

**Part Number: PTR54-18130**

**Kit Contents**

| Item # | Quantity Req. | Description                 |
|--------|---------------|-----------------------------|
| 1      | 1             | Adapter                     |
| 2      | 1             | Rear Mount Bracket Assembly |
| 3      | 1             | 2-Piece Boot Cover          |
| 4      | 1             | D-Shape Grommet             |
| 5      | 1             | Adapter Bolt                |
| 6      | 1             | Installation Instructions   |

**Hardware Bag Contents**

| Item # | Quantity Req. | Description |
|--------|---------------|-------------|
| 1      |               |             |
| 2      |               |             |
| 3      |               |             |

**Additional Items Required For Installation**

| Item # | Quantity Req. | Description |
|--------|---------------|-------------|
| 1      |               |             |
| 2      |               |             |
| 3      |               |             |

**Conflicts**

|                        |
|------------------------|
| Automatic transmission |
|------------------------|

**Recommended Tools**

|  |                               |
|--|-------------------------------|
| <b>Personal &amp; Vehicle Protection</b> | <b>Notes</b>                  |
| Safety Glasses or Goggles                |                               |
|  |                               |
|  |                               |
| <b>Special Tools</b>                     | <b>Notes</b>                  |
|  |                               |
|  |                               |
|  |                               |
| <b>Installation Tools</b>                | <b>Notes</b>                  |
| 14mm Deep Socket                         | 3/8" Drive                    |
| 12mm Socket                              | 3/8" Drive, 12 point          |
| 10mm Deep Socket                         | 3/8" Drive                    |
| 7mm Ball End Hex Socket                  | 3/8" Drive                    |
| 12mm Ratchet                             | Combo Wrench                  |
| Pliers                                   | Needle Nose                   |
| Ratchet                                  | 3/8" Drive                    |
| 8" Extension                             | 3/8" Drive                    |
| 3" Extension                             | 3/8" Drive                    |
| Torque Wrench                            | 3/8" Drive                    |
| <b>Special Chemicals</b>                 | <b>Notes</b>                  |
| Thread Locker                            | Loctite 242 (Blue) or similar |
|  |                               |
|  |                               |



**General Applicability**

|  |
|--|
| 2013 and newer FR-S with manual transmission |
|--|

**Recommended Sequence of Application**

| Item # | Accessory |
|--------|-----------|
| 1      |           |
| 2      |           |
| 3      |           |

\*Mandatory

**Vehicle Service Parts** (may be required for reassembly)

| Item # | Quantity Req. | Description               |
|--------|---------------|---------------------------|
| 1      | 1             | Clip Part No. SU003-00898 |
| 2      |               |                           |
| 3      |               |                           |

**Legend**

|  |  |
|--|--|
|  | <b>STOP:</b> Damage to the vehicle may occur. Do not proceed until process has been complied with.   |
|  | <b>OPERATOR SAFETY:</b> Use caution to avoid risk of injury.   |
|  | <b>CAUTION:</b> 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. |
|  | <b>TOOLS &amp; EQUIPMENT:</b> Used in Figures calls out the specific tools and equipment recommended for this process.   |
|  | <b>REVISION MARK:</b> This mark highlights a change in installation with respect to previous issue.  |
|  | <b>SAFETY TORQUE:</b> This mark indicates that torque is related to safety.  |

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 Scion dealer for a copy of this document.

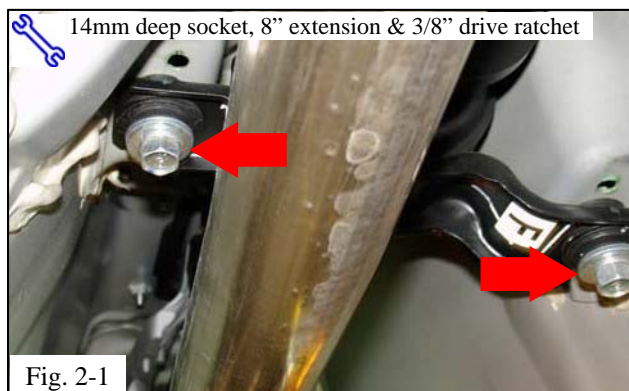
## 1. Prepare the Vehicle & Parts.

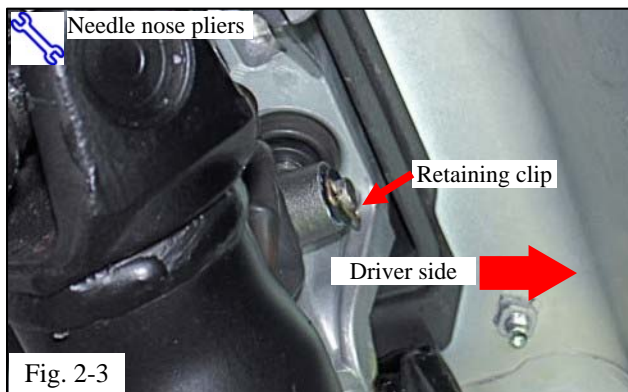
- Check the kit for complete contents and any damage.
- Position the vehicle on a lift or hoist for proper installation.
- Put the transmission in neutral.
-  Let the vehicle cool down until the transmission and exhaust are cool to touch.

