

**Part Number: PTR03-34070 (5.7L)
PTR03-34072 (4.7L)**

Kit Contents: 5.7L

Item #	Quantity Req'd.	Description
1	1	Lid: Air Filter
2	1	Inlet Pipe: 5.7L
3	1	Air Filter: TRD Conical
4	1	Intake Flow Accelerator
5	1	Hardware Bag: 5.7L

Hardware Bag Contents: 5.7L

Item #	Quantity Req'd.	Description
1	1	Hose: Hump, 3.25"/3.5"
2	1	Hose: Hump, 4.0"/3.5"
3	1	Hose Clamp: #52
4	2	Hose Clamp: #56
5	1	Hose Clamp: #60
6	1	Gauge: Air Filter Restriction
7	1	Grommet: Restriction Gauge
8	1	Label: Emissions Compliance
9	1	Installation Instructions
10	1	Template: Engine Cover

Kit Contents: 4.7L

Item #	Quantity Req'd.	Description
1	1	Lid: Air Filter
2	1	Inlet Pipe: 4.7L
3	1	Air Filter: TRD Conical
4	1	Intake Flow Accelerator
5	1	Hardware Bag: 4.7L

Hardware Bag Contents: 4.7L

Item #	Quantity Req'd.	Description
1	1	Hose: Hump, 100 Deg. Elbow
2	1	Hose: Hump, 4.0"/3.5"
3	3	Hose Clamp: #56
4	1	Hose Clamp: #60
5	1	Vacuum Hose: 5/32" x 14"
6	1	Gauge: Air Filter Restriction
7	1	Grommet: Restriction Gauge
8	1	Label: Emissions Compliance
9	1	Installation Instructions

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1	.75" W x 24" L	Clear Tape (Optional for 5.7L)
2		

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description
1		
2		

General Applicability

Toyota Tundra V8 (4.7L & 5.7L), 2007 →
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NOTE: Part number of this accessory may not be the same as the part number shown.

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Blankets or Fender Covers	
Safety Glasses	
Special Tools	Notes
Pencil	or Marking Pen
Clip Remover	
6" Steel Ruler	or Tape Measure
Electric Hand Held Jigsaw	Optional for 5.7L Install
Hose Cutter	5.7L Install Only
Installation Tools	Notes
8mm Socket	¼" Drive
10mm Socket	¼" drive
10" Long Extension	¼" Drive
Ratchet	¼" Drive
8mm Nut Driver	
10mm Combination Wrench	
Clip Remover	MAF Sensor Wire Harness
Small Screwdriver	or Nylon Pry Tool
Torque Wrench	¼" Drive
Phillips Screwdriver	#2
Utility Knife	5.7L Install Only
Scissors	5.7L Install Only
Special Chemicals	Notes
Silicone Spray	
Soap & Water Solution	

Recommended Sequence of Application

Item #	Accessory
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.



1. Check Box Contents

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

2. Vehicle Preparation

- (a) Open vehicle hood.
- (b) Use blankets or covers to protect the front grille and passenger-side front fender area.

Note: For 5.7L installation proceed to next step. For 4.7L installation proceed to step #4

3. Removal Procedure: 5.7L V8 OE Air Inlet System

- (a) Raise the front of the engine cover to detach the 2 pins (Fig. 3-1).
- (b) Remove the 2 engine cover hooks from the bracket, and remove the cover (Fig. 3-1).

