

Part Number: PTR20-34070

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Alloy Wheel, 16" x 8" x 1mm

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	1	TRD Center Cap
		P/N PTR20-34071
2	1	Lug nut set w/ Spline Tool
		P/N PTR27-34060

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1	1 per wheel	Tire: BFG All-Terrain T/A
		LT265/70R16 117S M+S
		(Recommended)
2	As Required	Balance Weights Stick-on
		AND Clip-on Type
3	As Required	TPMS 20 degree angle
		Bulk PPO P/N PTR42-3507B
		Single DIO P/N 42607-06011
		(For Styled Steel wheel swap)
4	1 per vehicle	Tire Pressure Door Jamb Label
	06 and earlier	Tacoma MDC # 00602-35085
	2007 +	Tacoma MDC # 00602-35015
5	1	Owners Manual Label
		MDC P/N 00602-35061
6	1 PPO	Vinyl Pouch PT276-06999
	DIO	Vinyl Pouch MDC#00602-06999

Conflicts

Recommended Tools

Personal & Vehicle	Notes		
Protection			
Safety Glasses			
Seat Protection	Blanket		
Special Tools	Notes		
Tire Changing Machine	Hunter TC3200,		
	or Corghi Artiglio Master 26		
	or equivalent.		
Wheel Balancing Machine	Hunter GSP9700,		
	or equivalent.		
Centering Cone	Hunter BACK-SIDE collet		
	192-169-2 or equiv.		
Wing Nut	Hunter 76-371-3 or equiv.		
Protector Sleeve	Hunter 106-82-2 or equiv.		
4.5 inch Cup w/ Sleeve	Hunter 175-316-1 or equiv.		
Foot Brake Application Too	I Snap-on B240A Pedal Jack		
	or equivalent.		
Toyota Diagnostic Tester	Software Version 13.2a or		
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NOTE: Part number of this accessory may not be the same as the part number shown.

or Techstream Device	newer required.
Installation Tools	Notes
Lug Nut Wrench	21 mm wrench flat
Air Ratchet	3/8" or 1/2" drive
Torque Wrench	20-150 ft-lbf (27-204 N-m)
Torque Wrench	30-150 in-lbf (3.3-17 N-m)
Sockets	11mm,12mm and 21 mm
	Deep Well, Thin Wall

Clean Lint-free Cloth	
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Valve Stem Removal Tool	Schraeder Valve Type
Wire Brush	Hand held size
Special Chemicals	Notes
Tire Lube	Myers or equivalent
Cleaner (for rework of stick	PPO/ DIO : VDC approved
on weights if needed)	cleaner.

General Applicability

Applicable to 6 on 5.5" P.C.D. lug pattern Tacoma with TPMS. Use only with tire size LT265/70R16

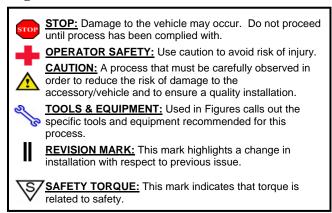
Recommended Sequence of Application

Item #	Accessory
1	TRD 16" Alloy Wheel & Tire
2	Optional Wheel Lock, PPO/DIO PTR27-34061
3	Port Brochure for Wheel Locks 00276-00890
4	Vinyl Lock Pouch PT276-06999 or 00602-06999

Vehicle Service Parts (May be required for reassembly)

Item #	Quantity Reqd.	Description
1	0-4 as needed	Valve Stem Grommet Fitting
		Kit (if required)
		P/N 04423-0E010
2	0-4 as needed	TPMS 20 degree angle
		Bulk PPO P/N PTR42-3507B
		Single DIO P/N 42607-06011

