

**Part Number: PTR03-21070**

**Kit Contents**

Item #	Quantity Reqd.	Description
1	1	Upper Intake Pipe
2	1	Middle Intake Pipe
3	1	Lower Intake Pipe
4	1	Air Filter
5	1	Air Bypass Valve w/Clamps
6	1	Hardware Bag

**Hardware Bag Contents**

Item #	Quantity Reqd.	Description
1	1	Coupler, 2.50" to 2.75"
2	1	Silicone Coupler, 2.50" x 2.0"
3	3	Hose Clamp, #40
4	2	Hose Clamp, #44
5	1	Venturi, MAF Insert
6	2	Socket Bolt, 4mm
7	3	Rubber Mount, M6
8	1	Star Washer, 6mm
9	3	Fender Washer, 6mm
10	1	Bolt, 5mm x .8 x 12mm
11	1	Washer, 5mm Split Lock
12	4	Locknut, 6mm
13	5"	Hose Wrap, 1/2"
14	2	TRD Decals
15	1	Instruction Manual

**Recommended Tools**

<b>Personal &amp; Vehicle Protection</b>	<b>Notes</b>
Fender covers	
<b>Special Tools</b>	<b>Notes</b>
<b>Installation Tools</b>	<b>Notes</b>
Ratchet	
Extension	6"
Socket	5/16"
Socket	10mm
Phillips screwdriver	#2
Flat screw driver	1/8"
Allen wrench	3mm
Pliers	Regular and Needle-Nose
Diagonal cutters	
Tape measure	
Torque wrench	0-120 in.-lbf.
Jack and stands	or chassis lift
<b>Special Chemicals</b>	<b>Notes</b>
Window cleaner	
WD40	

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

**Additional Items Required For Installation**

Item #	Quantity Reqd.	Description

**General Applicability**

2007 Scion tC
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**Conflicts**

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**Recommended Sequence of Application**





Item #	Accessory
1	TRD Cold Air Intake
2	TRD Strut Tie Bar
3	TRD Carbon Fiber Engine Cover

\*Mandatory

**Vehicle Service Parts** (may be required for reassembly)

Item #	Quantity Reqd.	Description
1		

**Legend**

	<b>STOP:</b> Damage to the vehicle may occur. Do not proceed until process has been complied with.
	<b>OPERATOR SAFETY:</b> Use caution to avoid risk of injury.
	<b>CAUTION:</b> 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.
	<b>TOOLS &amp; EQUIPMENT:</b> Used in figures, calls out the specific tools and equipment recommended for this process.

**Please see page 11 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.

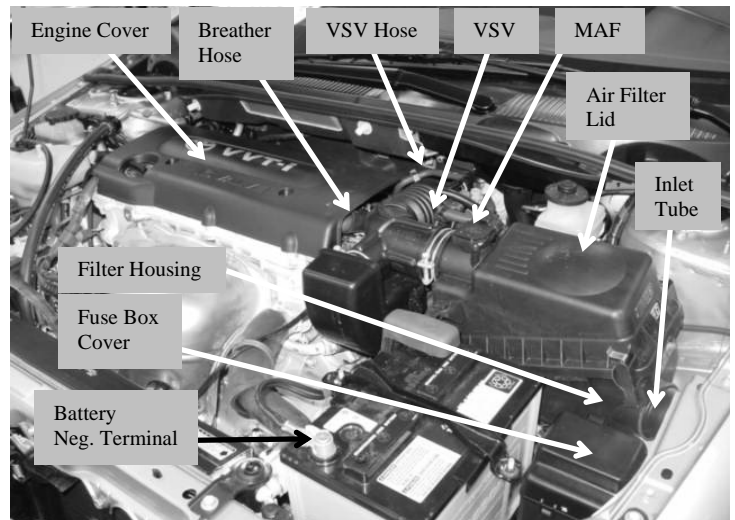
This document covers such items as:-

- 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.

