

Preparation

Part Number:

PTR03 – 34101 (5.7L(2009+)/ 4.6L(2010+), Mid W/B)

PTR03 – 34106 (5.7L(2009+)/ 4.6L(2010+), Mid W/B)

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

Kit Contents PTR03-34101 (Muffler)

Item #	Quantity Req'd.	Description
1	1	Center Muffler Assembly

Kit Contents PTR03-34106 (Tailpipe Kit)

Item #	Quantity Req'd.	Description
1	2	Tail Pipe Assembly
2	1	Hardware Bag
3	1	Heat Shield
4	1	Gasket Bag

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	1	Bracket Sub-Assembly
2	1	Nut
3	2	Bolt
4	1	Rubber Hanger

Gasket Bag Contents

Item #	Quantity Req'd.	Description
1	2	Gasket
2	6	M10 Nut
3	6	M10 Bolt

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		

Conflicts

Vehicles:
 All short wheel base vehicles are a conflict
 All long wheel base vehicles are a conflict
 All V6 Engine vehicles are a conflict

Recommended Tools

Personal & Vehicle Protection	Notes
None	
Special Tools	Notes
Rubber Hanger Removal Tool	Ex. Snap On P/N YA3202
Installation Tools	Notes
Ratchets	3/8 Drive
Sockets(3/8 Deep Drive)	10,12,13, 14 (mm)
3 inch Ratchet Extension	3/8 Drive
Torque Wrench	0-60 lbs-ft
Special Chemicals	Notes
Lubricant	Soap and Water,

General Applicability

Models with medium length-wheel base, and 4.6L or 5.7L V8 Engine


Recommended Sequence of Application


Item #	Accessory
1	Bumper/Bed Step Assist
2	TRD exhaust


Vehicle Service Parts (may be required for reassembly)


Item #	Quantity Req'd.	Description
1	2	90917-A6002 (for DIO ONLY) Exhaust gasket, front of muffler

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.

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.

The 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.

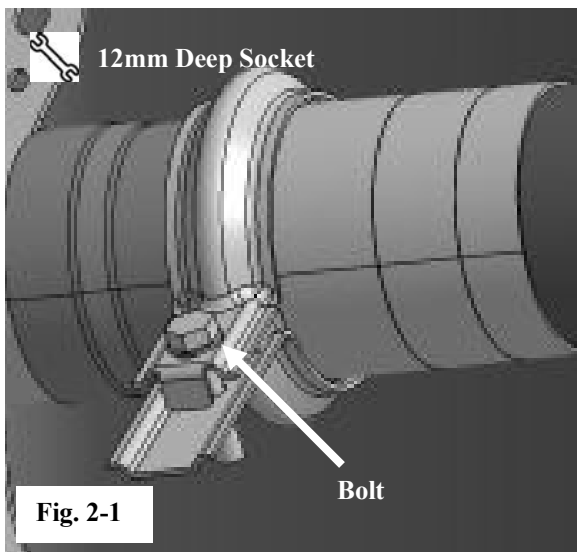


Fig. 2-1

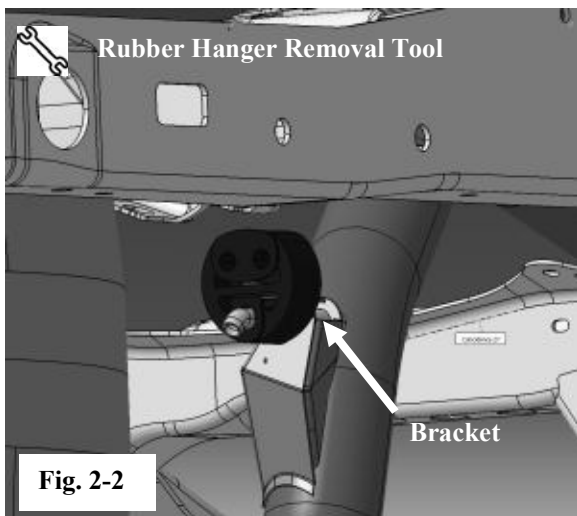




Fig. 2-2

1. Check the Kit Contents.

-  (a) Make sure that the kit contains all the parts listed in the kit contents.

