Part Number(s): PTR03-52110

Kit Contents		
Item #	Quantity Reqd.	Description
1	1	TRD Inlet Tube
2	1	TRD Upper Air Box with HC Trap
3	1	Hump Hose Coupler
4	1	Hump Hose Coupler with hose clip
5	1	TRD Air Box Inlet Tube
6	1	TRD Air Filter (P/N: PTR43-00084)
Hardware Bag Contents		
Item #	Quantity Reqd.	Description
7	3	#48 Hose Clamp
8	1	#44 Hose Clamp
9	1	Bolt, M6 X 1.0 X 25mm
10	1	Washer, M6 Fender
11	1	Nylon Tie Strap, Tree Mount
12	1	Grommet
Literature Bag Contents		
Item #	Quantity Reqd.	Description
1	1	Instructions
2	1	C.A.R.B. E.O. Decal

Recommended Tools	
Safety Tools	
Vehicle Protection	Blankets or Fender Covers
Special Tools	
None Required	
Installation Tools	
Nut driver	8mm or 5/16”
10mm socket	
Drive ratchet	
Drive extension	12” long
Phillips head screwdriver	#3
Pliers	
Torque wrench	in. lbf. (0 – 120 in. lbf.)
Special Chemicals	
Glass cleaner	
Silicone spray lubricant	

Additional Items Required For Installation		
Item #	Quantity Reqd.	Description
Additional Items Required For Installation		
Item #	Quantity Reqd.	Description
Recommended Sequence of Installation		
Item #	Accessory	Description

*Mandatory

Legend

STOP	**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
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation.
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation.
	TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process

Please see page 15 for important “Care and Maintenance” information!

Torque Specifications

Hardware Type	SAE Torque in lbf	Metric Torque Nm
M8	60 ± 5.0	6.7 ± 0.6
M6	40 ± 5.0	4.5 ± 0.6
M4	10 ± 2.0	1.1 ± 0.2
Hose Clamp	30 ± 5.0	3.4 ± 0.6