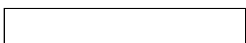
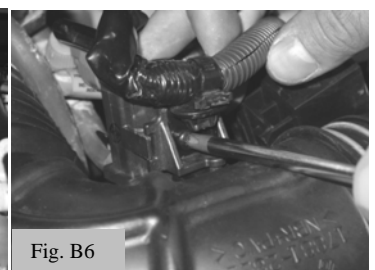
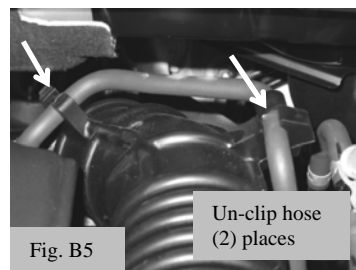
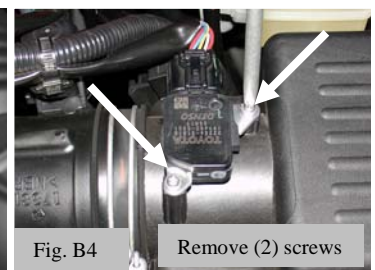
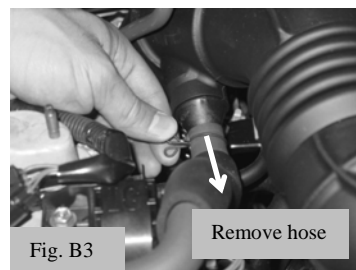
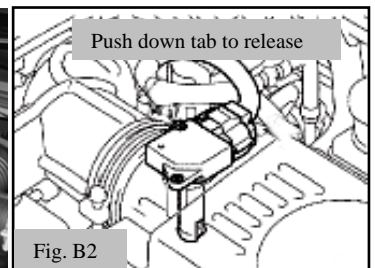
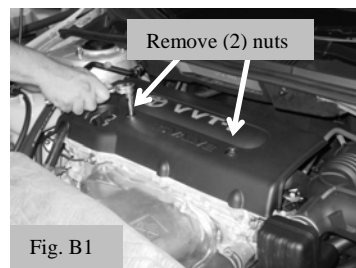
**A. Vehicle Preparation**

-  1. Apply vehicle protection measures to protect vehicle from damage.
-  2. Remove negative cable from battery terminal.

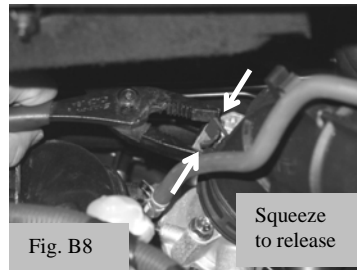
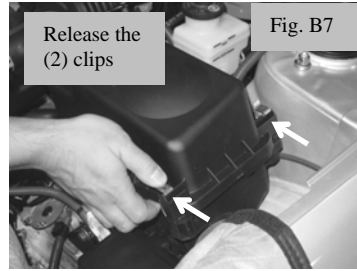


**B. Remove Stock Intake System**

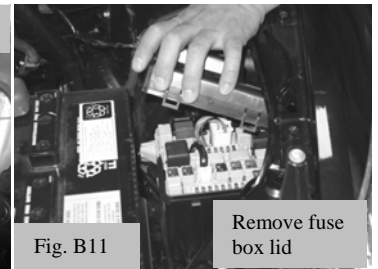
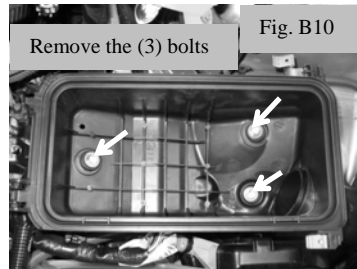
1. Remove engine cover. (Fig. B1)
2. Disconnect the MAF sensor connector. (Fig. B2)
3. Disconnect the breather hose from the intake tube. (Fig. B3)
4. Using a Phillips head screw driver, remove the MAF sensor from the intake tube. (Fig. B4)
-  5. Dismount the VSV vacuum hose from the intake tube. (Fig. B5)
6. Using a Phillips head screwdriver, remove the VSV from intake tube. (Fig. B6)



