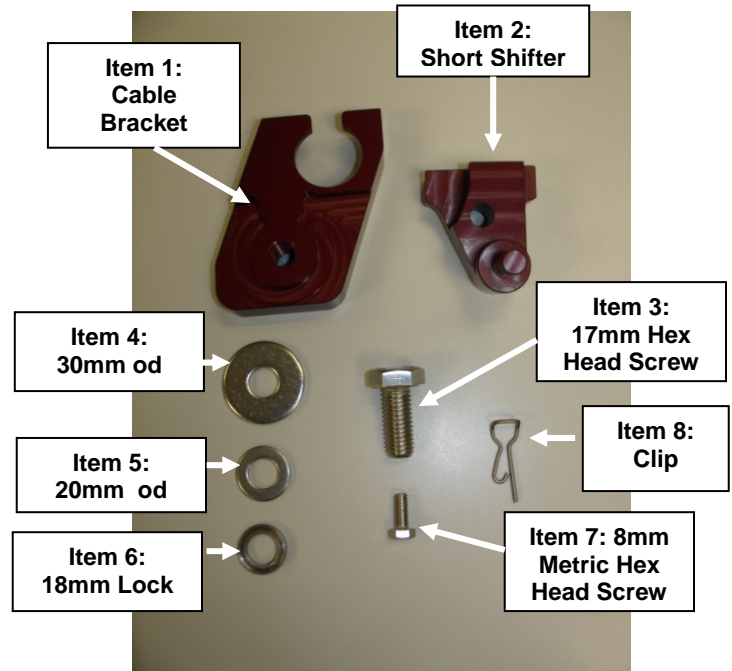


SCION tC 2011 -
Section I – Installation Preparation

Part Number: PTR54-21100

Kit Contents

Item #	Quantity Req'd.	Description
1	1	Scion tC Cable Bracket, Extender
2	1	Scion tC Short Shifter
3	1	Metric S/S Hex Head Cap Screw M10 x 20mm x 1.5 pitch
4	1	Metric S/S Flat Washer M10 30mm OD x 2.5 mm Thick
5	1	Metric S/S Flat Washer M10 20mm OD x 2.0 mm Thick
6	1	Metric S/S Lock Washer M10, 18mm OD x 2.0 mm Thick
7	1	Metric S/S Hex Head Cap Screw M5 x 12mm x 0.8 pitch
8	1	Clip, Toyota P/N 90468-14029
9	1	Installation instructions



Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		Waterproof Wheel Bearing Grease

Conflicts

PPO Code	Description

Recommended Tools

Safety Tools	
Safety Glasses	or Goggles
Special Tools	
Vehicle Protection	Front Seat Covers
Vehicle Protection	Blankets
Telescoping Mirror	
Installation Tools	
8mm Socket	1/4" Drive
10mm Socket	1/4" Drive
10 inch Extension	1/4" Drive
Ratchet	1/4" Drive
Torque Wrench	1/4" Drive
Flat Screwdriver	Large Flat Blade
Pliers, Needle-Nose	
Brass Hammer	
17mm Socket	3/8" Drive
Ratchet	3/8" Drive
Torque Wrench	3/8" Drive

General Applicability

Scion tC: 2011 and up with 6 speed manual transmission

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description
1	1	Clip Part No. 90468-14029

*Mandatory

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
	CRITICAL PROCESS: Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation
	GENERAL PROCESS: This highlights specific processes to ensure a quality installation. These points will be audited during the accessory installation
	TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process

Section IV – Functional Verifications

A. Check Kit Contents

1. Check kit for contents and damage.

B. Vehicle Preparation

1. Open vehicle hood.
2. Use blankets to protect the front grille area and the front seat area.
3. Set parking brake.
4. Put transmission in Neutral.
5. Disconnect the negative battery cable from the battery at the terminal.

