

Part Number: PTR03-52090

NOTE: Part number of this accessory may not be the same as the part number shown

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Upper Inlet Pipe
2	1	Air Cleaner Outlet
3	1	TRD Air Filter
4	1	Air Cleaner Inlet
5	1	Rubber Inlet Tube
6	1	Air Inlet Grille
7	1	Mounting Kit
8	1	Hardware Kit

Mounting Kit Contents

Item #	Quantity Req'd.	Description
1	1	Air Cleaner Mount
2	1	Air Cleaner Steady Bracket
3	6	Pan-head Screw

Hardware Kit Contents

Item #	Quantity Req'd.	Description
1	1	Throttle Body Coupler
2	1	Hose Clamp: #40
3	2	Hose Clamp: #48
4	1	Hose Clamp: #52
5	1	Installation Instructions
6	1	Label: Emissions Certification
7	1	Washer: M5 Split Lock
8	1	Bolt: M5 x .7 x 12
9	2	Bolt: 2.5mm Button Head
10	2	Spring Clips: Air Cleaner Inlet
11	3	Zip Tie: Nylon

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		
2		

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Vehicle Protection	Fender Covers
Special Tools	Notes
None Required	
Installation Tools	Notes
10mm Socket	1/4" Drive
3" Long Extension	1/4" Drive
10" Long Extension	1/4" Drive
Ratchet	1/4" Drive
12mm Socket	3/8" Drive
3" Long Extension	3/8" Drive

Ratchet	3/8" Drive
22mm Socket	1/2" Drive
Breaker Bar	1/2" Drive
Torque Wrench	1/4" Drive
Torque Wrench	3/8" Drive
Torque Wrench	1/2" Drive
Pliers	
Phillips Screwdriver	
Straight Screwdriver	Small
8mm Wrench or Socket	
2.5mm Allen Wrench	
Diagonal Cutters	Flush-cut preferred
Special Chemicals	Notes
Glass Cleaner	

General Applicability

Scion xB: 2008 ?

Recommended Sequence of Application






Item #	Accessory
1	Cold Air Intake
2	Strut Tower Brace
3	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description
1		
2		

Legend

	STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.
	OPERATOR SAFETY: Use caution to avoid risk of injury.
	CAUTION: A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.
	TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process.
	REVISION MARK: This mark highlights a change in installation with respect to previous issue.

Note: Please see page 14 for important "Care and Maintenance" information!

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.



12 mm Wrench



1. Check Box Contents



- (a) Check box for contents and/or damage.

2. Vehicle Preparation

- (a) Open vehicle hood.
- (b) Use blankets to protect the front grille and driver-side front fender area.
- (c) Disconnect negative battery cable from vehicle battery.
- (d) Lift vehicle or use properly rated jack stands.
- (e) Remove front driver's side wheel.

3. Removal Procedure: 2.4L OE Air Inlet System

- (a) Remove the engine cover.
 - (1) Remove the two 10mm nuts. (Fig. 3-1)



10 mm Socket

- (2) Remove engine cover.
- (b) Remove the air cleaner lid.
 - (1) Unfasten the 3 hook clamps. (Fig. 3-2)
 - (2) Loosen the 10mm hose clamp.