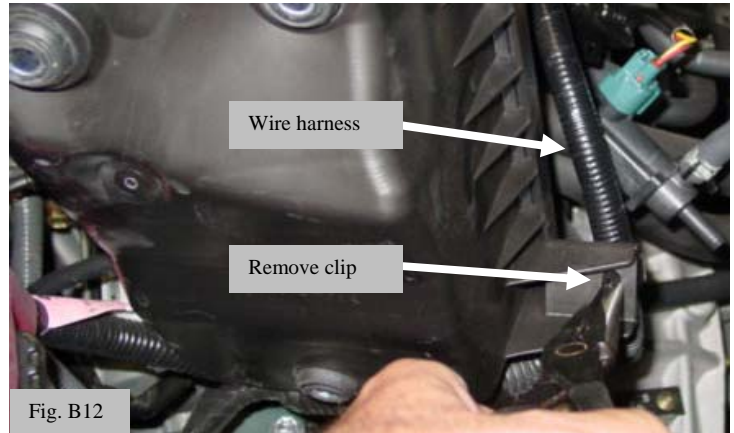
- 7. Open the air filter lid. (Fig. B7)
- 8. Using pliers, open the clamp and remove the intake tube from the throttle body. (Fig. B8)
- 9. Lift out the intake tube/filter lid assembly.
- 10. Remove air filter element. (Fig. B9)



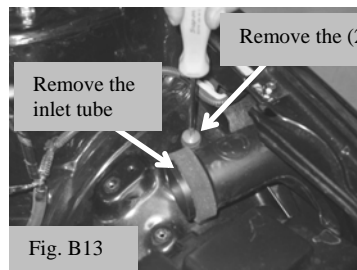
- 11. Remove the (3) filter housing mounting bolts. (Fig. B10)
- 12. Remove fuse box cover. (Fig. B11)



- 13. Tilt the air filter housing up towards the engine and use needle-nose pliers to unclip the MAF sensor/VSV wire harness from the housing. (Fig. B12)
- 14. Lift out the filter housing.



- 15. Remove the (2) plastic mounting clips and remove the inlet tube. (Fig. B13 & B14)

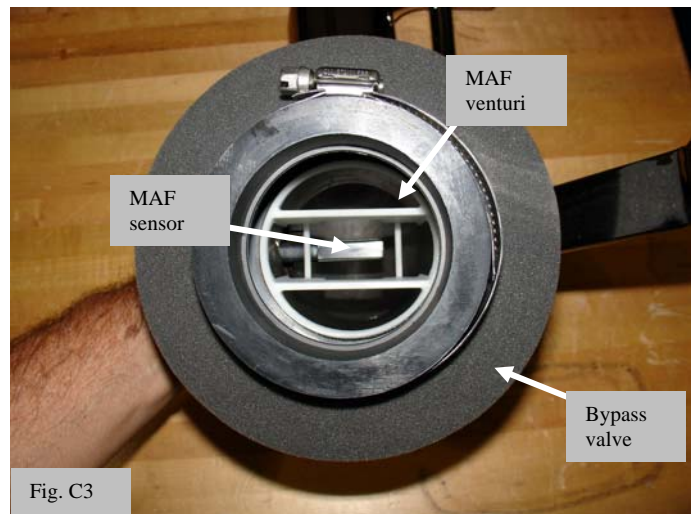
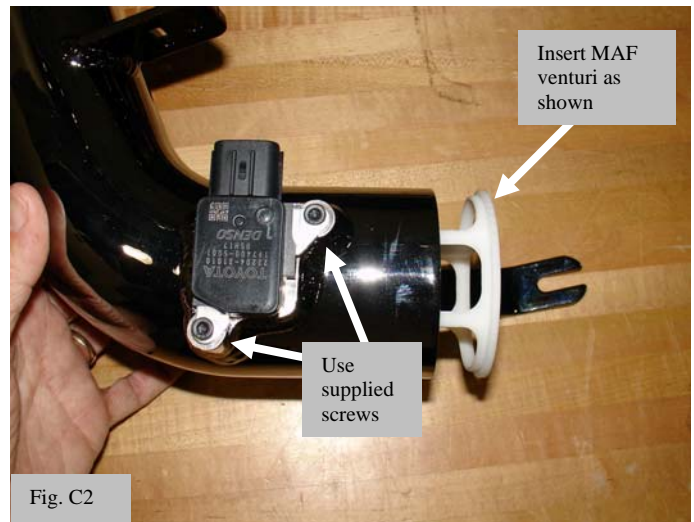
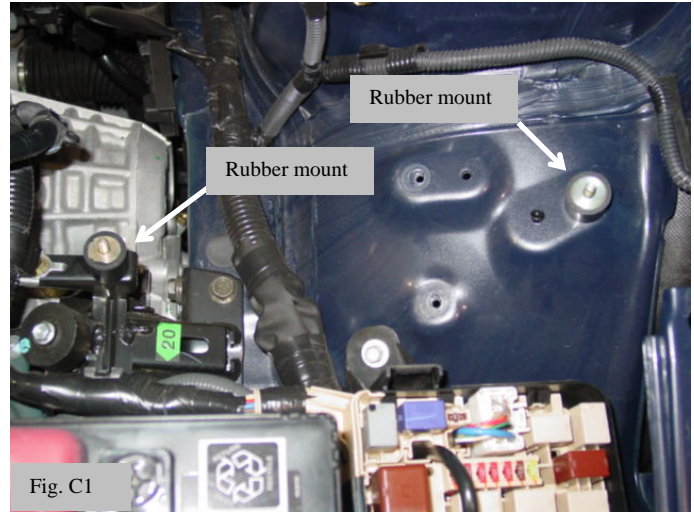




