



Southeast Toyota Distributors, LLC

## Southeast Toyota Distributors, LLC Accessory Installation Instructions

### 2020 4Runner Gunner 20" Wheel

Year & Model:	2020 4Runner
Part Number:	00041-89160
Accessory Code:	AC1000
PIO / DIO:	PIO / DIO
Business Partner:	J58

### Conflicts

Note: None

### General Applicability

#### Fits Models:

Note: 2020 4Runner Models

### Additional Items Required For Installation

Item#	Description:
1.	(1) PTR25-89150-Trim Kit
2.	(1) Balance weights stick on tape
3.	(1) Torque Audit Sheet (PIO, Only) <b>Note: Torque Audit Sheet is required for PIO installation if Atlas Copco automated torque equipment is NOT being used.</b> Torque Sheet will be used as part of PIO Atlas Copco periodic checks as scheduled intervals.
4.	12x1.5 Lugnuts P/N 00041-12MMLUG

### Sequence of Application

Item#	Accessory:
1	• PTR25-89150 – Trim Kit

**SPECIAL NOTE: Installation Sequences**  
After TMS & Safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances the suggested sequence is written for one associate to install & in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation steps in any order to make the installation as efficient as possible while maintaining consistent quality.

### Recommended Too

Safety Tools	Notes
Safety Glasses & Seat Protection	Blanket
Installation Tools	Notes
Wheel Balancing Machine	Hunter 9700 or Equivalent
Tire Mounting Machine	Hunter or Corgi
Torque Wrench	0-100 ft. lbs. (135 N-m)
Hunter Cone	219 Small Side
Torque Wrench	0-75 in. lbs. (8.5 N-m)
Socket	21mm Thin Wall Deep well
Rubber Mallet	
Clean Lint-Free Cloth	
Nylon Panel Removal Tool	Toyota SST # 00002-06001-01
Valve Stem Removal Tool	Schraeder Valve Type
Wire Brush	Hand Held Size
Special Tools	Notes
Foot Brake Application Tool	Snap-on B240A Pedal Jack or equivalent.
Special Chemicals	Notes
Tire Lube	Magnum Super Slick
Cleaner	3M Prep Sol-70 or equiv.

### Legends


	<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.
	<b>REGULATORY MARK:</b> This mark indicates that the component is related to regulatory compliance.
	<b>VIDEO:</b> This image indicates a video to show a installation procedure, PIO Only.

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**Assembly Technical Specifications:**

	Wheel Size:	20X9"
	Wheel Offset:	+18mm
	Maximum Radial Wheel Run Out T.I.R	0.012in (0.3mm)
	Maximum Lateral Wheel Run Out T.I.R	0.012in (0.3mm)
	TPMS sensor:	20 and 40 degree
	Recommended Tire:	Nitto Terra Grappler G2
	Tire Size: 275/55R20	275/55/R20
	Tire SKU:	215220
Lug Nut Applicability:		OE Mag Shank or 00041-12MMLUG

**Tire Mounting Specifications:**

Initial orientation of Tire on Wheel:	Yellow dot on tire to valve stem
Inflation Pressure:	32 psi front and 34 psi rear
Inflation Pressure Door Jamb Sticker Required:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
TPMS sensor nut torque:	35 in.lbs (4.0 N-m)

**Assembly Balance Tools & Adapters:**

PIO Preferred Collet: Hub Bore 106.1	#219 <ul style="list-style-type: none"> <li>Hunter Bulls-Eye 192-219-1</li> <li>Small side</li> </ul>	
DIO Alternate Collet	#169 <ul style="list-style-type: none"> <li>Hunter Direct Fit 192-169-2</li> <li>Small side</li> </ul>	
Flange Plate and finger adapters:	<ul style="list-style-type: none"> <li>Hunter Flange Plate C <ul style="list-style-type: none"> <li>175-387-2</li> </ul> </li> <li>Hunter taper head studs <ul style="list-style-type: none"> <li>175-389-2 (80mm)</li> <li>-or-</li> <li>175-391-2 (100mm)</li> </ul> </li> </ul>	

**Assembly Balance Criteria:**

Maximum Allowable Road Force	25lbs
Maximum weight- Inner plane	144g (5oz)
Maximum weight- Outer plane	144g (5oz)
Maximum Total weight	288g (10oz)
Maximum allowable imbalance during check spin	OK / OK (*1)