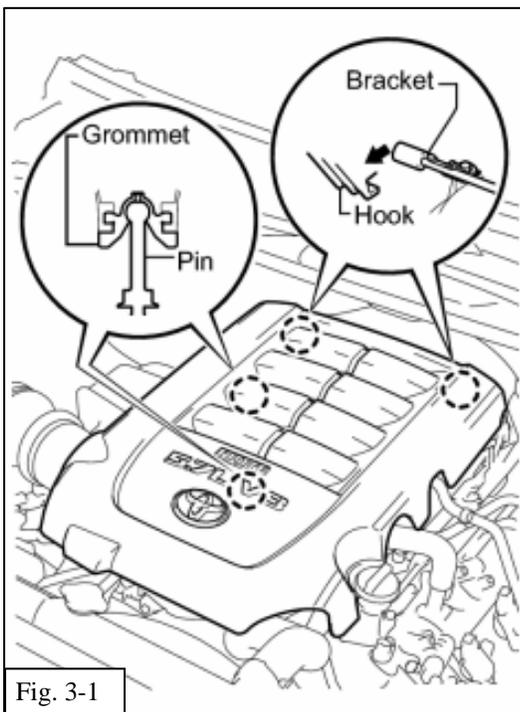


Fig. 3-1

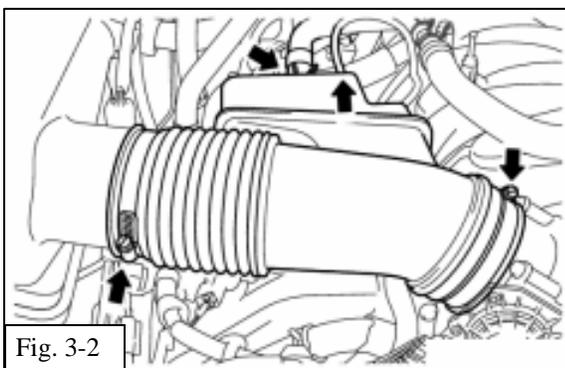
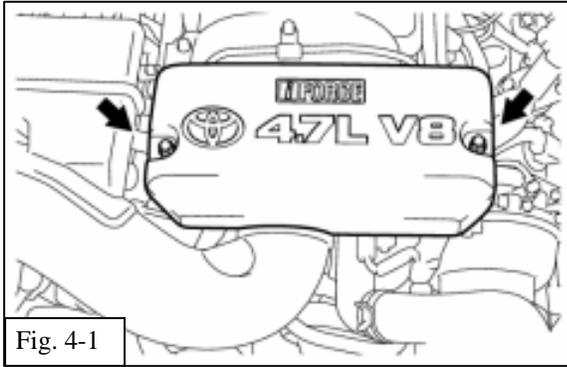


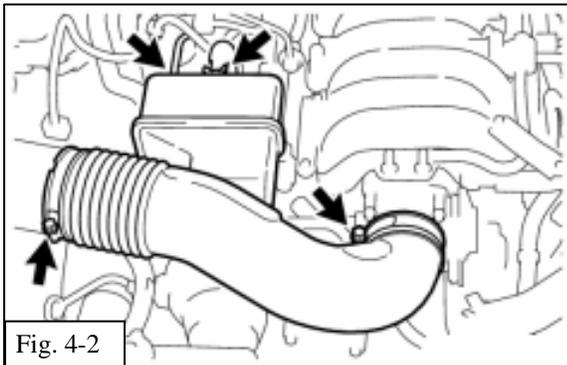
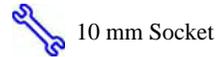
Fig. 3-2

- (c) Disconnect the vacuum hose and ventilation hose (Fig. 3-2).
- (d) Loosen the two 10 mm hose clamps and remove the air cleaner hose (Fig. 3-2).

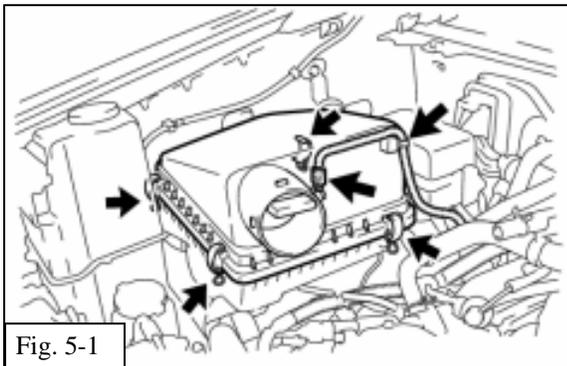
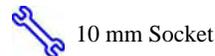


4. Removal Procedure: 4.7L V8 OE Air Inlet System

- (a) Remove the two 10 mm cap nuts and throttle body cover (Fig. 4-1).

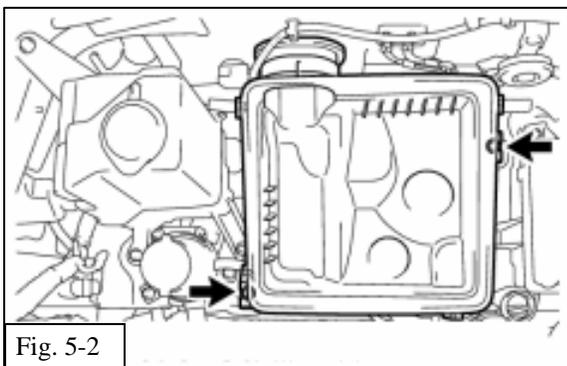


- (b) Remove air cleaner hose assembly.
 - (1) Disconnect the vacuum hose and No. 2 ventilation hose (Fig. 4-2).
 - (2) Loosen the two 10 mm hose clamps and remove the air cleaner hose (Fig. 4-2).