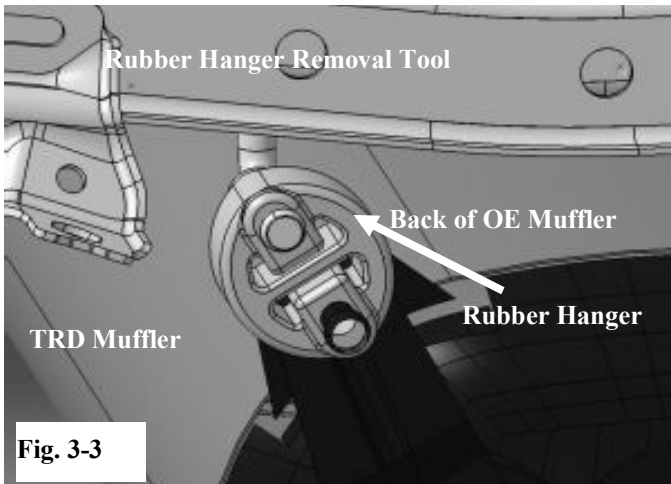
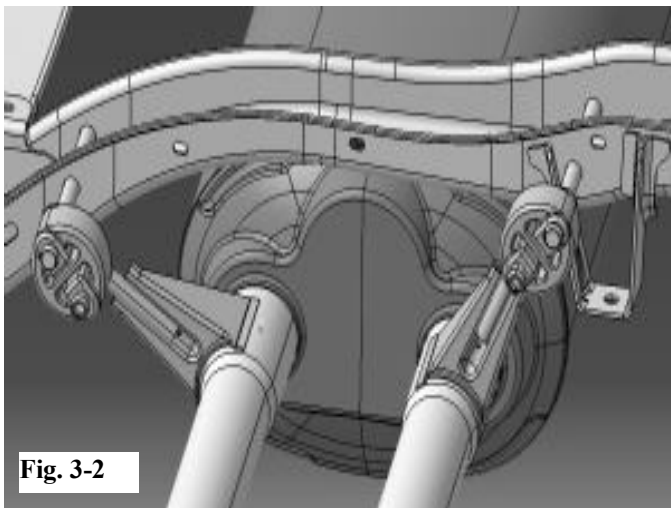
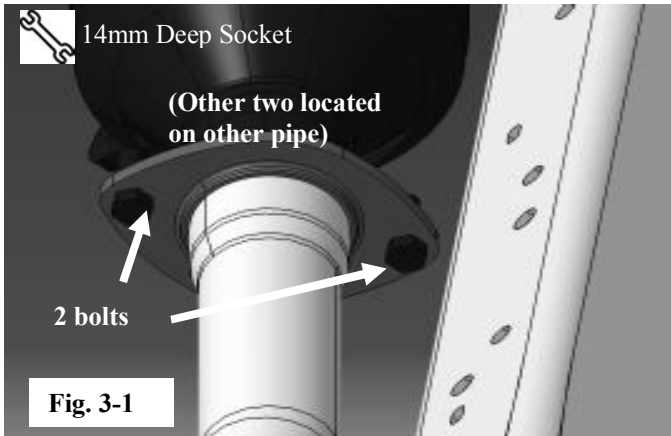
2. Remove Existing OE Tailpipe Assembly.

-  (a) Remove V-Band clamp bolt and clamp located in the rear of the Original Equipment (OE) muffler (12mm Deep Socket) (Fig. 2-1)


- (b) Pry passenger’s side tailpipe bracket loose from rubber hanger. (Fig. 2-2)


NOTE: Lubricating (ex. soap and water) the rubber exhaust hangers can facilitate the removal of rubber hangers.

- (c) Remove the OE tailpipe assembly from the vehicle.
- (d) Remove the gasket from the OE muffler rear outlet where the clamp connected the tailpipe.
- (e) Leave the OE rubber hanger that held the OE tailpipe on the vehicle rod hanger.