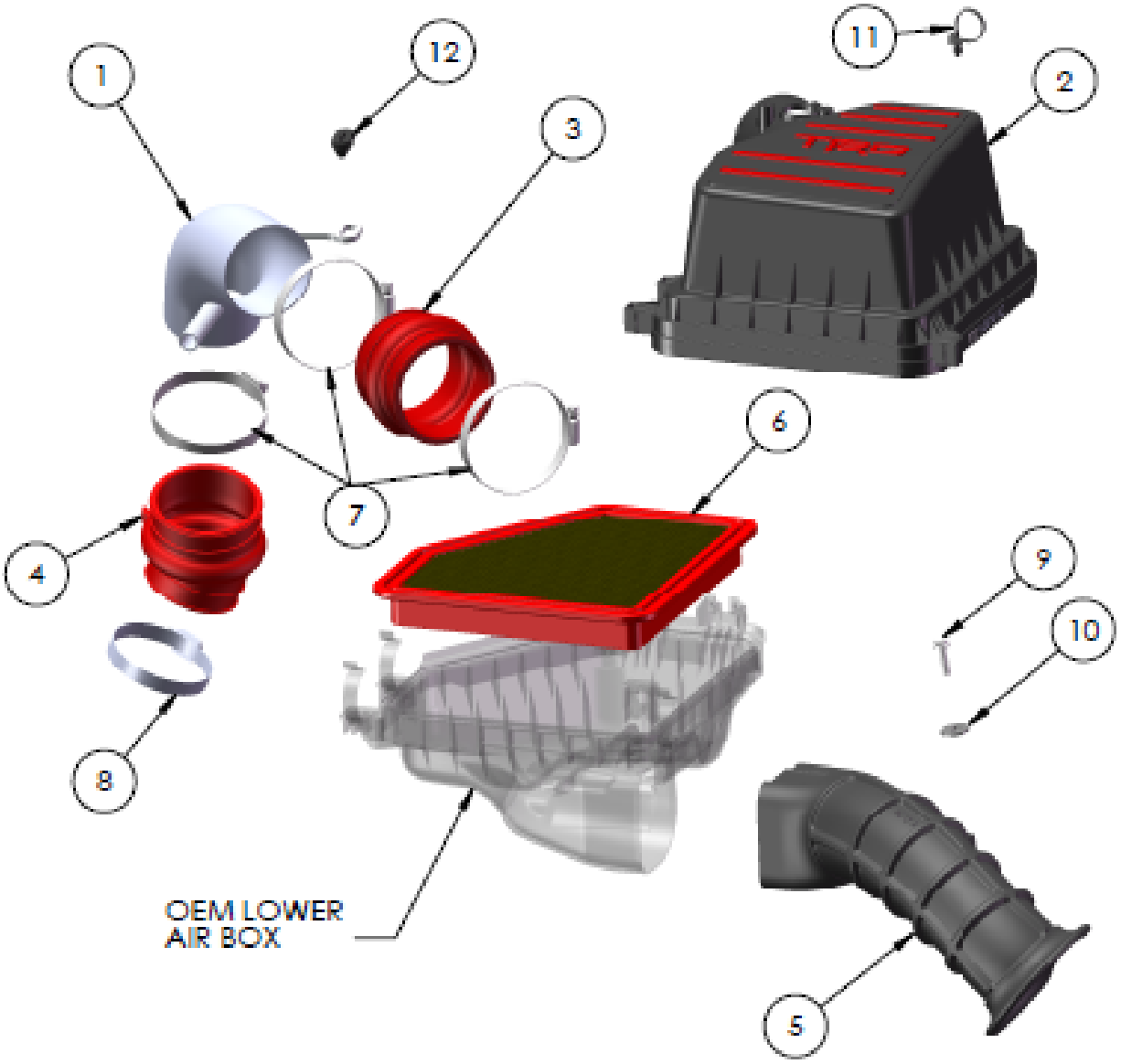

Fig. A 1

A. Check Kit Contents

1. Check kit for contents and damage. (Fig. A 1)

B. Vehicle and Parts Preparation

1. Completely read instructions and familiarize yourself with the installation before beginning.
2. Open hood
3. Apply vehicle protection to prevent damage to painted surfaces.
4. Prior to installation, make sure all parts of the Performance Air Intake are clean and free of debris.
   i. Blow out the inside of the tube and air box with compressed air.

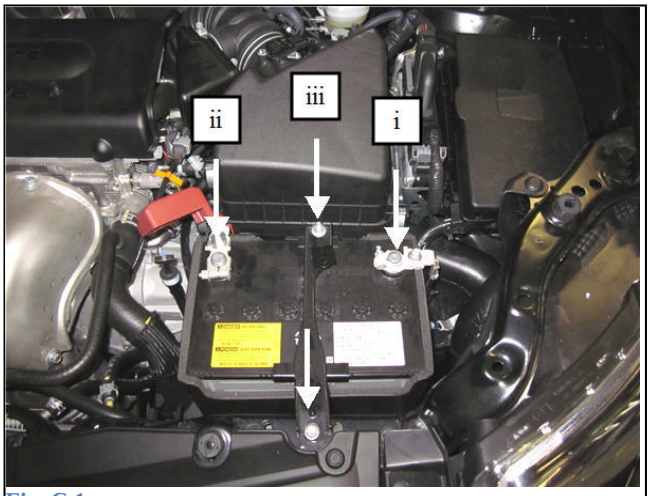

Fig. C 1

C. Remove Factory Components

1. Remove M6 bolts securing the battery and the battery terminals. (Fig. C 1)
   i. Remove negative terminal
   ii. Remove positive terminal
   iii. Remove the battery brace
2. Remove the battery from the engine compartment. (Fig. C 2)