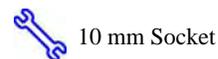


5. Removal Procedure: 5.7L and 4.7L V8 OE Air Inlet System

- (a) Remove the air cleaner lid.
 - (1) Disconnect the MAF sensor connector (Fig. 5-1).
 - (2)  Using a clip remover, detach the wire harness clamp (Fig. 5-1).
 - (3) Unfasten the 4 hook clamps and then remove the air cleaner lid (Fig. 5-1).



- (b) Remove OE air filter and save.
- (c) Remove the two 10 mm bolts and air cleaner case (Fig. 5-2).



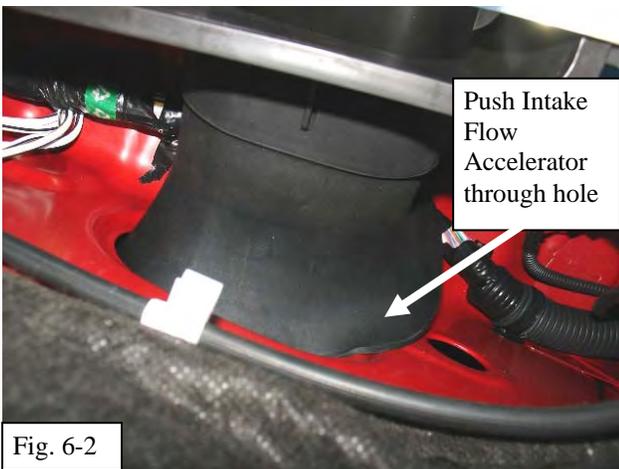


- (d) Remove OE air inlet duct from air cleaner case.
- (1) Use a small screwdriver or nylon pry tool to raise the area around the locating tab and remove inlet duct (Fig. 5-3).

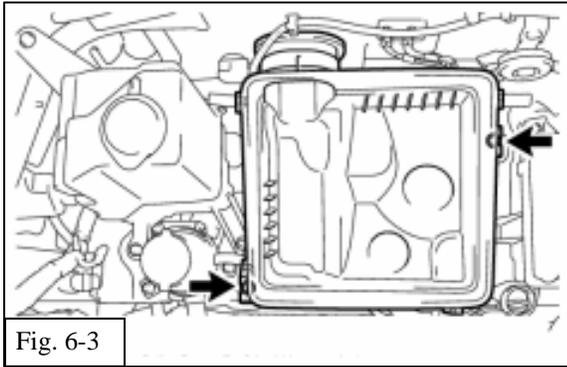


6. Installation Procedure: TRD Cold Air Intake System: 5.7L & 4.7L V8

- (a) Install TRD Intake Flow Accelerator onto air cleaner case (Fig. 6-1).



- (b) Insert TRD Intake Flow Accelerator still attached to OE air cleaner case into the OE cut-out in the engine bay (Fig. 6-2).
- (1) Use finger pressure to push pliable TRD Intake Flow Accelerator through OE cut-out.



(c) Move the air cleaner case back into OE mounting position (Fig. 6-3).

(1) Tighten two 10mm bolts. Torque: 5.0 N·m (51 kgf·cm, 44 in·lbf)



CAUTION: Do not use an air or electrical powered tool to tighten the 10mm bolts. TORQUE BOLTS ONLY USING A TORQUE WRENCH.



(d) Remove rubber gasket from OE air filter (Fig 6-4).



(e) Install OE rubber gasket onto TRD conical air filter base (Fig. 6-5).

(1) Start OE gasket install by locating the four corners first on the rectangular base.

(2) Press remaining flat sides onto base.

Note: OE gasket does not have a top or bottom side.



Fig. 6-6

- (f) Install TRD air filter into air cleaner case (Fig. 6-6).



Fig. 6-7

- (g) Install air filter restriction gauge rubber grommet into TRD air cleaner lid (Fig. 6-7).
 - (1) Use a solution of 4 drops Joy liquid dishwashing soap (or similar product) mixed with one cup water to lubricate grommet before installation.