Legend



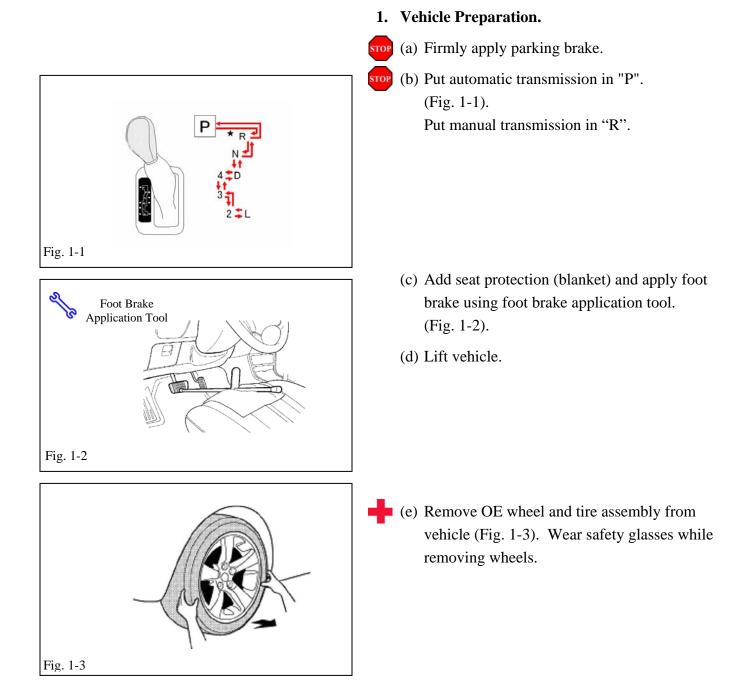
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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

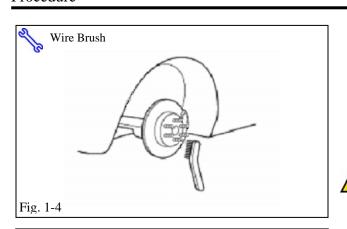
This document covers such items as:-

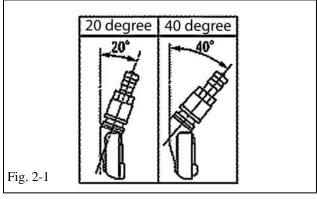
- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

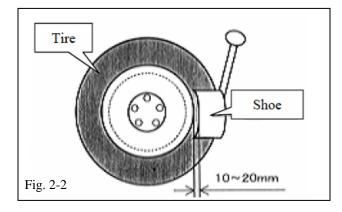
Please see your local dealer for a copy of this document.

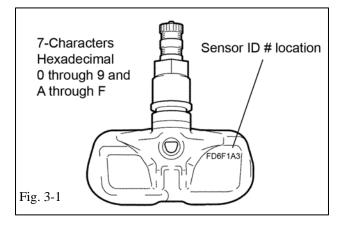


ALLOY WHEEL









- (f) If required, remove any corrosion on the mounting surface of the vehicle with a wire brush. Wear safety glasses to protect against any debris. (Fig. 1-4).
- 2. Remove Tire Pressure Monitor Valve Sub-assembly.
- NOTE: 20 degree Tire Pressure Sensors MUST stay with same vehicle!

40 degree sensors are NOT re-used on ANY Accessory Alloy Wheels! (Fig. 2-1)

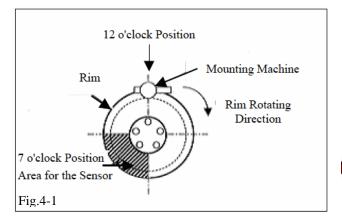
- (a) Remove the valve core and release pressure from the tire.
- (b) Remove the nut and washer and let the pressure sensor drop inside the tire.
- (c) Carefully separate the upper tire bead from the wheel rim. (Fig. 2-2).
- **NOTE:** Be careful not to damage the tire pressure monitor due to interference between the sensor and tire bead.
 - (d) Remove the sensor from the tire and remove the bead on the lower side as in the usual tire removal operation.
 - (e) Dismount OE tire from the OE wheel.

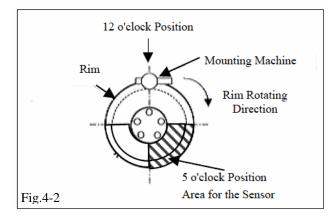
3. Install Tire Pressure Monitor Sensor (TPMS) Sub-assembly into TRD Accessory Wheels.