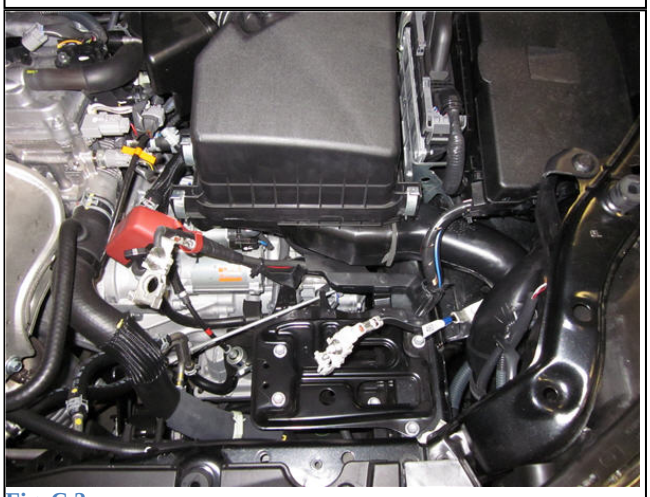
Fig. C 2

3. Remove M6 bolt securing the OEM air box inlet tube to the inner fender apron and the plastic fastener. (Fig. C 3)

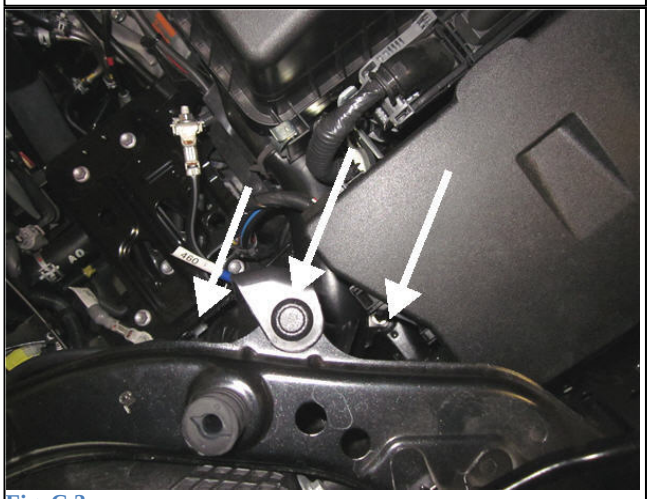
Fig. C 3

4. Remove OEM air box inlet tube. (Fig. C 4)
   i. Remove the top section before removing the main tube.

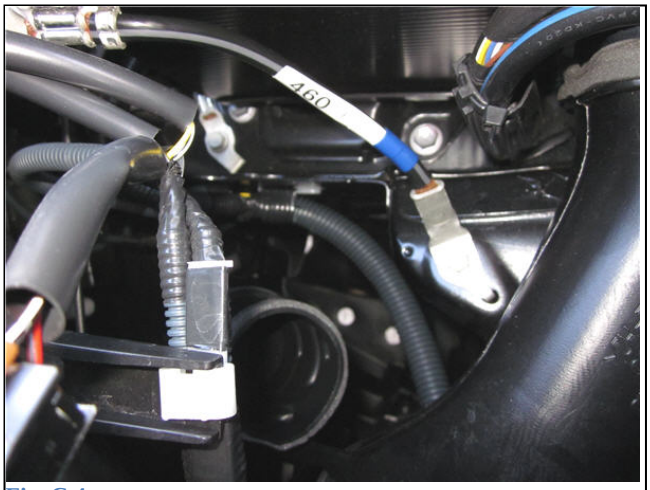

Fig. C 4

5. Unplug MAF sensor and unclip the wiring harness from the OEM air box lid. (Fig. C 5)

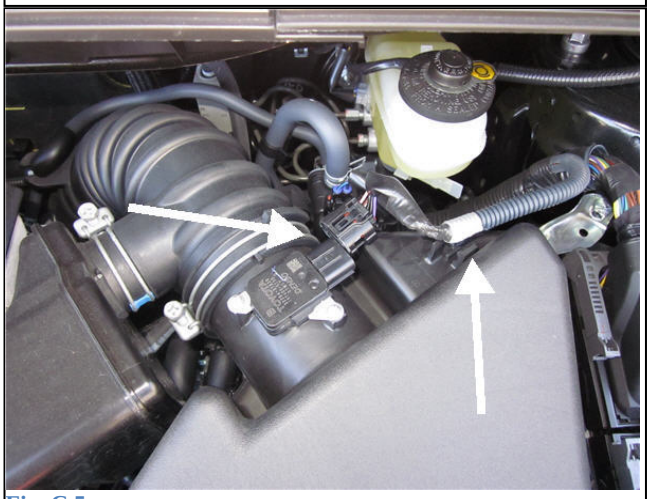
Fig. C 5

6. Loosen the hose clamp at the neck of the air box. (Fig. C 6)


Fig. C 6

7. Remove the MAF sensor from the OEM air box by removing the two screws set aside for later use. (Fig. C 7)