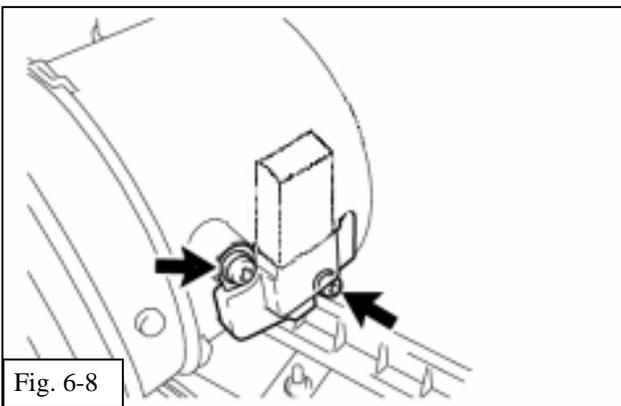
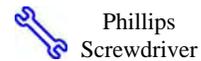


Fig. 6-8

- (h) Remove the 2 screws and the MAF sensor from OE air cleaner lid (Fig. 6-8).



Phillips
Screwdriver

- (i) Install the MAF sensor into the TRD air cleaner lid (Fig. 6-8).
 - (1) Tighten 2 screws. Torque: 1.7 N•m (17 kgf•cm, 15 in•lbf)

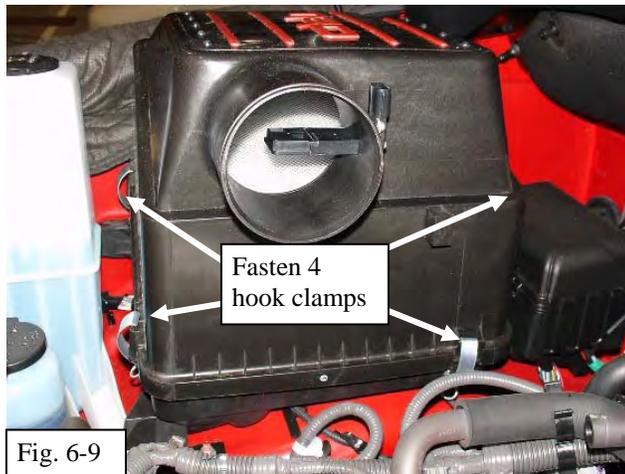


Fig. 6-9

- (j) Install TRD air filter lid (Fig. 6-9).
 - (1) Fasten the 4 hook clamps.



Fig. 6-10

- (k) Install the TRD air filter restriction gauge.
 - (1) Lubricate the rubber grommet with the soap solution used in Step g.
 - (2) Push gauge through rubber grommet until base of gauge contacts grommet (Fig. 6-10).

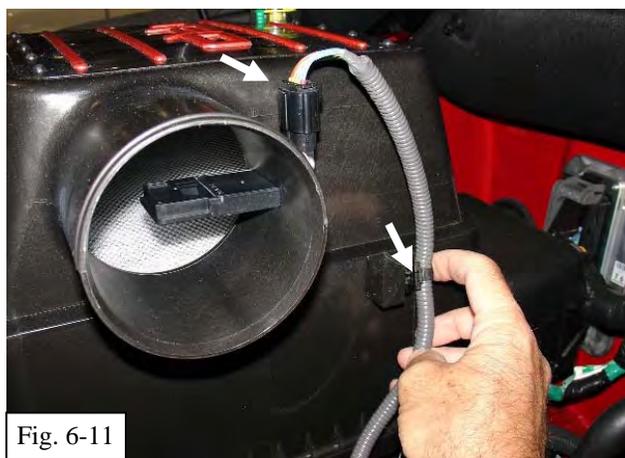
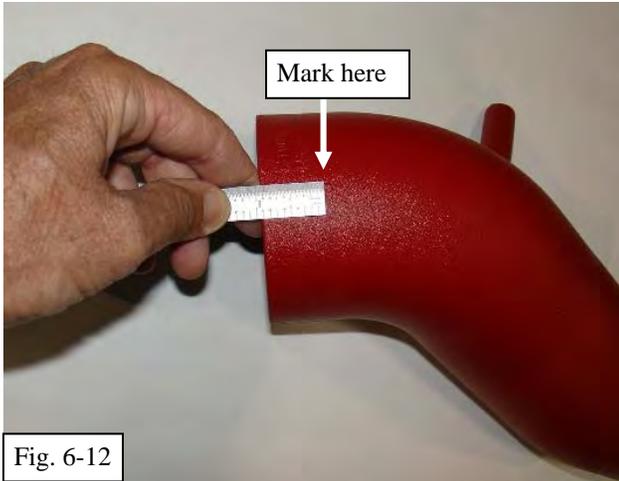


Fig. 6-11

- (l) Reconnect the MAF sensor connector to MAF sensor (Fig. 6-11).
 - (1) Attach the wire harness clamp.