*Note: SET balancers utilize Hunter Smart Weight Technology. Allowable imbalance is built into Hunter software. "OK" must be displayed for inner and outer balance planes before releasing the vehicle.*

**Vehicle installation:**

Lug Nut torque	83 ft.lbs
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**Kit/Hardware Bag Contents:**

Item #	Quantity	Description
1.	4	Alloy Wheel
2.	1 per Wheel	Center cap Black – 00041-89600-01

**Parts for Installation:**

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, re-checking torque procedure, etc.).
- Vehicle Disassembly/ Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

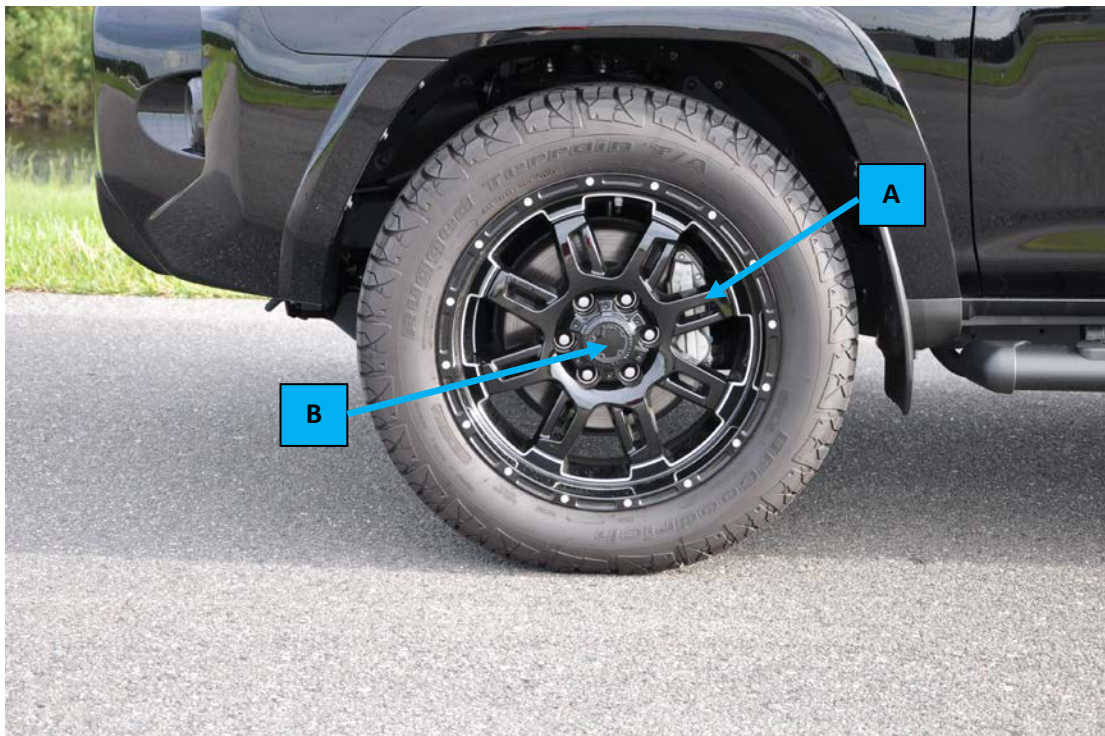
Item #	Quantity	Description
1.	4	Alloy Wheel
2.	1 per Wheel	Center cap Black



**Service & Warranty Information:**

Image Key	Parts information		Warranty Information	
	Part Number	Description	Warranty Time	Labor Op. Code
A	00041-89160	4Runner 20" Black Gunner Wheel	0.5	AWH011
B	00041-89600-01	1pc Black Center Cap	0.2	AWH021
N/A	00041-89600-02	6pc 12mm Mag Lug	N/A	N/A
Note: Combo Code A, AA, or AAA applicable to AWH011 for additional 0.3 hours per wheel replaced				

If you are a dealer located outside of the Southeast Region, please contact the SET Accessory Warranty Department at (888) 851-2722 or email [Accessory.Warranty@SEToyota.com](mailto:Accessory.Warranty@SEToyota.com) for claim payment instructions.