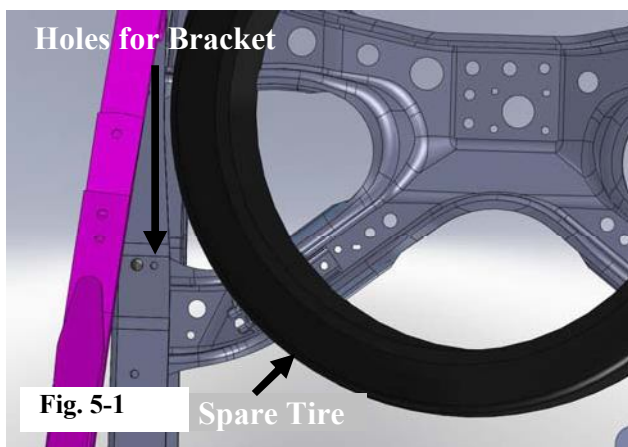
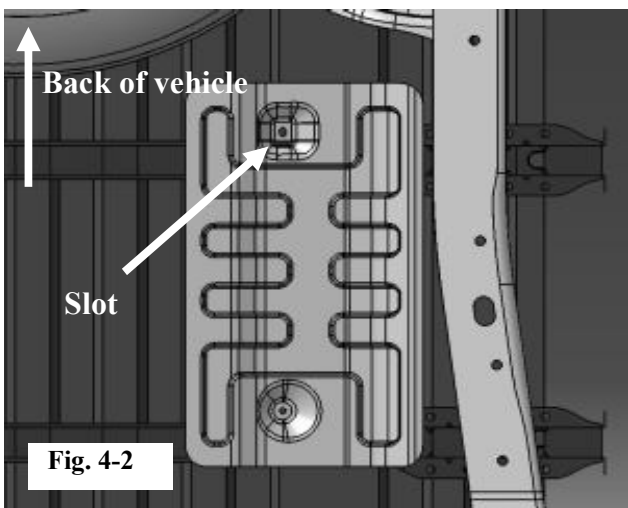
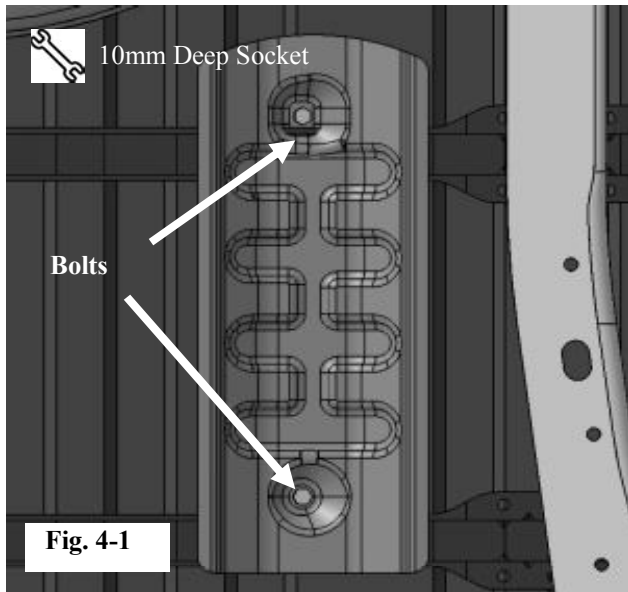


3. Remove Existing OE Center Muffler Assembly.


-  (a) Remove four (4) bolts from the two front flanges located between the catalytic converters and OE center muffler assembly front pipes. (14mm Deep Socket) (Fig. 3-1)

 **NOTE:** Keep all OE bolts and gaskets.

- (b) Pry both OE center muffler front assembly pipes loose from two (2) rubber hangers, located in front of muffler, and leave the rubber hangers in place. (Fig. 3-2)
- (c) Pry the rubber hanger located in the back of the muffler loose from the muffler's rear hanger rod. Also, remove the rubber hanger from the vehicle side hanger rod. (Fig. 3-3)
- (d) Remove the OE center muffler assembly.



