Preparation

Part Number: PTR11-18130

Kit Contents:

Item #	Quantity Reqd.	Description
1	1	Front Sway Bar, 21mm
2	1	Rear Sway Bar, 16mm
4	2	Hardware Bag (1 Front & 1 Rear)
5	1	Instructions

Hardware Bag Contents

Item #	Quantity Reqd.	Description	
1	2	Front Bushings	
2	1	Lube	
3	2	M10x50 Flange Bolt	
		(SU003-02816)	
4	6	M10x26.5 Flange Bolt	
		(SU003-02801)	
5	2	*M12 Flange Nut	
		(SU003-04506 or SU003-02887)	
6	2	Rear Bushings	
7	1	Lube	
8	2	Reinforcement Bracket, Rear	
9	2	M10x20 Flange Bolt	
10	2	M10 Flange Nut	
11	2	M10 Flange Nut (SU003-02883)	

**Kit may contain either flange nut part number*

Additional Items Required For Installation

Item #	Quantity Reqd.	Description	
1			

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes	
Eye Protection		
Ear Plugs		
Special Tools	Notes	
Installation Tools	Notes	
Sockets	10mm, 12mm, 14mm, 15mm, 17mm	
Impact Gun	3/8" (Disassembly only)	
Open Wrench	17mm	
Ratchet	3/8" & 1/2"	
Torque Wrench	3/8" & 1/2"	
Nylon Pry Tool		
Pliers		
Hex Wrench	5 mm & 6mm	

General Applicability

All models 2013~

Recommended Sequence of Application

Item #	Accessory
1	Springs
2	Sway Bars

Vehicle Service Parts (may be required for reassembly)

Item #	Part Number	Description
1		

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.
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.

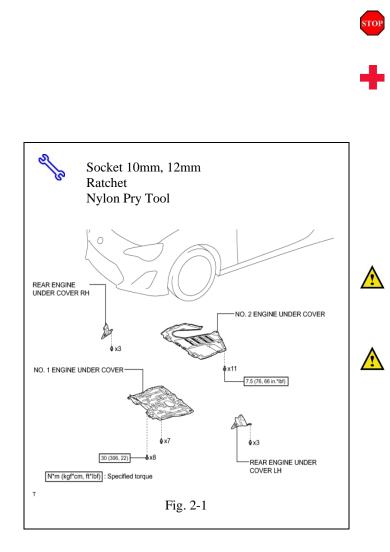
Procedure

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.).



1. Pre-installation Preparation

- (a) Use Seat & Floor Protectors to avoid damage to surfaces.
- (b) Put transmission in "P" (Automatic) or reverse (Manual).
- (c) Lift the vehicle using a drive-on lift if available.If using a two-post lift or jack, use the lift points recommended in the owner's manual.

2. Remove Front OE Sway Bar

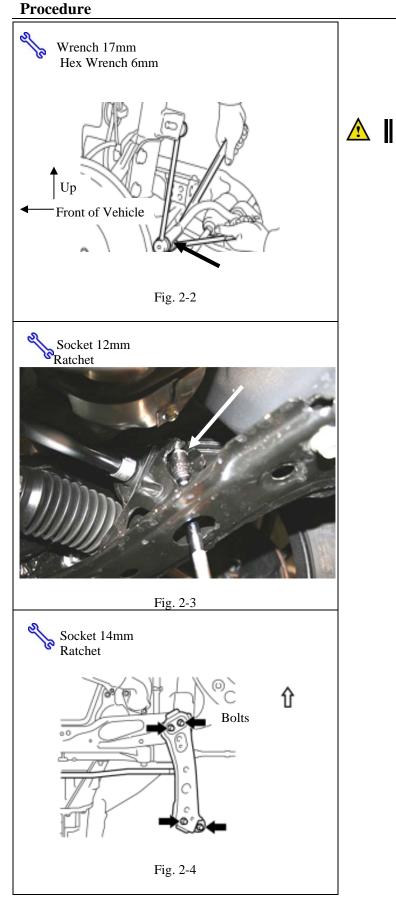
- (a) Remove the four engine under covers.
 - Using a 10mm and a 12mm socket, remove the bolts on the engine under covers and retain for reinstallation (Fig. 2-1).

HINT: Remove the leading edge fasteners first. Tabs help hold the leading edges of these pieces in place.

(2) Using a nylon pry tool, remove the clips and retain for reinstallation (Fig. 2-1).