**C. Removal Procedure: OE Air Filter Enclosure**

1. Remove upper air cleaner lid.
 - i. Unfasten the 2 hook clamps. (Fig. C1)
 - ii. Loosen the hose clamp that secures the intake hose to the air cleaner lid. (Fig. C1)



10 mm Socket

- iii. Unplug the Mass Air Flow Sensor connector. (Fig. C2)
- iv. Remove wire harness from the air cleaner lid. (Fig. C2)
- v. Remove OE air filter lid from engine bay.
- vi. Remove OE air filter.

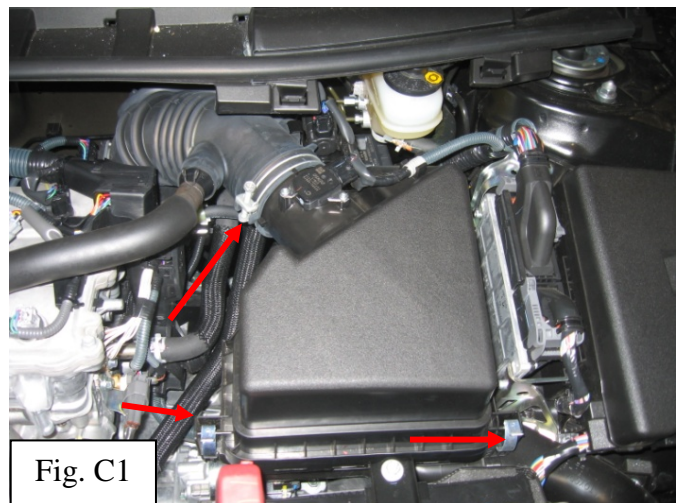


Fig. C1

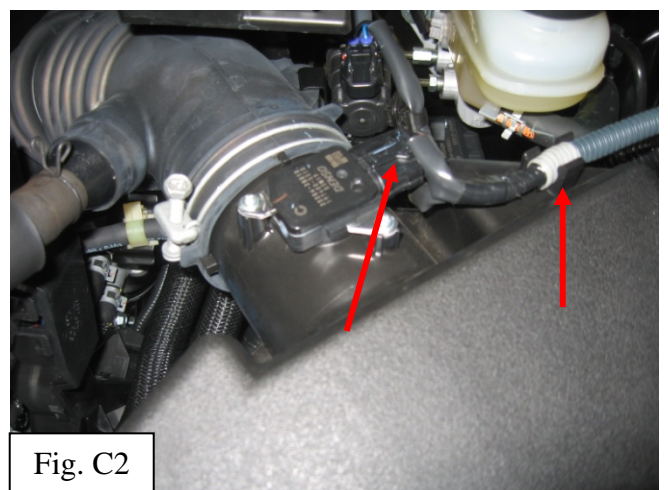


Fig. C2

Section IV – Functional Verifications

2. Remove lower air filter inlet base.
 - i. Use a 10mm socket, 10" extension and 1/4" drive ratchet to remove 3 OE bolts that secure air filter inlet base. (Fig. C3)
 - ii. Lift up the tab for the wire harness tie. Remove the harness and tie from the inlet base. (Fig. C3).
 - iii. Remove air inlet pipe from lower base. (Fig. C3)
 - iv. Lift air filter inlet base out of engine bay.

D. Removal Procedure: Transmission Cable Ends

1. Disconnect the transmission cable end from the gear shift linkage on the transmission. (Fig. D1)
 - i. Remove factory transmission cable clip and save for re-use. (Fig. D1)
 - ii. Remove transmission cable end from transmission linkage and set cable end aside. (Fig. D1)
2. Remove U-clip from shift cable bracket (Fig. D2) with a large flat blade screwdriver.
Move the shift cable out of OE bracket and set aside.