10 mm Socket



Fig. 3-1

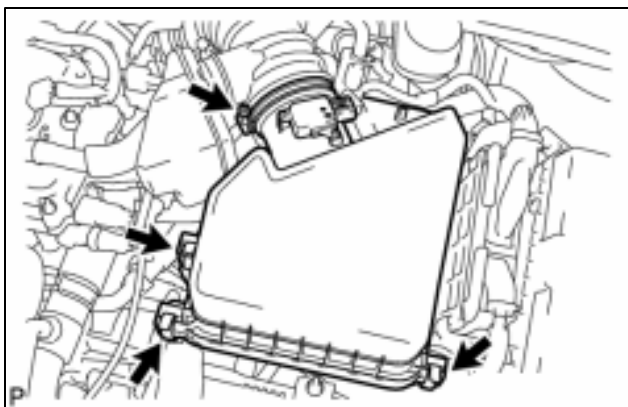


Fig. 3-2

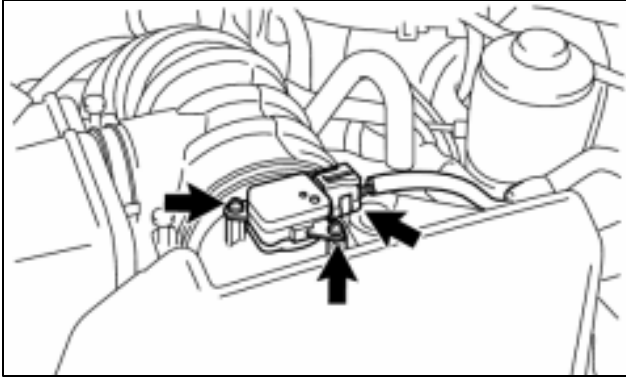


Fig. 3-3

- (3) Unplug the Mass Air Flow Sensor harness connector. Remove wire harness from the air cleaner lid. Remove the two screws holding the sensor in place. Remove the sensor from the air cleaner lid; be careful not to damage the sensor. (Fig. 3-3)



Phillips
Screwdriver

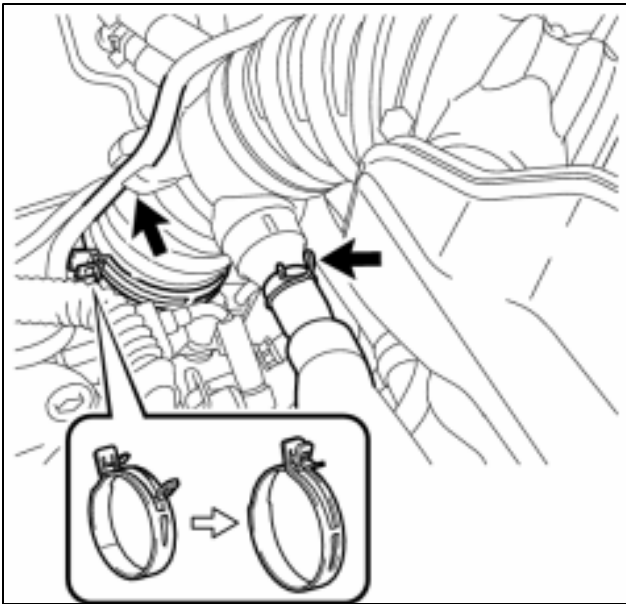


Fig. 3-4

- (4) Remove the air cleaner lid and air filter.
- (c) Remove the air inlet tube
- (1) Tighten and lock the spring clamp located at the throttle body. Release the spring clamp for the crankcase breather tube.(Fig. 3-4)



Pliers

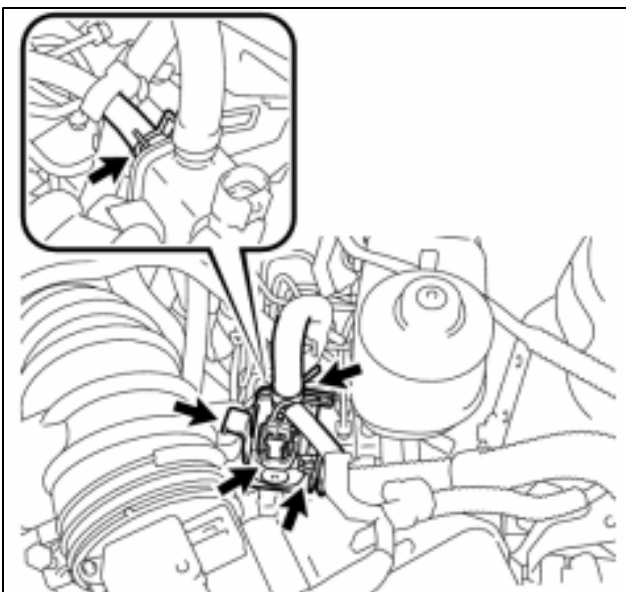


Fig. 3-5

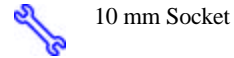
- (2) Remove the Vacuum Switched Valve (VSV) bracket from the slot in the air inlet tube by pulling straight up. (Fig. 3-5)
- (3) Remove the air inlet tube.