4. Remove and Install Heat Shield.

-  (a) Locate the body side heat shield on the rear deck above the original tailpipe. Remove the two bolts holding the body side heat shield to the rear deck. (10mm deep socket with extension) (Fig. 4-1)

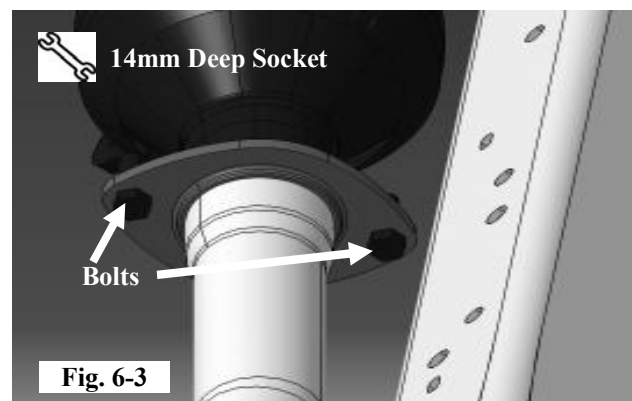
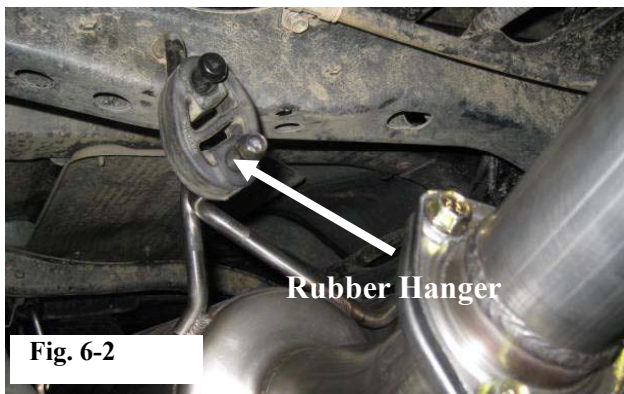
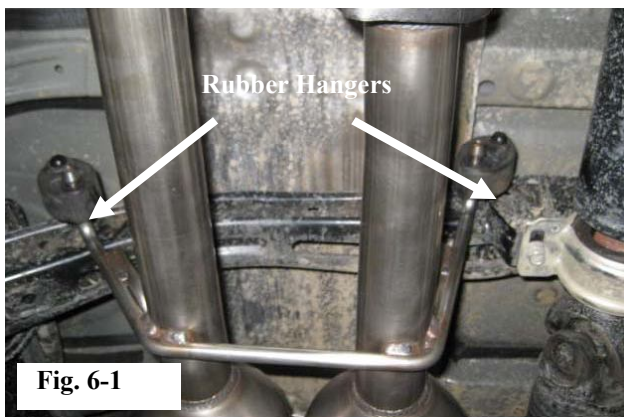
 **NOTE:** Keep both OE bolts.

- (b) Remove OE heat shield and replace with TRD heat shield using OE bolts to secure.
Torque: Min. 4.0 lbs-ft (5.5 N-m),
Max. 9.0 lbs-ft (12.5.0 N-m)
- (c) Ensure the slotted hole on the TRD heat shield for the bolt is located towards the back of the vehicle. (Fig. 4-2)

5. Install Bracket for LH Tailpipe.

- (a) Locate the hole on the rear driver side channel of the spare tire carrier and chassis rail. (Fig. 5-1)
- (b) Install bracket by locating the larger hole on the exhaust bracket to the rivet head while engaging the bracket slot onto the vehicle cross-member. Then insert the 8mm bolt supplied in the kit into smaller hole from above. (Fig. 5-2)

NOTE: Prior to installing the fastener, the bracket may not sit flush against the frame.



- (c) Install the M8 nut on the bolt. Make sure the hole and bolt are centered. Then tighten the nut to 26 ± 3 lbs-ft (35 ± 4 N-m) of torque. Confirm the bracket around the nut is flush to the frame rail. (Fig. 5-2)



NOTE: Access to the bolt to secure the bracket is from above the chassis rail

- (d) Install the new rubber hanger, supplied in the kit, on the hanger rod. (Fig. 5-2)

6. Install new TRD Center Muffler Assembly.

- (a) Attach the two hanger brackets of the TRD center muffler assembly front pipes to the existing rubber hangers and rods on the vehicle frame. (Fig. 6-1)
- (b) Attach the rubber hanger in the rear of the TRD center muffler assembly to the vehicle side hanger on the vehicle frame. (Fig. 6-2)
- (c) For port installations, verify the OE gaskets at the two front flanges, located between the catalytic converters and muffler front pipes, are in place before reconnecting the pipes.



Note: For DIO installations, these gaskets should be replaced with new parts. Part number is 90917-A6002.



