



**Part Numbers:** FRONT REAR  
PTR59-53130 PTR59-53131

**Kit Contents**

Item #	Quantity Reqd.	Description
1	2 per vehicle	Cast Al Wheel 18" x 8." x 40mm
2	2per vehicle	Cast Al Wheel 18" x 8.5" x 45mm

**Hardware Bag Contents**

Item #	Quantity Reqd.	Description
1	1 per wheel	F-SPORT Center Cap PTR59-53130-AA

**Additional Items Required For Installation**

Item #	Quantity Reqd.	Description
1	1per frontwheel	Tire: Bridgestone Turanza ER33 BW 225/40R18 88Y DT000-08180-BS
2	1 per rear wheel	Tire: Bridgestone Turanza ER33 BW 255/35R18 90Y DT000-01454-BS
3	As Required	Balance Weights Stick-on Type 3M TN-4023 or equivalent.
4	1 Per Vehicle	Tire Pressure Label MDC P/N 00602-53150
5	1 Per Vehicle	Owner's Manual Label MDC P/N 00602-35062

**Conflicts**

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**Recommended Tools**

<b>Protection</b>	<b>Notes</b>
Safety Glasses	Seat Protection & Blanket(s)
<b>Special Tools</b>	<b>Notes</b>
Tire Changing Machine	Hunter TC3200, or equiv.
4 External Rubbr Clmp Jaws	Hunter RP6-8659 or equiv.
Wheel Balancing Machine	Hunter GSP9700 or equiv.
Centering Cone, Back Side	Hunter 192-52-2 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 or equiv.
Techstream	Software Version 9.00.026 or newer required.
Tire Press. Warning System	00002-TTPWS or equiv.

<b>Installation Tools</b>	<b>Notes</b>
Lug Nut Wrench	21 mm wrench flat
Rubber Mallet	Clean Lint-free Cloth
Torque Wrench	20-150 ft-lbf (27-204 N-m)
Torque Wrench	30-150 in-lbf (3.3-17 N-m)
Sockets: Deep well thin wall	11mm and 21 mm
4 inch extension	For TPMS torque wrench
Nylon Panel Removal Tool	Toyota SST # 00002-06001-01
Valve Stem Removal Tool	Schraeder Valve Type
Wire Brush	Hand held size
Valve Stem Removal Tool	Schraeder Valve Type
<b>Special Chemicals</b>	<b>Notes</b>
Tire Lube	Myers or equivalent
Cleaner (for rework if needed)	PPO/DIO: locally approved

**General Applicability**

Applicable to IS 250/IS 350
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**Recommended Sequence of Application**

Item #	Accessory
1	F-SPORT 18" Alloy Wheel & 18" Tire
2	F-SPORT Wheel Lugs/Locks

**Vehicle Service Parts** (May be required for reassembly)

Item #	Quantity Reqd.	Description
1	0 – 4 as needed	Valve Stem Grommet Fit Kit P/N 04423-33030 / -0E010
2	0 – 4 as needed consult EPC	TPMS 20 degree angle P/N 42607-33021 / -30060
3	0 – 4 as needed	Valve Stem Cap 90942-05037

**Legend**

	<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.



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.

### 1. Prepare the Vehicle.

-  (a) Firmly apply the parking brake.
-  (b) Put automatic transmission in "P" (Fig. 1-1). Put manual transmission in "R".

