Part Number(s): PTR03-21101

Kit Contents		
Item #	Quantity Reqd.	Description
1	1	TRD Inlet Tube
2	1	TRD Upper Air Box with HC Trap
3	2	Hump Hose Coupler
4	1	TRD Air Box Inlet Tube
5	1	TRD Air Filter (P/N: PTR43-00084)
6	1	Crankcase Vent Hose
Hardware Bag Contents		
Item #	Quantity Reqd.	Description
7	4	#48 Hose Clamp
8	1	Bolt, M6 X 1.0 X 25mm
9	1	Washer, M6 Fender
10	2	Nylon Tie Strap, Tree Mount
11	1	Grommet
12	1	Hose Clamp, 1-1/16”
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	¼” drive
¼” drive ratchet	
¼” drive extension	6” long
Phillips head screwdriver	#3
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:** 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

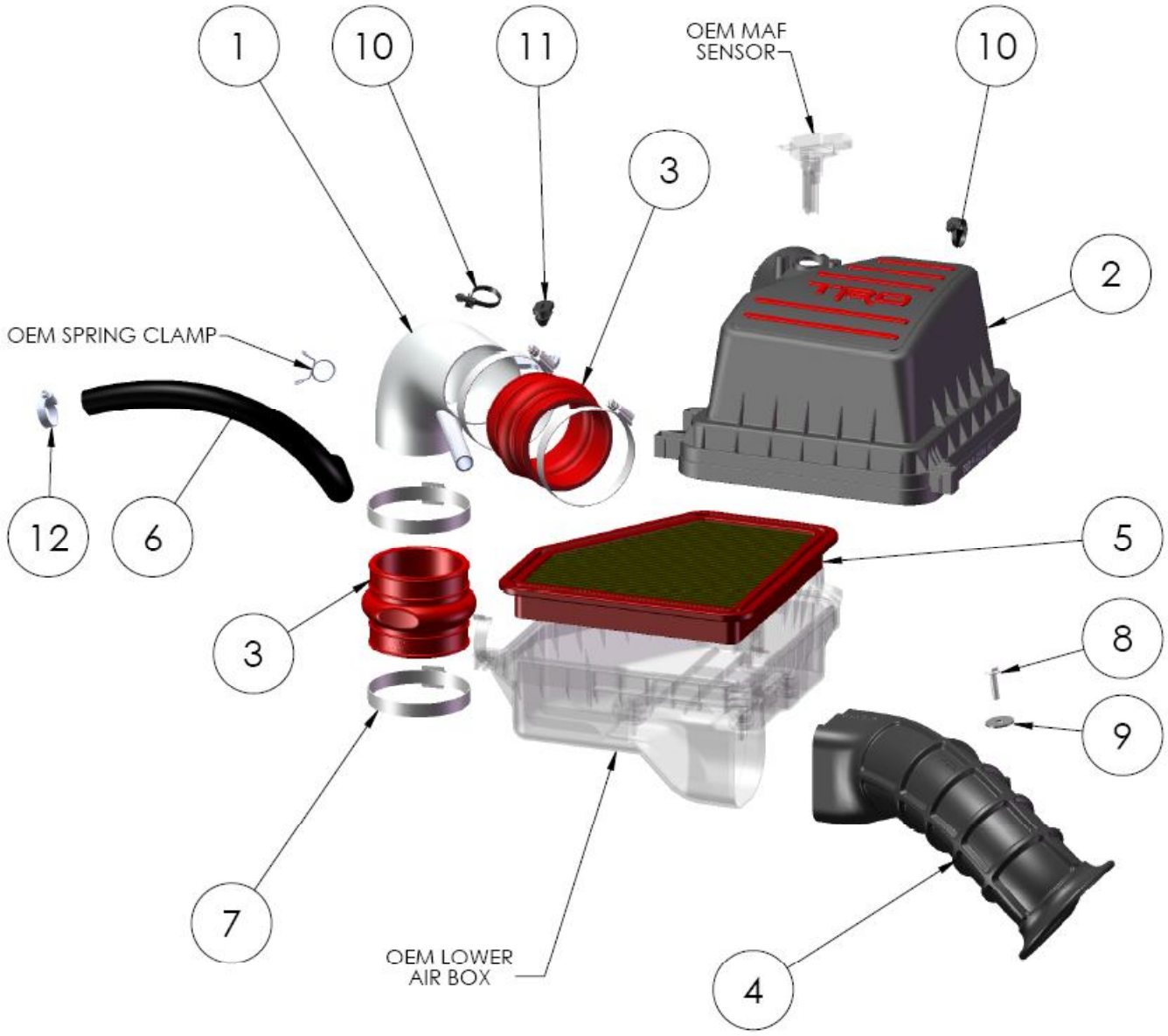
1
10
11
OEM MAF SENSOR
10
3
2
OEM SPRING CLAMP
12
6
5
3
8
9
7
OEM LOWER AIR BOX
4

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. Remove negative battery cable from terminal.
5. Prior to installation, make sure all parts of the Cold Air Intake are clean and free of debris.
   i. Blow out the inside of the tube and air box with compressed air.