Fig. 3-6

(d) Remove the air cleaner inlet tray.

- (1) Remove the 10mm mounting bolts from the air cleaner inlet tray. (Fig. 3-6)



10 mm Socket

- (2) Lift up the tab for the wire harness tie. Remove the harness and tie from the tray. (Fig. 3-6)
- (3) Lift the tray up and remove.



Fig. 3-7

(e) Remove the air inlet ducting.

- (1) Remove the push-in clip. (Fig. 3-7)

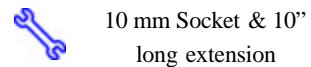


Flathead
Screwdriver



Fig. 3-8

- (2) Remove the bolt from the mounting tab of the lower inlet duct. (Fig. 3-8)



10 mm Socket & 10"
long extension

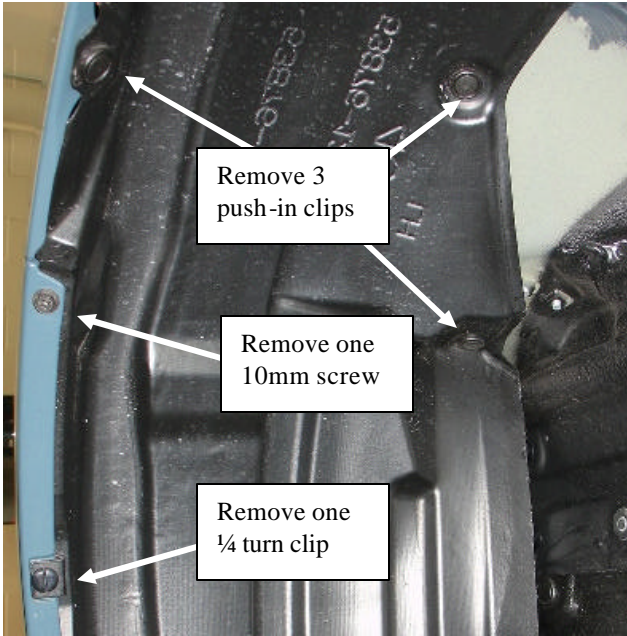


Fig. 3-9

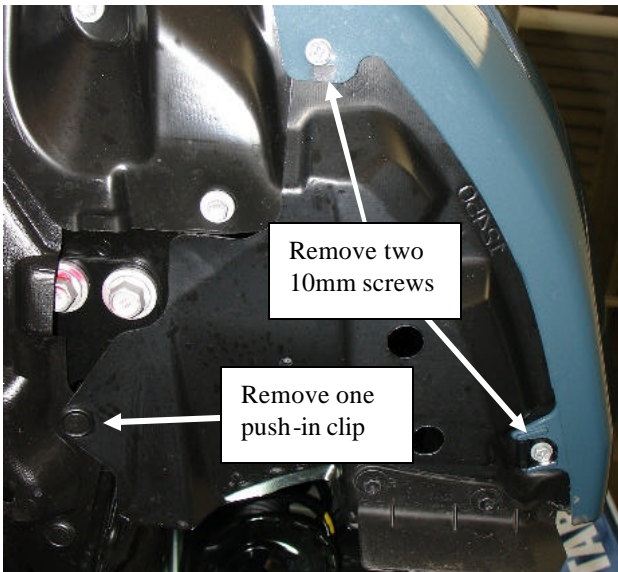


Fig. 3-10

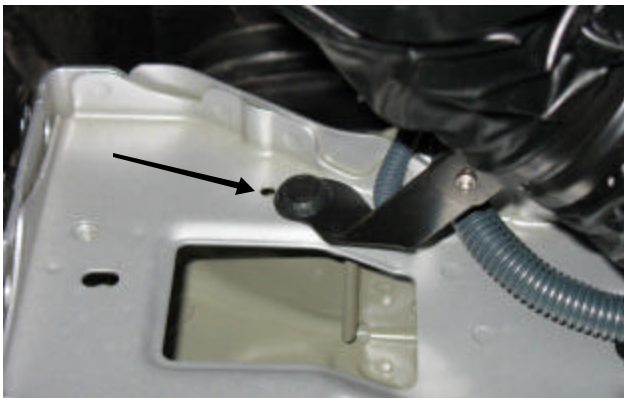


Fig. 3-11

- (3) Remove the front driver's side wheel/tire.
- (4) Partially remove the front driver side fender liner to expose the area behind the front fascia.