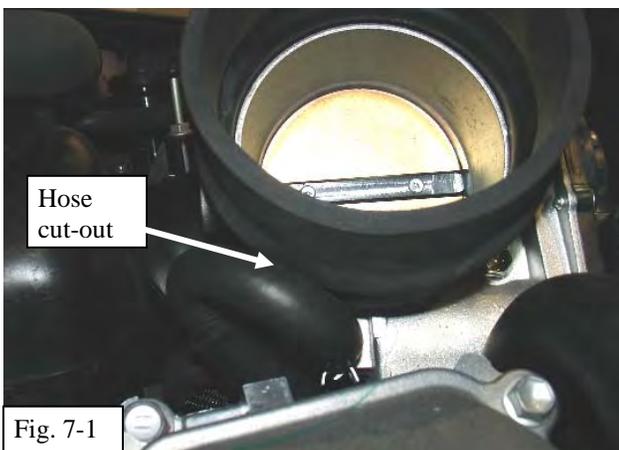


(m) Use a pencil or marking pen and a 6-inch steel ruler or tape measure to mark a line about 7/8-inch (22mm) from the end of the inlet pipe (Fig. 6-12).



(n) Install supplied 4.0" / 3.5" hump hose on inlet pipe (Fig. 6-13).

- (1) Position hose so that it touches the mark on the pipe done in Step m.
- (2) Install #56 hose clamp and clock as shown (Fig. 6-13).
- (3) Torque clamp: 3.4 N·m (35 kgf·cm, 30 in·lbf)



7. Installation Procedure: 5.7L V8 TRD Cold Air Intake System

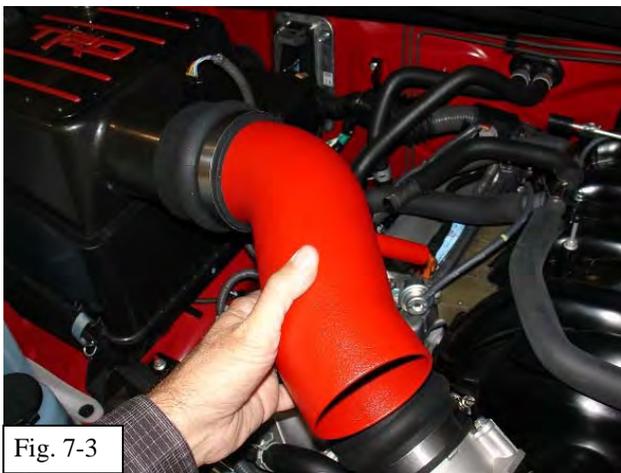
Note: Skip to Step 8 on page 12 for 4.7L V8 installation.

(a) Install the supplied hump hose onto OE Throttle Body (T/B).

- (1) Install small side of hose (3.25") onto T/B (Fig. 7-1).
- (2) ⚠ Clock hose so that cut-out in hump clears small OE coolant hose to T/B (Fig. 7-1).

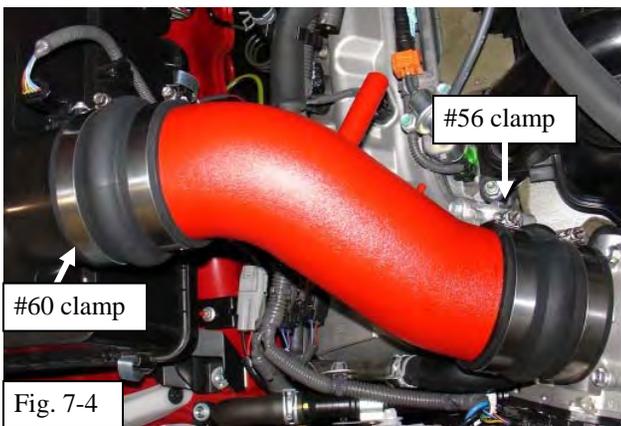


- (3) Install #52 hose clamp to secure hose to T/B (Fig. 7-2). Clock clamp as shown and Torque: 3.4 N·m (35 kgf·cm, 30 in·lbf)



- (b) Use silicone spray to lubricate the inside of both hump hoses to ease installation of the 5.7L inlet pipe.
- (c) Install the 5.7L inlet pipe (Fig. 7-3).