## 2. Remove/Loosen the Factory Components.

- Remove the 2 bolts on the driveshaft support bearing bracket to allow the driveshaft to easily drop down (Fig. 2-1).
- Carefully pull/peel the OE boot down away from the shift tower (Fig. 2-2).

 **NOTE:** Care must be exercised when moving the boot so as not to catch it on the interior clip, which may cause a tear or rip in the boot.





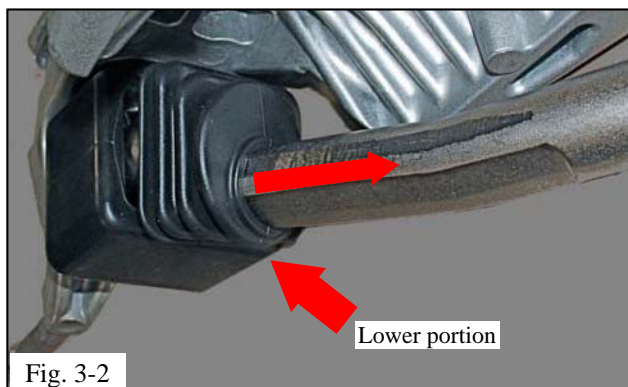
- (c) Use needle nose pliers to remove the exposed retaining clip from the OE shift control shaft. Save the retaining clip for reinstallation of the shift control shaft (Fig. 2-3).
- (d) Remove the thrust washer located behind the retaining clip.
- (e) Push/slide the shift control shaft out from the shift lever assembly towards the driver side of the vehicle. Leave the shift control shaft hanging down (Fig. 2-3).
- (f) Remove the OE boot from the shift shaft by pulling/peeling towards the rear of the vehicle. Save the boot for reuse to return the vehicle to stock condition.

### 3. Install the TRD Quickshifter.



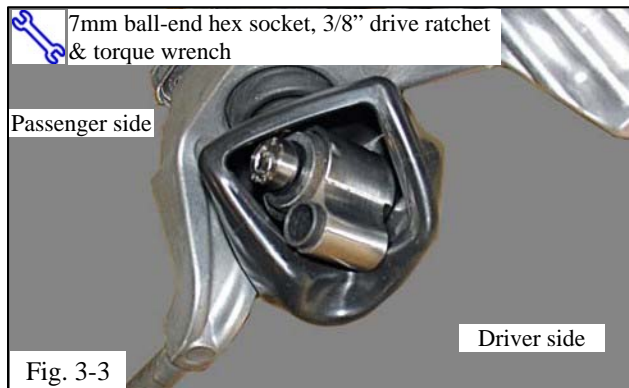
- (a) Install the box portion (Item 3a) of the 2-piece boot over the shift lever lower housing with the rectangular opening facing the front of the vehicle. Pull/peel the round hole in the boot over the OE shift lever lower housing (Fig. 3-1).

**NOTE:** The components shown in Fig. 3-1 are removed from the vehicle for clarity purposes only.



- (b) Push/slide the bellows portion (Item 3b) of the 2-piece rubber boot over the shift control shaft and rotate it to ensure the shaft is exiting the lower portion of the boot (Fig. 3-2).

**NOTE:** The components shown in Fig. 3-2 are removed from the vehicle for clarity purposes only.



(c) Install the adapter (Item 1).

- (1) Slide the adapter over the lower housing bushing from the driver side of the vehicle (Fig. 3-3).

**NOTE:** The components shown in Fig. 3-3 are removed from the vehicle for clarity purposes only.

- (2) Apply some thread locker to the adapter bolt threads (Item 5).

- (3) Use a 7mm ball-end hex socket to install the adapter bolt (Item 5) through the shift lever lower housing (Fig. 3-3).

**Torque: 15.0 N·m (11 ft·lbf)**

**NOTE:** Verify the adapter is tight to the shift shaft lower end. The shift lever lower end has an OE O-ring installed inside, which will provide some resistance to the adapter bolt going through. If this occurs, turn the bolt and the bolt thread will pull the bolt through the shift lever lower end. The bolt should thread into the adapter and torque down properly.

- (d) Push the shift control shaft through the bushings in the adapter until the retaining clip holes are visible. Reinstall the retaining clip removed in Step 2(c) (Fig. 3-4).







Fig. 3-5

- (e) Push the bellows portion into the box opening to seal the 2-piece boot assembly. The boot is properly sealed when the entire first rib is enclosed by the box portion (Fig. 3-5).