10 mm Socket
& small screwdriver

- (a) Remove three push-in clips. (Fig. 3-9)
- (b) Remove one 10mm screw. (Fig. 3-9)
- (c) Remove one 1/4 turn clip. (Fig. 3-9)
- (d) Remove two 10mm screws. (Fig. 3-10)
- (e) Remove one push-in clip. (Fig. 3-10)

- (5) Remove the clip holding the inlet tube to the fender, and remove the inlet tube from below. (Fig 3-11)



Small
Screwdriver



Fig. 3-12

- (6) Remove driver side bumper vent cover.
(Fig 3-12)



Fig. 3-13

- (f) Remove battery and battery carrier
 - (1) Disconnect positive battery cable from battery, and unbolt battery tie down bracket. (Fig 3-13)
 - (2) Remove battery cover, battery, and plastic battery tray.
 - (3) Disconnect negative battery cable from the vehicle by removing the 10mm bolt, and remove the entire cable assembly.

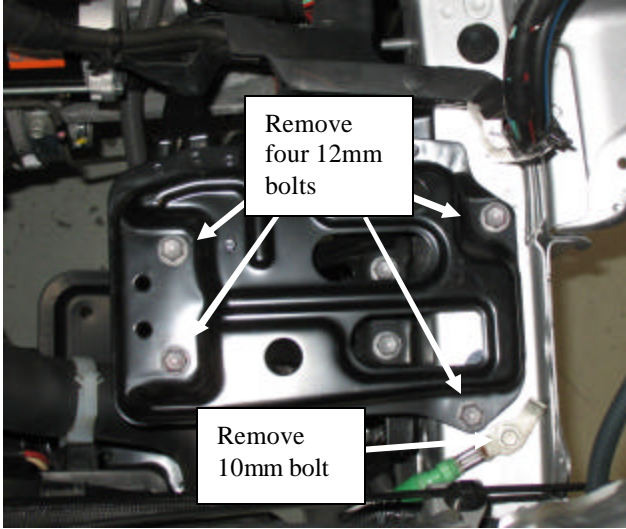


Fig. 3-14

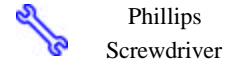
- (4) Unbolt the battery carrier by removing the four 12mm bolts. (Fig. 3-14)
- (5) Disconnect the chassis electrical ground by removing the 10mm bolt. (Fig 3-14)



Fig. 4-1

4. Installation Procedure: TRD Cold Air Intake System

- (a) Install the supplied brackets onto the TRD air cleaner outlet using the six provided screws (Fig 4-1)



Phillips
Screwdriver



CAUTION: Do not use an air or electrical powered tool to tighten the Phillips head screws. HAND-TIGHTEN ONLY.

- (b) Install the factory MAF sensor onto the TRD Cold Air Intake tube, with the provided 2.5mm screws. (Fig 4-2)



2.5mm Allen
wrench



- (1) Make sure the MAF sensor O-ring is not pinched and is fully seated inside the MAF sensor mount on the tube.