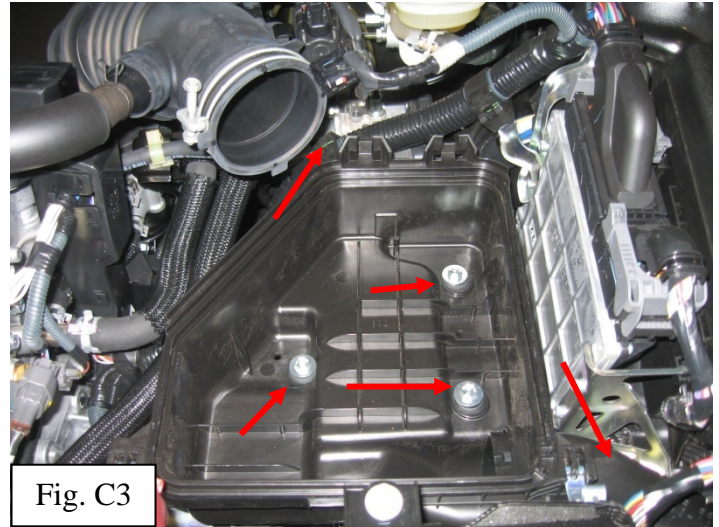


Fig. C3

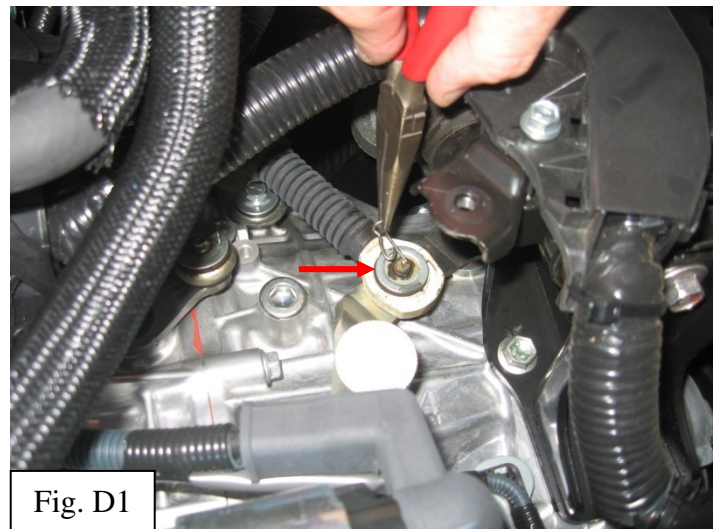


Fig. D1

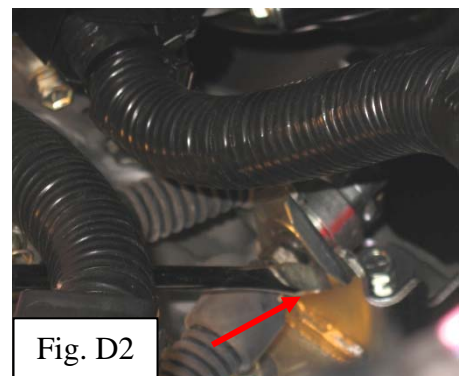


Fig. D2

E. Installation Procedure: TRD Quick Shifter

1. Install Cable Bracket Extender (Item #1) as shown with hardware pre-installed. (Fig. E1)

- i. The large area flat washer sits against the OE steel bracket, then small flat washer, then lock washer, and then bolt. (Fig. E1)



- ii. Use a 17mm socket to tighten bolt.

