

Part Number: PTR03-12160

Kit Contents

Item #	Quantity Reqd.	Description
1	1	TRD Upper Air Box
2	1	TRD Air Filter
	1	Coupler Kit
3	2	#44 Hose Clamp
4	1	Coupler
5	1	Wire Tie

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1		

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1		

Conflicts

Recommended Tools

Personal & Vehicle Protection	Notes
Blankets or Fender Covers	
Special Tools	Notes
Installation Tools	Notes
Nut Driver or Socket	8mm or 5/16"
Socket	10mm
Ratchet	
Extension	
Side Cutters	Flush Cut
Torque Wrench	0-120 in.-lbf (0-15 N·m)
Screwdriver	#3 Phillips
Special Chemicals	Notes

General Applicability

All iM models with 1.4L I4 engine

Recommended Sequence of Application

Item #	Accessory
1	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	1	TRD Upper Air Box PTR03-12160-AB
2	1	TRD Air Filter, PTR43-00072
3	1	Coupler Kit, PTR03-12160-AC

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.

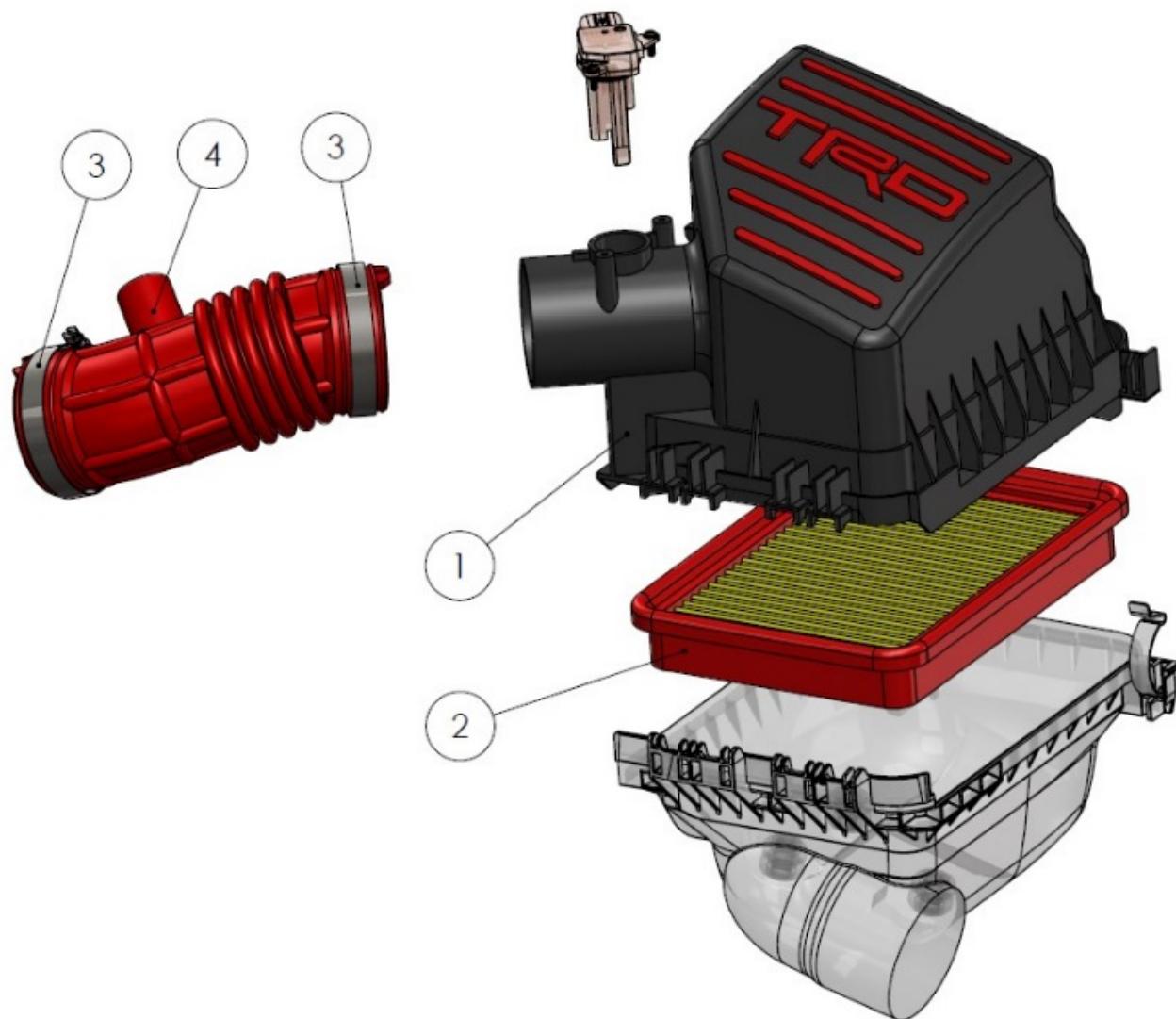
 **SAFETY TORQUE:** This mark indicates that torque is related to safety.