Fig. C 7

8. Remove the MAF sensor and set it aside for later use. (Fig. C 8)

Fig. C 8

9. Unclip the three air box clips. (Fig. C 9)

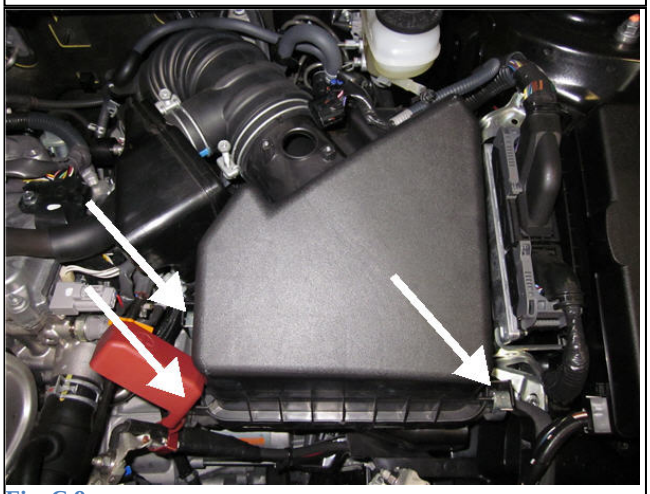

Fig. C 9

10. Lift and remove the OEM upper air box. (Fig. C 10)

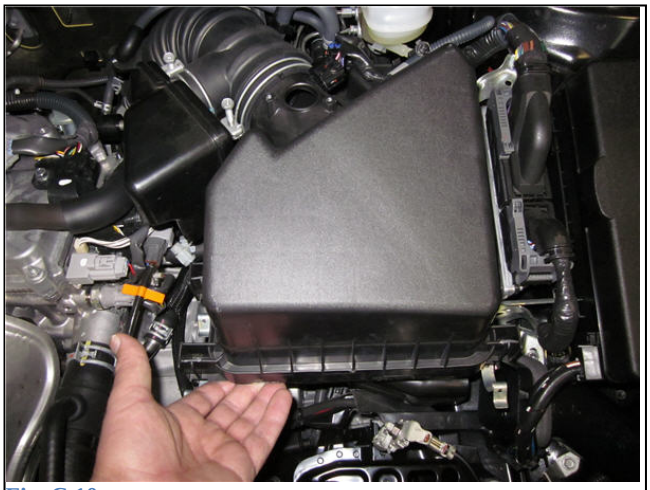

Fig. C 10

11. Remove the OEM air filter. (Fig. C 11)

Fig. C 11

12. Remove the M6 bolts on the engine cover. Remove the engine cover. (Fig. C 12)
    i. Set the OEM bolts and engine cover aside for reinstallation later.

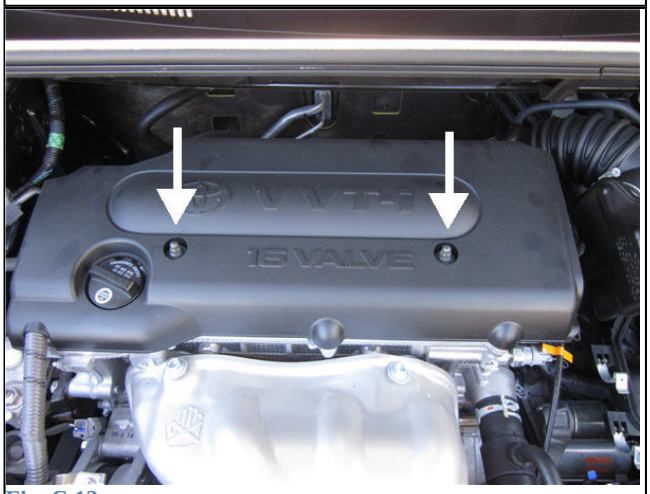

Fig. C 12

13. Disconnect the crank case vent hose from the inlet hose. (Fig. C 13)
    i. Do not remove the spring clip from the hose.