**Image:**



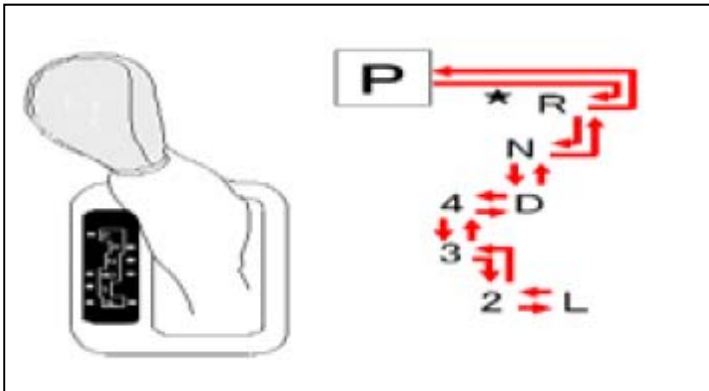


Figure 1

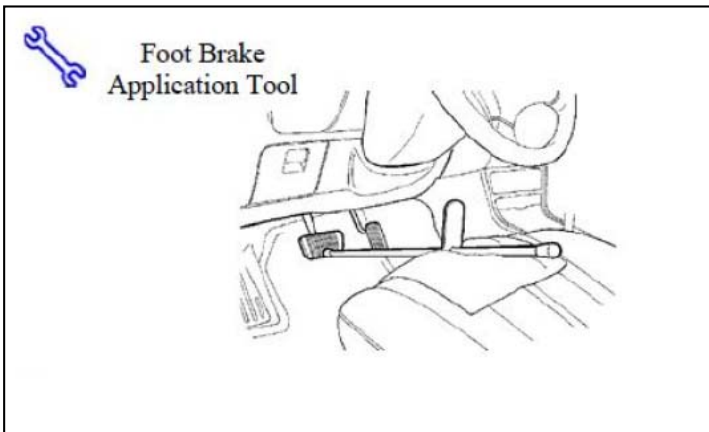


Figure 2

### Vehicle Preparation and Installation



1. Firmly apply parking brake.



2. Put transmission in "P" (automatic) or reverse (manual). Lift Vehicle. See Figure 1.

3. Add seat protection (blanket) and apply foot brake using foot brake application tool. Lift Vehicle. See Figure 2.

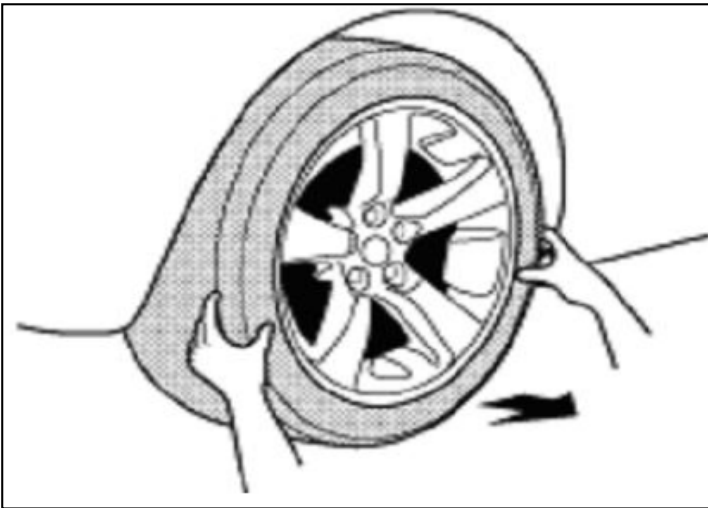


Figure 3a

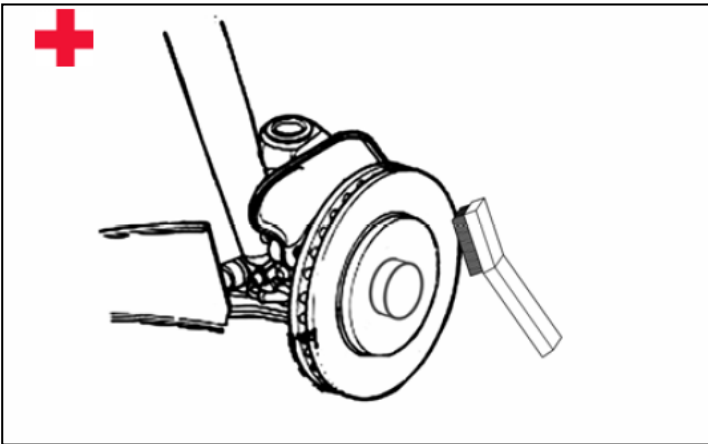


Figure 3b

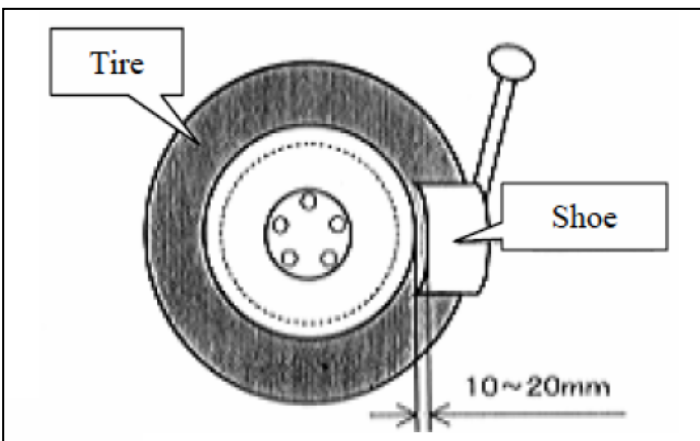


Figure 4

- +** 4. Remove OE wheel and tire assemblies from the vehicle. Wear safety glasses while removing wheels. See Figure 3a.

Note: Steel Wheels use **00041-12MMLUG**  
Alloy Wheels -Save & reuse factory nuts.