- (1) Slide hump hose on air filter lid outlet first (Fig. 7-3).
- (2) Next insert 5.7L inlet pipe into hump hose on OE throttle body.



- (3) Install #56 hose clamp on throttle body side of inlet pipe (Fig. 7-4).
- (4) Install #60 hose clamp on air filter lid outlet (Fig. 7-4).

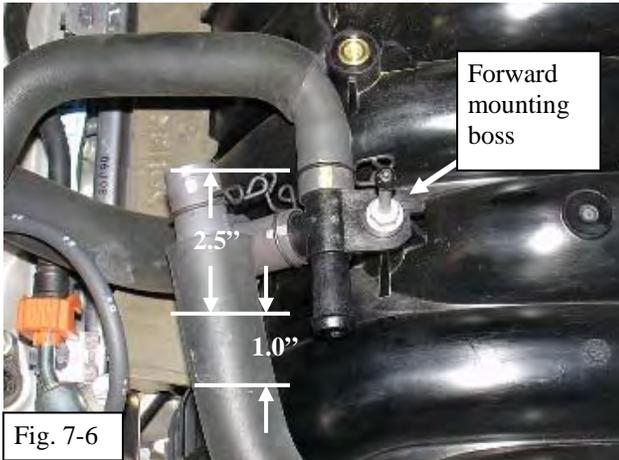
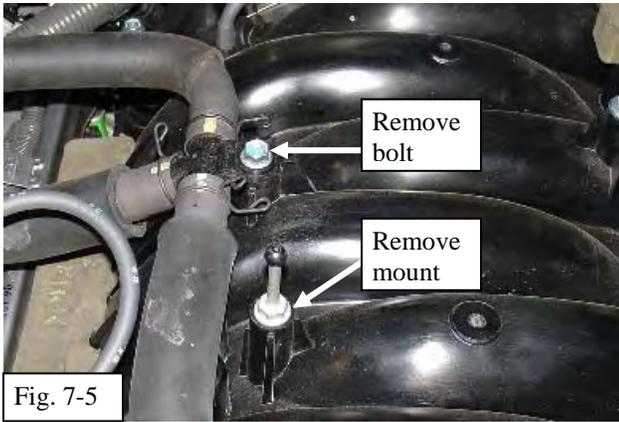


- (5) Clock all hose clamps as shown and torque: 3.4 N·m (35 kgf·cm, 30 in·lbf)

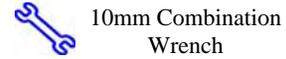


CAUTION: Do not use an air or electrical powered tool to tighten the 8mm hose clamps.

TORQUE 8MM HOSE CLAMPS ONLY USING A TORQUE WRENCH.

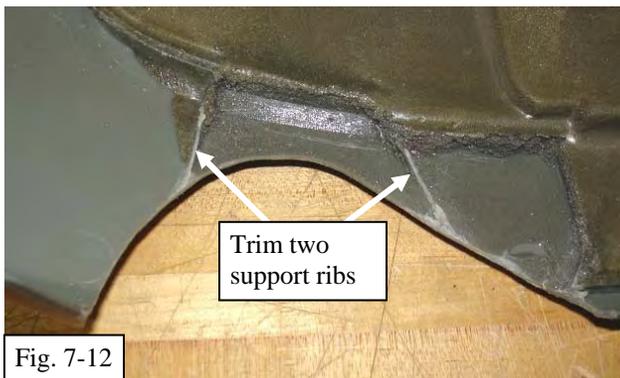
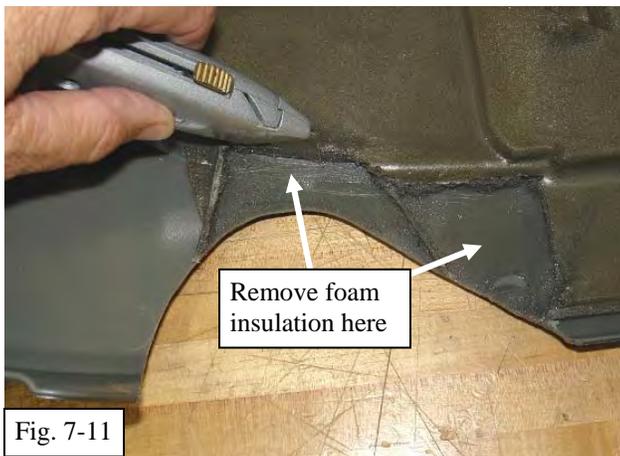
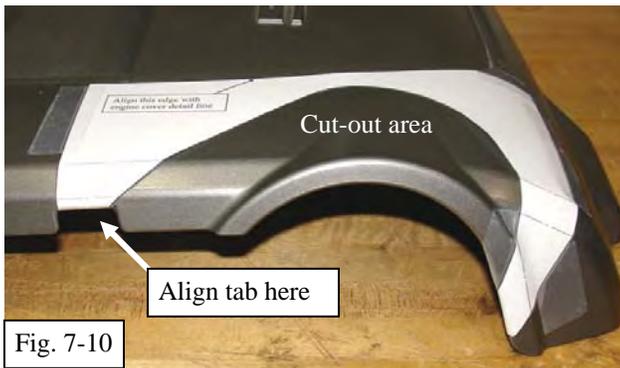