Emissions Compliance Information:

A new process has been implemented. The Emissions Label is no longer included in the Performance Air Intake Kits.

**If your state requires an Emissions Compliance Label, one may be ordered through your dealer or the Toyota Materials Distribution Center (MDC)
310-468-9800 or MDC@toyota.com**

This TRD Performance Air Intake Kit has received 50-State Emissions Compliance via the California Air Resources Board (CARB). Not all states require the Emissions Compliance Label but TRD does recommend ordering one. To receive the proper Emissions Compliance Label for this TRD Performance Air Intake Kit, please order MDC part number **00602-50003**. Proof of ownership may be required.



Procedure

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.

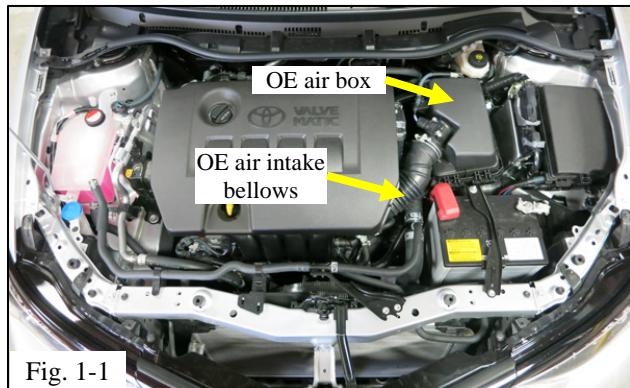
These guidelines can be found in the "Accessory Installation Practices" document.

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.

1. Prepare the Vehicle and Parts.



(a) Check the kit for contents and damage.

(b) Open the hood and identify the following parts (Fig. 1-1):

(1) OE air box.

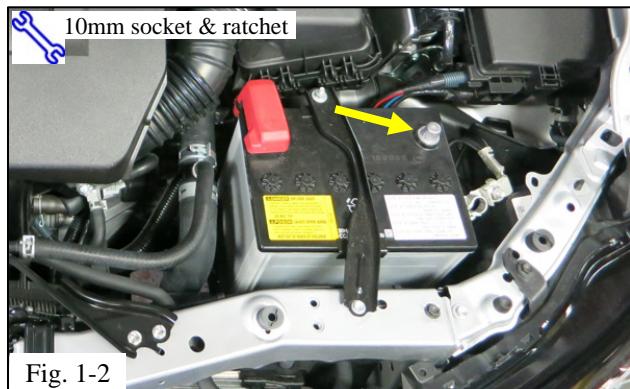
(2) OE air intake bellows.

 (c) Apply vehicle protection to prevent damage to painted surfaces.

(d) Make sure all parts of the Performance Air Intake kit are clean and free of debris when they are removed from the packaging.

 **NOTE:** Blow out the inside of the coupler and air box with compressed air.

 (e) Loosen the M6 bolt securing the negative terminal to the battery and remove the terminal (Fig. 1-2).