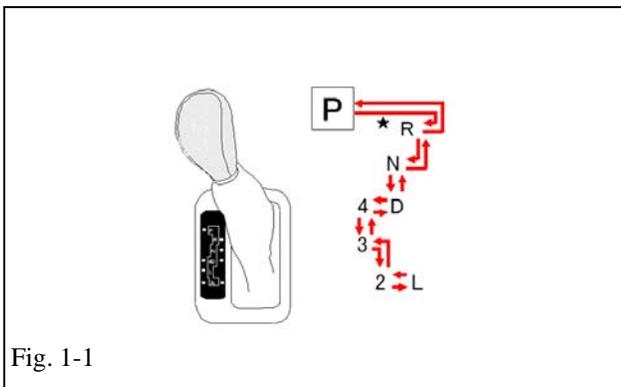


Fig. 1-1

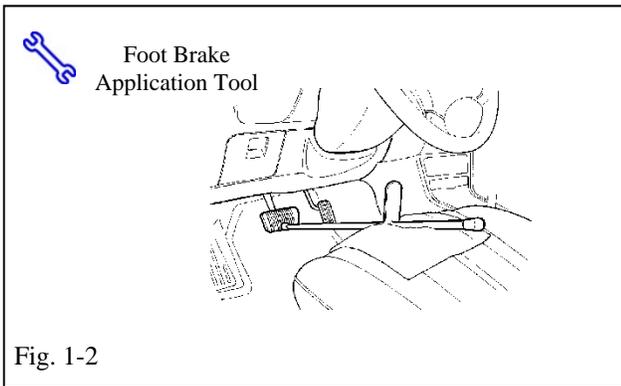


Fig. 1-2

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

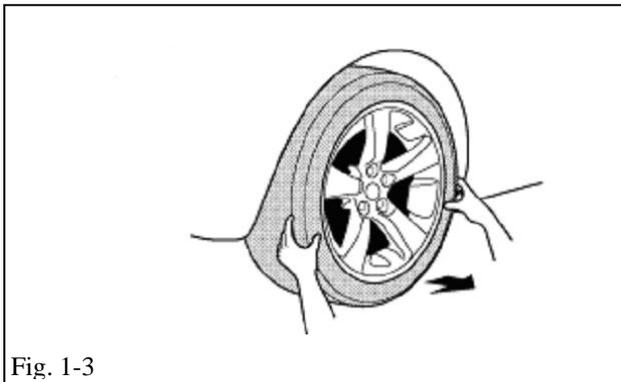
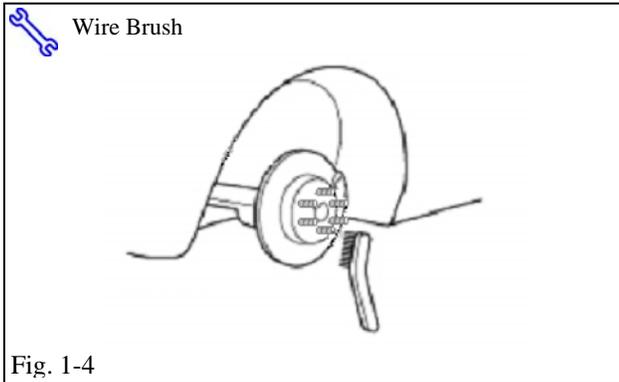


Fig. 1-3

-  (e) Remove the OE wheel and tire assembly from the vehicle (Fig. 1-3). Wear safety glasses while removing wheels.

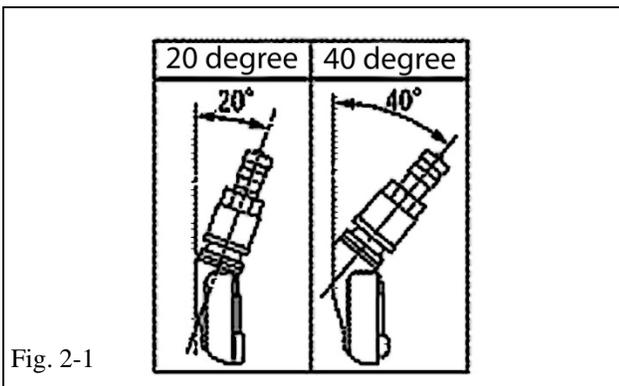


- (f) If required, remove any corrosion on the mounting surface of the vehicle with a wire brush. Wear safety glasses to protect against any debris (Fig. 1-4).

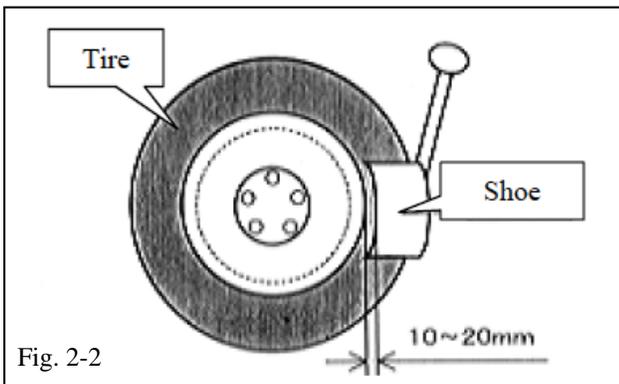
**2. Remove the Tire Pressure Monitor Valve Sub-assembly.**

**NOTE:** 20-degree Tire Pressure Sensors **MUST** stay with the same vehicle!

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



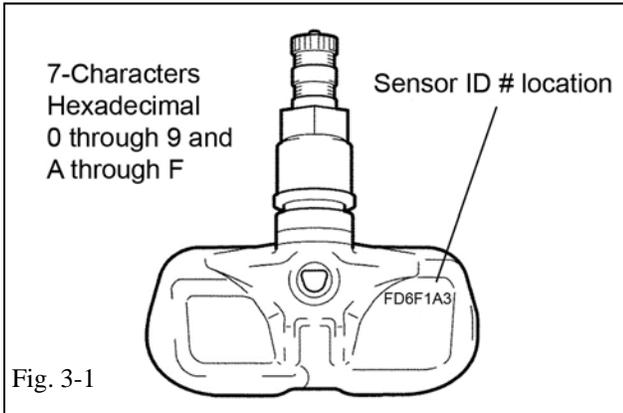
- (a) Remove the valve core and release the air from the tire.
- (b) Remove the nut and washer and let the pressure sensor drop inside the tire.



