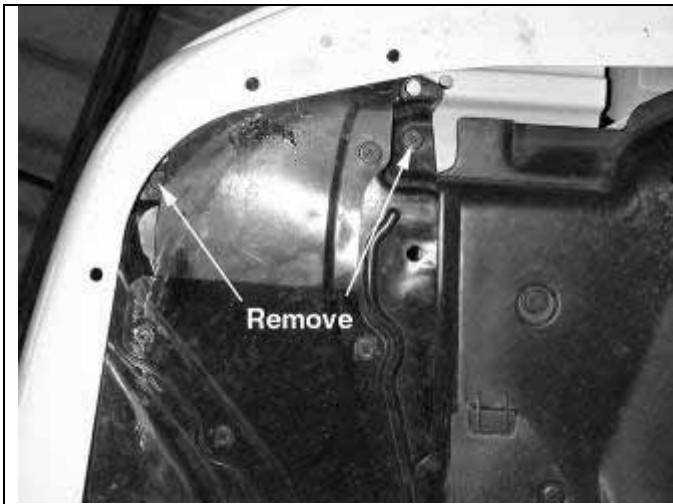


Fig. 3

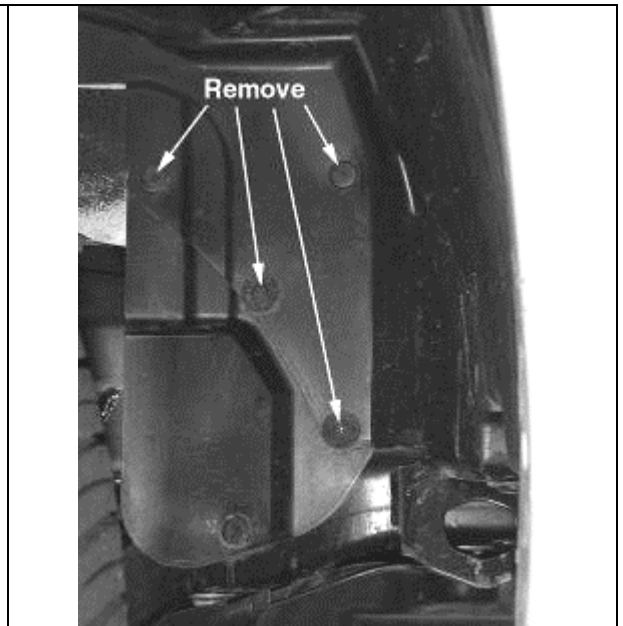


Fig. 4

- i. Remove the nut securing the resonator box to the inner fender. (Fig. 5)
- j. Pull the wheel well liner down and towards the back of the vehicle. Locate the bracket just behind the driving light, securing the resonator box to the underside of the passenger's side bumper cavity. Remove the nut and the resonator box from the vehicle. (Fig. 6)

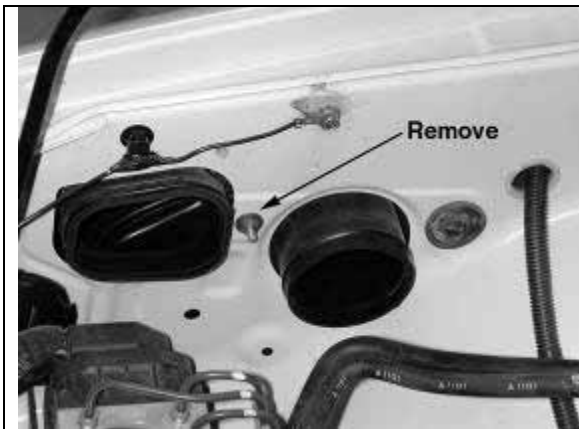


Fig. 5



Fig. 6

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. Check to see that the inside of the AEM[®] intake pipe and air filter are clean and free from any debris or obstructions.
- c. Install the 2.75" coupler hose onto the turbo inlet tube using a hose clamp. (Fig. 7)
- d. Install the rubber mount assembly. Secure to the fender with a washer and serrated nut. Loosely attach the washer and serrated nut to the engine bay side of the rubber mount. (Fig. 8)

