



Part number RD2105

04-06 Scion Xa

04-06 Scion Xb

1.5L 4 cyl.

- 1- Two piece cold air intake
- 1- **2 1/2" Injen filter (#1012)**
- 1- 2 1/4" straight hose (#3035)
- 1- 2 1/2" straight hose (#3048)
- 1- 14" 15mm vacuum hose (#3079)
- 4- Power-Bands(.040)(.312) (#4003)
- 1- Male/female vibra-mount (#6028)
- 1- M6 vibra-mount (#6020)
- 2- M6 flange nuts (#6002)
- 2- Fender washers (#6010)
- 1- Heavy duty black zip tie (#8014)
- 1- Instruction



Figure 1

Note: When installing the cold air intake into a Scion Xa removal of the driver side front head lamp will be required. This will easy access into the bumper area when installing the filter. However, you will need to remove the bumper on both XB and Xa.



Figure 2

The cold air intake will converted into a short ram when the need arises.



Figure 3

The cold air intake is assembled with the mass air flow sensor in place. **NOTE:** Installing the cold air intake into a Scion Xa will require the removal of the driver side front head lamp. This will allow easy access into the bumper area to install the filter. The bumper will need to be removed on both the Xb and Xa.



Figure 4

The clip holding the harness lines is disconnected from the Scion frame. This will allow the harness to extend out further. This will make it easier to snap the harness clip back on to the mass air flow sensor.



Figure 5

Press the 2 1/4" hose over the throttle body and use two clamps. Tighten the clamp on the throttle body at this point.



Figure 6

Take the male/female vibra-mount and screw it into the threaded battery post. When lining up the primary intake bracket to the vibra-mount stud, some minor adjusting will be required in order to line the two up.

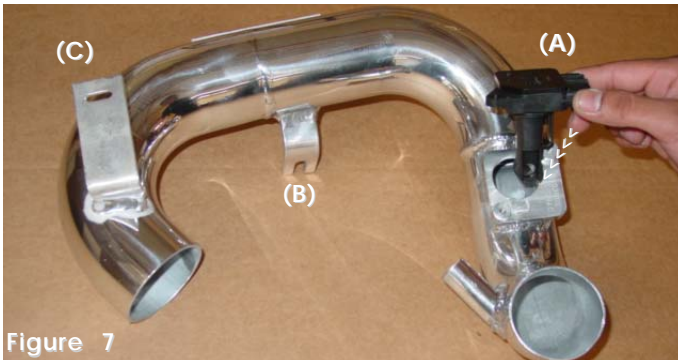


Figure 7

Remove the air flow sensor from the stock air box. insert the sensor into the machined adapter on the intake and use the stock screws to secure the sensor in place (A). The short middle bracket is used to fasten the intake to the vibra-mount stud (B). The mounting bracket is for placement of the vacuum switching valve (C).



Figure 8

The harness line is set aside and out of the way to prepare for the installation of the secondary intake. The Vacuum switching valve will also be ready to connect to the mounting bracket on the intake (D). The vacuum switching valve(D) is pressed on to the mounting bracket in figure 7, bracket (C)



Figure 9

The secondary vibra-mount is screwed into the pre-tapped hole on the battery tray. The bracket on the secondary intake will be mounted to the vibra-mount stud and fastened with the m6 flange nut and fender washer.



Figure 10

The secondary intake is inserted into the head lamp cavity and lined up to the vibra-mount stud.

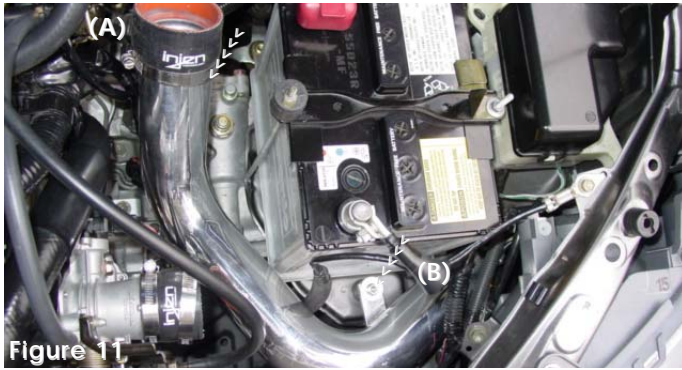


Figure 11
Press the 2 1/2" straight hose over the end on the secondary intake and use two clamps, tighten the clamp on the intake at this point (A). The bracket on the secondary intake is lined up the vibra-mount stud and fastened with the m6 flange nut and fender washer (B).



Figure 12
The primary intake is lowered into engine compartment. The end with the 2 1/4" diameter is pressed into the hose on the throttle body. The clamp is then semi-tightened on the intake to hold it in place.



Figure 13
Once the 2 1/4" tapered side of the intake has been inserted into the hose on the throttle body, press the top end(B) into the hose on the end of the secondary intake(A). (A) seen here is the end of the secondary intake and (B) is the end of the primary intake.