SCION

TRP SWAY BAR SET



(b) Using a 17mm wrench and 6mm hex wrench, remove the lower nut (black arrow) on the sway bar end links on the RH and the LH side of vehicle and discard (Fig. 2-2).

HINT: Leave both end links attached until you are ready to remove the assembly from the vehicle.

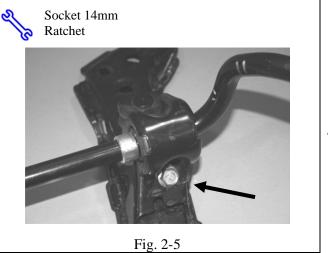
- (c) Remove the lower member sub-assemblies with sway bar.
 - Using a 12mm socket, remove the nut from the sub-assembly bushing brackets (Right & Left) and retain for reinstallation (Fig. 2-3).

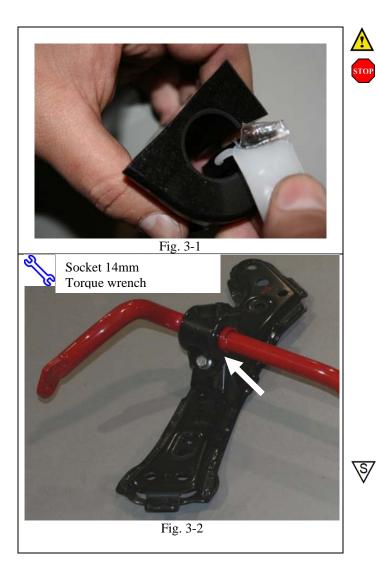
- (2) Using a 14mm socket, remove the four bolts from the member sub-assemblies (Right & Left) and discard (Fig. 2-4).
- (3) Free the sway bar from the end links.
- (4) Remove the right and left member subassemblies and bar together.

SCION

TRD SWAY BAR SET

Procedure





- (d) Use a 14mm socket to remove the bolts holding the bushing brackets to the lower member sub-assembly and retain for reinstallation (Fig. 2-5).
- (e) Remove the front sway bar.
 - (1) Observe the orientation of the front sway bar prior to removing.
 - (2) Remove and discard the front sway bar.

3. Install TRD Front Sway Bar

(a) Grease the bore of the front bushings as shown in Fig. 3-1. The bushing bore must be completely coated with the lube supplied.

- (b) Install the front sway bar bushings.
 - (1) Install the front sway bar bushing so that the slit on the bushing is toward the front of the vehicle.
 - (2) Make sure the bushings sit against the stop rings (Fig. 3-2).
 - (3) Install the OE brackets and torque the OE LH and RH bolts to 75 N•m.

Torque: 75 N•m (55 ft•lbs)

TRP SWAY BAR SET

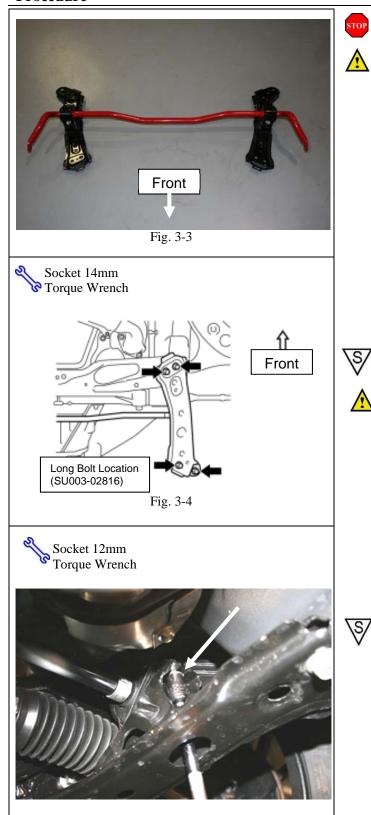


Fig. 3-5

NOTE: Check the proper orientation of the front TRD sway bar on the sub-frame assembly (Fig. 3-3). Confirm the bar has the same orientation as the OE sway bar.

(c) Using a 14mm socket, reinstall the front lower member sub-assembly with the 4 supplied OE bolts, LH and RH side, (Fig. 3-4). Torque the bolts to 60 N•m.