Fig. 4-2

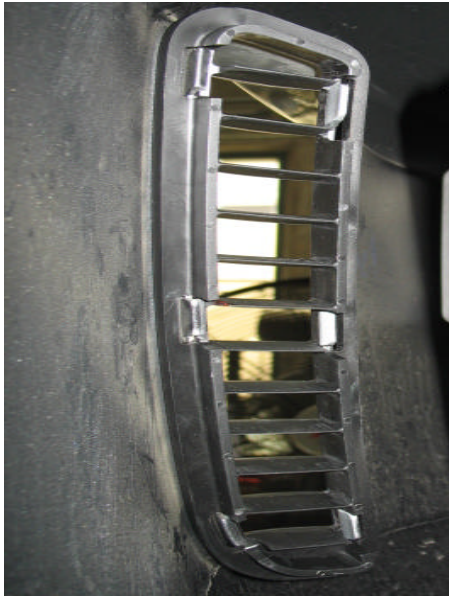


Fig. 4-3

- (c) Install the TRD air inlet grille by snapping it into place using the OE tabs. (Fig 4-3)

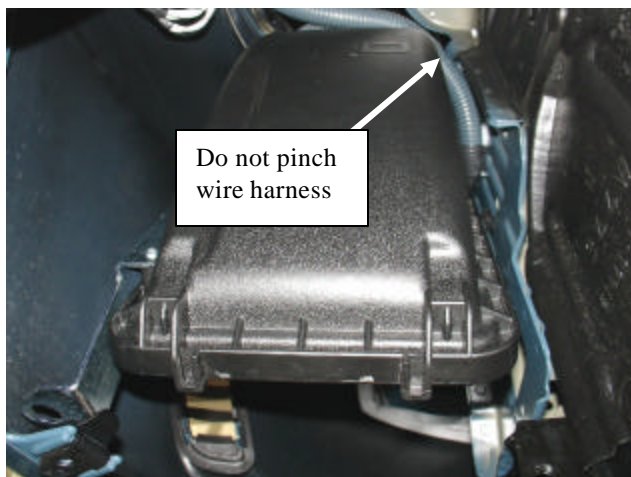


Fig. 4-4

- (d) Install the TRD air cleaner outlet assembly.
- (1) Install from the bottom of the car.
 - (2) Route the wire harness so it does not get pinched between the vehicle frame and the outlet assembly. (Fig. 4-4)

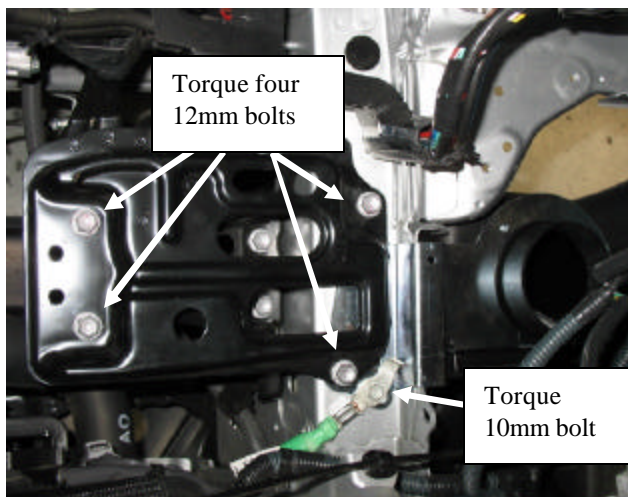


Fig. 4-5

- (e) Install air cleaner outlet assembly with the bracket under the battery carrier.
- (f) Replace battery carrier using the four 12mm factory bolts. (Fig 4-5)
- (g) Torque bolts: 19 N•m (189 kgf•cm, 14 ft•lbf)
- (h) Install chassis electrical ground using OE 10mm bolt. Torque bolt: 5.4 N•m (55 kgf•cm, 48 in•lbf)



Fig. 4-6

- (i) Install the TRD rubber inlet tube onto the TRD air cleaner outlet using the supplied #52 hose clamp. (Fig 4-6)

- (1) Clock inlet tube so there is clearance to the fuse box cover and also the wire loom located on the back side of the headlamp. (Fig. 4-6)

- (2) Torque #52 hose clamp: 1.4 N•m (14.3 kgf•cm, 12 in•lbf)



Fig. 4-7

- (j) Install supplied TRD air filter into air cleaner inlet. (Fig. 4-7)

- (1) The filter gasket should seal flush with the air cleaner inlet.