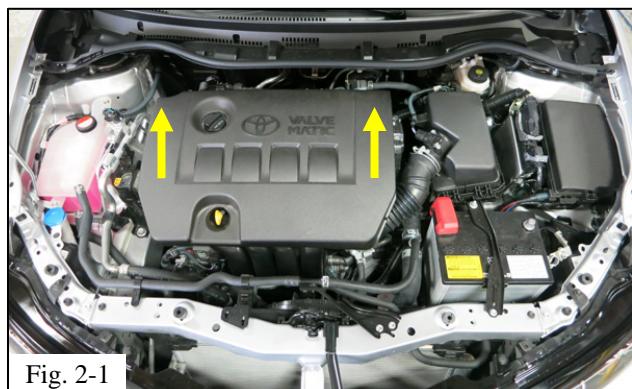


Fig. 2-1

2. Remove the Factory Components.

(a) Lift (pull) straight up to remove the engine cover (Fig. 2-1).

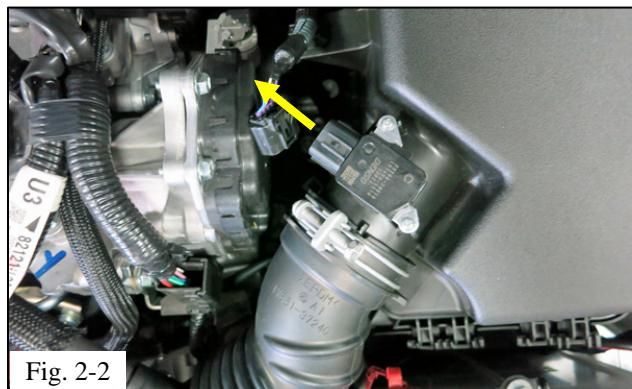


Fig. 2-2

(b) Unplug the mass airflow sensor and unclip the sensor wiring harness from the air box lid (Fig. 2-2).

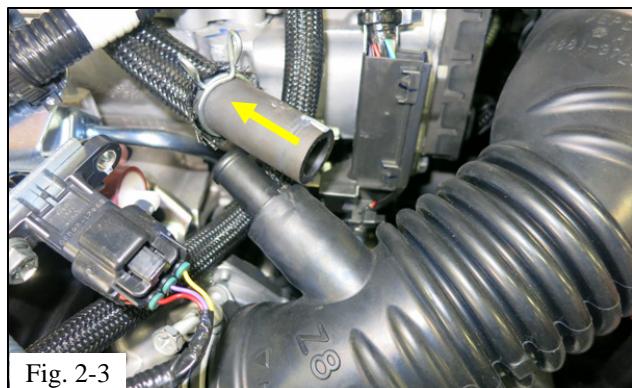


Fig. 2-3

(c) Disconnect the crankcase vent hose from the air intake bellows (Fig. 2-3).

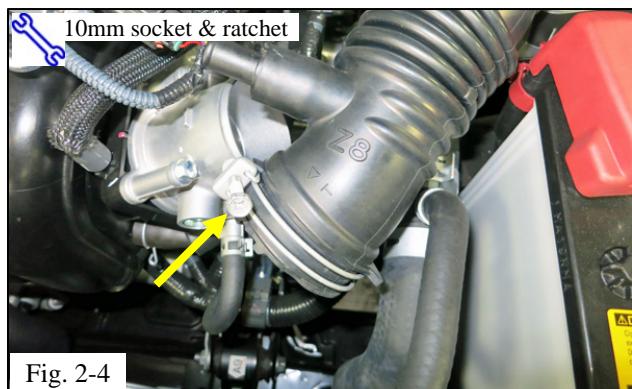


Fig. 2-4

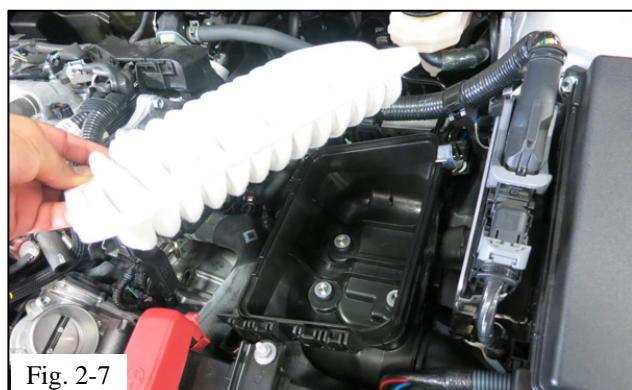
(d) Loosen the hose clamp at the throttle body (Fig. 2-4).