(Fig. E1) Torque: 17 ft·lbf

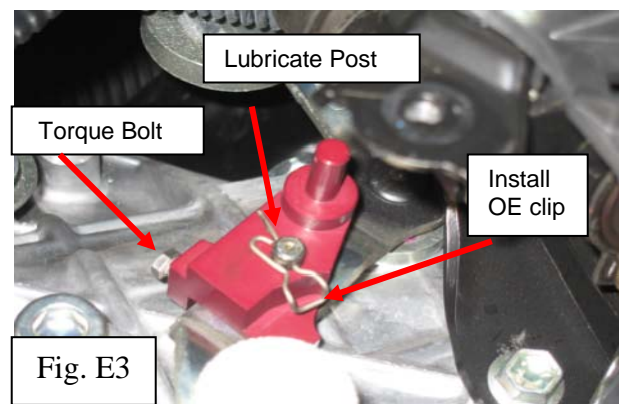
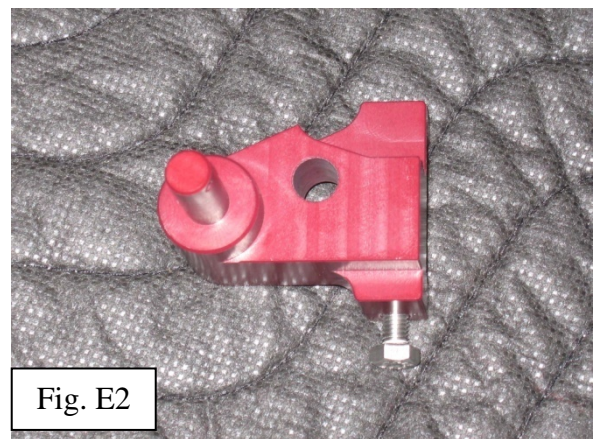
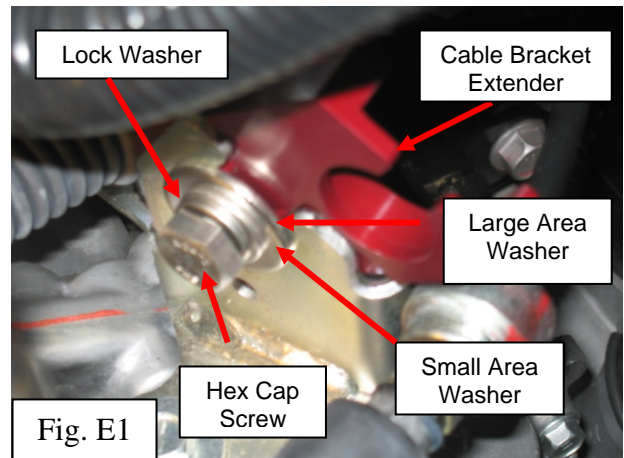
2. Install TRD Quick Shifter Short Shifter (Item #2) (Fig. E2)

- i. Pre-Install the 8mm hex cap screw into the Short Shifter (Fig. E2)
 - ii. Lubricate the post on the transmission arm with grease and slide the TRD Short Shifter over the lubricated post as shown in (Fig. E3).

- iii. Reinstall the OE factory transmission cable clip to secure the TRD Short Shifter to the transmission linkage arm. (Fig. E3)

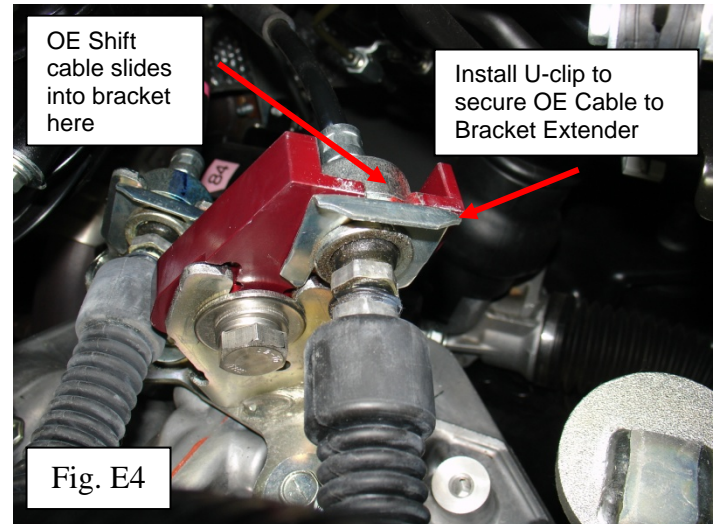


- iv. Lightly tighten down the 8mm bolt to secure the short shifter to the transmission linkage arm. Check for **no** rotational movement. Use an 8mm socket and ¼-inch drive torque wrench to tighten the bolt. Torque bolt: 20 in·lbf (Fig. E3).