### Dealer Installation Only, if applicable

Remove any corrosion on the mounting surface of the vehicle with a wire brush. Wear safety glasses to protect against dust. See Figure 3b.

5. 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 re-installation later. Let the pressure sensor drop inside the tire.  
c. Carefully separate the upper tire bead from the wheel rim. See Figure 4.



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

- d. Break the bead on the lower side and remove the sensor from the tire. Remove the bead on the lower side as usual tire removal process.  
e. Dismount OE tire from the OE wheel.



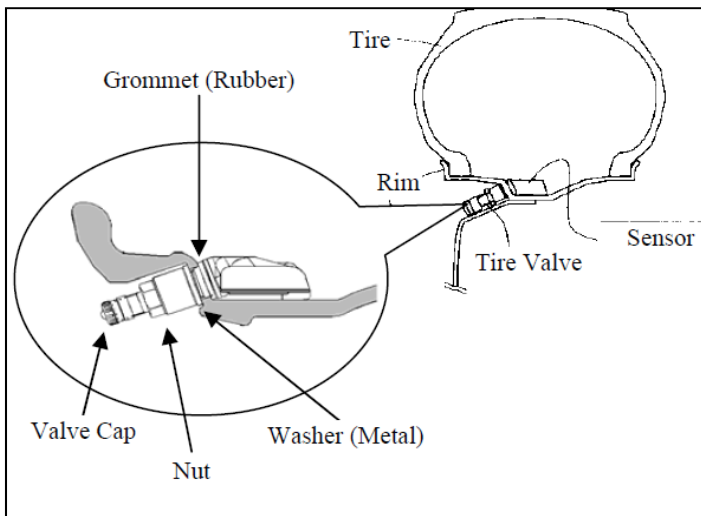


Figure 5

6. 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.



**NOTE: Damaged grommet is NOT reusable.**

- 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. See Figure 5.
- f. Install the washer and secure with the nut. Tighten the nut. **Torque to spec, page 3.**