### C. Install the Cold Air Intake

(From the engine compartment)

1. Install the (2) rubber mounts as shown.  
(Fig. C1)
  
2. Using the supplied Allen screws, re-install the MAF sensor onto the Upper Intake Pipe.  
(Fig. C2)
  
3. Insert supplied MAF venturi fully into Upper Intake Pipe. Clock venturi insert as shown.  
(Fig. C2)
  
4. Install the Air Bypass Valve to the Upper Intake Pipe and tighten the clamp.
  - i. Lubricate the rubber connection on the 2.75" diameter side of the Air Bypass Valve with WD-40.
  - ii. Carefully insert the Upper Intake Pipe with the MAF venturi fully into the Air Bypass Valve. (Fig. C3)
  - iii. Make sure the MAF venturi is still clocked as shown. (Fig. C3) If not, rotate the Air Bypass Valve to correct the position. Clock hose clamps as shown.  
(Fig. C3)



5. Install the 2.5" to 2.75" coupler onto the throttle body.
  - i. Install the 2.5" coupler side with a #40 hose clamp on the throttle body and tighten the clamp. (Fig. C4)
  - ii. Install a #44 clamp on the 2.75" coupler side but do not tighten at this time. (Fig. C4)



6. Install the Upper Intake Pipe /Air Bypass Valve to the throttle body coupler and the rubber mount.
  - i. Use the supplied 6mm wide area washer and lock nut to secure the Upper Intake Pipe mount to the rubber mount.

**Note:** Do not fully tighten the clamp or the mount nut at this time



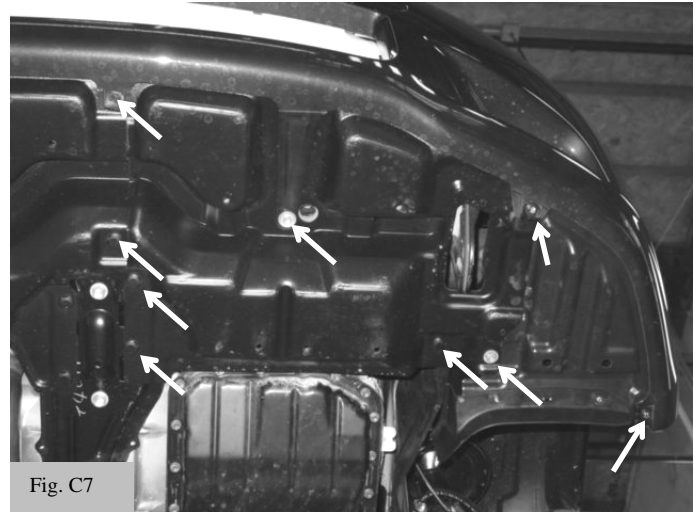
7. Install the Middle Intake Pipe to the Air Bypass Valve and the rubber mount.
  - i. The Middle Intake Pipe passes through the engine compartment and into fender well. (Fig. C6)
  - ii. Lubricate the end of the Middle Intake Pipe with a small amount of WD40 before inserting into the Air Bypass Valve.
  - iii. Make sure the pipe is fully inserted into the Air Bypass Valve.
  - iv. Use the supplied 6mm washer and lock nut on the rubber mount. Do not fully tighten the clamp or the mount nut at this time.