- (c) Carefully separate the upper tire bead from the wheel rim (Fig. 2-2).

**STOP NOTE:** Be careful not to damage the tire pressure sensor due to interference between the sensor and the 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 the OE tire from the OE wheel.



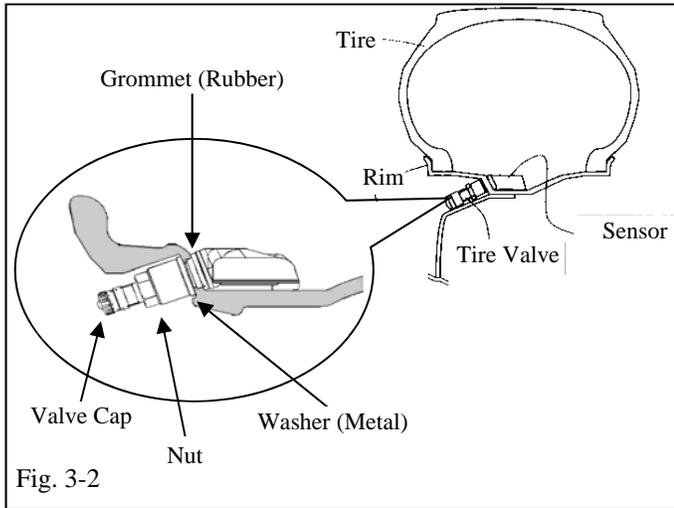
**3. Install the Tire Pressure Monitor Sensor (TPMS) Sub-assembly into the Accessory Wheel.**

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

**⛔ NOTE:** Replace the grommet ONLY IF the grommet is old or was damaged. A damaged grommet is NOT re-usable.



- (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).
- (f) Insert the tire pressure monitor valve sub-assembly so that the sensor ID number and text is visible (Fig. 3-1 & 3-2).



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

- (g) Install the washer on the outside of the wheel and secure with the nut.

**Torque: 4.0 N·m (36 in·lbf)**

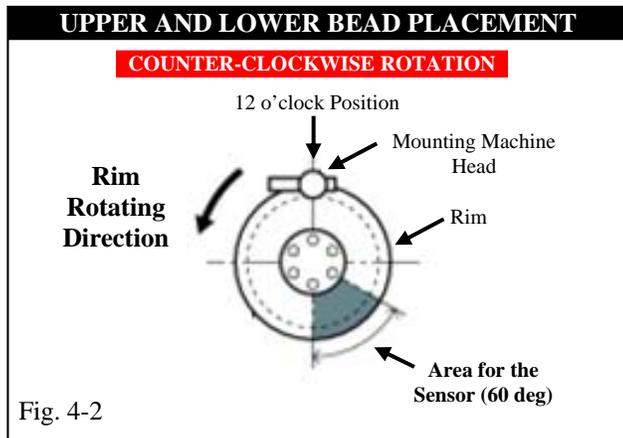
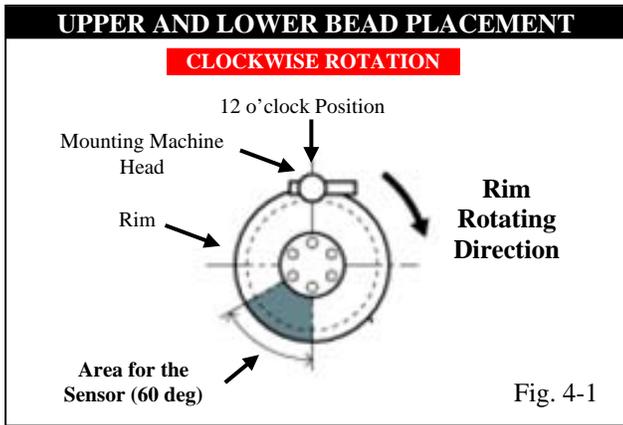
	Bridgestone	Dunlop
Front	Turanza ER33 BW 225/40R18 88Y	SP Sport MAXX 050 BW 225/40R18 88Y
Rear	Turanza ER33 BW 255/35R18 90Y	SP Sport MAXX 050 BW 255/35R18 90Y

#### 4. Mount the Tires.



**IMPORTANT:** If the vehicle came with 18-inch OE tires, then reuse the OE 18-inch tires. Some vehicles come equipped from the factory with 18-inch Dunlop SP Sport MAXX 050 BW tires. It is okay to reuse these tires and Bridgestone tires do not need to be ordered (see chart at left for the correct FR/RR pairing).

- (a) Remove the tire decals from tire tread prior to mounting. Check all tires for direction.
- (b) Use tire lube on the tire beads and bead locations on the 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) The mount/dismount head is considered as 12 o'clock.