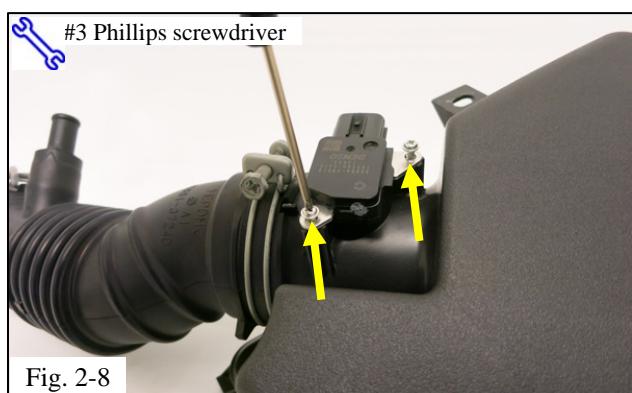
(e) Unclip the two air box clips (Fig. 2-5).



(f) Lift and remove the upper air box and coupler as an assembly (Fig. 2-6).



(g) Remove the OE air filter (Fig. 2-7).



(h) On a workbench, remove the two screws and remove the mass airflow sensor from the OE air box (Fig. 2-8). Keep the screws and sensor for reuse.

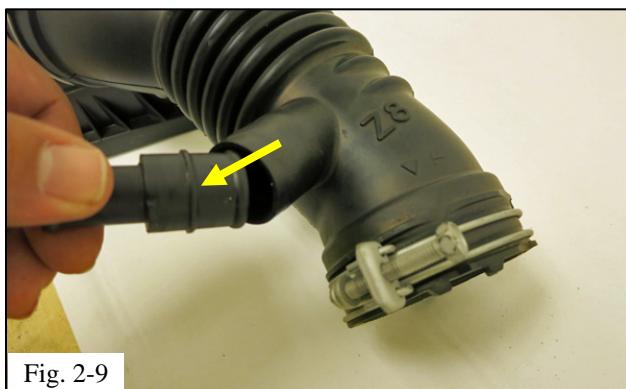


Fig. 2-9

- (i) On a workbench, remove the plastic PCV connector barb from the OE coupler (Fig. 2-9). Keep the PCV connector for reuse.

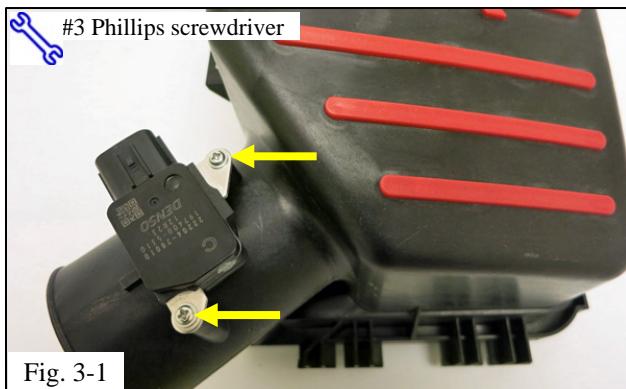


Fig. 3-1

3. Install the TRD Air Intake.

- (a) On a workbench, install the mass airflow sensor into the TRD air box (Fig. 3-1).
- (b) Use the two screws removed in Step 2(h) to secure the sensor (See Fig. 2-8).
- (c) On a workbench, install the OE plastic PCV connector barb into the TRD coupler (Fig. 3-2).
- (d) On a workbench, install the two hose clamps loosely as shown; do not tighten them at this time (Fig. 3-3).