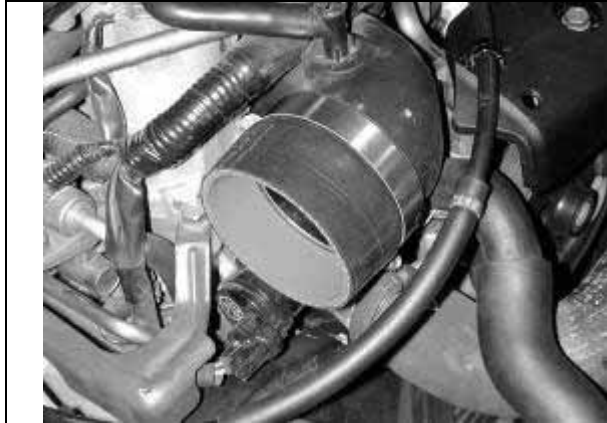
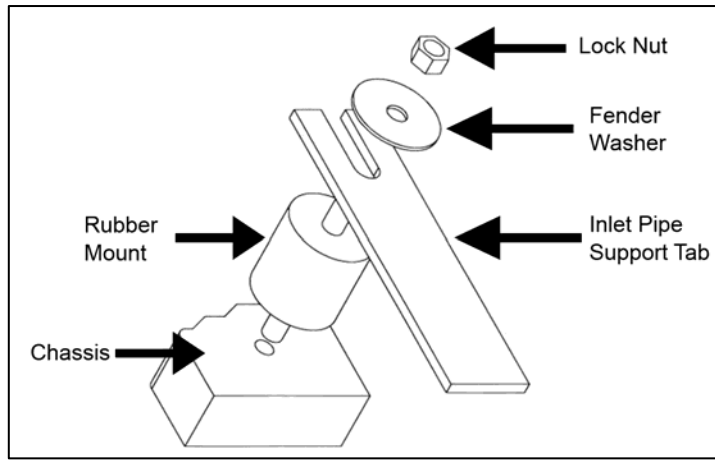


Fig. 7

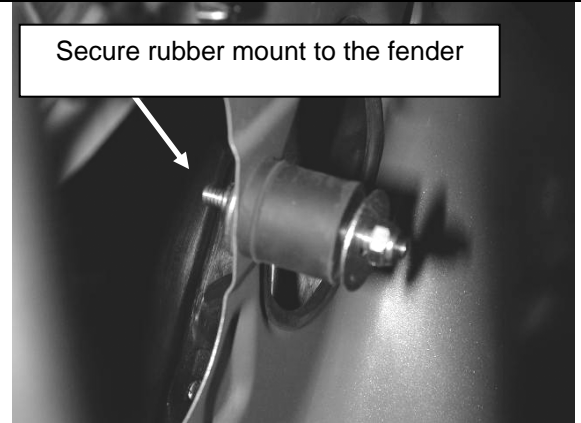


Fig. 8

- e. Remove the MAF sensor from the stock air box assembly. (Fig. 9)
- f. Using the screws removed in (3e), install the MAF sensor into the AEM[®] intake pipe.
- g. Install the air filter onto the furthest end of the intake pipe from the MAF sensor. Leave the hose clamp attaching the air filter to the intake pipe loose. (Fig. 10)

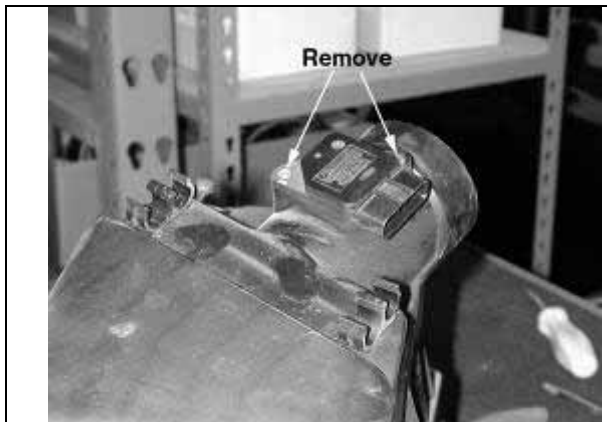


Fig. 9

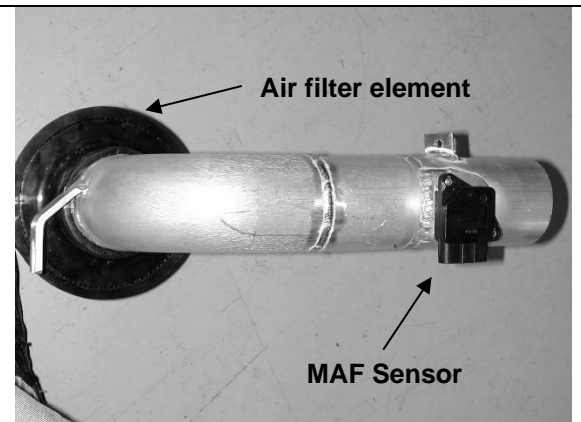


Fig. 10

- h. Install the intake pipe in the engine compartment.
NOTE: The coolant hoses should be routed below and the cruise control cable should be routed above the AEM[®] intake pipe.
- i. Slide the intake pipe into the coupler hose and loosely secure with a hose clamp. The MAF sensor plug should be facing the front of the vehicle. Align the bracket with the rubber mount. (Fig.12)
- j. Make sure you have the correct placement of all the components for mounting the intake pipe properly.