(d) Mount the lower tire bead.

**STOP NOTE:** If the sensor is positioned outside this area, it may generate interference with the tire bead, possibly causing damage to the sensor.

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

(f) Mount the upper tire bead.

**STOP NOTE:** If the Mounting Machine rotates in the counterclockwise direction, refer to Fig. 4-2 for sensor placement.

**STOP 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.

**+** (g) To seat the tire bead, inflate the tire beyond 35 PSI but not more than 40 PSI. If the tire bead is not seated when the pressure registers 40 PSI, deflate the tire and re-inflate it to seat the bead.

(h) Regulate tire pressure to to:

FRONT: 36

REAR: 36

(i) After inflating the tire, retighten the nut of the tire pressure sensor valve sub-assembly.

**Torque: 4.0 N-m (36 lbf-in)**

(j) Install the valve stem caps.



### 5. Balance the Wheels.



**NOTE:** Application temperature for stick-on type weight is above 50°F (10°C). It is good practice to apply the stick-on type in sections comprised of no more than 5 or 6 individual weight segments.

- (a) 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.
- (b) Mount the wheel /tire assembly on the 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 stick-on type tape weights (Figs. 5-1 & 5-2).
- (c) Apply stick-on type weights at the perimeter location identified by the 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 and **100 g** (3.5 oz.) outer. 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 reapplying new weight(s). (DO NOT RE-USE STICK-ON WEIGHTS.)

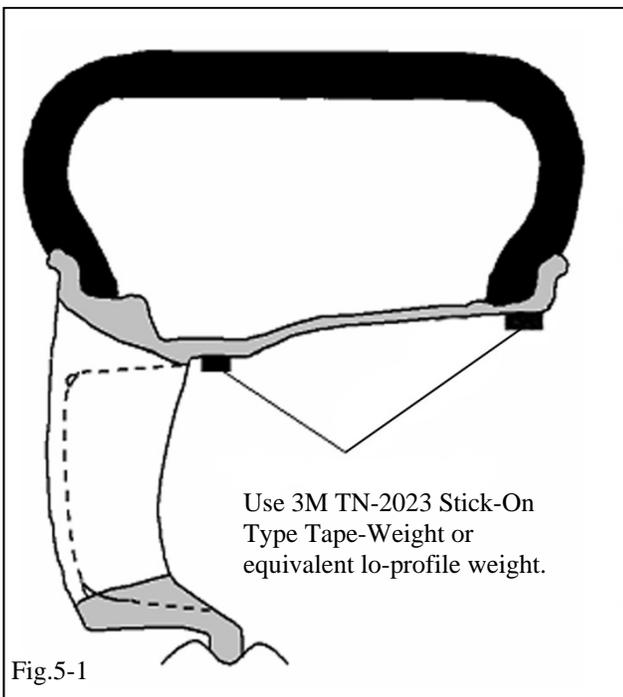


Fig.5-1

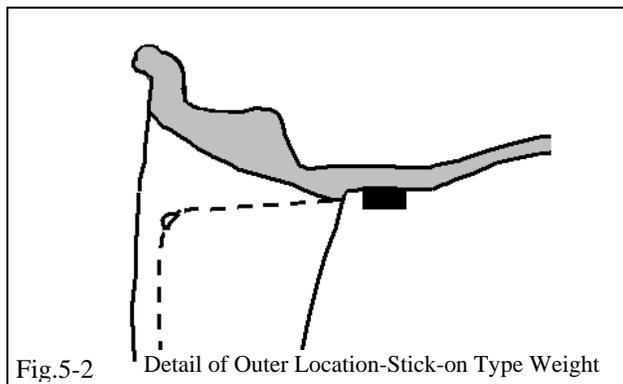


Fig.5-2

Detail of Outer Location-Stick-on Type Weight



- (d) 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 the inner location and 6 g (0.21 oz) at the outer location. If the indicated unbalance is not within the permissible limit, add required additional balance weights, within specification, and re-spin the tire/wheel assembly.

**6. Record the Tire Identification Number (TIN).**



- (a) **For PPO** - Record **ALL four** Tire Identification Numbers (TINs) from the **four** new tires installed onto the vehicle. The TIN for the tire is a 12-character string located after the "DOT" symbol on the sidewall of the tire. Refer to the **PPO Bulletin** as needed.



- (b) **For DIO** - Record **ALL four** Tire Identification Numbers (TINs) from the **four** 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. Install the Center Caps.**



**IMPORTANT! Be sure to install the center caps BEFORE installing the wheels onto the vehicle!**



- (a) Install the caps into the wheels. Be sure to orient the F-Sport text relative to the valve hole as shown (Fig. 7-1).

