

Part Number: PTR56-60120

Kit Contents

Item #	Quantity Reqd.	Description
1	4 per vehicle	F-SPORT Cast Al Wheel
		18" x 7.5" x 20mm

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	1 per wheel	F-SPORT Center Cap
		P/N PTR56-60120-AA

Additional Items Required For Installation

Item #	Quantity Reqd.	Description	
1	1 per vehicle	Lugnut Set w/ Spline Tool	
	_	& 4 Wheel Locks & Key Tool	
		P/N PTR27-60120	
		(Required & Sold Separately)	
2	1 per wheel	Tire: P265/60R18 109H M+S	
		(Recommended)	
3	As Required	Balance Weights Lo-Profile	
		Stick-on Type	
		3M TN-2023 or equivalent.	
4	As Required	TPMS 20 degree angle	
		Single DIO P/N 42607-33021	
5	0	Tire Pressure Label	
		Reuses OE Tire Pressure Label	
6	0	F-SPORT Owners Manual	
		Label Not needed	
7	1 per vehicle	Vinyl Wheel Lock Pouch	
	PPO	PT276-06999	
	DIO	00602-06999 (from the MDC)	
8	1 per vehicle	Lug Nut Attention Label	
	_	00602-00500 (from the MDC)	

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.
4.5 inch Cup w/ Sleeve	Hunter 175-353-1 or equiv.
4.5 inch protector Sleeve	Hunter 106-82-2 or equiv.
Foot Brake Application Tool	Snap-on B240A Pedal Jack
	or equivalent.
Toyota Diagnostic Tester	Software Version 13.2a or
or Techstream Device	newer required.

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

Installation Tools	Notes
Lug Nut Wrench	21 mm wrench flat
Rubber Mallet	
Torque Wrench	20-150 ft-lbf (27-204 N-m)
Torque Wrench	30-150 in-lbf (3.3-17 N-m)
Sockets	11mm and 21 mm
	Deep Well, Thin Wall
4 inch extension	For TPMS torque wrench
Valve Stem Torque Tool	Snap-On QDTPMS or equiv.

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 : locally approved
on weights if needed)	cleaner, e.g. No stronger
	than a 50-50 mix of Simple
	Green and Water.

General Applicability

Applicable to 2012+ Lexus GX460. Use with tire size P265/60R18 109H M+S

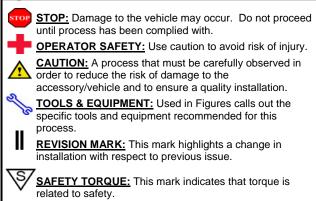
Recommended Sequence of Application

Item #	Accessory
1	F-SPORT cast 18"Alloy Wheel & 18" OE Tire
2	Wheel Lugs/Locks, PPO/DIO PN PTR27-60120
3	Wheel Lock Vinyl Pouch PT276-06999

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
		Single DIO P/N 42607-33021

Legend



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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.

18"

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

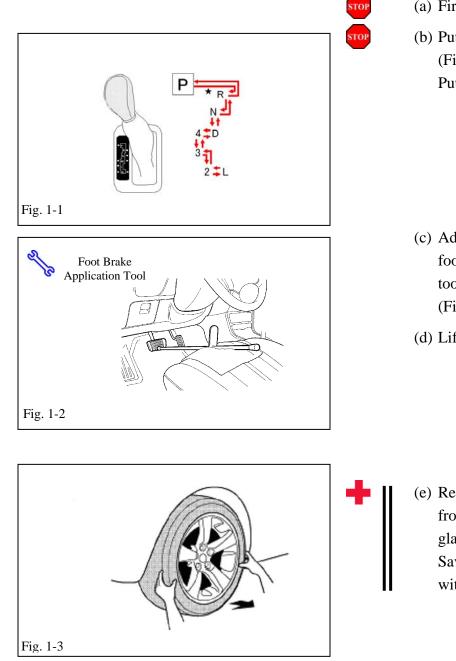
This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).

2012-

- 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.



1. Vehicle Preparation.

(a) Firmly apply parking brake.

