

Part Number: PT904-74100

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

Kit Contents

Item #	Quantity Req.	Description
1	1	16" Alloy Wheel
2	1	Center Cap
3	1	Hardware Bag
4	1	Care Card

Hardware Bag Contents

Item #	Quantity Req.	Description
1	4	Lug Nuts

Additional Items Required For Installation

Item #	Quantity Req.	Description
1	As Required	Balance Weights Clip-on Type
2	As Required	Balance Weights Stick-on Type
3	As Required	Valve Grommet Fitting Kit P/N 04423-33030

Conflicts

Note:

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Seat Protection	Blanket
Special Tools	
Wheel Balancing Machine	DSP9700 or equivalent
Tire Mounting Machine	Hunter TC3250 or equiv.
Centering Cone	Hunter 192-51-2
Foot Brake Application Tool	Snap-on B240A Pedal Jack or equivalent
Installation Tools	
Rubber Mallet	
Torque Wrench	0-75 lbf-in. (8.50 N-m) 0-250 lbf-ft (340 N-m)
Socket & Ratchet	21 mm Deep Well 12 mm Deep Well
Balance Weight Pliers	
Clean Lint-Free Cloth	
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST #0002-06001-01
Special Chemicals	
Tire lube	
Cleaner (for re-work only)	Approved cleaner

General Applicability

All Scion iQ

Recommended Sequence of Application

Item #	Accessory
1	Alloy Wheel
2	Wheel Lock

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req.	Description

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.

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.

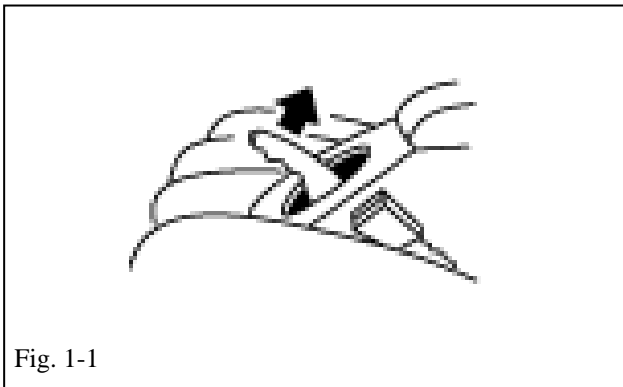
These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

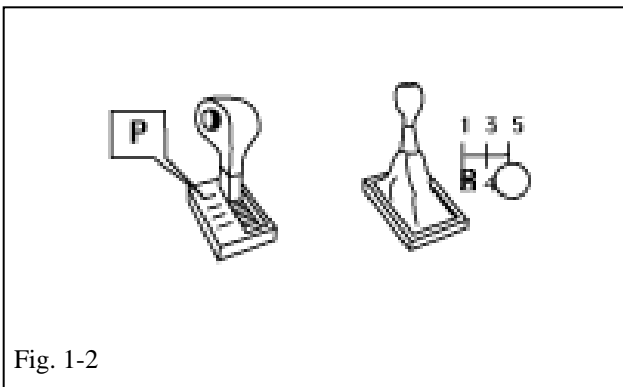
- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your SCION dealer for a copy of this document.

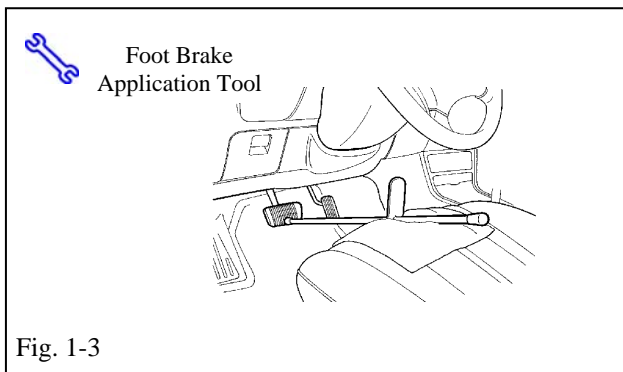
1. Vehicle Preparation.



STOP (a) Firmly apply parking brake (Fig. 1-1).