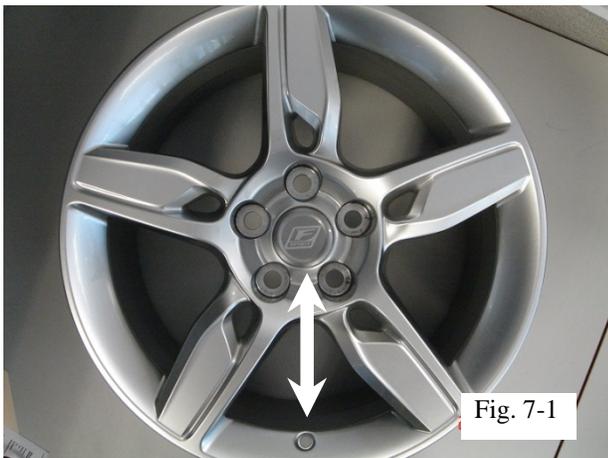
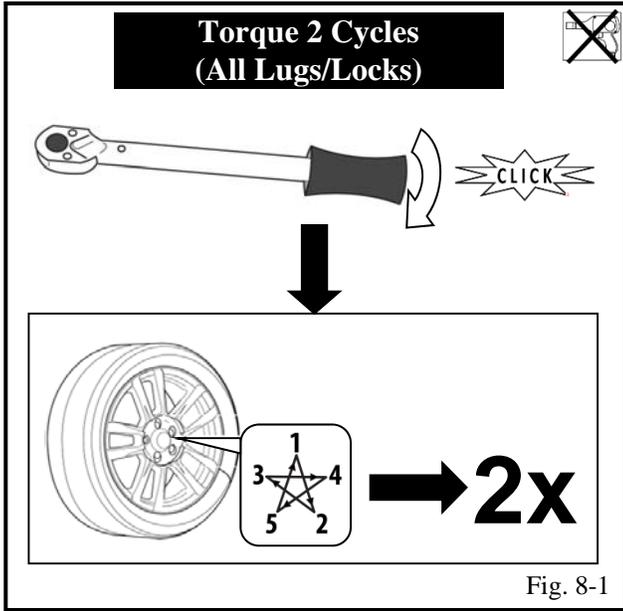


Fig. 7-1



### 8. Vehicle Wheel / Tire Installation.

**⚠ CAUTION: Be sure not to scratch the calipers when installing the wheels, especially over F-SPORT calipers!**



- (a) Install the wheel/tire assemblies onto the vehicle. Hand start the provided lug nuts. Install one wheel lock per wheel (not including spare) at the number 1 position, opposite the valve stem (Fig.8-1).
- (b) Tighten the lug nuts in sequence 1 through 5 (Fig. 8-1). Ensure that the socket does not scuff the wheels. Tighten to 103N·m (76 ft-lbf) using a torque wrench.

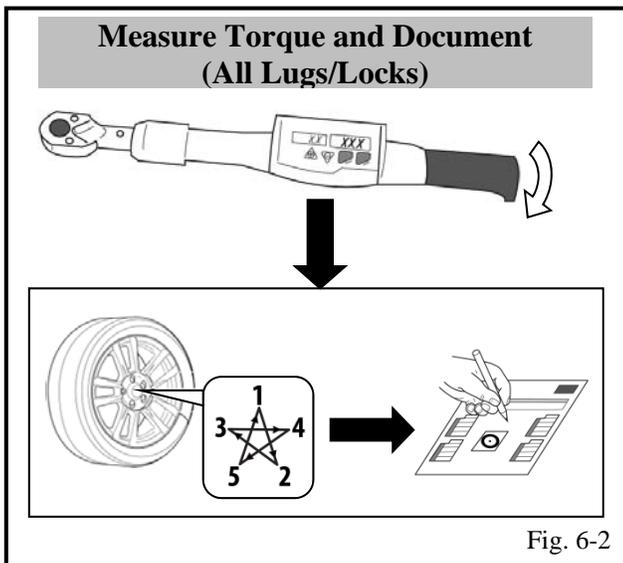
**S Torque: 103N·m (76 ft-lbf)**

**STOP** (c) Re-torque all of the lug nuts in same the 1-5 sequence (Fig. 8-1).

**S Torque: 103 N·m (76 ft-lbf)**

**STOP** **⚠ CAUTION: DO NOT USE AN IMPACT WRENCH TO INSTALL OR REMOVE WHEEL LOCKS.**

- (d) With the vehicle still on the lift, use a digital torque wrench to measure the torque of each lug nut/lock and record it on the Torque Audit Sheet (Fig. 8-2). (PPO installation only. Does not apply to DIO installation.)
- (e) Remove the vehicle from the lift.





**9. Install Tire Pressure Labels.**

Step 9(a) & (b) are only required if 17-inch OE wheels are being replaced. Vehicles with 18-inch OE wheels will already have the correct label.

