



Preparation

Part Numbers: FRONT REAR
 "Tarantula" Grey PTR45-53081 PTR45-53082
 '10 Spc.Ed.ISC Full-FaceGrey PTR45-30100 PTR45-30101
 Original Full-Face Silver PTR45-30102 PTR45-30103
 New Full-Face Silver PTR45-30130 PTR45-30103

Kit Contents

Item #	Quantity Req'd.	Description
1	2or4per vehicle	Forged Al Wheel 19" x 8" x 40
2	0or2per vehicle	Forged Al Wheel 19" x 9" x 40

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	1 per wheel	F-SPORT Center Cap PTR45-53080 Grey, or PTR45-30104 Silver

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1 (Required & Sold Separately)	1 per wheel set or 1 per vehicle	Lugnut Kit w/ Spline Tool & 4 Wheel Locks & Key Tool Matte Grey Tarantula PTR27-53080 Black for RWD Matte Grey Tarantula PTR27-53090 Black for AWD MatteGrey FullFace PTR27-53100 Black for '10SE Silver Full Face PTR27-30010 Chrome
2	1per frontwheel	Tire: Michelin Pilot Sport PS2 225/35ZR19 88Y XL Summer (recommended) DT001-5309F-MI
3	1 per rear wheel	Tire: Michelin Pilot Sport PS2 255/35R19 96Y XL Summer GS350/460rcmd DT001-5309R-MI
4	1per frontwheel	Tire: Michelin Pilot Sport PS2 225/40ZR19 93Y XL Summer (recommended) DT001-30090-MI
5	1per wheel	Tire: Michelin Pilot Sport A/S+ AWD GS350 (recommended) DT001-30091-MI
5A	2013+ GS 350	Refer to Chart in Section 4.
6	As Required	Balance Weights Stick-on Type 3M TN-2023 or equivalent.
7	As Required	TPMS 20 degree angle, Single Consult EPC to verify app. 2006-2012 P/N 42607-33021 2013+ GS P/N 42607-30060 2014+IS P/N 42607-30060
8	1	Tire Pressure Label IS250/350/ISC MDC P/N 00602-53085 GS350/460 MDC P/N 00602-30010 AWD GS350 MDC P/N 00602-30011 2013+GS350 RWD MDC P/N 00602-30130
9	1	Owners Manual Label MDC P/N 00602-35062
10	1	Vinyl Wheel Lock Pouch PPO PT276-06999 DIO 00602-06999
11	1 (PPO only)	Port Brochure 00276-00890

Conflicts

Cannot use on All-Wheel-Drive IS250/IS350

Recommended Tools

Protection	Notes
Safety Glasses	Seat Protection & Blanket(s)
Special Tools	Notes
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.
Lexus Diagnostic Tester or Techstream Device	Software Version 13.2a or newer required.
Tire Press. Warning System	00002-TTPWS or equiv.
Installation Tools	Notes
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
Special Chemicals	Notes
Tire Lube	Myers or equivalent
Cleaner (for rework if needed)	PPO/DIO : locally approved

General Applicability

Applicable to IS250/IS350, ISC, GS350/460, AWD GS350

Recommended Sequence of Application

Item #	Accessory
1	F-SPORT 19" Alloy Wheel & 19" Tire
2	F-SPORT Wheel Lugs/Locks

Vehicle Service Parts (May be required for reassembly)

Item #	Quantity Req'd.	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

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 local dealer for a copy of this document.

1. Vehicle Preparation.



(a) Firmly apply parking brake.



(b) Put automatic transmission in "P".

(Fig. 1-1).

Put manual transmission in "R".

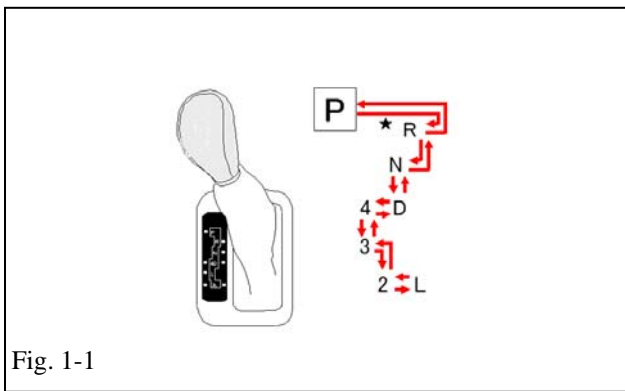


Fig. 1-1

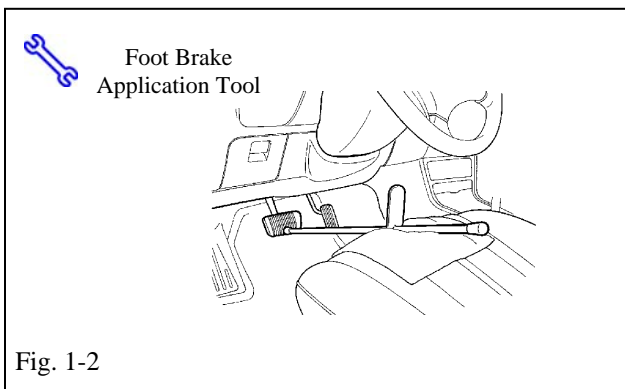


Fig. 1-2

(c) Add seat protection (blanket) and apply foot brake using foot brake application tool.