(a) If previously removed sensor is 20 degree sensor, proceed to step 3 (c). If previously removed sensor is 40 degree sensor, you must install new 20 degree sensors into accessory wheels. When installing new 20 degree sensors, you MUST record sensor ID codes for all 4 wheels and register these 4 new ID codes (Fig. 3-1) with the vehicle ECU. Each sensor has a unique sensor ID code. The sensor ID code is an 7 or 8 -

TOYOTA Procedure	TACOMA (16")	1995 -	TRD ALLOY WHEE
			character hexadecimal string comprised of numbers 0 through 9 and letters A through F See Fig 3-1 for example code and location.
		▲ (b) IMPORTANT! Record all four new TPMS ID codes onto a sheet of paper or in a shop notebook. These MUST be programmed into the vehicle ECU later in step 10 .
		(c)) Check that the wheel valve hole is clean and free of sharp edges or burrs.
		(d) Visually check that there is no deformation or damage on the tire pressure monitor valv sub-assembly. Check that the grommet, washer, and nut are all clean and good.
Grommet (Rubber)	Tire	STOP	NOTE : Change grommet to a new one <u>ONLY</u> IF the grommet is old or damage A damaged grommet is NOT re-usable.
Rim	Rim Tire Valve) Insert the tire pressure monitor valve sub- assembly into the wheel valve hole from the inside of the rim and bring the valve stem to the outside. (Fig. 3-2).
alve Cap Wa	asher (Metal)	(f)	Insert the tire pressure monitor valve sub- assembly so that the sensor ID number and text is visible. See Fig. 3-1 & 3-2.
. 3-2		m pr	OTE: Incorrect orientation of pressure onitor sub-assembly may cause damage and event signal transmission during high-speed nning.
		▲ (g) Install the washer on the outside of the whe and secure with the nut.
		\$	Tighten the nut to 36 in-lbf (4.0 N-m).

TOYOTA Procedure





4. Tire Mounting.

IMPORTANT:

Mount LT265/70R16 BF Goodrich All-Terrain tires on 16" TRD alloy wheels, with **white letters facing outward**.

- (a) Use tire lube on tire bead, and bead location on wheel, prior to mounting the tire.
- (b) Position the wheel on the mounting machine with the sensor at ~ 7 o'clock position (shaded area in Fig. 4-1)
- Mount/dismount head is considered as 12 o'clock Position.
- (c) Mount the lower tire bead.
- **NOTE:** If the sensor is positioned outside this area, it may generate interference with the tire bead, possibly causing damage to the sensor.
- (d) Re-position the wheel on the mounting machine with the sensor at ~ 5 o'clock position (shaded area in Fig. 4-2)
- (e) 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.
- (f) To seat tire bead, inflate tire beyond 35 PSI but not more the 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:



S/

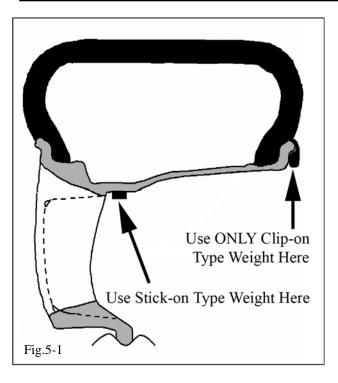
 FRONT:
 46 PSI (320 kPa)

 REAR:
 46 PSI (320 kPa)

Remove tire labels from tire tread prior to balancing. Be sure to <u>Re-Check torque</u> on TPMS nuts, and install valve stem caps.

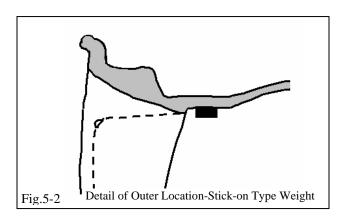
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RD ALLOY WHEEL



TOYOTA

Procedure



5. Wheel Balancing.

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

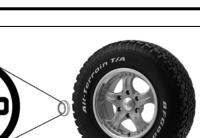
- (a) Mount wheel/tire on wheel balance machine and balance in DYNAMIC MODE. Enable the LOAD ROLLER, if applicable, to ensure proper bead seating. Use stick-on and clipon type weights. (Figs. 5-1 & 5-2)
- (b) Prior to mounting stick-on weight, wipe down the weight mounting location on wheel with a clean 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, as shown. Use a rubber mallet, if required, to achieve complete adhesion of stick-on type weight(s).