Fig. 3-2

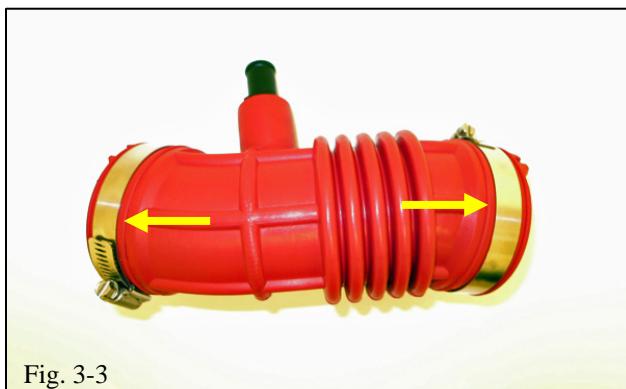
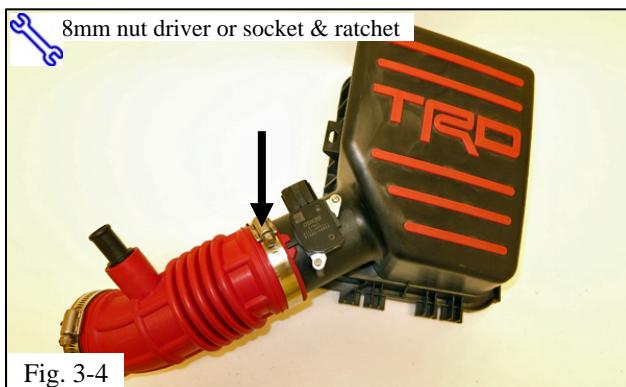
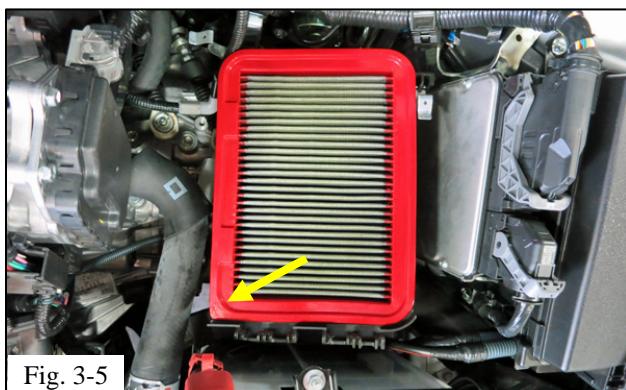


Fig. 3-3



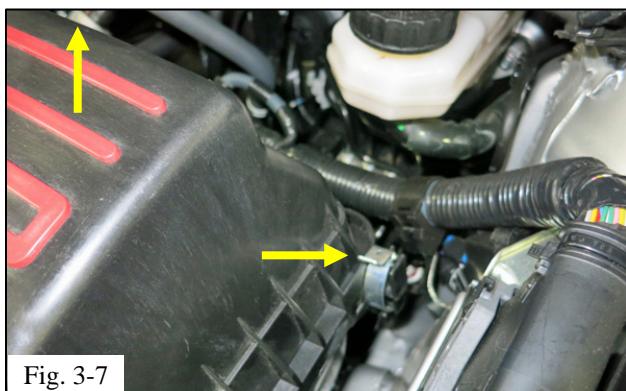
(e) On a workbench, connect the coupler to the air box neck; do not tighten it at this time (Fig. 3-4).



(f) Install the TRD air filter. For proper orientation, match the square corner of the air filter to the corresponding corner of the OE lower air box (Fig. 3-5).



(g) Install the TRD coupler loosely on the throttle body and align the upper air box tabs to the lower air box slots (Fig. 3-6).

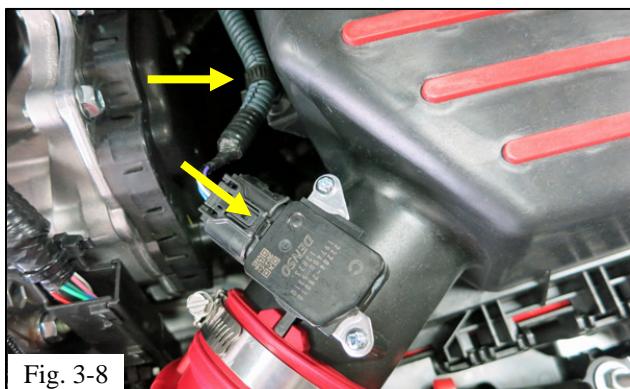


(h) Install the TRD air box top (Fig. 3-7).