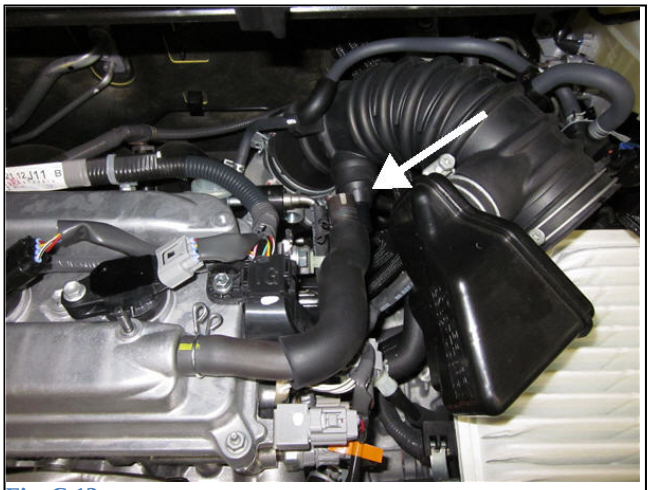

Fig. C 13

14. Remove the VSV from the OEM inlet hose by pulling it up and out of the rubber mount. (Fig. C 14)
    i. Unclip the vacuum hose from the rubber inlet hose near the throttle body and retain for later use.

Fig. C 14

15. Disconnect the OEM inlet hose from the throttle body by squeezing the clamp with a pair of pliers and pulling up on the hose. (Fig. C 15)
    i. Remove the OEM inlet hose.

Fig. C 15

D. Install TRD Air Intake

1. Lower the TRD air box inlet tube into position behind the headlight as shown. (Fig. D 1)

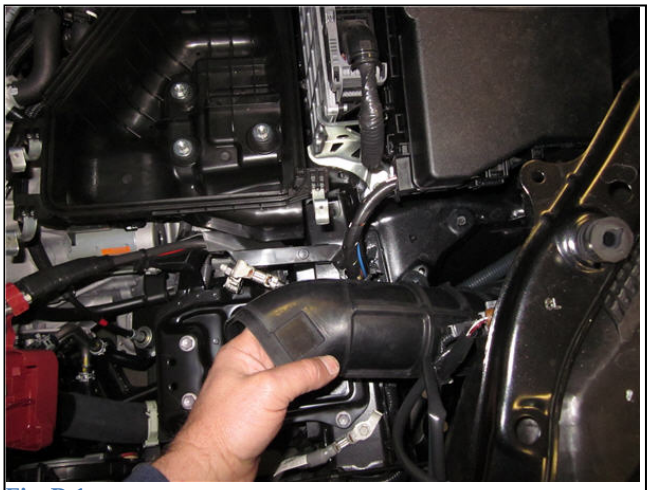

Fig. D 1

2. Rotate the TRD air box inlet tube and route it underneath the wiring harness between the fuse box and battery. (Fig. D 2)
   i. The TRD logo should be facing up