NOTE: Maximum weight is **200** \mathbf{g} (7.0 oz.) inner and **200** \mathbf{g} (7.0 oz.) outer. 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. The maximum permitted unbalance is 6 g (0.21 oz.) at inner and 6 g (0.21 oz) at outer location. If the indicated unbalance is not within permissible limit, add required additional balance weights, within specification, and re-spin the tire/wheel assembly.

TOYOTA

Procedure

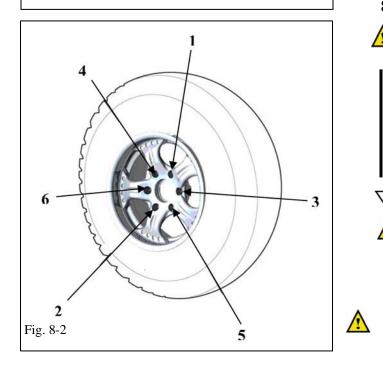


TACOMA (16'')

Fig. 7-1 Valve Stem at 6 O'Clock Position



Fig. 8-1 Wheel Lock also at 6 O'Clock Position



6. Tire Identification Number (TIN) Recording

ALLOY WHEEL

- For PPO Record ALL 4 Tire Identification
 Numbers (TINs) from the 4 new tires installed
 onto the vehicle. Record these TINs with the
 Vehicle Identification Number (VIN) on form
 TRD_Tacoma_16in_Tire_ID_Numbers_RevC.xls
 The TIN for the tire is a 12-character string
 located after the "DOT" symbol on the sidewall
 of the tire. Refer to CAD PPO Bulletin
 database as needed.
- \wedge

1995 -

For DIO - Record **ALL 4** Tire Identification Numbers (TINs) from the **4** new tires installed onto the vehicle. Record these TINs with the Vehicle Identification Number (VIN). Provide the tire information to your tire vendor as required by law.

7. Center Cap Installation.

(a) Install caps into wheels as shown in Fig. 7-1

8. Vehicle Wheel / Tire Installation.

(a) Install wheel/tire assemblies onto vehicle. Hand start the provided lug nuts during installation. IF wheel locks are being added, install one wheel lock per wheel (not including spare) at the 6 O'Clock position, nearest to valve stem on wheel (Fig. 8-1). Tighten lug nuts in a star sequence 1 through 6 e.g. (Fig. 8-2). Ensure that the socket does not scuff the wheels.

Tighten to **83 ft-lbf** (113 N-m) using a torque wrench. DO NOT USE an Impact Gun to install or damage may occur to Lugnuts!

(b) Lower the vehicle and Scrap and/or Recycle 3 of the 4 spline-drive Tools as only one is needed per vehicle. Also, if wheel locks are installed, Scrap and/or Recycle the 4 "takeoff" or unused spline-drive lugnuts.

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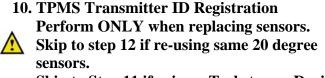
PPO/DIO

TRD ALLOY WHEEL



9. Tire Pressure Labels

- (a) Clean the surface and a small area around the OE tire pressure label located on the driver's side door jamb.
 - (b) Affix the 16 inch tire pressure label (Fig. 9-1)
 (MDC P/N 00602-35085) 2006 & earlier
 (MDC P/N 00602-35015) 2007 +
 directly over the OE tire pressure label.
- (c) Install Owner's Manual Label (MDC P/N 00602-35061) onto front cover of owner's manual. (Fig. 9-2) NOTE: Be sure NOT to cover any existing text or information.

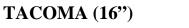


Skip to Step 11 if using a Techstream Device.