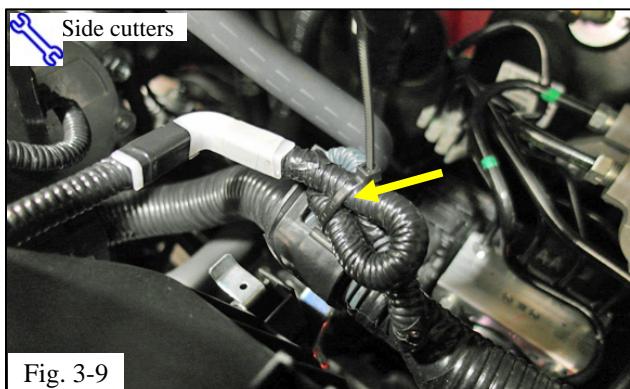
⚠ (1) Guide the rear mounts of the air box top into the catches on the OE lower air box.

(2) Lower the front of the air box.

⚠ (3) Make sure that the upper air box is properly seated on the air filter and secure the upper air box with the two air box clips.

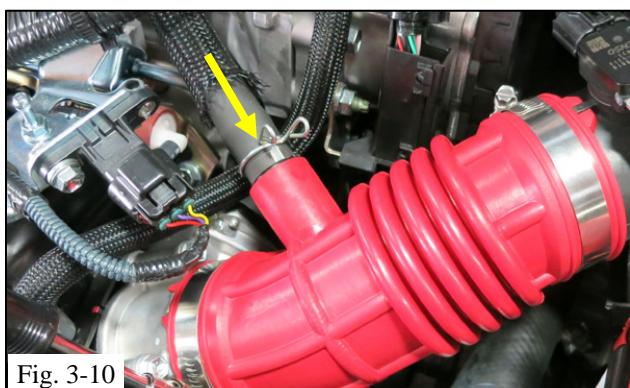


- (i) Plug in the mass airflow sensor connector and secure the wire harness to the air box (Fig. 3-8).

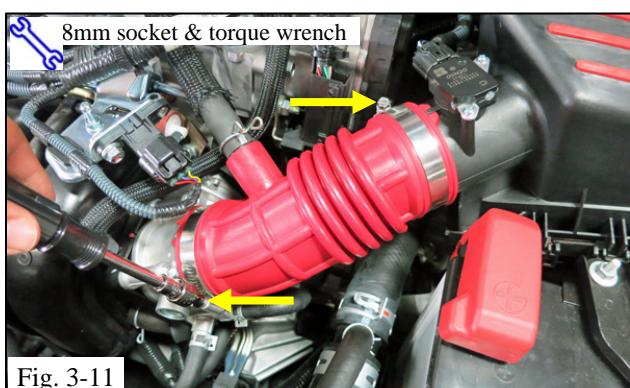


- (j) Secure the excess slack of the mass airflow sensor wire harness with the provided wire tie (Fig. 3-9).

⚠ NOTE: Trim the end of wire tie smoothly. Ensure the cut end of the wire tie does not contact any nearby wire harnesses or hoses.



- (k) Reconnect the crankcase vent hose and secure it with the original clip (Fig. 3-10).



- (l) Tighten the coupler hose clamps at the throttle body and air box (Fig. 3-11).

Torque: 3.4 N·m (30 in-lbf)



(m) Align the engine cover grommets above the mounting pins and push down to install the engine cover (Fig. 3-12).

(n) Do a final check to ensure all of the wires and hoses are secure.

(o) Reconnect the negative battery cable to the negative battery terminal (Fig. 3-13).

Torque: 5.4 N·m (48 in-lbf)

(p) Start the vehicle and verify the check engine lamp is not illuminated.

4. Care and Maintenance.

- TRD Intake Systems have a natural finish on the couplers and air filter housing.
- To clean your TRD intake system, simply spray it 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.
- It is recommended that the TRD air filter be serviced every 50,000 miles with TRD Filter Service Cleaning Kit, part number PTR43-00088 for optimum performance.

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

Check:	Look For:
<u>Accessory Function Checks</u> <input type="checkbox"/> Proper filter oil amount	The unit is pre-oiled for initial use – do not add any before first use. After cleaning, be sure to apply per the instructions in the cleaning kit. Failure to do so (over-oiling) may damage the mass airflow sensor and require replacement.
<u>Vehicle Function Checks</u> <input type="checkbox"/> Malfunction Indicator Lamp (MIL) on after starting the engine or while driving	Full engagement of the mass airflow sensor connector All clamps are tight Valve cover breather hose is installed correctly Air filter is over-oiled
<u>Vehicle Appearance Check</u> <input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)