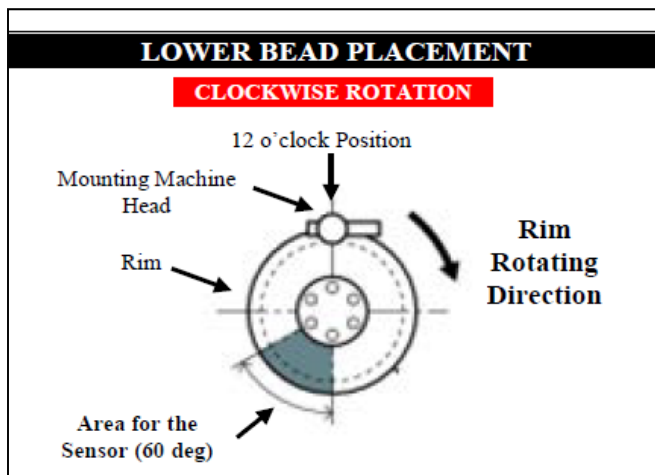


Figure 6a

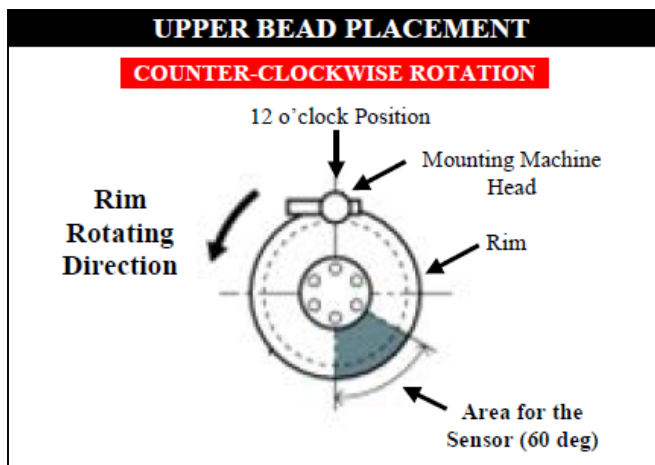


Figure 6b

## 7. Tire Mounting.

- Use tire lube on tire bead and bead location on wheel prior to mounting the tire.



**Note: Use Only Approved lubricant made for tire beads.**

- Position the wheel on the mounting machine with the sensor at ~ 7 o'clock position. See Figure 6a (Shaded Area). Mount/dismount head is considered as 12 o'clock Position.
- 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.**

- Re-position the wheel on the mounting machine with the sensor at ~ 5 o'clock position. See Figure 6b (Shaded Area).
- Mount upper tire bead.

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

- To seat tire bead, inflate tire beyond 35 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 New Tire pressure label value. - PIO Only.

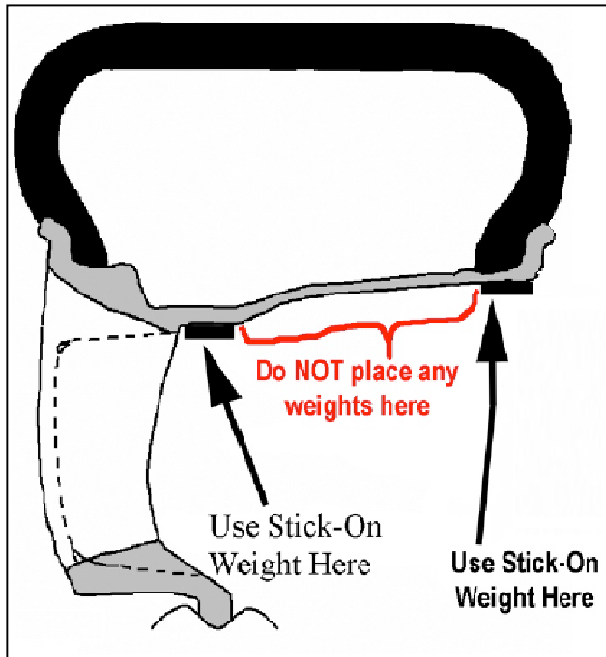


Figure 7a

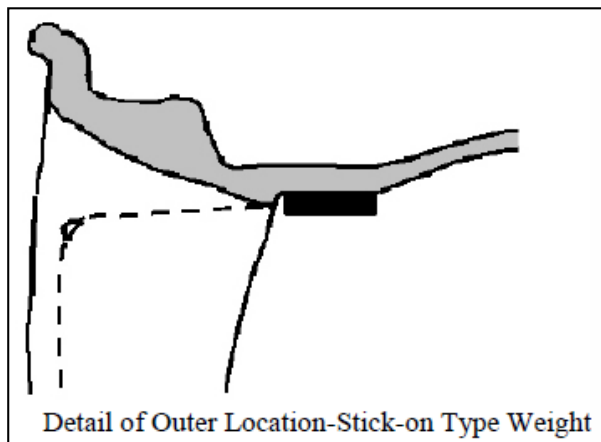


Figure 7b



## 8. Wheel Balancing.

**NOTE: Application temperature for stick-on typeweight is above 50°F (10°C).**

- a. Mount wheel/tire on wheel balance machine & balance in DYNAMIC MODE. Enable the LOAD ROLLER, if applicable, to ensure proper bead seating.