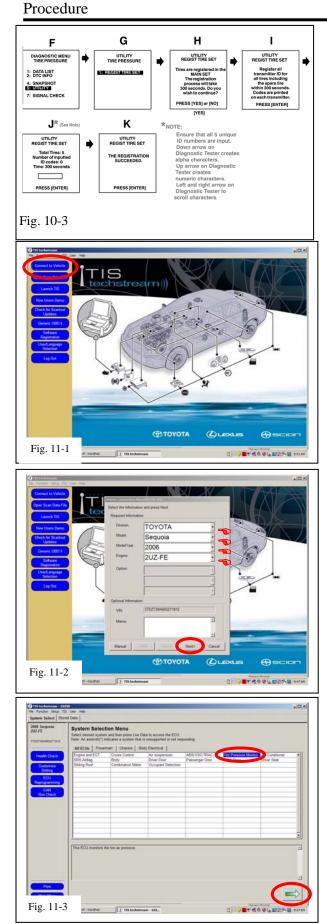
- (a) Complete this section after all four wheels have been installed.
- (b) Connect the hand-held tester to DLC3. (Fig. 10-1)
- \bigwedge (c) Turn the ignition switch to the ON position.
 - (d) Turn on Tester and Select UTILITY -REGIST TIRE following the hand-held tester screen prompts. (Fig. 10-2 & Fig. 10-3)
 - (e) Input the TPMS ID codes (ID1 to ID4) from Step 3(b) using the hand-held tester to transmit them to the tire pressure monitor ECU. NOTE: Spare MAY have TPMS.
 - (f) Make sure that the ID transmission condition "SUCCEEDED" is achieved.
 - (g) Confirm all the tire pressures are set to values recommended on the tire pressure label (Section 9.) for this vehicle.

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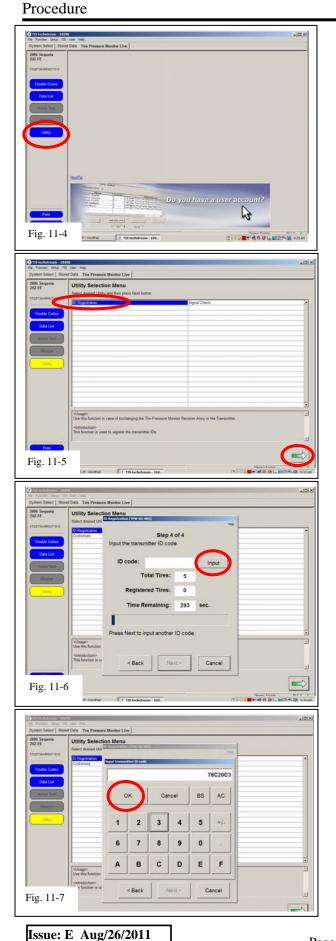
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NOTE: If this process is not completed within 5 minutes, the transmitter will return to normal operation mode and the process will need to be started over at step **10** (d).

11. TPMS Transmitter ID Registration Using Techstream.

- (a) Connect the Techstream to DLC3, as in Fig. 10-1.
- (b) Turn the ignition switch to ON position (do not start the vehicle) then turn the Techstream ON.
- (c) Start the Techstream application by clicking on the shortcut located on the Desktop.
- (d) Click "**Connect to Vehicle**" button. (Fig. 11-1)
- (e) Confirm that the information displayed on the Vehicle Connection Wizard is correct. If not, make the appropriate selections from the Drop Down Menus then click "Next". (Fig. 11-2)
- (f) Select "Tire Pressure Monitor" then click the green arrow located on the bottom right. (Fig. 11-3)





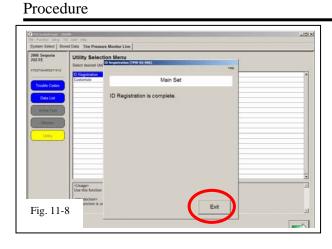
(g) Select "**UTILITY**" to begin input of new TPMS ID codes (Fig. 11-4).

(h) Select "**ID Registration**" then click the green arrow located at the bottom right corner. (Fig. 11-5)

(i) Select "Next" for Steps 1 through 3. Select"Input" in Step 4 to begin TPMS ID registration. (Fig. 11-6)

(j) Input the TPMS ID code then click "OK" Repeat the same procedure for all other TPMS ID codes. (Fig. 11-7) NOTE: If this process is not completed within 5 minutes, the transmitter will return to normal operation mode and process will need to be started over at step 11 (g). TOYOTA