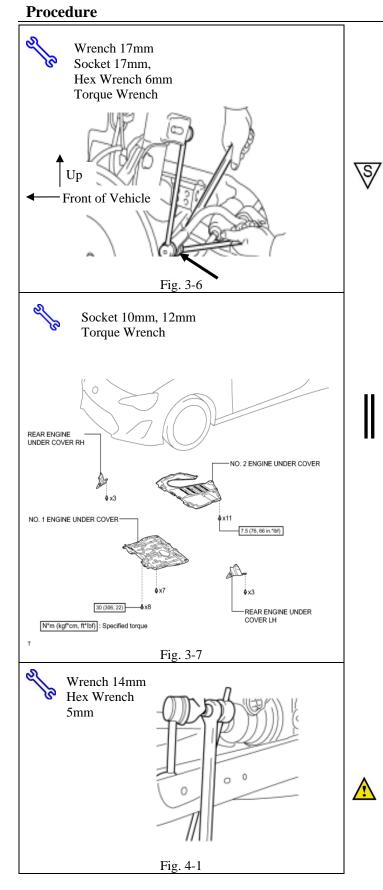
Torque: 60 N•m (44 ft•lbs)

HINT: Insert the end link studs into end of the sway bar to hold the assembly in place.

(d) Using a 12mm socket, install and torque the nut on the bushing bracket, LH and RH side (Fig. 3-5). Torque the nuts to 25 N•m.

Torque: 25 N•m (18 ft•lbs)

SCION



(e) Using a 17mm wrench and 6mm hex wrench, install the supplied OE lower nut (black arrow) on the sway bar end link, LH and RH side (Fig 3-6). Torque the nuts to 46 N•m.

Torque: 46 N•m (34 ft•lbs)

(f) Install the four under engine covers (Fig. 3-7).
Using a10mm socket, torque the bolts to 7.5
N•m. Using a 12mm socket, torque the bolts to 30 N•m. Install plastic pop-in fasteners.

10mm socket - Torque: 7.5 N•m (66 in•lbs) 12mm socket - Torque: 30 N•m (22 ft•lbs)

4. Remove OE Rear Sway Bar

(a) Remove the nut from the LH and RH end links and discard the nuts (Fig. 4-1).

HINT: If the stud turns with the nut, hold the stud with a 5mm hex wrench and remove the nut with a wrench.

SCION Procedure	FR-S	2013-	TRD SWAY BAR SET
Socket 12mm Ratchet	Socket 12mm		 (b) Using a 12mm socket, remove the bolts holding the bushing bracket to the chassis from the LH and the RH sides and retain for reinstallation (Fig. 4-2).
- S	Fig. 4-2		 (1) Observe the orientation of the rear sway bar prior to removing. (2) Remove and discard the rear sway bar and
T			bushings.(3) Retain the bushing brackets for reinstallation.
	115	5.	Install TRD Rear Sway Bar (a) Install the rear reinforcement bracket.
	DEGAL MUST Be visible WHEN INSTALLED		 Place the bracket so that it fits flush with the mounting surface and all holes line up (Fig. 5-1).
			HINT: Install a bushing bracket bolt to hold the bracket in place (White Arrow).
2			(2) Install the M10 nut and bolt supplied thru the top hole. Hand-tighten at this time.
Hint: Ins	Fig. 5-1		NOTE: Hold the M10 nut on reinforcement bracket and insert M10 bolt from behind.
		7 of 11	

Procedure

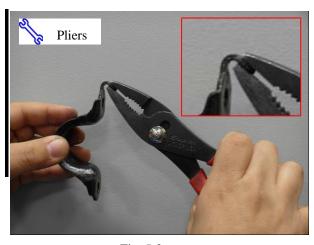
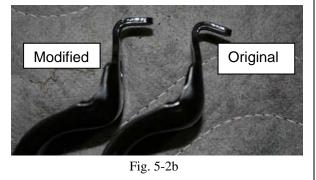
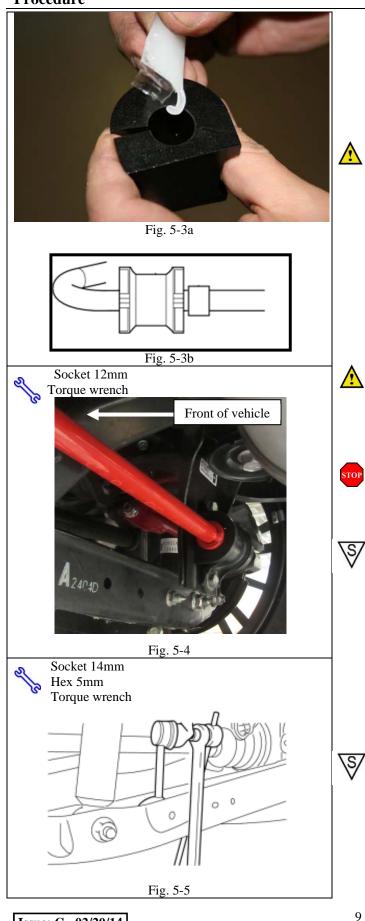


Fig. 5-2a



- (b) Modify the bushing bracket tab.
 - (1) With a pair of pliers, gently bend the tab of the bushing bracket (Fig 5-2a) so that it is 90 degrees as shown in Fig 5-2b.