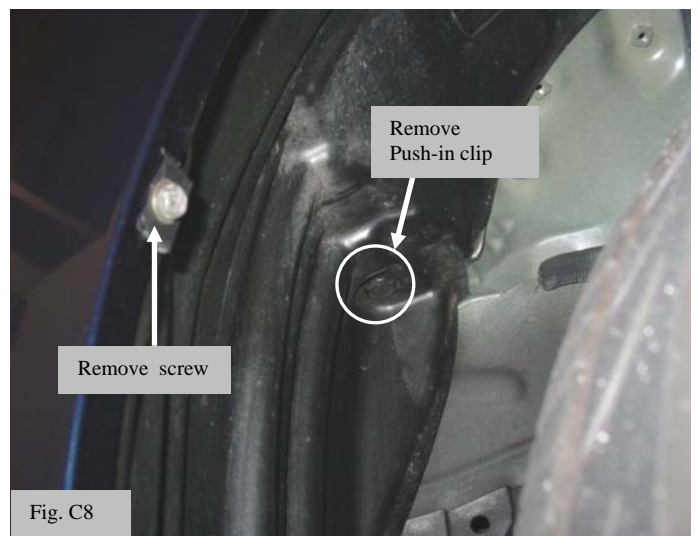


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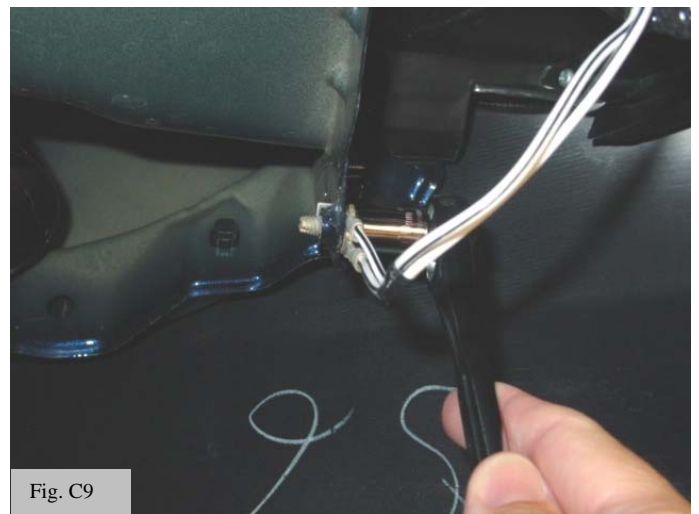
8. Raise the front of the vehicle and support with jack stands.
9. Remove the Drivers Side splash shield.  
(Fig. C7)



10. Remove the screw and the plastic push-in clip that secures the driver-side fender liner.  
(Fig. C8)



11. Remove the bolt that secures the wiring ground strap located beneath the front driver-side headlight assembly. (Fig. C9)



12. Install the rubber mount in place of the bolt.



- i. Make sure the ground wire is installed between the rubber mount and the vehicle, with the star washer between the ground wire and the rubber mount. The correct order is vehicle, ground wire, star washer and rubber mount. (Fig. C10)
- ii. Install the 6mm lock nut as shown. (Fig. C10)