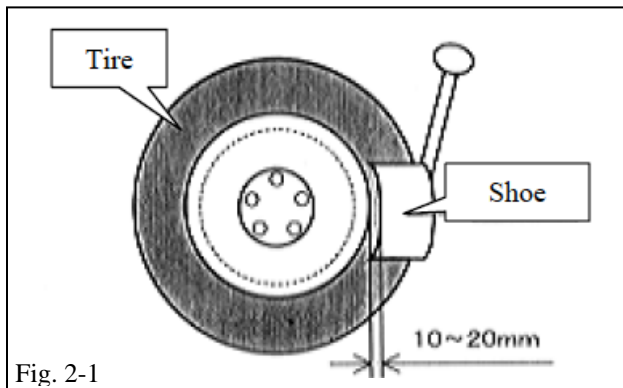
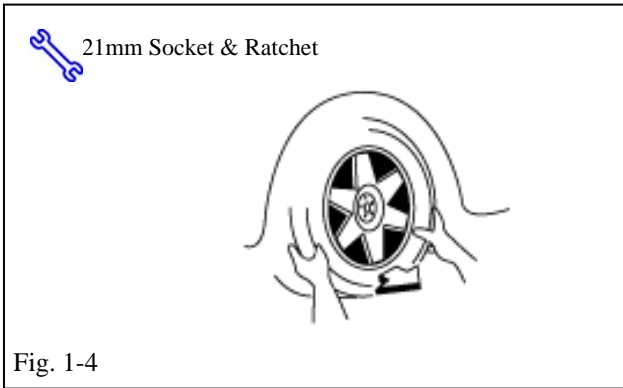
STOP (b) Put transmission in "P" (automatic) or reverse (manual) (Fig. 1-2).



(c) Add seat protection (blanket) and apply foot brake using foot brake application tool (Fig. 1-3).

(d) Lift vehicle.

STOP **CAUTION: Place a safety stand under the front of the vehicle or under the front pinch seam, "jack position," while the vehicle is off the ground for additional vehicle support.**



- +** (e) Remove OE wheel and tire assemblies from vehicle (Fig. 1-4). Wear safety glasses while removing wheels.

NOTE: Mark the tire installation position on the inward facing tire sidewall i.e. Front Right = FR, Front Left = FL, Rear Right = RR, Rear Left = RL.

2. Remove Tire Pressure Monitor Valve Sub-assembly.

- +** (a) Remove the valve core and release pressure from the tire.
- (b) Remove the nut and washer and retain for reinstallation later. Let the pressure sensor drop inside the tire.
- (c) Carefully separate the upper tire bead from the wheel rim. (Fig. 2-1).

STOP NOTE: Be careful not to damage the tire pressure monitor due to interference between the sensor and tire bead.

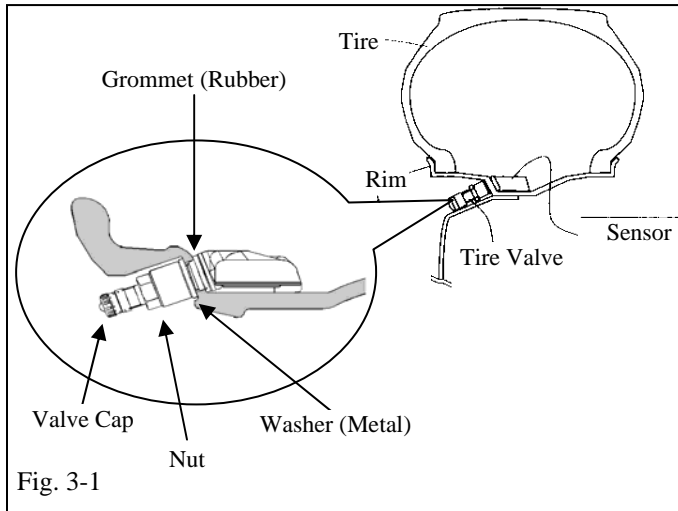
- (d) Remove the sensor from the tire and remove the bead on the lower side as in usual tire removal operation.
- (e) Dismount OE tire from the OE wheel.

3. Install Tire Pressure Monitor Valve Sub-assembly to Accessory Wheel.

- (a) Visually check that there is no deformation or damage on the tire pressure monitor valve sub-assembly.
- (b) Check that the rim is clean.
- (c) Change the original grommet to a new one if the grommet is damaged.

STOP NOTE: Damaged grommet is NOT re-usable.

- (d) Check that the grommet, washer and nut are clean.



(e) Insert the tire pressure monitor valve sub-assembly into the valve installation hole from the inside of the rim and bring the valve stem to the outside. (Fig. 3-1).

(1) Insert the tire pressure monitor valve sub-assembly so that "Manufacturer's" mark is visible.