**Note: Use 3M brand TN-4023 or equivalent low-profile stick-on type weights. Weights should be no taller than 7 mm in height. DO NOT stack weights on top of each other, nor side by side. This is REQUIRED for proper brake caliper clearance.**

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

**NOTE: If removal and replacement of stick-on type weight is necessary, then remove the weight using a nylon removal tool. Clean the surface with a clean cloth using locally approved cleaning solution. Wipe the surface dry before re-applying new weight(s). (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 remaining unbalance. **MUST READ OK OK**



Tire Pressure Warning System (Valve Stem)

Figure 8

9. Center Cap Installation.

- a. Align center caps to the wheel and install.

10. Wheel/Tire Assembly Installation.

- a. Install wheel and tire assemblies on vehicle. **Note:** During wheel installation, ensure the TPWS is located approximately in the 5 o'clock position. Hand-start each lug nut, then starting to the left of the TPWS tighten in a clockwise star pattern. Note: **Do NOT** use Conical-Seat Acorn lug nuts. These Wheels require Flat-Seat Lugnuts. Ensure that the socket does not scuff the wheels. Figure 8. Torque to spec. page 3.



- b. Lower the vehicle.
- c. Discard the OE take-off wheels per local regulations.

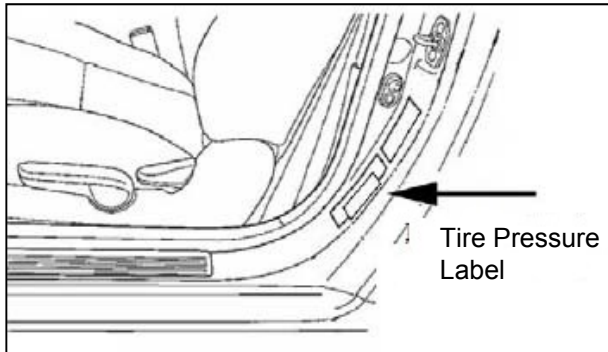


Figure 9

## 11. Tire Pressure Labels.

Tire Pressure label, located on the driver's side doorjamb, for proper inflation pressure. See Figure 9 & 10.



Figure 10

12. Install door jamb tire pressure label  
See figure 10.

Figure 11

## 13. Install door jamb tire pressure label and upgrade tire sticker, fig. 11.


## 14. Modification of wheel well &amp; front bumper required. Reference PTR25-89150 - Trim Kit.

## 15. Place Warranty Statement in the glove box, DIO Only.

**FUNCTION AND QUALITY CHECK**

These points **MUST** be checked to ensure a quality installation.

**ACCESSORY FUNCTION CHECK****LOOK FOR:**

- |                      |   |
|----------------------|---|
| ✓ Inspect lug nuts   | Six lug nuts must be installed on each wheel.   |
| ✓ Label placement    | Tire Pressure and if applicable Wheel Upgrade labels applied in proper location.                        |
| ✓ Lug nut tightness  |  Torque to 83 ft. lbs. |
| ✓ Tire pressure      | Low tire pressure warning system.   |
| ✓ Center caps        | Correctly fitted.   |
| ✓ Clean wheel & tire | Remove all stickers and marks on tires/wheels.  |
| ✓ Warranty Statement | Place Warranty Statement in the glove box, DIO Only.  |

**ACCESSORY FUNCTION CHECK****LOOK FOR:**

- |  |   |
|--|---|
| ✓ Road test (for dealer installation only) | Excessive noise or wheels out of balance. |
|--|---|



## LIMITED WARRANTY – SOUTHEAST TOYOTA

**SOUTHEAST TOYOTA DISTRIBUTORS, LLC** ("we," "our" and "us") provides the following limited warranty on our accessories, excluding tires, ("Accessories" or "Accessory") installed on a Toyota. This limited warranty is not provided by and does not bind or provide benefit to the vehicle dealer, the manufacturer, or Toyota Motor Sales, U.S.A., Inc. This limited warranty does not apply to tires; please consult the tire manufacturer and/or its materials accompanying the vehicle for any warranty terms concerning tires. This limited warranty also does not apply to ToyoGuard Exterior Paint Sealant and ToyoGuard Interior Protector; please consult the ToyoGuard Limited Warranty Certificate for the warranty terms concerning those products.