PORT

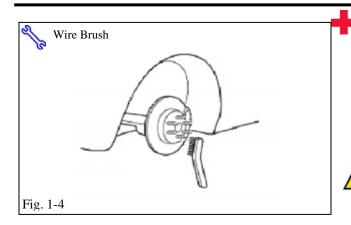
(b) Put automatic transmission in "P".(Fig. 1-1).Put manual transmission in "R".

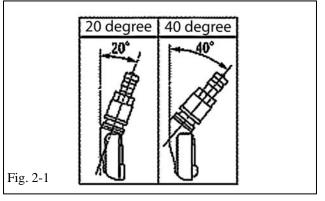
ALLOY WHEEL

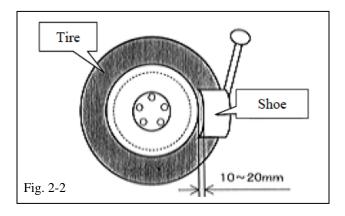
- (c) Add seat protection (blanket) and apply foot brake using foot brake application tool as needed.(Fig. 1-2).
- (d) Lift vehicle.

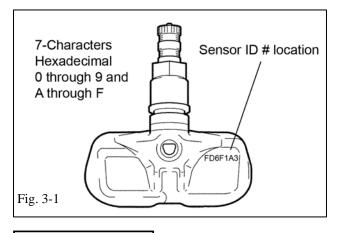
(e) Remove OE wheel and tire assembly from vehicle (Fig. 1-3). Wear safety glasses while removing wheels. NOTE: Save 6 of the OE flat-seat lugnuts for use with the customer's spare tire.











- (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 stem cores and release pressure from the tires.
- (b) Remove the nuts and washers and let the pressure sensors drop inside the tires.
- (c) Carefully separate the upper tire bead from the wheel rim. (Fig. 2-2).

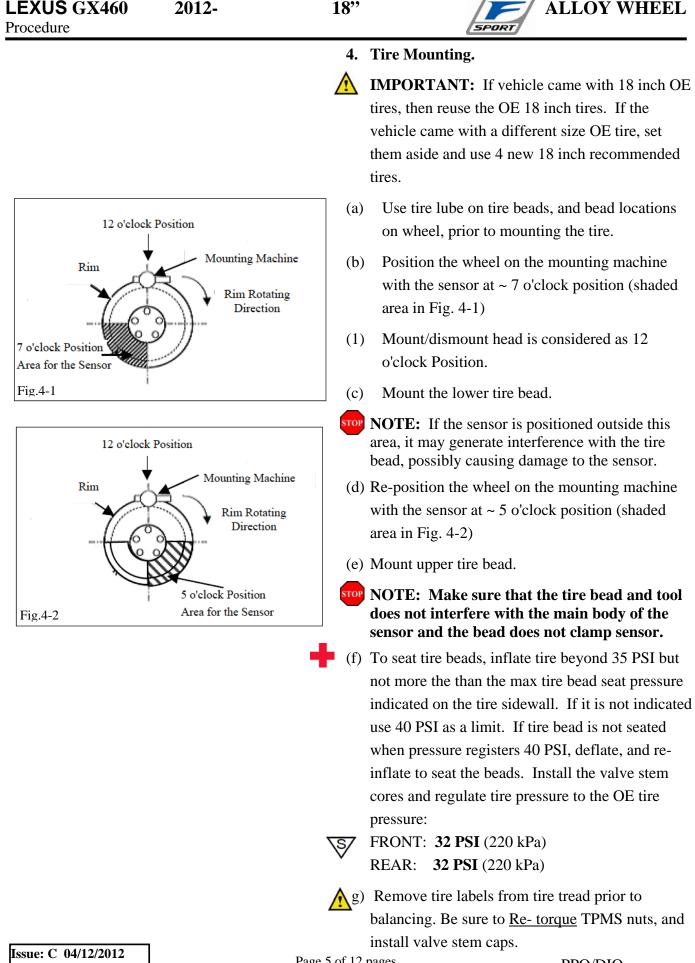
NOTE: Be careful not to damage the tire pressure monitor due to interference between the sensor and tire bead.

- (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.
- (f) Repeat for all 4 tires.