NOTE: Incorrect orientation of pressure monitor sub-assembly may cause damage and prevent signal transmission during high-speed running.

(f) Install the washer and secure with the nut.

(g) Tighten the nut to 4.0 N-m (36 lbf-in).

4. Tire Mounting.

(a) Mount the dis-mounted 16" tire on alloy wheel. Ensure the marked side is facing inward.

(b) Use tire lube on tire bead and bead location on wheel prior to mounting the tire.

(c) Position the wheel on the mounting machine with the sensor at ~ 7 o'clock position (shaded area in Fig. 4-1)

(1) Mount/dismount head is considered as 12 o'clock position.

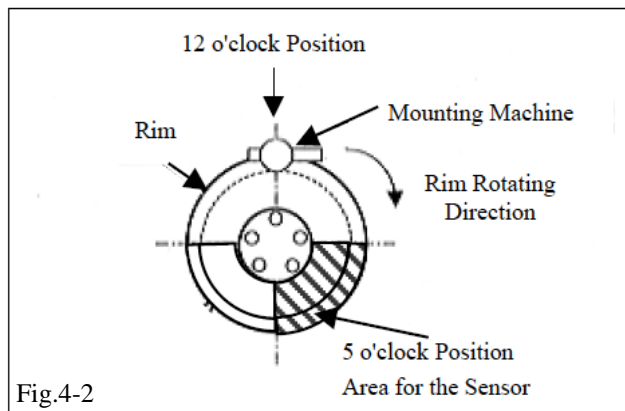
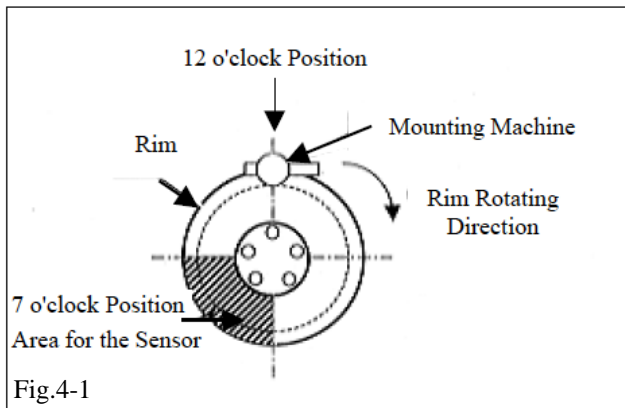
(d) Mount the lower tire bead.





NOTE: If the sensor is positioned outside this area, it generates interference with the tire bead, causing possible damage to the sensor.


(e) Re-position the wheel on the mounting machine with the sensor at ~ 5 o'clock position (shaded area in Fig. 4-2).

(f) Mount upper tire bead.



 **NOTE:** Make sure that the tire bead and tool do not interfere with the main body of the sensor and the bead does not clamp the sensor.

 (g) To seat tire bead, inflate tire beyond 33 PSI but not more than the maximum tire bead seat pressure indicated on the tire sidewall. If it is not indicated use 40 PSI as a limit. If tire bead is not seated when pressure registers 40 PSI, deflate the tire and re-inflate to seat the bead. Regulate tire pressure to the value on the driver's side B-pillar label.

 (h) After inflating the tire, re-tighten the nut of tire pressure monitor valve sub-assembly to 4.0 N-m (36 lbf-in)

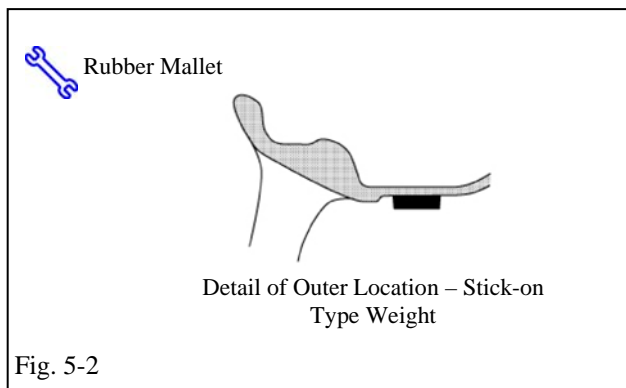
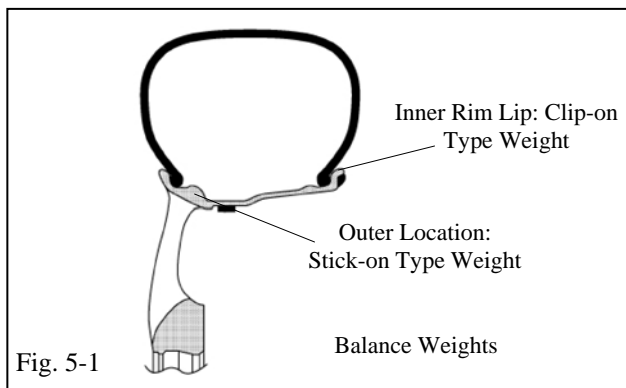
5. Wheel Balancing.