C. Remove Factory Components

1. Remove M6 bolt securing the OEM air box inlet tube to the inner fender apron. (Fig. C 1)
2. Remove OEM air box inlet tube. (Fig. C 2)
3. Unplug MAF sensor and unclip the wiring harness from the OEM air box lid. (Fig. C 3)

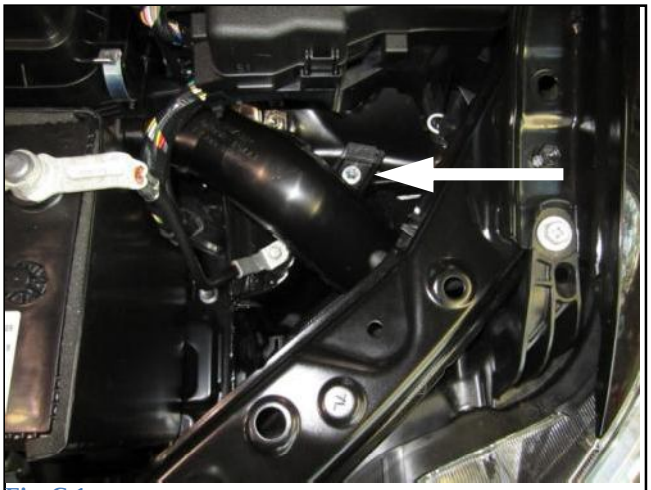

Fig. C 1

Fig. C 2

Fig. C 3

4. Loosen the hose clamp at the neck of the air box. (Fig. C 4)

Fig. C 4

5. Remove the MAF sensor from the OEM air box by removing the two screws. (Fig. C 5)

Fig. C 5

6. Remove the MAF sensor and set it aside for later use. (Fig. C 6)

Fig. C 6

7. Unclip the two air box clips. (Fig. C 7)

Fig. C 7

8. Lift and remove the OEM upper air box. (Fig. C 8)

Fig. C 8

9. Remove the OEM air filter. (Fig. C 9)

Fig. C 9

10. Disconnect the crank case vent hose from the valve cover, and remove the OEM spring clamp. (Fig. C 10)
    i. Set the OEM spring clamp aside for later use.

Fig. C 10

11. Remove the VSV from the OEM inlet hose by pulling it up and out of the rubber mount. (Fig. C 11)
    i. Unclip the vacuum hose form the rubber inlet hose near the throttle body.

Fig. C 11

12. 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 12)
    i. Remove the OEM inlet hose.

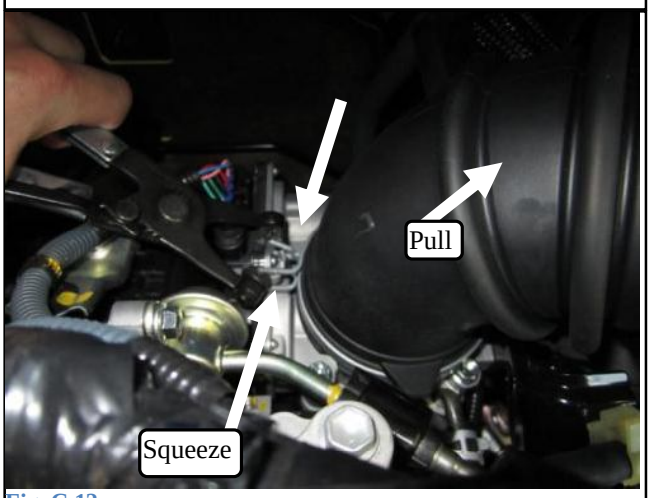

Fig. C 12

13. Remove the 3 M6 bolts securing the OEM lower air box. (Fig. C 13)
    i. Leave the lower air box in place, and loose for now.

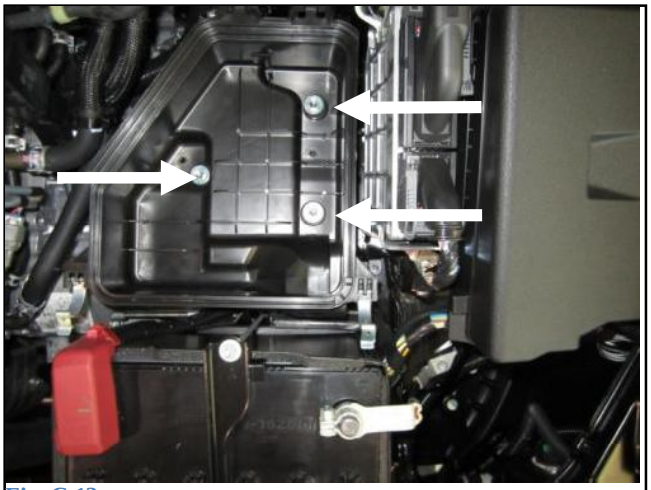

Fig. C 13

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)
   i. Secure the OEM lower air box with the three M6 bolts removed in step C-13.