- (d) Remove ventilation hose bracket from OE intake manifold (Fig. 7-5).
 - (1) Remove 10mm bolt (Fig. 7-5).
- (e) Remove 10mm engine cover mount and save for reuse (Fig. 7-5).



- (f) Re-mount ventilation hose bracket to forward OE manifold boss using 10mm engine cover mount (Fig. 7-6).
 - (1) Tighten engine cover mount. Torque: 10.0 N·m (102 kgf·cm, 7 ft·lbf)
- (g) Measure and cut 2.50" (63.5mm) from driver side ventilation hose (Fig. 7-6).
- (h) Trim 1.0" (25.4mm) from foam hose covering to allow room for OE spring clamp (Fig. 7-6).
- (i) Reconnect driver side ventilation hose to OE Tee using OE spring clamp (Fig. 7-7).
 - (1) Clock OE spring clamp as shown (Fig. 7-7).

- (j) Connect vacuum hose and ventilation hose to inlet pipe (Fig. 7-8).
 - (1) Reuse OE spring clamp to secure ventilation hose (Fig. 7-8).



(k) If the OE engine cover is to be used, then proceed with the next steps. If the cover will not be used, then proceed to Step 9: Emissions Certification Label Installation.

(l) Use scissors to cut out the supplied 5.7L engine cover trim template.

(m) Tape engine cover template to engine cover.

(1) Align template edge with engine cover detail line on 5.7L engine cover as shown (Fig. 7-9).

(2) Align tab on left side of template into relief area of engine cover. Fold template along dashed fold lines as shown (Fig. 7-10).

+ (n) Use a hand held jigsaw, stationary bandsaw or rotary air tool to cut out the engine cover area along the template (Fig. 7-10).

+ (o) Use a utility knife or similar tool to remove the foam insulation from the bottom side of engine cover as shown (Fig. 7-11).

+ (p) Trim two support ribs on bottom of engine cover as shown (Fig. 7-12).

+ (q) Use a rotary air or electric tool to deburr any sharp edges left from Step n (Fig. 7-12).

(r) Reinstall engine cover.

(1) Re-engage the 2 engine cover hooks to the rear bracket (Fig. 3-1)

(2) Lower the front of the engine cover to engage the 2 pins (Fig. 3-1).