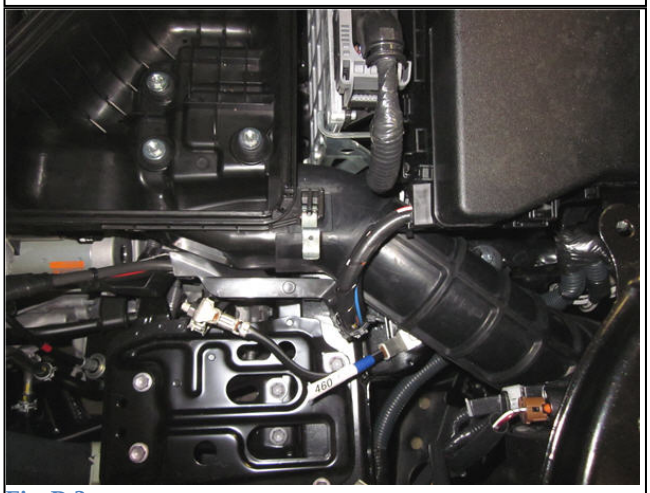

Fig. D 2

3. Engage the TRD air box inlet tube with the OEM lower air box as shown. (Fig. D 3)

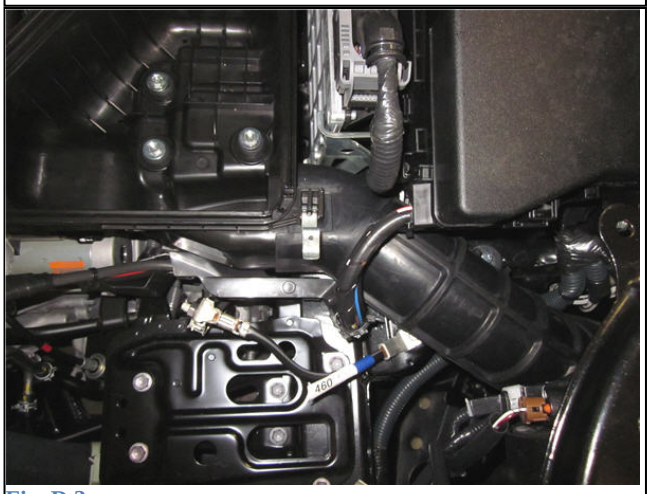

Fig. D 3

4. Secure the TRD inlet hose with the M6 bolt and large washer provided. (Fig. D 4)

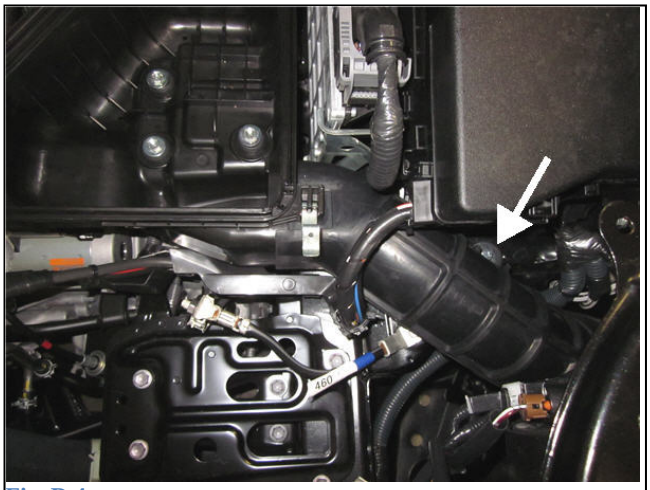

Fig. D 4

5. Install the TRD air filter. (Fig. D 5) Service part number PTR43-00084.

Fig. D 5

6. Install the TRD coupler with hose clip on the throttle body using the #44 hose clamp at the throttle body and the #48 at the inlet tube..
   i. Route the VSV line through the wire restrainer on the coupler as shown. (Fig. D 6).
   ii. Make sure that the coupler is all the way down on the throttle body