Fig. D 3

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

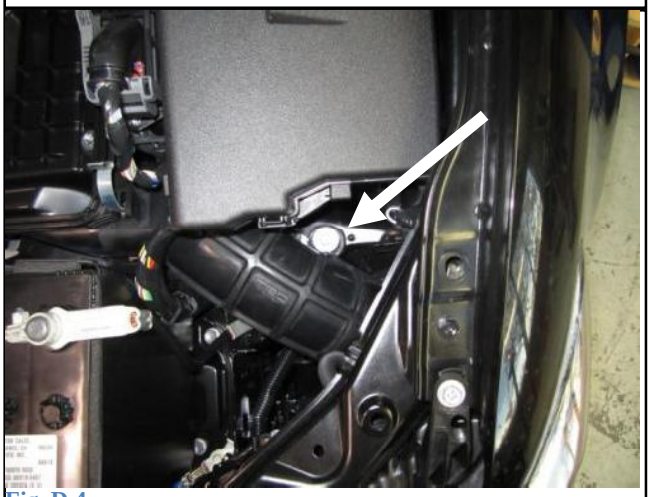

Fig. D 4

5. Install the TRD air filter. (Fig. D 5)

Fig. D 5

6. Install one of the TRD couplers on the throttle body using two of the supplied hose clamps.
   i. Line up the clearance cut-out in the coupler, with the fuel line fitting as shown. (Fig. D 6)
   ii. Make sure that the coupler is all the way down on the throttle body.

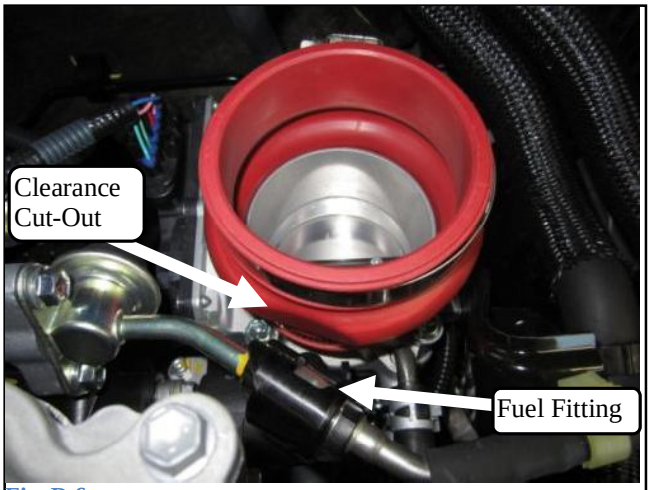

Fig. D 6

7. Secure the coupler to the throttle body by tightening the 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 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 clamps. (Fig. D 11)
    i. Leave the clamps loose for now.

Fig. D 11

12. Line up the clearance cut-out in the TRD coupler with the crank case vent nipple as shown. (Fig. D 12)

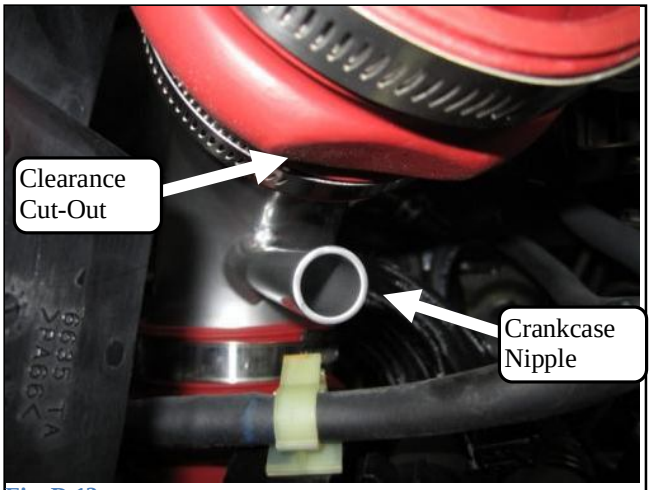

Fig. D 12

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.