### SCOPE OF LIMITED WARRANTY:

#### A. Protection:

- i. **Accessories Installed by Southeast Toyota Distributors, LLC on a new Toyota vehicle.** We warrant that, for a period of 36 months or 36,000 miles, whichever occurs first, we will repair or replace (includes labor), free of charge, any defect in such an Accessory due to faulty material or workmanship, or, at our option, provide a full refund of the purchase price of the Accessory. The warranty period begins on the vehicle's In-Service Date, which is the first date the new vehicle is either delivered to an ultimate purchaser, leased, or used as a company car or demonstrator. Accessories installed by Southeast Toyota Distributors, LLC are identified on the vehicle's window sticker (Monroney Label).
- ii. **Accessories Installed by a Toyota Dealer on a Toyota vehicle.** We warrant that, for 12 months, regardless of mileage, from the date such an Accessory was installed on the vehicle or the remainder of the Toyota new vehicle warranty, whichever is longer, we will repair or replace (includes labor), free of charge, any defect in the Accessory due to faulty material or workmanship, or, at our option, provide a full refund of the purchase price of the Accessory. For a new vehicle, the warranty period begins on the vehicle's In-Service Date, which is the first date the new vehicle is either delivered to an ultimate purchaser, leased, or used as a company car or demonstrator.
- iii. **Accessories purchased from a Toyota Dealer but not installed by the Toyota Dealer.** We warrant that, for a period of 12 months, regardless of mileage, from the date the accessory was purchased, we will repair or replace (does not include labor), free of charge, any defect in the Accessory due to faulty material or workmanship, or, at our option, provide a full refund of the purchase price of the Accessory.

**B. Limitation of Warranty.** This limited warranty does not apply to, and we will not repair, replace, or reimburse you for: (1) wheel balancing and wheel alignments, except for one wheel balancing or alignment during the first 12 months or 12,000 miles, whichever occurs first, from the vehicle's In-Service Date, as defined above, (2) abrasions or dents, whatever their cause, and any failure or damage resulting directly or indirectly from accidents, collisions, impacts from foreign objects, fire, theft, larceny, explosion, malicious mischief, vandalism, civil commotion, riots, war, or any other similar causes, (3) any failure or damage resulting directly or indirectly from lightning, windstorms, hail, water, floods, subfreezing temperatures, airborne chemicals, tree sap, dust, salt, and any other environmental conditions or similar causes, (4) any failure or damage caused by: (a) a failure of any part, other than the Accessory, (b) any misuse, abuse, improper towing, negligence or lack of maintenance of the vehicle or Accessory, (c) the alteration, modification or repair of the Accessory by anyone other than persons expressly authorized by us to perform such alteration, modification or repair, or (d) the use of the vehicle for commercial purposes, competitive driving or racing, (5) any failure or damage, if the Accessory has not been installed according to instructions, (6) any failure or damage occurring outside of Canada, the United States of America, its territories or possessions, (7) except to the extent required by the state whose laws govern this limited warranty, any consequential, secondary, or unreasonable costs that may be suffered as a result of the need to repair or replace the Accessory, including without limitation any loss of use of the vehicle, road service, towing, storage charges, inconvenience, loss of wages and/or income, additional expense incurred, loss of transportation, rental car expense, or any derivative damage to persons or things other than the Accessory, including other parts of the vehicle, or (8) liability for damage to property or for injury to or death of any person, arising out of the operation, maintenance or use of your vehicle whether or not related to the covered Accessory.

**C. Exclusive Remedy.** If there is a valid claim under this limited warranty for a defect due to faulty material or workmanship in the Accessory, we will, at our option, either: (i) repair, (ii) replace or (iii) provide a full refund of the purchase price of the Accessory. We have no other obligations under this limited warranty. Refunds will be made to the vehicle owner. If the vehicle is leased, the refund will be made to the leasing company.

**HOW TO MAKE A CLAIM:** In the event of a warranty claim, please contact the nearest Toyota dealer to arrange for repairs. The dealership must receive our prior authorization before making repairs covered by this limited warranty. The dealer will contact Southeast Toyota Distributors, LLC at 1-888-851-2722, select option #5 (Warranty Department), then option #4 (Repairs), for instructions on processing a warranty claim, if they are not already familiar with the process. If you have any questions or concerns regarding repairs covered by this limited warranty, please contact our **Customer Assistance Hotline at 1-800-301-6859**.