Procedure



- (c) Grease the bore of the rear bushing as shown in Fig. 5-3a. The bushing bore must be completely coated with the lube supplied.
- (d) Place the bushings on the bar so that they sit against the outside of the stop rings (Fig. 5-3b).
- **NOTE:** Install bushing with slit facing up.
 - (e) Temporarily install the sway bar to the end link assemblies on the LH and the RH side.

- (f) Push the brackets onto the bushings and orient the brackets and bushings so that the flat mounting surface is facing towards the front of vehicle (Fig. 5-4).
- (g) Use a 12mm socket and re-install the 4 OE bolts that mount the bushing brackets and torque to 30 N•m.

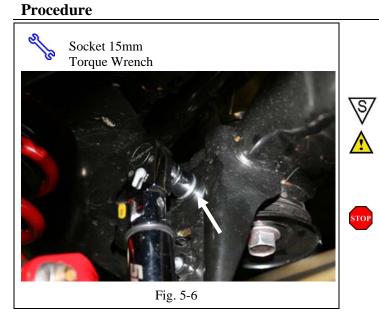
Torque: 30 N•m (22 ft•lbs)

(h) Using a 14mm wrench and 5mm hex wrench, install the supplied OE nut on the sway bar end link, LH and RH side (Fig. 5-5). Torque the nuts to 38 N•m.

Torque: 38 N•m (28 ft•lbs)

SCION Procedur



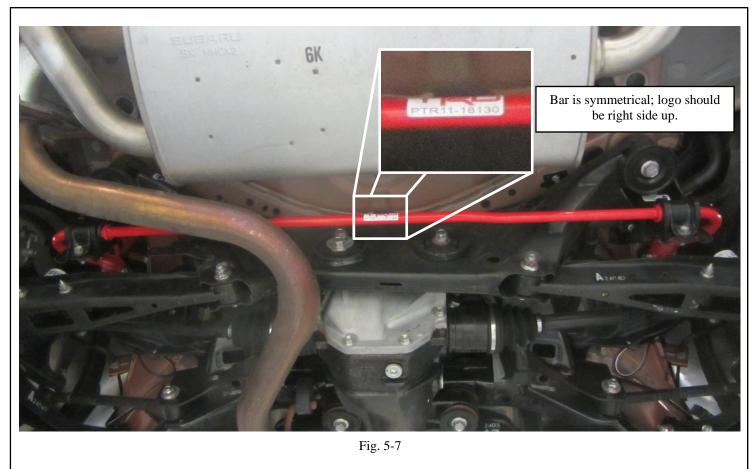


(i) Use a 15mm socket on the top bolt on the reinforcement bracket and torque to 60 N•m (Fig. 5-6).

Torque: 60 N•m (44 ft•lbs)

CAUTION: It is imperative that the top bolts (LH & RH) are torqued as specified to reinforce the OEM structure.

(j) Verify the orientation of the bar (Fig. 5-7).



SCION	FR-S	2013-	TRD SWAY BAR SET
Checklist - these points MUST be checked to ensure a quality installation			
CHECK FOR:			LOOK FOR:
Accessory Function Checks			
	Inspect bolt torques.		Bolt torques should be as follows:
		II	Front Sway BarBushing Bracket Bolt 75 N•m (55 ft•lbs)Member Sub-Assembly Bolts 60 N•m (44 ft•lbs)Bushing Bracket Nut 25 N•m (18 ft•lbs)Front Stabilizer Link Assemblies 46 N•m (34 ft•lbs)Rear Sway BarRear Sway Bar Brackets 30 N•m (22 ft•lbs)Rear Sway Bar Link Assemblies 38 N•m (28 ft•lbs)Rear Reinforcement Bracket Bolt 60 N•m (44 ft•lbs)
	Inspect front stabilizer link assemblies.		Confirm boots at base of studs are not torn.
	Inspect rear link assemblies.		Confirm boots at base of studs are not torn.
Vehicle Fun	ction Checks		
Vehicle App	bearance Check		
	After accessory installation and removal protective cover(s), perform a visual insp		Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)