Fig. D 6

7. Secure the coupler to the throttle body by tightening the #44 hose clamp. (Fig. D 7)

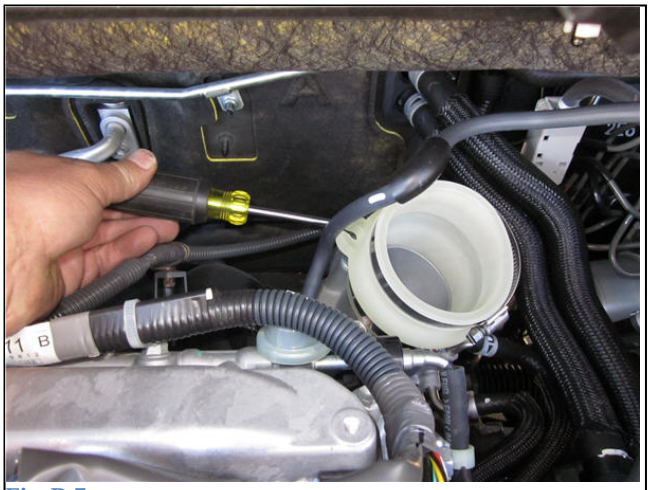

Fig. D 7

8. Install the supplied grommet into the TRD inlet tube as shown. (Fig. D 8)

Fig. D 8

9. Install the TRD inlet tube as shown. (Fig. D 9)
   i. Leave the # 48 hose clamp loose for now

Fig. D 9

10. Insert the VSV bracket into the grommet installed in step D-8. (Fig. D 10)

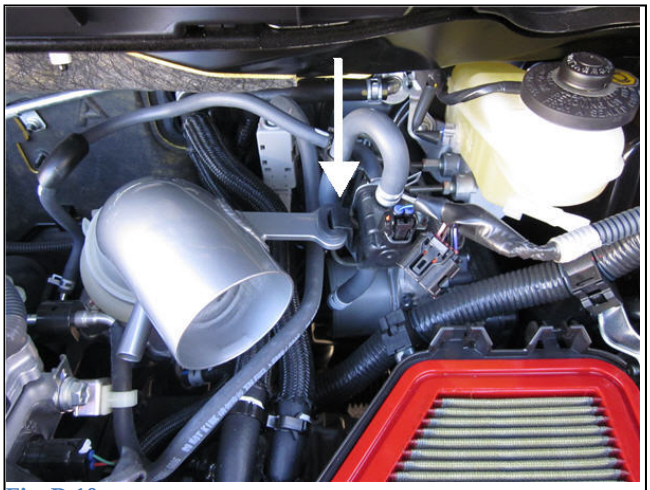

Fig. D 10

11. Install the second TRD coupler with the two remaining # 48 clamps. (Fig. D 11)
    i. Leave the clamps loose for now

Fig. D 11

12. Install the OEM MAF sensor using the two screws removed in step C-7. (Fig. D 12)

Fig. D 12

13. Install the TRD upper air box as shown. (Fig. D 13)
    i. Insert the neck of the air box into the coupler.
    ii. Guide the rear mounts of the upper air box, into the catches on the OEM lower air box
    iii. Lower the front of the upper air box down into place).

Fig. D 13

14. Secure the TRD upper air box with the three OEM air box clips. (Fig. D 14)
    i. Make sure that the upper air box is properly seated on the filter

Fig. D 14

15. Plug in the MAF sensor. (Fig. D 15)

Fig. D 15

16. Secure the MAF sensor wiring to the air box using one of the supplied tree mount tie straps (Fig. D 16)

Fig. D 16

17. Install the crankcase vent hose onto the nipple as shown, using clip removed in c 12. (Fig. D 17)
    i. Make sure that the nipple is inserted at least 0.75in into the hose.
    ii. Tighten all hose clamps.

Fig. D 17

18. Reinstall the engine cover removed from step C-12. (Fig. D 18)

Fig. D 18

19. Reinstall the battery removed from step C-2. (Fig. D 19).
    i. Install battery brace
    ii. Install positive terminal
    iii. Install negative terminal
    iv. Tighten all bolts to 36 in. lbf. ± 4 in. lbf. (4.0Nm ± 0.4 Nm).

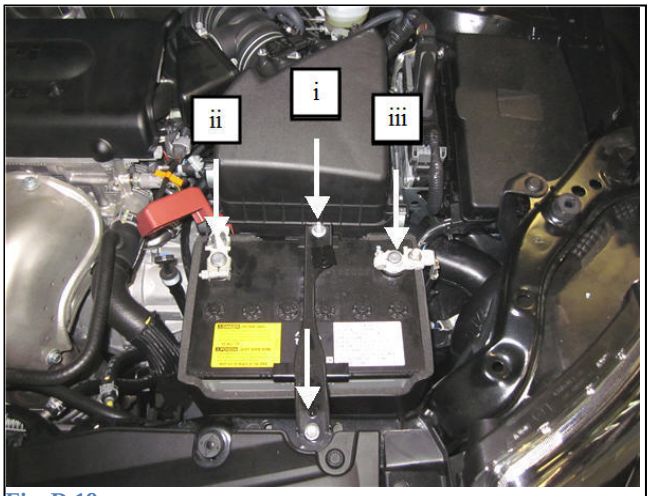

Fig. D 19

20. Do a final check over, and ensure that all hoses and wires are secure. (Fig. D 20)
21. **Installer** – The instruction manual contains important **"Care and Maintenance"** information. Place the entire instruction manual in the glove box for the owner's future reference.

Fig. D 20

Section III – Care and Maintenance

E. Caring For The Finish On Your TRD Cold Air Intake.

- TRD Intake Systems have a natural finish on the couplers and air filter housing.
- The TRD intake tube has a powder coated finish.
- To clean your TRD intake system, simply spray with window cleaner and wipe with a soft, clean terry-cloth towel.
- NEVER use harsh chemicals or metal polish on TRD intake systems. Harsh chemicals and metal polishes will permanently damage the finish.

Fig. E 1

	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.	o Full engagement of MAF sensor connector. o Tightness of all clamps. o Correctly installed valve cover breather hose. o Over-oiled air filter.
☐	Over-oiled Air Filter	o Clean the air filter as indicated in the TRD Filter Cleaning Kit and apply the proper amount of oil. o Replacement (non-warrantable) of the MAF sensor may be required.
	Vehicle Function Checks	
☐	Start the vehicle	
☐	If the lamp will not go off even after checking and/or repairing any of the above.	o Contact your Toyota dealer as soon as possible.