



INSTALLATION INSTRUCTIONS

21-866C

SUBARU

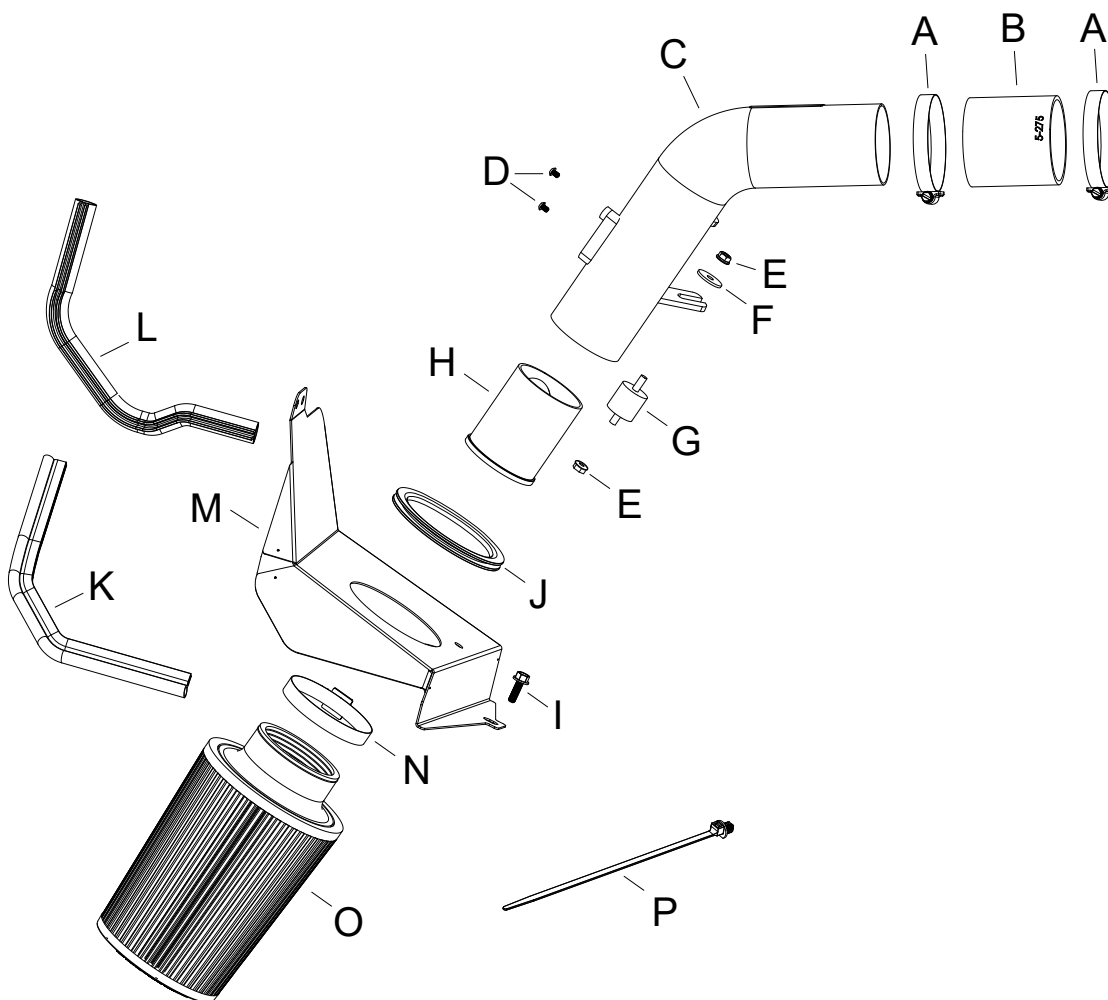
2005-09 Legacy GT

H4-2.5L Turbo

NOT LEGAL FOR SALE OR USE ON ANY POLLUTION CONTROLLED MOTOR VEHICLE IN CALIFORNIA OR STATES ADOPTING CALIFORNIA EMISSION PROCEDURES.