NOTES: Application temperature for stick-on type weight: above 10°C (50°F). It is good practice to apply the stick-on type weights in sections comprising no more than 5 or 6 individual weight segments. This wheel requires stick-on weight on outer and clip-on weight on inner rim for correct balancing.

(a) Mount wheel/tire on wheel balance machine and balance in **DYNAMIC MODE with LOAD ROLLER ENABLED**. If applicable (enabling the load roller ensures proper bead seating.) Use clip-type balance weights on the inner rim lip and stick-on type weights at outer location. (Fig. 5-1 & Fig. 5-2).

(b) Prior to mounting stick-on type weight, wipe down the wheel weight mounting location on wheel with a clean lint-free dry cloth. Ensure that location is clean and dry. Apply stick-on weights at perimeter location identified by dynamic balance machine as shown. Use rubber mallet, if required, to achieve complete adhesion of stick-on type weight.

NOTES: Maximum clip-on type weight on inner lip is 100 g. Maximum stick-on type



weight at outer location is 140 g. If removal and replacement of stick type weight is necessary, then remove the weights using a nylon removal tool. Clean the surface with a clean cloth using an approved cleaner. Wipe the surface dry before re-applying a new weight. **(DO NOT RE-USE STICK-ON WEIGHTS.)**

- (c) Re-spin the wheel on the machine with **LOAD ROLLER DISABLED** (if applicable) and note the indicated remainder unbalance. The maximum permitted imbalance is 8 g at inner lip and 8 g at outer location.

6. Vehicle Wheel/Tire Installation.



- (a) Install wheel/tire assembly on vehicle in the marked positions (FR, FL, RR, RL). Hand start the lug nuts. Tighten the lug nuts in sequence 1 through 4. (Fig. 6-1)

- (1) Ensure that the socket does not scuff the wheel.



- (2) Tighten lug nuts to 76 lbf-ft (103 N-m) using a torque wrench. Verify during process only.

- (b) Lower the vehicle.



- (c) Tire pressure should be adjusted to the value recommended in the owner's manual or B-pillar label located on the driver's side for this vehicle ± 2 PSI. Verify during process only. Install valve stem cap.

7. Center Cap Installation.

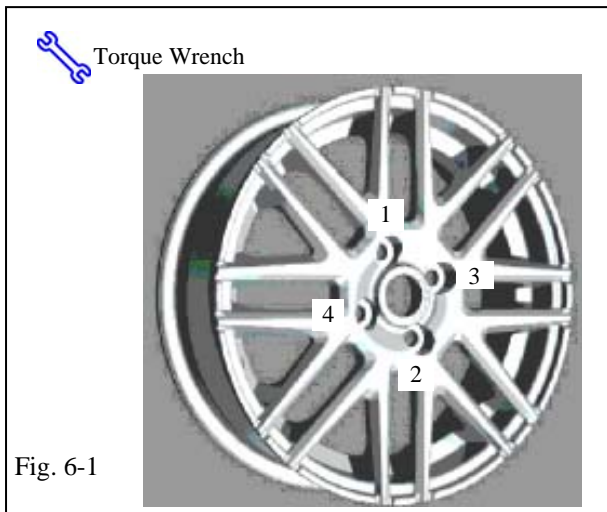


- (a) Install center caps on wheels. Gently push cap into wheel until cap snaps into place.

8. Customer Care Card.



- (a) Place the customer care card in the glove box.





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

Check:

Accessory Function Checks

Inspect Lug Nuts & Center Cap

 Lug Nut Tightness

 Correct Tire Pressure

Look For:

Four lug nuts must be installed on each wheel with center cap

Tighten to 76 lbf-ft (103 N-m) of torque.

Tire pressure is owner's manual or B-pillar label value ± 2 PSI. Verify during process only. Check pressure during installation.