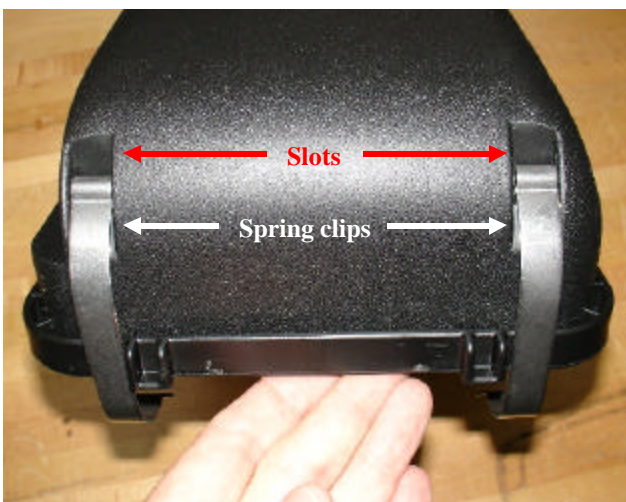


Fig. 4-8

- (k) Install two supplied spring clips into the open slots on the air cleaner inlet as shown. (Fig. 4-8)

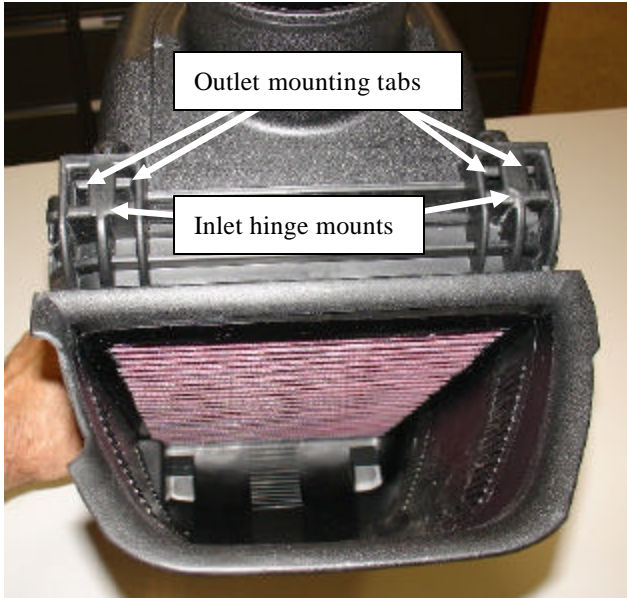


Fig. 4-9



Fig. 4-10

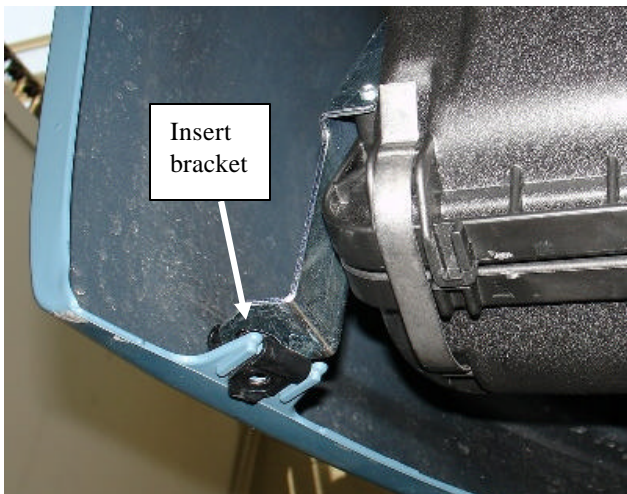


Fig. 4-11

(l) Figure 4-9 shows the correct installation of the air cleaner inlet to the air cleaner outlet on the bench.

(1) Note hinge mounts on air cleaner inlet fit over mounting tabs on air cleaner outlet.

(2) Figure 4-9 is provided for reference only to understand the hinge and tab mounting points.

CAUTION: Assembling the air cleaner inlet hinge mounts to the air cleaner outlet tabs is more difficult when the air cleaner outlet is mounted in the vehicle, but is the recommended method.

(m) Slide the air cleaner inlet assembly (air cleaner inlet, air filter, and spring clips) up into place from below the vehicle. (Fig. 4-10)

(n) Assemble the hinge mounts on the air cleaner inlet over the tabs on the air cleaner outlet.