(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 18-inch tire pressure label (MDC P/N **00602-53150**) directly over the OE tire pressure label (Fig. 9-1). **DO NOT** cover the passenger/cargo capacity information text.

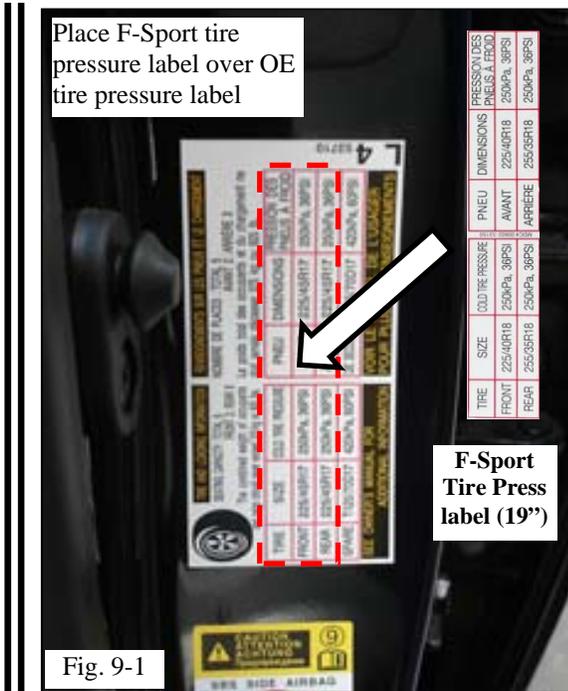


Fig. 9-1

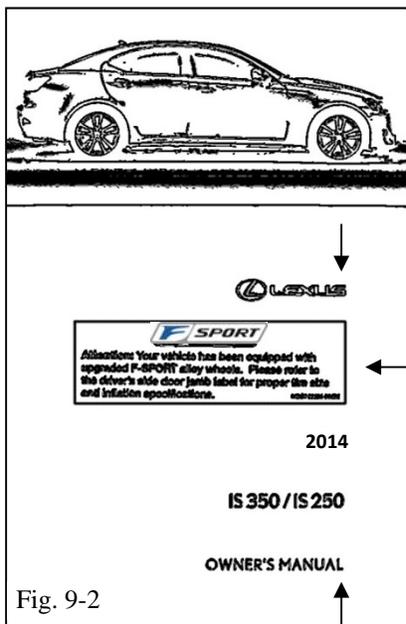


Fig. 9-2

(c) Install the Owner's Manual Label (MDC P/N **00602-35062**) onto the front cover of the owner's manual (Fig. 9-2).

**NOTE:** Be sure **NOT** to cover any existing text or information. Line up the right side of the label with the text stack as shown by the arrows in Fig. 9-2. Center the label vertically between LEXUS & the year text as shown.



**10. Register the TPMS Transmitter IDs.**



**Perform ONLY when replacing the tire pressure monitoring sensors.**

**Go to Step 10 if reusing the same 20-degree sensors.**

- (a) Complete this section after all four wheels have been installed.
- (b) Connect the Techstream to DLC3.
- (c) Turn the ignition switch to the ON position (do not start the vehicle), then turn the Techstream ON.
- (d) Start the Techstream application by clicking on the shortcut located on the Desktop.
- (e) Click **“Connect to Vehicle”** button (Fig. 10-1).

