

Part Number: PTR03-18131

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Midpipe, Cat-back, Scion FR-S
2	1	Muffler, Cat-back, Scion FR-S

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	1	Gasket
2	3	Bolt M10x25
3	3	Nut M10

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1		

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Special Tools	Notes
Exhaust Hanger Removal Tool	e.g. Snap On P/N YA3202
Installation Tools	Notes
Sockets	14mm, 17mm
Torque Wrench	Up to 32 lbf.ft (43 N.m)
Wrench	12mm
Special Chemicals	Notes
Lubricant	Soap & Water (If Required)
Cleaner	VDC Approved Cleaner

General Applicability

2013 MY+ Scion FR-S

Recommended Sequence of Application

Item #	Accessory
1	
2	
3	

*Mandatory

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

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	1	Exhaust Gasket Part No: 44022AA122 - DIO ONLY
2		
3		

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.

Installation 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. Check the Kit content.



(a) Make sure that the kit contains all the parts listed in the Kit Contents.



NOTE: Do not remove any plastic wrapping protection material from tip until is it installed.

2. Remove Existing Exhaust System.



(a) CAUTION - Exhaust system may be hot.

(b) Using the 14mm socket, remove the two bolts from the muffler flange. (Fig 2-1)

(c) Pry the four muffler hanger brackets loose from the rubber hangers. Be sure to remove the bracket from the lower hole in the hanger, leaving the rubber hanger in place on the vehicle (Fig. 2-2). Remove the muffler from the vehicle

NOTE: Lubrication (such as soap and water on the rubber exhaust hangers can facilitate removal of the rubber hangers.

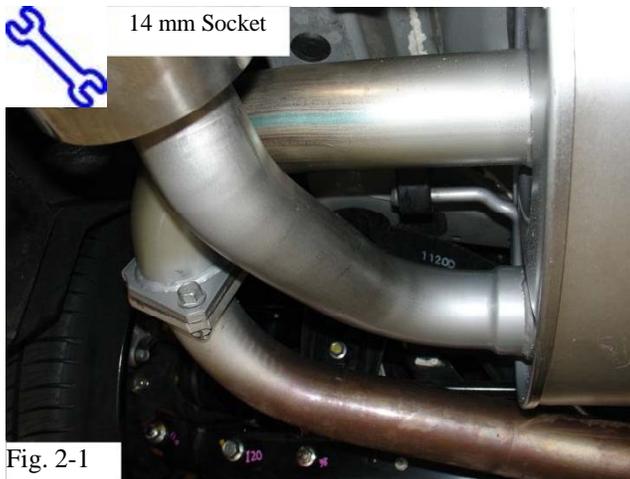


Fig. 2-1



Fig. 2-2



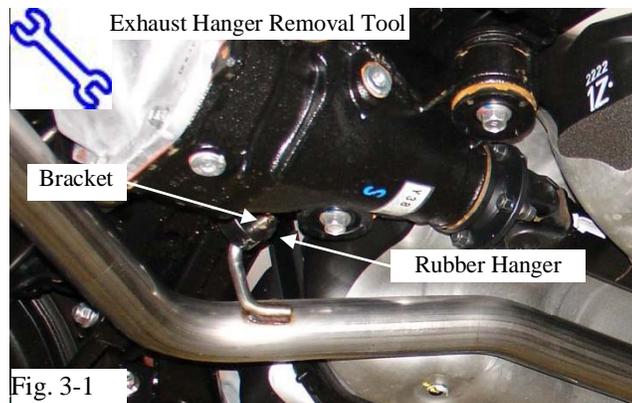
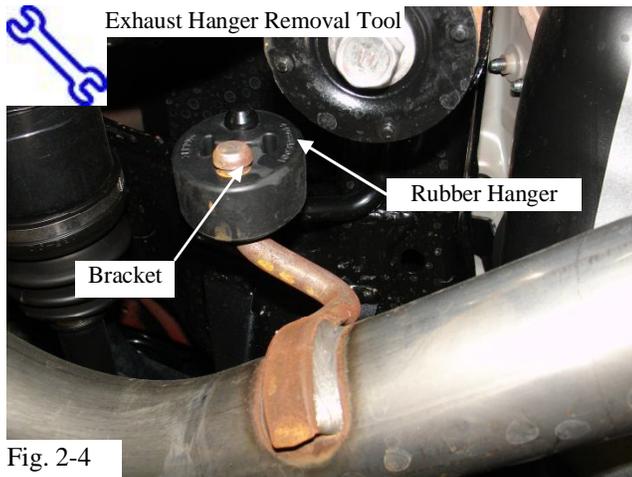
- (d) Using the 14mm socket and 12mm wrench, remove 2 nuts, bolts and springs from the front flange (Fig. 2-3)



- (e) Keep all original hardware (OE) nuts, bolts, and springs. The gasket should remain in place

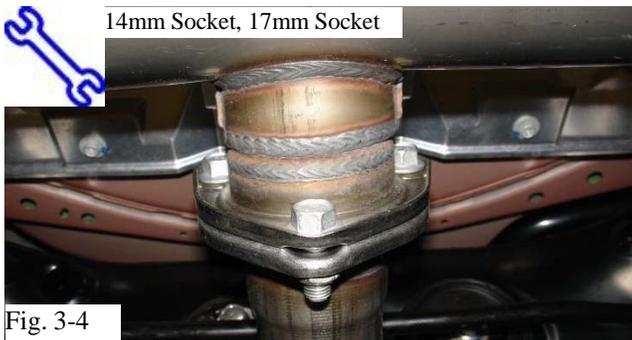
NOTE: For DIO installation, the exhaust gasket must be replaced – P/N 44022AA122.

- (f) Pry the midpipe hanger bracket loose from the rubber hangers. Be sure to remove the bracket from the lower hole in the hanger, leaving the rubber hanger in place on the vehicle (Fig. 2-4). Remove the midpipe from the vehicle



3. Installation of TRD Sport Muffler

- (a) Install the midpipe bracket into the rubber hanger in the rear sub frame (Fig 3-1).



- (b) Reinstall the two spring bolts to mate the front flanges together and tighten to 13 N-m (10 lbf-ft). (Fig. 3-2)
- (c) Install the gasket over the tube protruding from the rear midpipe flange (Fig 3-3).
- (d) Install the four muffler brackets into the hangers; align the muffler flange over the midpipe flange.
- (e) Install the three bolts into the flange from the muffler secure with the three nuts (Fig 3-4)
-  (f) Confirm the alignment of the tip so there is a gap from the top tip to the fascia of 25 +/- 5 mm. (Fig 3-5).
-  (g) Tighten the bolts to 43 N-m (32 lbf-ft).

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

Check:	Look For:
<p><u>Accessory Function Checks</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> All joints have been securely fastened. <input type="checkbox"/> Hooks/hangers have been securely reattached. <input type="checkbox"/> Start the vehicle 	<p>Verify joints are tightened.</p> <p>Verify hooks/hangers are securely attached.</p> <p>Verify the flange joints do not have abnormal leak sound or water leak.</p>
<p><u>Vehicle Function Checks</u></p> <ul style="list-style-type: none">  <input type="checkbox"/> Inspection torque – outlet flange to TRD muffler inlet pipe 	<p>43 Nm +/- 8.5 Nm (32 lbf-ft +/- 6.0 lbf-ft)</p> <p>13 Nm +/- 3.0 Nm (10 lbf-ft +/- 2.0 lbf-ft)</p>