3. Install Tire Pressure Monitor Sensor (TPMS) Sub-assembly into F-SPORT Accy. 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.

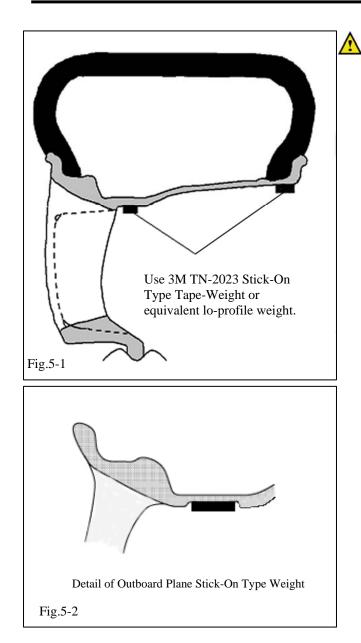
LEXUS GX460 Procedure	2012-	18"	ALLOY WHEEL
			Each sensor has a unique sensor ID code. The sensor ID code is an 7- character hexadecimal string comprised of numbers 0 through 9 and letters A through F. See Fig 3-1 for example code and location.
			 (b) IMPORTANT! Record all four new TPMS ID codes onto 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 valve sub-assembly. Check that the grommet, washer, and nut are all clean and good.
		STOP	NOTE : Change grommet to a new one <u>ONLY IF</u> the grommet is or was damaged. A damaged grommet is NOT re-usable.
Grommet (Rubber)	Tire		(e) 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).
	Rim Tire Valve	r	 (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.
Valve Cap Washer	r (Metal)	su	OTE: Incorrect orientation of pressure monitor b-assembly may cause damage and prevent gnal transmission during high-speed running.
Fig. 3-2			(g) Install the washer on the outside of the wheel and secure with the nut.
		S	Tighten the nut to 36 in-lbf (4.0 N-m).



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PPO/DIO





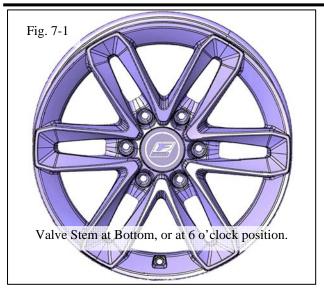
5. Wheel Balancing.

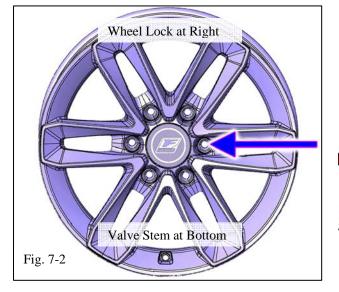
- **NOTE:** Application temperature for stick-on type weight is above 50° F (10° C). Weights should be no taller than $4 \sim 5$ mm in height.
- (a) Mount wheel/tire on wheel balance machine and balance in DYNAMIC MODE. Enable the LOAD ROLLER, if applicable, to ensure proper bead seating. Use **3M TN-2023** or equivalent lead-free stick-on type weights. (Figs. 5-1 & 5-2)
- (b) Prior to mounting stick-on weight, use a 50-50 Simple Green & Water solution (or equivalent locally approved cleaner), as needed, to clean the weight mounting location on wheel, then wipe down with a clean, dry, lint-free 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).

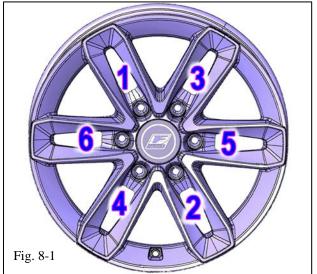
NOTE: Maximum stick-on type weight is **100 g** (3.5 oz.) inner plane and **100 g** (3.5 oz.) outer plane. If weight required exceeds this, place machine in STATIC mode and proceed. If weight required still exceeds limit, rotate tire 180 degrees relative to wheel and repeat step 5. If removal and replacement of stick-on type weight is necessary, 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. 