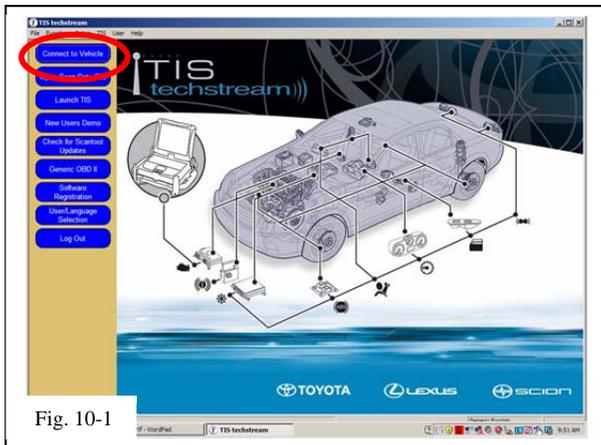


Fig. 10-1

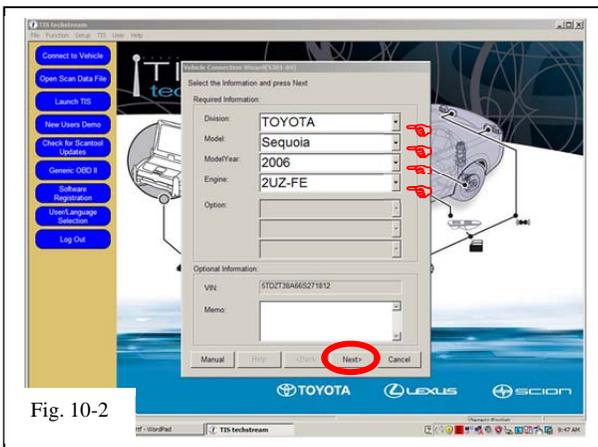
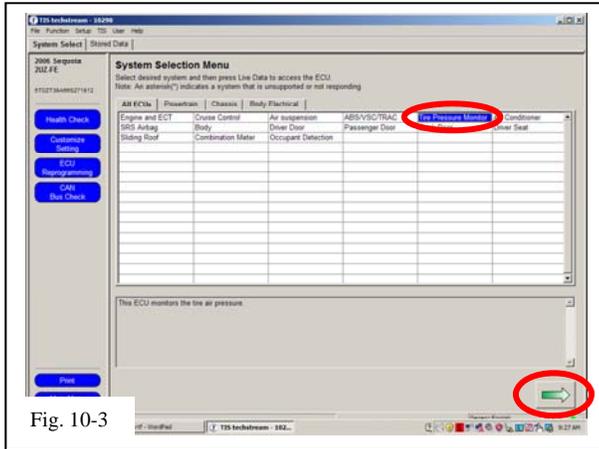
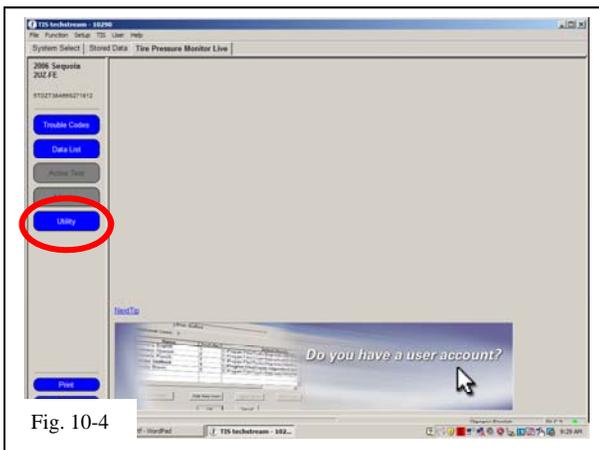


Fig. 10-2

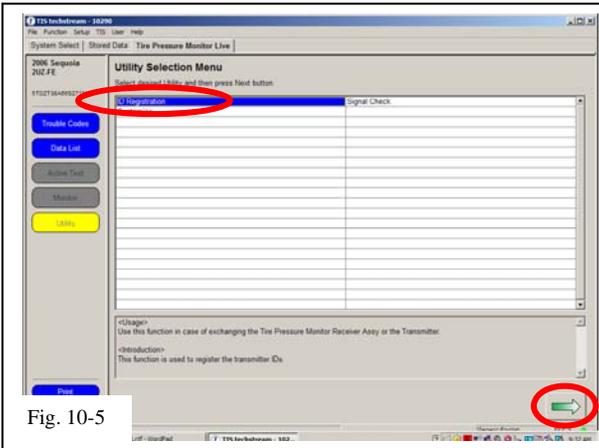
- (f) Confirm that the information displayed on the Vehicle Connection Wizard is correct. If not, make the appropriate selections from the drop down menus, then click **“Next”** (Fig. 10-2).



(g) Select “**Tire Pressure Monitor**” then click the green arrow located on the bottom right (Fig. 10-3).



(h) Select “**UTILITY**” to begin input of new TPMS ID codes (Fig. 10-4).



(i) Select “**ID Registration**” then click the green arrow located at the bottom right corner (Fig. 10-5).

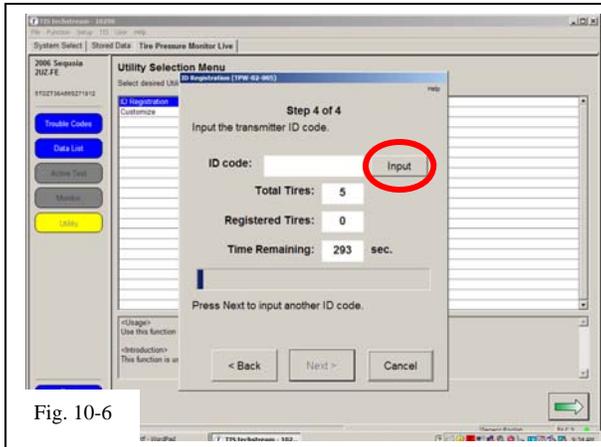


Fig. 10-6

(j) Select “Next” for Steps 1 through 3. Select “Input” in Step 4 to begin TPMS ID registration (Fig. 10-6).