**OUR DISPUTE RESOLUTION PROGRAM:** Your satisfaction is our highest priority. In keeping with that focus, in the event that an issue arises related to this Limited Warranty, we invite you to call our Customer Assistance Hotline at 1-800-301-6859 to discuss it. In most cases, we expect that a satisfactory resolution of your issue can be reached through engagement with that Department. If our Customer Loyalty Department is unable to resolve your issue to your satisfaction, we offer a dispute resolution program administered by the National Center for Dispute Settlement (NCDS) ("the Program"). The purpose of the Program is to resolve disputes in an informal setting before an impartial arbitrator. The Program is free of charge to you (although you must bear the cost of any expert witness or attorney you elect to employ). You are required to complete the Program before exercising rights or seeking remedies under the federal Magnuson-Moss Warranty Act, 15 U.S.C. § 2301 et seq. ("the Act"). If you choose to seek remedies that are not created by the Act, you are not required to use the Program before pursuing such remedies – although the Program is still available to you to resolve the dispute. When utilizing the Program, you will need to provide (a) the vehicle identification number of your vehicle, (b) the identity of your selling and servicing dealerships, (c) the mileage on your vehicle at relevant times, (d) the date and nature of any relevant repairs, (e) legible copies of repair orders and other relevant documents, (f) a summary of the unresolved issue and the requested action, and (g) your contact information. In most cases, the dispute resolution process under the Program will be completed within forty (40) days of your submission of your request and will consist of steps such as an initial eligibility determination, an opportunity for you and us to submit information in writing relating to your claim, an oral hearing, and a decision from the arbitrator. A decision will be binding on you only if you choose to accept it. You may submit a request to NCDS by telephone at their toll free number: (877)-276-8848 or in writing at P.O. Box 463196, Mt. Clemens, MI 48046. You may obtain additional information regarding the Program at [www.ncdsusa.org](http://www.ncdsusa.org). In the event that the NCDS does not exist or no longer handles disputes for us at the time that you seek to submit a request, you may contact our **Customer Assistance Hotline at 1-800-301-6859** to obtain current information about our dispute resolution programs.

**GENERAL LIMITATION OF WARRANTY:** THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES OR LIABILITIES. IN NO EVENT SHALL WE BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSIONS OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE INFORMATION OR EXCLUSION MAY NOT APPLY. NO EXPRESS WARRANTY OF FITNESS OR MERCHANTABILITY IS GRANTED BY THIS LIMITED WARRANTY. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE DESCRIBED IN THIS DOCUMENT. ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH MAY BE APPLICABLE BY OPERATION OF LAW SHALL BE LIMITED TO THE PERIOD OF THIS WRITTEN LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY. THIS LIMITED WARRANTY PROVIDES SPECIFIC LEGAL RIGHTS, AND THERE MAY BE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, MUST BE BROUGHT WITHIN A PERIOD NOT EXCEEDING 12 MONTHS AFTER EXPIRATION OF THIS LIMITED WARRANTY. THE REMEDIES SPECIFIED HEREIN AND THOSE SPECIFIED BY APPLICABLE LAW ARE THE ONLY REMEDIES AVAILABLE. WE ASSUME NO OTHER OBLIGATION OR RESPONSIBILITY WITH REGARD TO THE ACCESSORY. WE NEITHER ASSUME, NOR AUTHORIZE ANYONE TO ASSUME FOR US, ANY ADDITIONAL LIABILITY IN CONNECTION HERewith.

**GENERAL:** This limited warranty describes the complete and exclusive rights that result from the purchase of Accessories. No oral representations or statements may be relied upon. This limited warranty may not be amended or modified, and additional rights may not be granted, unless in a written statement signed by one of our officers. This limited warranty shall be governed by the laws of the state where the vehicle is purchased, excluding laws concerning conflicts of law. We may delegate the performance of our duties and obligations and assign our rights and benefits hereunder. For inquiries regarding this limited warranty, we can be contacted directly at **Customer Assistance Hotline at 1-800-301-6859**, or by mail to: **Southeast Toyota Distributors, LLC, Attention: Customer Loyalty Department, 100 Jim Moran Boulevard, Deerfield Beach, Florida 33442.**