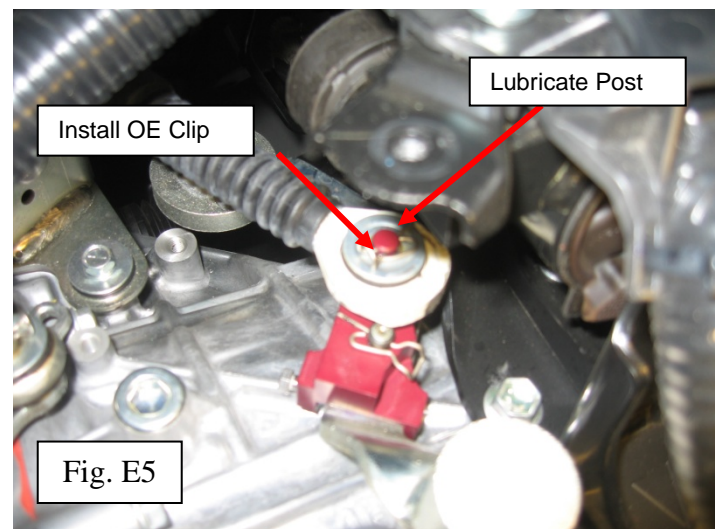


Section IV – Functional Verifications

3. Reinstall OE shift cable into new TRD cable bracket extender.
 - i. Slide OE shift cable into TRD cable bracket extender through the open slot. (Fig. E4)
 - ii. Secure cable to bracket re-using the U-clip making sure the U-clip rides in the groove of the shift cable housing. (Fig. E4)



4. Reinstall OE shift cable end over TRD Short Shifter Post.
 - i. Lubricate the Short Shifter post with grease and reinstall the OE transmission cable end over the post. (Fig. E5)
 - ii. Secure the transmission cable to the post using the OE cable clip. (Fig. E5)
 - iii. Sit in the drivers seat and check gear engagement for all 6 forward gears and reverse gear. There should be no restriction of movement or interference of any kind. (Fig. E6)



F. Reinstall OE Air Filter Enclosure

1. Reinstall air filter inlet base.
 - i. Reinstall the 3 OE bolts/washers that secure the air filter inlet base. (Fig. C3)
 - ii. Torque bolts: 62 in·lbf
 - iii. Reconnect the wire harness and clip to the inlet base. (Fig. C3).
2. Reinstall OE air filter.
3. Reinstall OE air filter lid.
 - i. Reconnect the Mass Air Flow Sensor connector. (Fig. C2)
 - ii. Re-attach wire harness to the air cleaner lid.
 - iii. Reconnect intake hose to the air cleaner lid. (Fig. C1)
 - iv. Fasten the 2 hook clamps. (Fig. C1)
 - v. Tighten hose clamp that secures intake hose to air cleaner lid.



Fig. E6

Check gear engagement
in all forward gears and
reverse.

G. Post Installation

1. Reconnect negative battery cable to battery.



Torque to: 36 in•lbf

2. Start vehicle and check for smooth idle.



- i. If engine idle is smooth and no Dash Lights are illuminated, shut off engine.
- ii. If engine idle is not smooth or engine will not start, review above instructions and perform functional checks.

2. Remove vehicle protection from grille and front seat area.
3. Close vehicle hood.

H. Functional Checks

- Shifter will engage all 6 forward gears and reverse.
- Smooth engine idle and no MIL.
- Full engagement of MAF sensor connector.
- Tightness of all clamps.