(o) The lower side of both the air cleaner inlet and outlet should be even with each other.

(p) Snap both spring clips into place to secure the inlet to the outlet side. (Fig. 4-10)

(q) Insert air cleaner assembly steady bracket into factory plastic clip as shown. (Fig. 4-11)

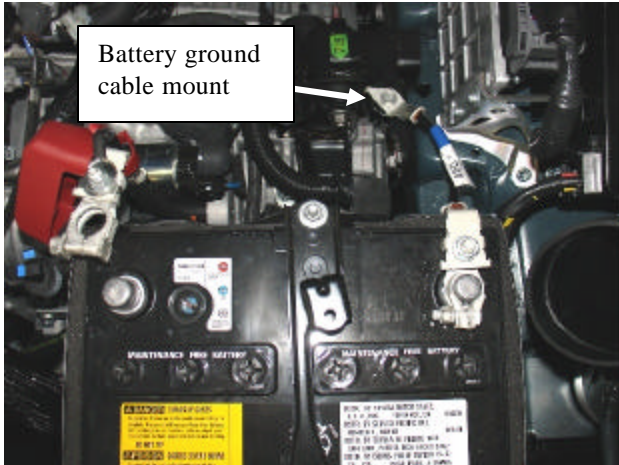


Fig. 4-12



Fig. 4-13



Fig. 4-14

- (r) Reinstall the battery plastic tray, battery, and battery cover, and secure it with the factory battery tie down bracket and hardware. (Fig 4-12)
- (s) Install the battery ground cable, relocating the chassis side to the OE air cleaner mounting bracket. (Fig 4-12)
- (t) Disconnect negative battery cable at battery terminal when finished with Step (s).
- (u) Install the TRD inlet pipe.
 - (1) Install the TRD inlet pipe onto the factory throttle body using the included reducer coupler, and a #48 and #40 hose clamps.(Fig4-13)
 - (2) Tighten the #40 clamp only at this time. Torque: 4.5 N·m (46 kgf·cm, 40 in·lbf)
 - (3) Install the inlet pipe into the rubber inlet tube using an included #48 hose clamp. (Fig 4-14)
 - (4) Tighten both #48 hose clamps. Torque: 4.5 N·m (46 kgf·cm, 40 in·lbf)



Fig. 4-15

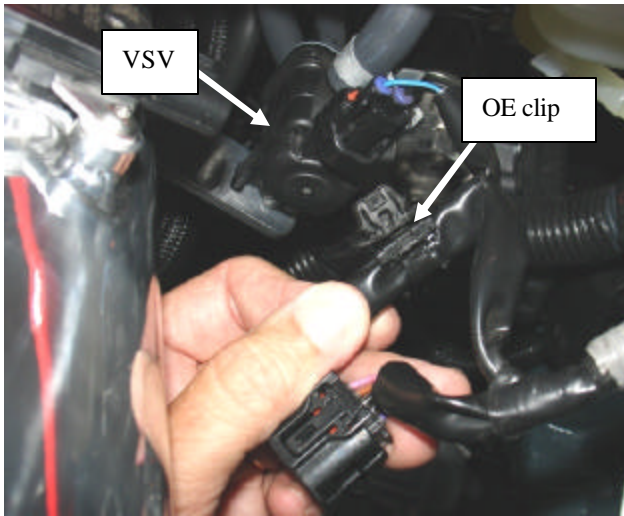


Fig. 4-16

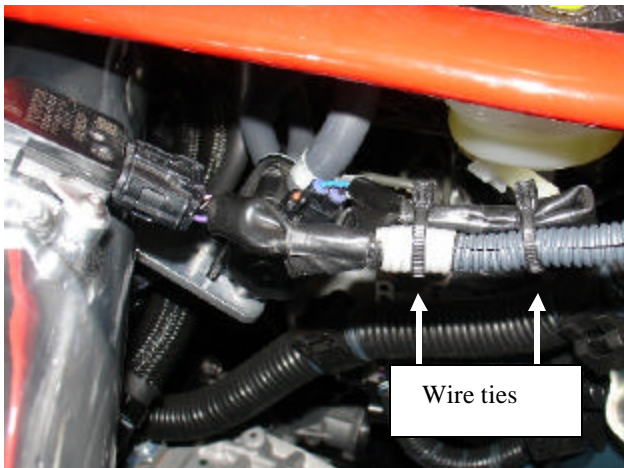


Fig. 4-17

(5) Install the factory cam cover breather hose onto the inlet pipe using the factory clamp.(Fig 4-15)

(6) Use a Phillips screwdriver to remove the factory VSV bracket from the VSV.