- (d) Align the TRD center muffler assembly front pipes with the catalytic converters' rear pipes. Then reinstall the OE bolts on both flanges evenly, ensuring proper flange alignment. (Fig. 6-3)



NOTE: Verify the gap between flanges is even on both sides of the bolts.



- (e) Tighten the OE bolts to 35 ± 5 lbs-ft (48 ± 6 N-m) of torque. (14mm deep socket) (Fig. 6-3)



Fig. 7-1

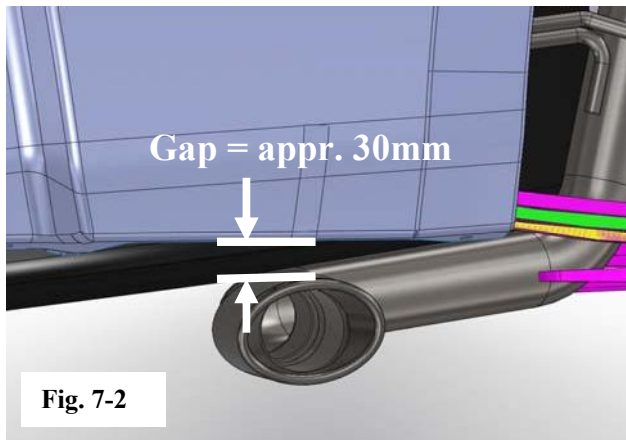


Fig. 7-2



Fig. 7-3

- (f) Install the two new gaskets, supplied in the kit, on the TRD center muffler assembly rear (outlet) pipes for tailpipe installation.

7. Install new TRD RH Tailpipe

- (a) Attach hanger rod of the TRD RH tailpipe assembly to the rubber hanger on the vehicle frame. (Fig. 7-1)



NOTE: Verify the gaskets have been installed on the outlet pipes of the TRD center muffler assembly.

- (b) Align the RH tailpipe with the RH outlet pipe on the muffler and install nuts and bolts. While tightening the bolts, set a gap of 30 ± 5 mm between the exhaust tip and the rear side panel (Fig. 7-2).

- (c) Tighten bolts evenly. Tighten to 35 ± 5 lb-ft (48 ± 6 N-m) of torque. (Fig. 7-3)



Fig. 8-1



Fig. 8-2

8. Install new TRD LH Tailpipe

- (a) Attach hanger rod of the TRD LH tailpipe assembly to the rubber hanger on the vehicle frame. (Fig. 8-1)



NOTE: Verify the gaskets have been installed on the outlet pipes on the TRD center muffler assembly.

- (b) Align the LH tailpipe with the LH outlet pipe on the muffler and install nuts and bolts. While tightening the bolts, set a gap of 30 ± 5 mm between the exhaust tip and the rear side panel (Fig. 7-2).



- (c) Tighten bolts evenly. Tighten to 35 ± 5 lb-ft (48 ± 6 N-m) of torque. (Fig. 8-2)

9. Clean Exhaust tips

- (a) Wipe both LH and RH exhaust tips with glass cleaner and a non-scratching clean cloth if necessary. This is to remove any fingerprints or smudge mark, to prevent staining of the exhaust tips when they are first heated.

TOYOTA TUNDRA TRD 2009 - DUAL EXHAUST SYSTEM

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

Check:





Accessory Function Checks

- Correct part has been installed.
- All joints have been securely fastened.
- Hooks/hangers have been securely reattached.
- Start the vehicle.

Look for: _____

- Verify part number on package.
- Verify joints are tightened.
- Verify hooks/hangers are securely attached.
- Verify the pipe flange and clamp joints do not have abnormal leak sound or water leak.

Vehicle Function Checks

- | | |
|---|---|
|  <input type="checkbox"/> Inspection torque – muffler to converter assembly. | 35 ± 5 lb-ft (48 ± 6 N-m) of torque |
|  <input type="checkbox"/> Inspection torque – tailpipe assembly to muffler outlet connection. | 35 ± 5 lb-ft (48 ± 6 N-m) of torque |
|  <input type="checkbox"/> Inspection torque – heat shield | 6.5 ± 2.5 lb-ft (9 ± 3.5 N-m) of torque |
|  <input type="checkbox"/> Inspection torque – LH tailpipe bracket | 24 ± 5 lbs-ft (32 ± 6 N-m) of torque |