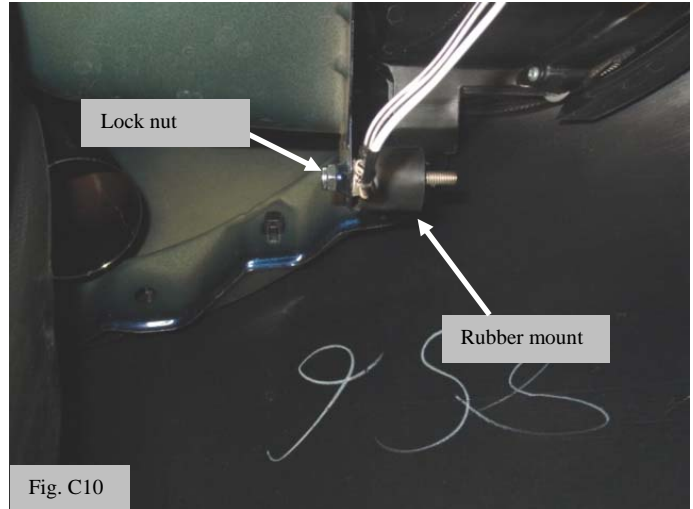


Fig. C10

13. Install the small coupler to the Middle Intake Pipe. Install (1) clamp and tighten. (Fig. C11)

- i. Make sure the clamp does not contact the vehicle.
- ii. Slide the second clamp into place but do not tighten. (Fig. C11)



Fig. C11

14. Install the Lower Intake Pipe to the Middle Intake Pipe coupler

- i. Make sure the end of the pipe is fully inserted into coupler and that the pipe ends are flush to each other. Do not tighten the clamp at this time. (Fig. C12)
- ii. Secure Lower Intake Pipe mount to rubber mount with a 6mm wide area washer and a lock nut. (Fig. C12)

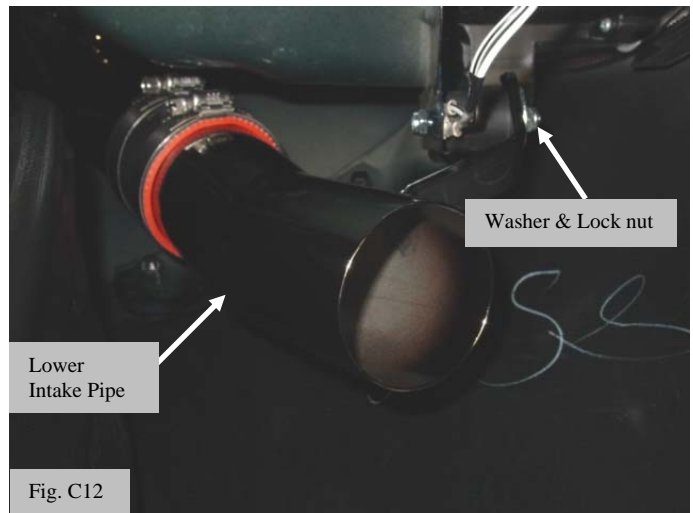


Fig. C12

- 15. Install the Air Filter to the Lower Intake Pipe and tighten the clamp.
  - i. Make sure the pipe is fully inserted into the filter. (Fig. C13)
- 16. Tighten all clamps and mounts.
  - i. Tighten all clamps to 40 in.-lbf.
  - ii. Work from the bottom of the vehicle toward the top.
  - iii. As you tighten, make sure there is no contact between the Intake and the vehicle.
  - iv. Rotate any tubes as necessary to gain proper clearance.
- 17. Reinstall splash shield and hardware for the driver-side fender liner.
- 18. Reinstall fuse box cover
- 19. Remove wire loom bracket from VSV/MAF sensor wire loom clip. (Fig. C14)



Fig. C13

- 20. Install the hose wrap onto the VSV lower vacuum hose as shown. (Fig. C15)
- 21. Use a tape measure and diagonal cutters to remove 2.25" (57mm) from the VSV lower vacuum hose. (Fig. C15)