Procedure







- 6. Tire Identification Number (TIN) Recording NOTE: If reusing OE 18" tires skip to step 7.
 - **For PPO** Only Record Tire Identification Numbers (TINs) from any <u>new</u> tires that were installed onto the vehicle. Record these TINs with the Vehicle Identification Number (VIN) on form **F-SPORT_GX460_18in_Tire_ID_Numbers_RevA.xls** The TIN for the tire is an 11-character string located after the "DOT" symbol on the sidewall of the tire. Refer to **CAD PPO Bulletin** database as needed. Skip this step if reusing the OE 18" tires.
 - **For DIO** Record **ALL 4** Tire Identification Numbers (TINs) from any <u>new</u> 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. Skip this step if reusing the OE 18" tires.

7. Center Cap Installation.

IMPORTANT! Be sure to install center caps <u>BEFORE</u> installing wheels onto vehicle!

(a) Install caps into wheels as shown in Fig. 7-1 &
 7-2. Be sure to orient the F-SPORT logo relative to the valve hole (6 O'clock) as shown.

8. Vehicle Wheel / Tire Installation.

(a) Install wheel/tire assemblies onto vehicle. Hand start the recommended lug nuts. Install one wheel lock per wheel (excluding the spare) at the 3 O'clock, or far right position, (Fig 7.2). Tighten lug nuts in sequence 1 through 6 or equivalent star pattern. (Fig. 8-1). Ensure that the socket does not scuff the wheels.

DO <u>NOT</u> USE any Impact Gun to install or damage may occur to Lugnuts! Air ratchets are OK.
 Torque to 83 ft-lbf (112 N-m)

(b) Remove vehicle from lift.

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EXUS GX460 2012- rocedure	18"	ALLOY WHEEL
	9.	Tire Pressure Labels NOTE: Skip to step 10 if reusing the OE 18 inch tires.
	(a)	This accessory wheel re-uses the OE 18 inch tires and therefore does not require an accessory tire pressure label nor an accessory owner's manual label.
30 0 0 0 0 0 0	10.	TPMS Transmitter ID RegistrationPerform ONLY when replacing sensors.Skip to step 12 if re-using same 20 degreesensors.Skipto Step 11 if using a Techstream Device.
		(a) Complete this section after all four wheels have been installed.
Hand-Held Tester		(b) Connect the hand-held tester to DLC3. (Fig. 10-1)
. 10-1 Y DLC3 D05981	\wedge	(c) Turn the ignition switch to the ON position.
A B C TOYOTA AGNOSTIC TOOLSET ProGRAM CARD Version 12.01a CUSTOMZE 3: ECU REPROGRAM C		 (d) Turn on Tester and Select UTILITY - REGIST TIRE following the hand-held tester screen prompts. (Fig. 10-2 & Fig. 10-3)
11/19/04 PRESS [ENTER] D E VEHICLE SELECT EVVVEHICLE EVVVEHICLE D D D D D D D D D D D D D		(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 does NOT have TPMS.
lectappropriate model) G. THE PRESSURE S: CCS G. IMMOBILISER 7: SR8 AIRBAG 6: BODY		(f) Make sure that the ID transmission condition "SUCCEEDED" is achieved.
E OT LIST E DIGENOSTIC MENU TIRE PRESSURE E DIC NTO E DICENSIONE E]	(g) Confirm all the tire pressures are set to values recommended on the tire pressure label (Section 9.) for this vehicle.
		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).
Fig. 10-3		



TIS ΤΟΥΟΤΑ Que Fig. 11-1 TOYOTA Sequoia 2006 2UZ-FE Fig. 11-2 ------Fig. 11-3 13 Fig. 11-4

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).



Fig. 11-5 2006 54 2117.FE Step 4 of 4 in. < Back Cancel Fig. 11-6 Utility Selection Menu 78C20C BS AC 3 4 5 +1-8 9 0 7 F A в С D Е < Back Cancel Fig. 11-7 Fig. 11-8

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 (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).
- (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).



