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# Intake Kit Installation Instructions: '03-'04 Toyota Matrix/ Corolla S/ Pontiac Vibe L4-1.8L

<b>Kit Part #</b>	54-10702	<b>Tools Required:</b>	<b>Part List:</b>	3 M6 x 10 button head allen
<b>Make:</b>	Toyota	5/16" nut driver	1 Air filter (replacement # 24-90029	14 M6 wave washers
<b>Model</b>	<b>Year</b>	<b>Engine</b>	1 Housing	5 M6 nuts
Matrix	'03-'04	L4-1.8L	1 Cover	2 Clamps #048
Corolla S	'03-'04	L4-1.8L	1 Intake Tube	1 Black vinyl cap
<b>Make:</b>	Pontiac		1 PCV and VSV mounting bracket assembly (2 brackets, 2 isolation mounts)	5 Hex head screws M6 x 1 x 12
<b>Model</b>	<b>Year</b>	<b>Engine</b>	1 Vent hose 5/16" x 8"	1 Coupler, elbow, 1ZZ Motor
Vibe	'03-'04	L4-1.8L	1 Rubber trim 7/16" x 14"	1 Coupler, elbow, 2ZZ Motor
		4mm allen	2 M4 x 8 screw	



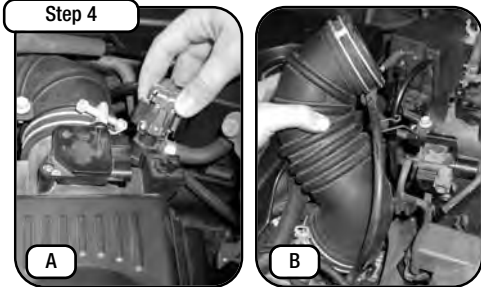
Complete kit with parts.



Disconnect wiring harnesses leading to Mass Airflow Sensor, VSV valves located to either side of MAS on factory airbox (indicated by arrows). On the brown harness toward the front end of the car, place provided rubber cap over harness lead.



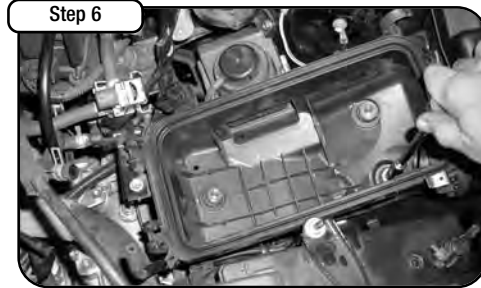
From the throttle body, there is a "T" vacuum line that extends into check valve and then a "T" connection. Disconnect the smaller (battery side) vacuum tube from the check valve. Now disconnect longer vacuum tube from "T" and reconnect to now open check valve. The remaining "T" and hoses will be removed with the airbox.



A) Slide upper VSV off of upper airbox tab.  
 B) Loosen factory intake tube connections and remove intake tube.



With intake tube now removed, there is a 3/8" vacuum line connected to lower portion of airbox and leading the lower VSV. Disconnect this line from the lower airbox.



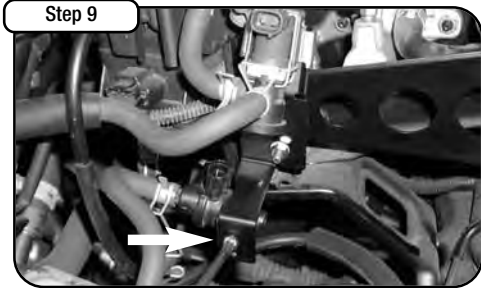
With sensors disconnected, now remove upper airbox portion. With upper airbox removed, loosen and remove bolts holding lower airbox. Loosen and remove bolt holding lower VSV mount to lower airbox (indicated by arrow). Now remove lower airbox.



Using provided hardware, install VSV mounting tab to bracket. The rubber isolators will use (1) wavy washer per threaded side. NOTE: Be sure to mount tab with proper orientation as shown in picture.



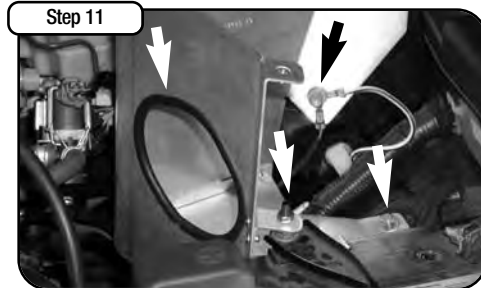
Bracket is to be installed in shock tower using the existing indicated bolts. NOTE: On cars equipped with cruise control, lower bracket should be sandwiched between cruise control bracket and shock tower. Upper bracket will use grounding bolt hole, but ground strap will be left off and re-attached later.



Slide upper VSV onto upper tab of sensor bracket. For the lower VSV, remove mounting tab, re-attach lower VSV onto lower sensor bracket in the orientation shown, and replace existing line with new 5/16" x 8" long hose.



Place wave washer on TOP of battery hold-down nut.



Remove ground strap and bolt from shock tower. Install heat shield. On shock tower mounting location, attach black ground strap in addition to ground strap previously disconnected to bolt and securely fasten. On battery hold-down location, place wavy washer and then tighten remaining bolts and install trim seal in heat shield opening.



Install provided coupling to the throttle body, with the shorter of the two ends connected to the throttle body. Place, but do not tighten clamps on both ends of the coupling and install provided aluminum intake tube into the coupling and through the heat shield opening. (Note: 1zz motor uses part # 05-00135 with ID of 2.75", 2zz motor uses part # 05-00136 with ID of 3" to 2.75")



Connect remaining VSV vacuum line to the nipple in the intake tube.



Remove the MAS from the factory airbox and re-install on aFe intake tube using provided hardware. Reconnect factory wiring harness to the MAS.



Place enclosed CARB EO sticker on a clean/smooth surface on or near the intake system. EO identification label is required in passing the Smog Check inspection. Your installation is now complete. Tighten all connections and clamps. Re-check after a few hours.