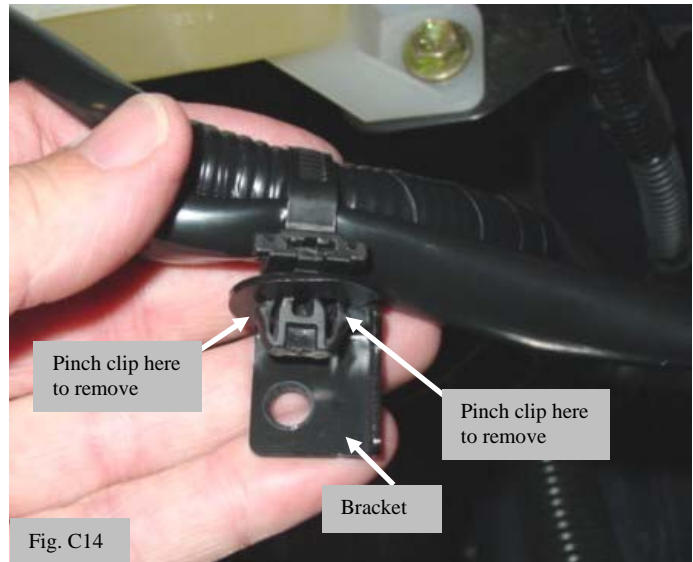


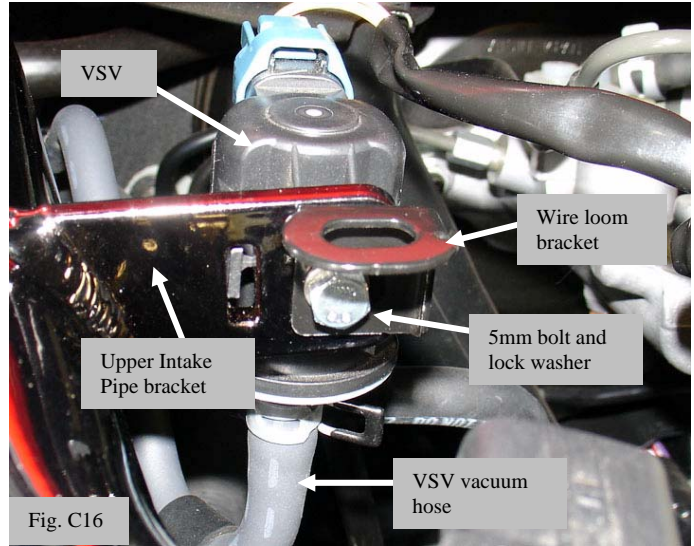
Fig. C14



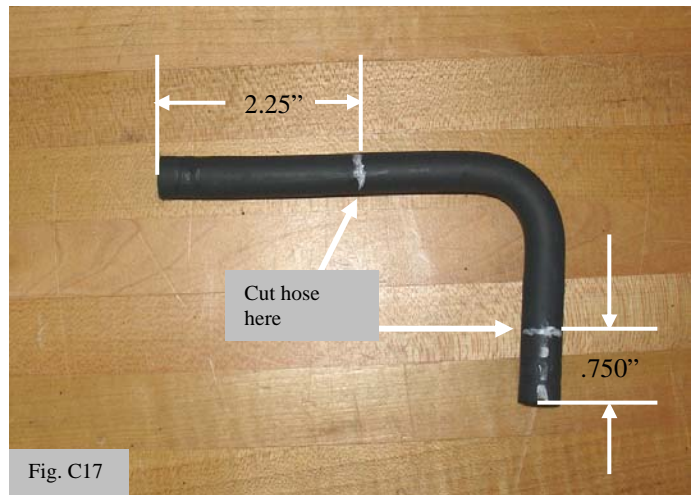
Fig. C15



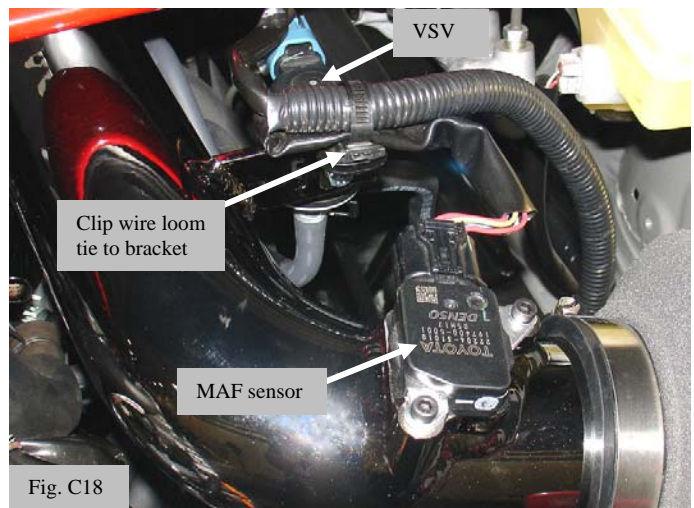
- ⚠ 22. Use the 5mm bolt and lock washer to secure the wire loom bracket and VSV to the bracket on the Upper Intake Pipe. (Fig. C16)
- 23. Reconnect VSV lower vacuum hose by using the factory spring clamps.
  - i. Route hose along side of Upper Intake Pipe and around back side of pipe to connect to hose nipple on throttle body.