2006 Sequola	Parameter	Value	Unit	Parameter	Value	Unit
21/2.FE	Mode Status	Normal	-	CO Battery Voltage	Over	-
PTOTTONAMED TIPIT	Man Tay			O4 Battery Voltage	Over	
FTUETSKAMPUETTIETE	2nd Tee	5		ID5 Battery Voltage	Over	-
	Select Switch	Man	20.77	Select SW Info	Without	-
TOXAGE COMPT	Vahicle Speed	0	MPH	Initialization SW Info	With	
Trouble Codes	Repstered ID1 Code	78C20C3		C1 Initial Threshold of Low-pressure	25.4	2512840
	Registered ID2 Code	82BF0C3		C/1 Initial Threshold of Low-pressure	25.4	1.0
Data List	Registered ID3 Code	BABF0C3	-	C2 Initial Threshold of Low pressure	24.6	05108-04
	Registered ID4 Code	806D0C3		SU2 INS& Investoid of Low-pressure	24.9	1.0
And in Fight	Registered ID5 Code	131E0C3		C3 Initial Threshold of Low pressure	25.0	0110840
	D Transmission Status	Finish	1 2 1	Do what investor of Low-pressure	49.9	1.1
	Initialization Switch	OFF	1.1	C4 Initial Threshold of Low-pressure	25.0	ps(psup
Linna	Of The Inflation Pressure	36.2	beildanbe	C4 Initial Integnoid of Coll-pressure	- 49.4	1.7
UNIN	C2 Ten Infatori Pressure	34.8	pailgaupa	ID5 Initial Threshold of Low-pressure	25.4	te(bob
Unitey	O2 Tre Infation Pressure	34.8	1	Number of DTC	0	-
	C3 Ten Inflation Pressure	26.6	psigauge			
	CU THE STRACON PTERSURE	25.5	1			
	E4 Tee Inflation Pressure	35.2	paijaupe			-
	D5 Tire Inflation Pressure	34.8	paijauge			
	D1 Temperature in Tire	46.2			-	
	C2 Temperature in Tire	71.6	6			-
	C3 Temperature in Tire	16	1			
	C4 Temperature in Tire	78.8	E		-	-
	C6 Temperature in Tire	79.0	1		-	-
	D1 Battery Votage	Over	e			-
	lattery Voltage	Over				-
	attery votage.	Over				-





12. Breakdown of OE Tire & Wheel Assembly

For PPO

- (a) Sort product properly according to local regulations.
- (b) Take-Off Wheels & 18 of the 24 OE lugnuts get salvaged according to local regulations.

For DIO

(a) Sort product properly according to local regulations. Save 6 OE flat-seat lugnuts for vehicle spare. Include them in the vehicle per the next step.

13. Lugnut Tool Placement.

- (a) **PPO/DIO:** Place the Spline-Drive Lugnut Tool, Wheel Lock Key Tool, lock instruction card, and 6 spare OE flat-seat lugnuts into the vinyl pouch (PPO# PT276-06999 / DIO# 00602-06999).
- (b) Install Attention label on pouch below last line of text as shown in Figure 13-1.
- (c) Next, place pouch into the driver-side, rear storage compartment and secure vinyl pouch next to vehicle jack with OE elastic jack strap to prevent movement of pouch as shown in Figure 13-2. This should eliminate vibration and/or noise caused by shifting of pouch inside compartment while driving. Replace compartment cover.

Place associated wheel lock paperwork into plastic zip lock bag (if available) and into vehicle glove compartment.

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Checklist - these points MUST be checked to ensure 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 (112 N-m).
🔧 🔲 Lug nut tool placement.	Verify Lugnut Tool, Wheel Lock Tool & 6 OE Flat-Seat Lugnuts are in vinyl pouch, label is installed and in the appropriate
Tire Pressure Labels (not needed)	location in vehicle.
Correct Tire Pressure	
Tire Identification Numbers(Needed only if replacing the OE tires.)	Verify tire pressure is set to the value specified on the OE Tire Pressure Label.
Center Caps	 PPO: Ensure any new accessory Tire Identification Numbers are recorded with the Vehicle Identification Number on the sheet F-SPORT_GX460_18in_Tire_ID_Numbers_RevA.xls Refer to CAD PPO Bulletin as needed. DIO: Provide the tire information to your tire vendor as required by law. Verify center caps are securely in place on all 4 wheels.