(7) Attach the VSV to the mount on the inlet pipe using the supplied 5mm bolt (8mm head) and lock washer. (Fig. 4-16)

(8) Remove the OE wire harness clip from the VSV wire loom. (Fig. 4-16)

Note: The OE clip may be removed by using a small screwdriver to lift the lock tab and pushing the band back through the clip.

(9) Reconnect the MAF sensor connector. (Fig. 4-17)

(10) Use two of the supplied wire ties to secure the VSV wire harness to the MAF sensor wire harness as shown. (Fig. 4-17)

(v) Reinstall the driver's side inner fender.

(1) Review Figures 3-9 and 3-10 on page 5 to assist with correct bolt and clip replacement.



Fig. 4-18

(w) Reinstall driver’s side front wheel/tire.

(1) Torque wheel nuts: 103 N•m (76 ft•lbf)

(x) Reconnect battery cable to positive side terminal of battery. (Fig. 4-18)

(1) Torque nut: 5.4 N•m (55 kgf•cm, 48 in•lbf)

(y) Reconnect battery cable to negative side terminal of battery. (Fig. 4-18)

(1) Torque nut: 5.4 N•m (55 kgf•cm, 48 in•lbf)

(z) Check the clearance between the TRD inlet pipe and the negative terminal and post of the battery.

(1) If needed, additional clearance may be gained by re-adjusting the rubber inlet tube at the air cleaner outlet and/or the TRD inlet pipe connections.

(aa) Reinstall the engine cover.

(1) Secure the cover with the two OE 10mm nuts.

(2) Torque nuts: 9.0 N•m (92 kgf•cm, 80 in•lbf)

(bb) Apply emissions certification label to vehicle.

(1) Clean the area on the underside of the vehicle hood just above the Vehicle Emission Control Information label with soap and water. (Fig. 4-19)

(2) Rinse area with water and dry with a clean lint-free cloth.

(3) Remove adhesive backing from supplied emissions certification label and apply to underside of vehicle hood. (Fig. 4-19)



Fig. 4-19

(cc) Place entire installation instructions in vehicle glove box for customer's reference.

Air Filter Maintenance

Service Intervals- Service your TRD filter element with TRD's filter cleaning system (Toyota p/n PTR05-00000-CL) at least every 50,000 miles to maintain optimum performance. We recommend that TRD filter elements be serviced every 30,000 miles for off-road and high-performance street applications.

If you live in a region with extremely fine dust (arid or desert climates for example), follow the recommended schedule for off-road and high-performance vehicles.

Do not over-oil the filter. This could contaminate the MAF sensor and cause the MIL (Malfunction Indicator Lamp) to illuminate and require non-warrantable repairs.

5. Caring For The Finish On Your TRD Cold Air Intake System

TRD intakes have a protective clear powdercoat finish that ensures a maintenance free shine.

To clean your TRD intake, simply spray with window cleaner and wipe with a soft, clean terry-cloth towel.

NEVER use harsh chemicals or metal polish on TRD intakes. Harsh chemicals and metal polishes will permanently damage the finish of your intake.

Checklist - these points **MUST** be checked to ensure a quality installation.

Check:

Look For:

Accessory Function Checks

- Start the vehicle.
- If after you start the vehicle, or while driving, you encounter a Malfunction Indicator Lamp (MIL), check the following:

- Full engagement of MAF sensor connector.
- Tightness of all clamps.
- Correctly installed valve cover breather hose.

Vehicle Function Checks

- If the lamp will not go off even after checking and/or repairing any of the above:

- Contact your Toyota dealer as soon as possible.