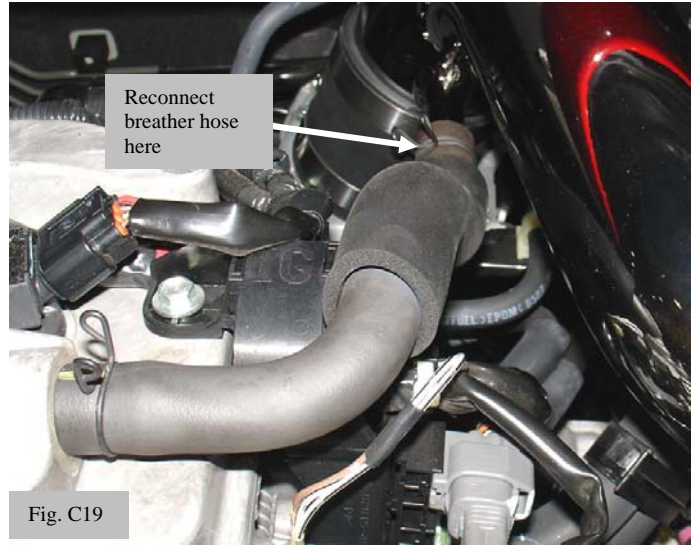
- 24. Remove VSV upper hose and use a tape measure and diagonal cutters to shorten hose.
  - i. Remove 2.25" (57mm) off long leg of VSV upper hose. (Fig C17)
  - ii. Remove .750" (19mm) off short leg of VSV upper hose. (Fig. C17)



- ⚠ 26. Reconnect MAF sensor connector. (Fig. C18)
- 27. Clip wire loom tie onto bracket installed in Step C22. (Fig. C18)



28. Reconnect breather hose to hose nipple on Upper Intake Pipe. (Fig. C19)
  - i. Re-use factory clamp to secure hose.
29. Reinstall engine cover.
  - i. Tighten nuts to 62 in.-lbf.
30. Reconnect battery cable to negative terminal on battery.
  - i. Tighten battery cable 10mm nut to 36 in.-lbf.
31. Place instructions in vehicle glove box so owner has “Care and Maintenance” information.



## **Air Filter Maintenance**

Service Intervals- Service your TRD filter element with TRD's filter cleaning system (Toyota p/n PT901-17801-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.

- Always inspect your filter element whenever you change your oil.
- 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.

## **Caring For The Finish On Your TRD Cold Air Intake.**

- (a) TRD intakes have a protective clear powdercoat finish that ensures a maintenance-free shine.
- (b) To clean your TRD intake, simply spray with window cleaner and wipe with a soft, clean terry-cloth towel.
- (c) NEVER use harsh chemicals or metal polish on TRD intakes. Harsh chemicals and metal polishes will permanently damage the finish of your intake.



Check:

Look For:

Vehicle Function Checks

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

- Over-oiled Air Filter:

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

- Full engagement of MAF sensor connector.
- Correct positioning of MAF sensor O-ring.
- Tightness of all clamps.
- Full insertion of tubes into connectors.
- Correctly installed valve cover breather hose.
- Full engagement of VSV connector.
- Clean the oil filter as indicated in the TRD Filter Cleaning Kit, and apply the proper amount of oil.
- Replacement (non-warrantable) of the MAF sensor may be required.
- Contact your Toyota dealer as soon as possible.