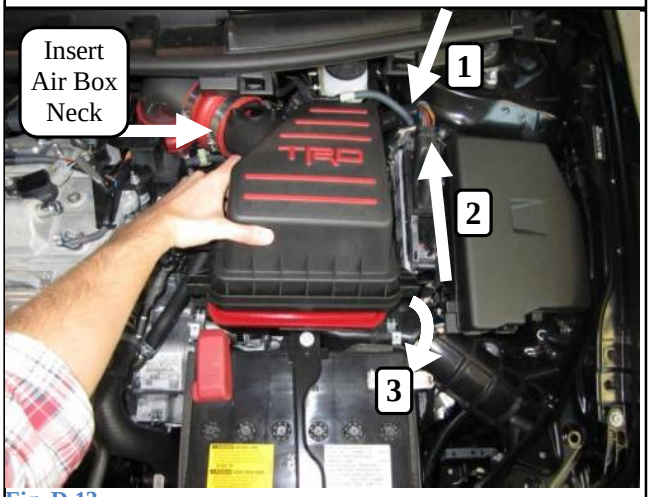

Fig. D 13

14. Secure the TRD upper air box with the two 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. Install the OEM MAF sensor using the two screws removed in step C-5. (Fig. D 15)

Fig. D 15

16. Unwrap electrical tape from the wiring harness to provide extra slack in the MAF sensor wires. (Fig. D 16)


Fig. D 16

17. Plug in the MAF sensor. (Fig. D 17)

Fig. D 17

18. Secure the MAF sensor wiring to the air box using one of the supplied tree mount tie straps. (Fig. D 18)

Fig. D 18

19. Secure the vacuum hose to the inlet tube bracket using the remaining tree mount tie strap. (Fig. D 19)


Fig. D 19

20. Install the OEM spring clamp onto the supplied crankcase vent hose as shown. (Fig. D 20)

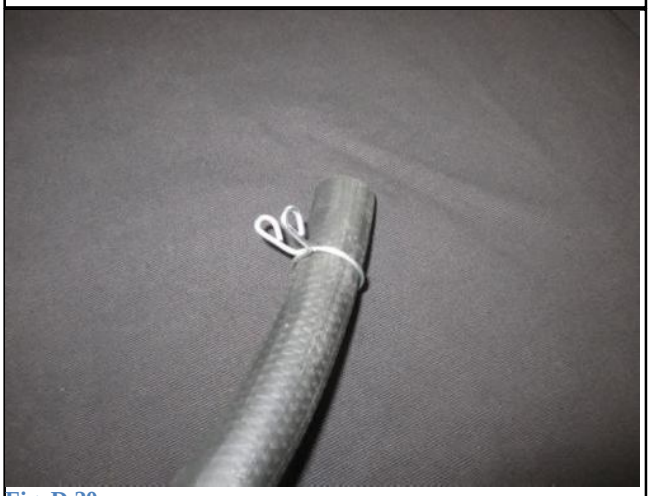
Fig. D 20

21. Install the crankcase vent hose onto the nipple as shown. (Fig. D 21)
    i. Make sure that the nipple is inserted at least 0.75in into the hose.

Fig. D 21

22. Attach the crank case vent hose to the nipple on the valve cover with the provided hose clamp. (Fig. D 22)
    i. Tighten the hose clamp.

Fig. D 22

23. Check for clearance between the crankcase vent hose, nipple, pipe, and couplers. (Fig. D 23)
    i. Readjust inlet tube positioning if necessary.
    ii. When proper fit is achieved, tighten all clamps.

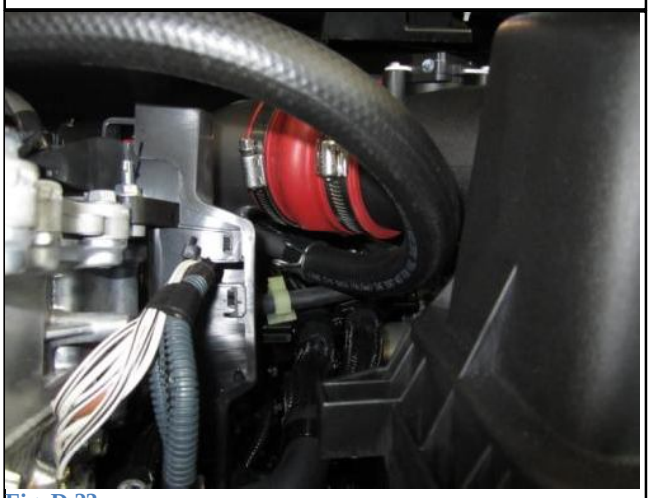

Fig. D 23

24. Do a final check over, and ensure that all hoses and wires are secure. (Fig. D 24)
25. Re-install the negative battery cable to the negative terminal. Tighten nut to 36 in. lbf. ± 4 in. lbf. (4.0Nm ± 0.4 Nm)
26. **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 24

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.