TOOLS NEEDED:

flat blade screw driver
 phillips screw driver
 3mm allen key
 10mm wrench
 10mm socket
 ratchet
 extension



PARTS LIST:

Description	Qty.	Part #
A HOSE CLAMP; 2.31"-3.25"	2	9444
B HOSE; 2.75" X 3" BLACK	1	5-275
C TUBE; 2.75"OD X 13"	1	2-1636C
D BOLT; M4-.7 X 6MM, BTN HD	2	1-2051
E NUT; M6, HEX, SERRATED	2	444.460.04
F WASHER; 1"D X 1/4 HOLE	1	08160
G MOUNT, RUBBER 1" X 6MM	1	1228599
H VENTURI; 2.59"OD X 2.37"ID	1	9-0381
I BOLT; M6-1 X 20, HEX/FLANGE	1	1-2038
J EDGE TRIM; 1/16" GAP, 12"L	1	102466
K EDGE TRIM; 3/4" BULB,13"L	1	8-4013
L EDGE TRIM; 3/4" BULB,16"L	1	8-4016
M HEAT SHIELD; SUBARU STI	1	20-478
N HOSE CLAMP; 2.31"-3.25"	1	9444
O AIR FILTER; 2.75" FLG, 5-1/2"B	1	21-2157DK
P ZIP TIE; 8" TREE PUSH-MNT	1	1-127

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.

TO START:

1. Turn off the ignition and disconnect the negative battery cable.

NOTE: Disconnecting the negative battery cable erases pre-programmed electronic memories. Write down all memory settings before disconnecting the negative battery cable. Some radios will require an anti-theft code to be entered after the battery is reconnected. The anti-theft code is typically supplied with your owner's manual. In the event your vehicles anti-theft code cannot be recovered, contact an authorized dealership to obtain your vehicles anti-theft code.



2. Remove the two plastic retaining clips that secure the fresh air intake duct.



3. Disconnect the mass air sensor electrical connection.



4. Loosen the hose clamps that secure the factory intake tube and then remove the intake tube from the vehicle.



5. Remove the bolt that secures the air filter housing to the frame rail.



6. Remove the nut that secures mounting bracket to the air filter housing and remove housing from the vehicle.

NOTE: AEM recommends that customers do not discard factory air intake.



7. Remove the two nuts that secure the filter housing mounting bracket to the inner fender and then remove the mounting bracket from the vehicle.



8. Install the provided edge trim onto the heat shield as shown.

NOTE: Some trimming of the edge trim will be necessary.



9. Install the provided small edge trim into the hole of the heat shield and then install the rubber mounted stud onto the heat shield and secure with the provided hardware.

NOTE: Some trimming of the edge trim will be necessary.



10. Remove the mass air sensor from the factory air filter housing and install it into the AEM intake tube and secure with the provided hardware. Install the provided venturi sleeve into the intake tube so that the slot goes around the mass air sensor.



11. Install the heat shield assembly onto the intake tube and secure with the provided hardware. Install the air filter onto the intake tube and secure with the provided hose clamp.



12. Install the provided coupler (5-275) onto the inlet tube and secure with the provided hose clamp.



13. Install the intake kit into the vehicle so the intake tube goes into the coupler hose and the studs on the inner fender protrude through the holes in the heat shield.



14. Secure the heat shield to the inner fender using the factory nuts removed earlier.



15. Secure the heat shield to the frame rail using the provided hardware. Align the intake tube for best fitment, secure it to the rubber mounted stud using the provided hardware and tighten the hose clamp.



16. Reconnect the mass air sensor electrical connection and secure the wiring harness with the provided tie wrap to the bracket on the intake tube.



Reassemble Vehicle

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. Check for proper hood clearance. Re-adjust pipes if necessary and re-tighten them. Inspect the engine bay for any loose tools and check that all fasteners that were moved or removed are properly tightened. Reconnect negative battery terminal and start engine. Let the vehicle idle for 3 minutes. Perform a final inspection before driving the vehicle.

Service and Maintenance

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. Use window cleaner to clean your powder coated AEM® intake tube.

NOTE: DO NOT USE aluminum polish on powder coated AEM® intake tubes.