k. Secure the cruise control line with the push mount zip tie, push into the bracket to secure. Trim excess as necessary.

NOTE: This is not used in the STi models. (Fig. 11)



Fig. 11



Fig. 12

- l. Plug the wire harness connector back into the MAF sensor.
- m. The AEM® intake system installation should look similar to (Fig. 13).
- n. Reinstall the wheel well liner and all plastic clips that were removed in prior steps.

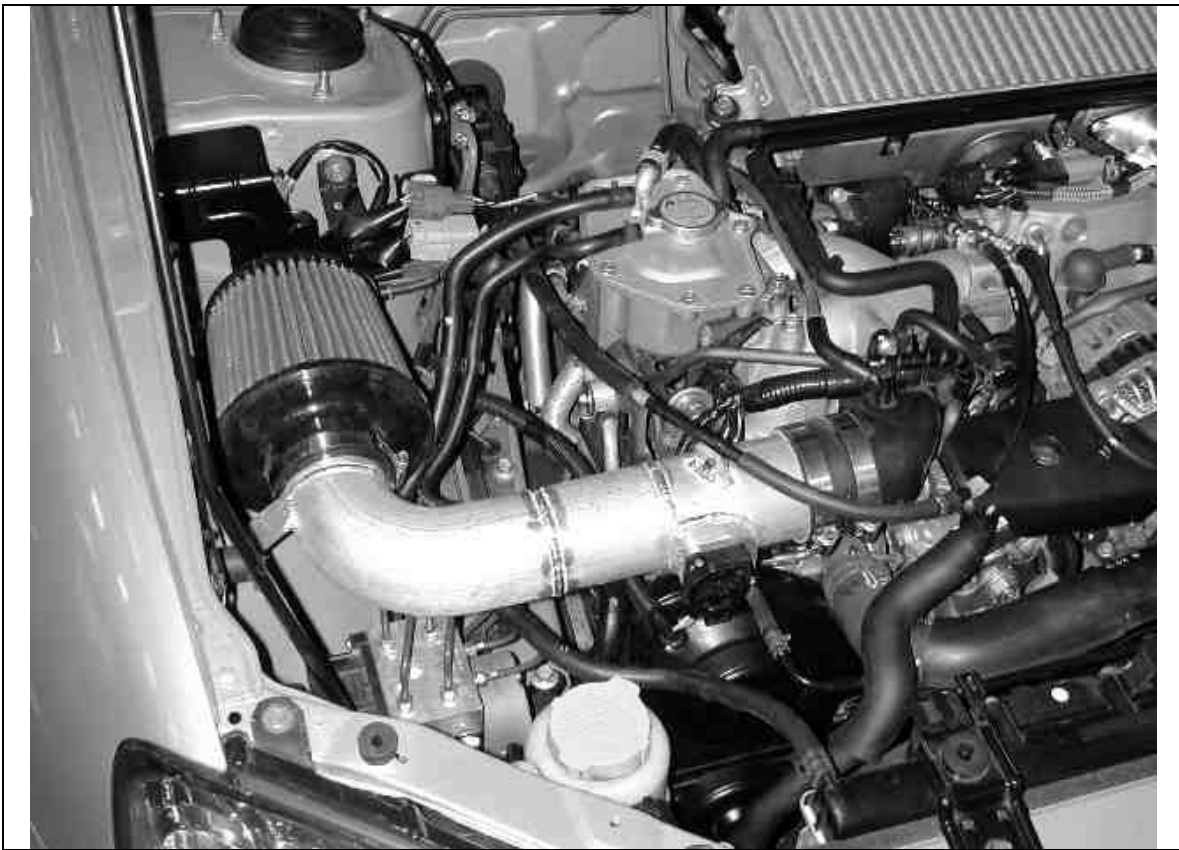


Fig. 13

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 rubber mount, 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 the 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 states 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.