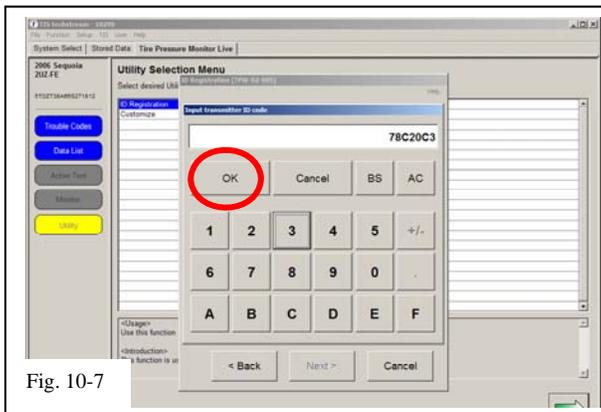


Fig. 10-7

(k) Input the TPMS ID code then click “OK” Repeat the same procedure for all other TPMS ID codes (Fig. 10-7).

**⚠ 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 10 (g)**.

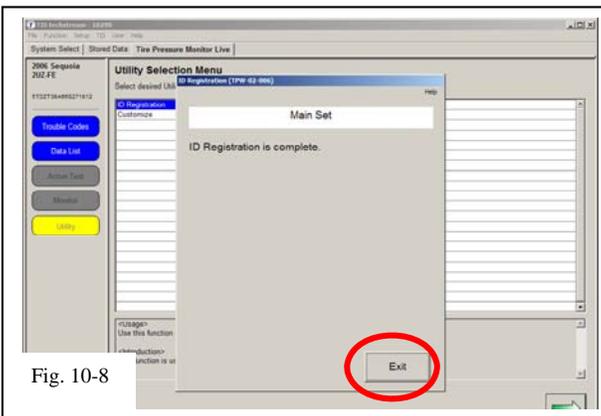


Fig. 10-8

(l) After all the TPMS ID numbers have been registered, “ID Registration is complete” text should be displayed. Click “Exit” to finish the registration process (Fig. 10-8).

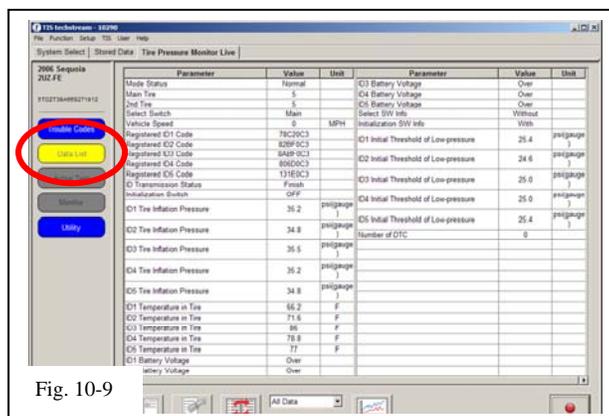


Fig. 10-9

(m) Select “DATA LIST” to view and confirm the TPMS ID numbers have been correctly registered (Fig 10-9).



### **11. Breakdown of the OE Wheel & Tire Assembly.**

#### **For PPO**

- (a) Sort the 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**

- (d) Sort the product properly according to local regulations.

### **12. Pre Delivery Service.**

- (a) Perform the PDS procedure for the Tire Pressure Warning System Initialization (refer to the current service bulletin [i.e. L-SB-0026-13] or the Owner's Manual).



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

<u>Check:</u>	<u>Look For:</u>
<p><u>Accessory Function Checks</u></p> <p><input type="checkbox"/> Inspect lug nuts.</p> <p> <input type="checkbox"/> Lug nut tightness.</p> <p> <input type="checkbox"/> Lug nut tool placement.</p> <p><input type="checkbox"/> Tire Pressure Labels</p> <p> <input type="checkbox"/> Correct Tire Pressure</p> <p><input type="checkbox"/> Tire Identification Numbers</p> <p><input type="checkbox"/> Center Caps</p> <p><input type="checkbox"/> Wheel Locks</p>	<p>Ensure five lug nuts are installed on each wheel.</p> <p> Ensure the lug nut torque is <b>103N·m (76 ft-lbf)</b>.</p> <p>Ensure the lug nut tool is in the appropriate location in the vehicle.</p> <p>Ensure Tire Pressure Label and Owner's Manual Labels are in place.</p> <p>Ensure the tire pressure is set to the value specified on the F-Sport Tire Pressure Label.</p> <p><b>PPO:</b> Ensure all <b>4</b> accessory <b>Tire Identification Numbers</b> are recorded with the Vehicle Identification Number. Refer to <b>CAD PPO Bulletin</b> as needed.</p> <p><b>DIO:</b> Provide the tire information to your tire vendor as required by law.</p> <p>Verify center caps are securely in place on all 4 wheels. Also verify that they are in the correct orientation.</p> <p>Verify the wheel lock key tool is in the appropriate location in the vehicle and the paperwork is placed into the vehicle glove compartment.</p>
<p><u>Vehicle Appearance Check</u></p> <p><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.</p>	<p>Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.</p>