**⚠ NOTE:** The components shown in Fig. 3-5 are removed from the vehicle for clarity purposes only.

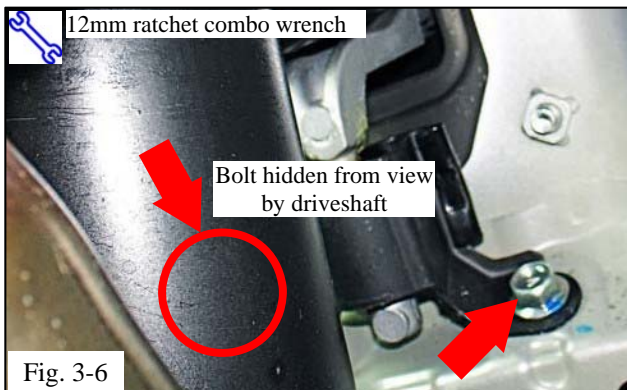


Fig. 3-6

- (f) Remove the 2 bolts securing the shift tower bushing rear mount to the chassis (Fig. 3-6).

**⚠ NOTE:** The shift tower assembly can be tipped down slightly to allow easier removal of the bushing mount from the shift tower.



Fig. 3-7

- (g) Slide the bushing mount rearward to remove it from the shift tower assembly (Fig. 3-7).

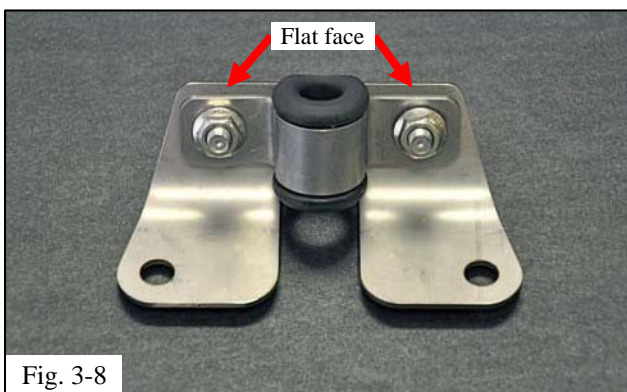


Fig. 3-8

- (h) Loosen, but do not remove, the nuts on rear bracket assembly (Item 2). Install the D-shape grommet in between the 2 metal brackets (Fig. 3-8).

**⚠ NOTE:** The flat face of the grommet should lay flat against the face of the larger metal bracket.



- (i) Install the rear mounting bracket assembly over the post on the shift tower assembly while the bracket nuts are still loose. Use soapy water in the grommet hole to aid with installation (Fig. 3-9 & Fig. 3-10).

**NOTE:** The components shown in Fig. 3-9 are removed from the vehicle for clarity purposes only.



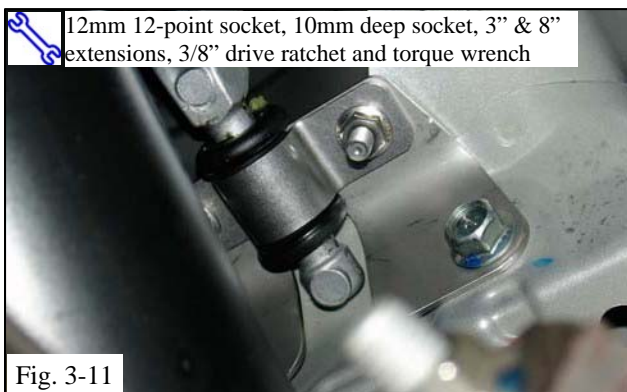
- (j) After the rear bracket assembly is mounted on the shift tower assembly:

- (1) Install the rear bracket assembly bolts (Fig. 3-11).

**Torque: 20.5 N·m (15 ft·lbf)**

- (2) Tighten the D-shape grommet bracket nuts (Fig. 3-11).

**Torque: 16.25 N·m (12 ft·lbf)**



- (k) Reinstall the driveshaft support bearing bracket (Fig. 3-12).

**Torque: 51.5 N·m (38 ft·lbf)**



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

| Check:  | Look For:   |
|---|---|
| <p><u>Accessory Function Checks</u></p> <p><input type="checkbox"/> Move through all forward and reverse gears</p> <p><input type="checkbox"/> Inspect the 2-piece boot</p>                   | <p>Depress the clutch pedal and make sure all forward &amp; reverse gears are easily engaged and disengaged, making sure there is no contact with any dash or center console housing or hard surfaces.</p> <p>Make sure the 2-piece rubber boot is fully sealed and not separated during gear shifting movement</p> |
| <p><u>Vehicle Function Checks</u></p> <p><input type="checkbox"/> Start vehicle in neutral &amp; in-gear check</p> <p><input type="checkbox"/> Move through all forward and reverse gears</p> | <p>Check starting status while in neutral &amp; in-gear</p> <p>With the engine running and the clutch pedal fully depressed, make sure all forward &amp; reverse gears are easily engaged and disengaged and then check that the driven wheels have power. Turn off engine.</p>                                     |
| <p><u>Vehicle Appearance Check</u></p> <p><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.</p>                          | <p>Ensure no damage (including scuffs and scratches) was caused during the installation process.<br/>(For PPO installations, refer to TMS Accessory Quality Shipping Standard.)</p>   |