Figure 14
The primary intake is now line up the bracket to the vibra-mount stud(B). Use the m6 flange nut and fender washer to hold the intake in place(C).

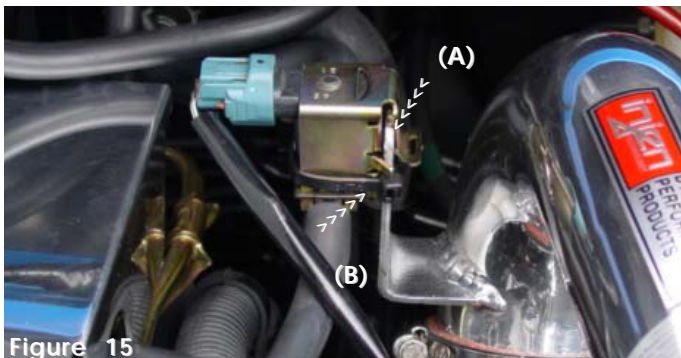


Figure 15
Press the vacuum switching valve over the mounting bracket on the primary intake(A). The zip tie in this kit is used to hold the VSV in place(B).



Figure 16
Press the harness clip into the air flow sensor on the machined adapter. You will hear a snapping sound when the harness and sensor are properly attached.

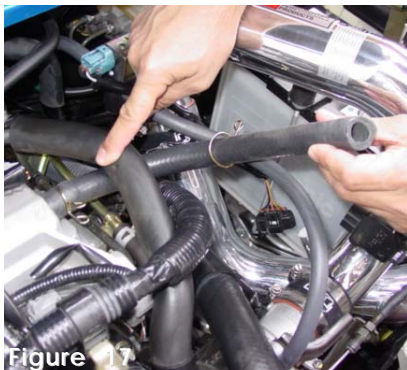


Figure 17
Take the 14"-15mm heater hose and press one end into the port on the crankcase and use the stock clamps to secure the hose.



Figure 18
Take the other end of the 15mm hose and press it over the end of the 5/8" port on the intake, again use the stock clamp.



Figure 19
Before the cold air intake is aligned and bolted in place press the filter over the end of the secondary intake and fasten the clamp on the filter neck.

Note: Disconnect the negative battery terminal before starting this installation.

1. Remove the stock air intake box, air intake duct and air mass air flow sensor.
Only the Scion Xa will require removal of the driver side front head lamp. However, the bumper will need to be removed on both the Scion Xb and Xa in order to have access to the filter in the bumper area.
2. Figure three shows how the cold air intake is assembled when it is installed in the Scion. (See fig. 3)
3. Remove the plastic clip holding the harness line in place. The secondary intake will be placed under the harness for easy access into the resonator opening. (See fig. 4)
4. The 2 1/4" straight hose is pressed over the throttle body. Two clamps are used on the hose but only the clamp on the throttle body side is fastened. (See fig. 5)
5. The male/female vibra-mount is screwed into the threaded battery post. (See fig. 6)
6. The mass air flow sensor is inserted into the machined adapter and positioned. Use the stock screws to fasten the mass air flow sensor in place. (See fig. 7A)
7. Move the harness clip and vacuum switching away from any area where the primary and secondary intake will be placed. (See fig. 8)
8. Take the second vibra-mount and screw it into the pre-tapped battery tray. (See fig. 9)
9. Insert the filter end of the secondary intake into the resonator opening and line up the bracket to the vibra-mount stud. Use the m6 flange nut and fender washer to secure the intake in place. Press the 2 1/2" straight hose over the end of the secondary intake and use two clamps, tighten the clamp on the intake at this time. (See figs. 10 and 11)
10. Take the primary intake and lower it into the engine compartment. Press the 2 1/4" end into the hose on the throttle body. (See fig. 12)
11. Press the top end of the primary intake into the 2 1/2" hose of the secondary intake. Line up the bracket on the primary intake to the vibra-mount stud on the battery post and use the m6 nut and fender washer to secure the intake in place. (See figs. 13 and 14)
12. Press the vacuum switching valve over the mounting bracket on the intake. Use the zip tie in this kit to secure the VSV in place. (See fig. 15A,B)
13. Press the harness clip into the air mass sensor until you hear a quick snap. (See fig. 16)
14. Take the 14"-15mm hose and press one end over the port on the crankcase. Press the other end of the 15mm hose over the 5/8" port on the intake. Use the stock hose clamp to secure the 15mm hose in place. (See figs. 17 and 18)
15. Press the filter over the end of the secondary intake and tighten the clamp on the filter neck. (See fig. 19)
16. Align the entire cold air intake for best fit. Once proper clearance has been made through out the length of the intake continue to tighten all nuts, bolts and clamps. Check all vacuum lines for any possible leaks prior to starting the engine.
17. Remove all rags and tools from the engine compartment, reconnect the negative battery terminal and replace the front bumper back to its stock location.
18. Start the engine and rev for at least 15 minutes to insure that you will have no "Check engine light" prior to driving.
19. Congratulations! You have just completed the installation.