Fig. 8-1



Fig. 8-2



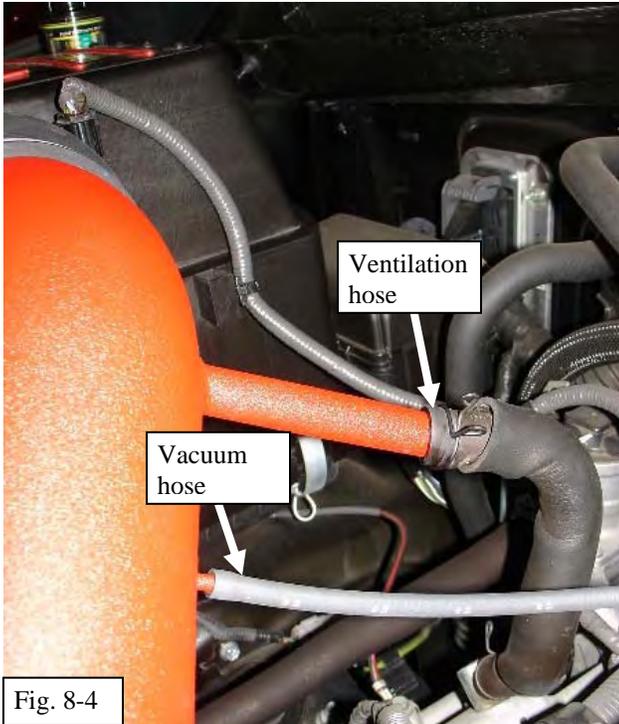
Fig. 8-3

8. Installation Procedure: 4.7L V8 TRD Cold Air Intake System

- (a) Use a pencil or marking pen and a 6-inch steel ruler or tape measure to mark a line about 7/8-inch (22mm) from the end of the inlet pipe (Fig. 8-1).
- (b) Install supplied 100 Deg. elbow hump hose on inlet pipe (Fig. 8-2).
 - (1) Use silicone spray to lubricate the inside of the hump hose to ease installation onto the 4.7L inlet pipe.
 - (2) Position hose so that it touches the mark on the pipe done in Step a.
 - (3) Install two #56 hose clamps and clock as shown (Fig. 8-2).
 - (4) Leave both #56 clamps slightly loose at this time.
- (c) Install pipe and hose assembly to TRD air filter lid and OE throttle body (Fig. 8-3).
 - (1) Use silicone spray to lubricate the inside of the 4.0" hump hose to ease installation onto the TRD air filter lid.
 - (2) Slide #60 hose clamp over 4.0" side of hump hose.
 - (3) Slide 4.0" hump hose end of pipe assembly over air filter lid outlet and connect 100 Deg. Elbow hump hose to throttle body as shown (Fig. 8-3).
 - (4) Clock pipe assembly as shown between air filter lid and throttle body (Fig. 8-3).
 -  (5) Tighten hose clamps. Torque: 3.4 N·m (35 kgf·cm, 30 in·lbf)

TORQUE 8MM HOSE CLAMPS ONLY USING A TORQUE WRENCH.

CAUTION: Do not use an air or electrical powered tool to tighten the 8mm hose clamps.



- (d) Connect vacuum hose and ventilation hose (Fig. 8-4).
 - (1) Reconnect ventilation hose as shown, reuse OE spring clamp to secure hose (Fig. 8-4).
 - (2) Use supplied 14" long vacuum hose to connect pipe nipple on inlet pipe to OE fuel pressure regulator (Fig. 8-4).
- (e) Re-install the throttle body cover (Fig 4-1).
 - (1) Secure throttle body cover using the two OE 10 mm cap nuts (Fig. 4-1).
 - (2) Torque cap nuts: 7.5 N·m (76 kgf·cm, 66 in·lbf)



**9. Installation Procedure 4.7L & 5.7L:
Emissions Certification Label**

- (a) Apply emissions certification label.
 - (1) Find location under the vehicle hood just above the OE hose routing label to mount emissions certification label (Fig. 9-1).
 - (2) Use soap and water solution or a commercially available cleaner to clean the paint surface before applying the label (Fig. 9-1).
 - (3) Remove adhesive backing and apply emissions certification label to previously cleaned area (Fig. 9-2).



10. Post Installation

- (a) Remove protective blankets or covers from front of vehicle.
- (b) Place entire installation instructions in vehicle glove box for customer's reference.

Air Filter Maintenance

Service Intervals: Your TRD Cold Air Intake System has an air filter restriction gauge that indicates when the air filter needs service. When the air filter restriction gauge yellow indicator reaches the service filter lettering, use TRD's filter cleaning system (Toyota p/n PTR05-00000-CL) to service filter and maintain optimum performance.

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.

How to read your air filter restriction gauge:



New Filter



Partially Dirty Filter
(Do Not Clean Now)



Service Filter Now



Push To Reset

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

Your TRD intake system has a red powdercoat finish on the inlet tube that ensures a maintenance free shine.

To clean your TRD inlet tube, rubber hoses and air filter lid , simply spray with window cleaner and wipe with a soft, clean terry-cloth towel.

NEVER use harsh chemicals on TRD intakes. Harsh chemicals will permanently damage the finish of your intake system.

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:
 -

- Smooth engine idle.
- Full engagement of MAF sensor connector.
- Tightness of all clamps.
- Correctly installed valve cover ventilation 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.