TRD ALLOY WHEEL



2006 Sequola	Parameter	Value	Ueit	Parameter	Value	Unit
2UZ-FE	Mode Status	Normal	Unit	Co Battery Votage	Outri	Unit
	Man Tre	rearrian		O4 Battery Votage	Over	-
8102736AM8271812	2nd Tex			D5 Battery Voltage	Over	-
	Salart Sadet	Man	1	Salact SW Ide	Without	-
	Vahicle Speed		MPH	Indialization SIV Info	Wah	
resuble Codes	Registered ID1 Code	78C20C3				25128-01
	Registered IO2 Code	62BF0C3		ID1 Initial Threshold of Low-pressure	25.4	1.0
Data List	Registered ID3 Code	EABF0C3	-		1000	05-201-01
	Registered EA Code	806D0C3		62 Initial Threshold of Low-pressure	24.6	1.5
And A Links	Registered ID5 Code	131E0C3		©3 Initial Threshold of Low pressure	25.0	01000
	D Transmission Status	Finish		CO Initial Intesting of Compressure	49.9	1.7
C. Harry	Initialization Switch	OFF		O4 Initial Threshold of Low-pressure	25.0	ps(pauge
Utity	D1 Tate Inflation Pressure	35.2	beildande		60.0	1.1
	D2 Ten Inflation Pressure	MI	paijaupe	ID5 Initial Threshold of Low-pressure	25.4	(arefbride
	D2 fire situation Pressure	24.8	1	Number of DTC	0	
	IO3 Tire Inflation Pressure	26.5	paijpaupe			-
	E4 Tee Inflation Pressure	35.2	paijauge			-
	D6 Tire Inflation Pressure	34.8	pai(gauge			-
	D1 Temperature in Tire	66.2	F			
	D2 Temperature in Tire	71.6	F.			1
	CO Temperature in Tire	26	1			
	E4 Temperature in Tire	78.8	F			
	ID5 Temperature in Tire	77	F			
	D1 Battery Voltage	Over				
	lattery Voltage	Over				

- (k) After all TPMS ID numbers have been registered, "ID
 Registration is complete" text should be displayed. Click "Exit" to finish the registration process. (Fig. 11-8)
- Select "DATA LIST" to view and confirm the TPMS ID numbers have been correctly registered (Fig 11-9).

12. Breakdown of OE Tire & Wheel Assembly

For PPO

- (a) Sort product properly according to local regulations.
 - (b) Take-Off Tires get picked up by Dealer Tire.
- (c) Take-Off Wheels get salvaged according to local regulations.

For DIO

(a) Sort product properly according to local regulations.

13. Lugnut Tool Placement.

PPO/DIO: Place the Spline-Drive Lugnut Tool and Lock Key Tool (if applicable) into vinyl pouch (PT276-06999 or 00602-06999) and into the vehicle lug wrench tool bag. Place associated wheel lock paperwork into vehicle glove compartment.

14. Tire Pressure Initialization.

Perform Tire Pressure Warning System Initialization per PDS/TIS for the vehicle using the tire pressure reset button located on the dashboard area in the cabin. Follow example T-SB-0120-10 or equivalent, for your make and model year.

C ALLOY WHEEL

Checklist - these points MUST be che	ecked to ensure a quality installation
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Check:	Look For:
Inspect lug nuts.	Verify six lug nuts must be installed on each wheel.
🔧 🔲 Lug nut tightness.	Verify Torque is 83 ft-lbf (113 N-m).
Lug nut tool placement.	Verify Lugnut Tool is in place in vinyl pouch and inside, or next to, vehicle lug wrench tool bag.
Tire Pressure Labels	Verify Tire Pressure Label and Owner's Manual Labels are in place.
Correct Tire Pressure	Verify tire pressure is set to the value specified on the TRD Tire Pressure Label.
Tire Identification Numbers	 PPO: Ensure all 4 accessory Tire Identification Numbers are recorded with the Vehicle Identification Number on the sheet TRD_Tacoma_16in_Tire_ID_Numbers_RevC.xls Refer to CAD PPO Bulletin as needed.
Center Caps	DIO : Provide the tire information to your tire vendor as required by law.
	Verify center caps are securely in place on all 4 wheels.
Optional (DIO) Wheel Locks	Verify Wheel Lock Key Tool is in the vinyl pouch and in or next to vehicle lug wrench tool bag in vehicle and associated paperwork is placed into vehicle glove compartment.