(Fig. 1-2).

(d) Lift vehicle.

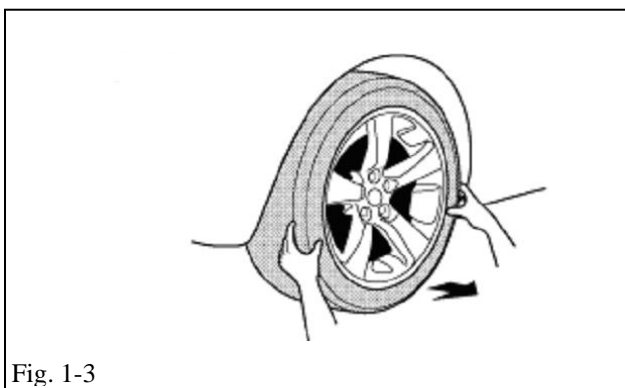
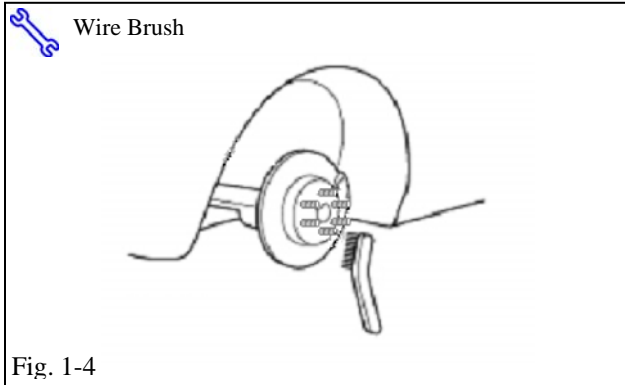


Fig. 1-3



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

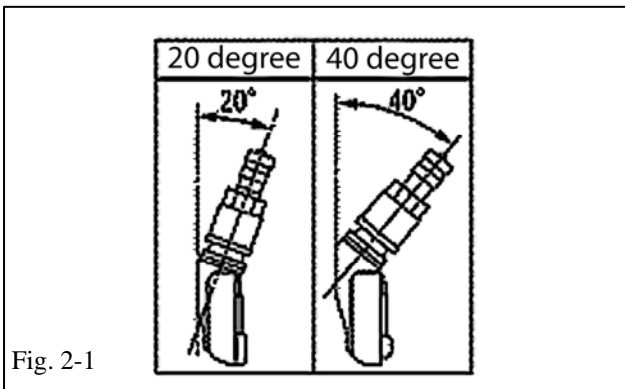


- ✚ (f) If required, remove any corrosion on the mounting surface of the vehicle with a wire brush. Wear safety glasses to protect against any debris. (Fig. 1-4).

2. Remove Tire Pressure Monitor Valve Sub-assembly.

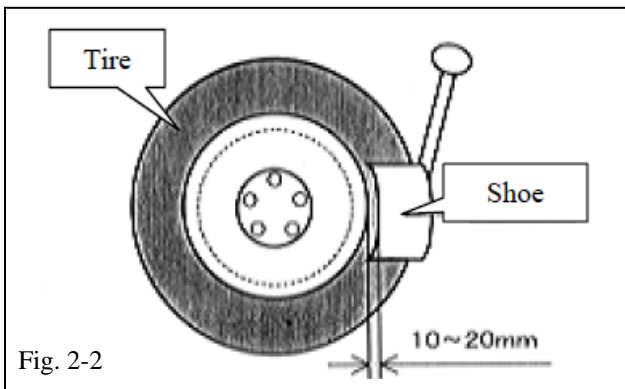
⚠ NOTE: 20 degree Tire Pressure Sensors MUST stay with same vehicle!

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



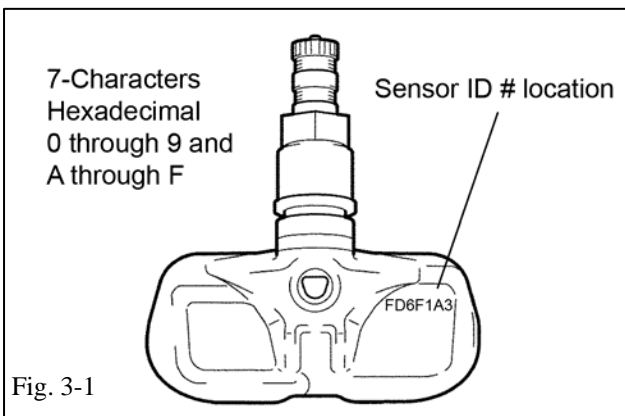
- (a) Remove the valve core and release pressure from the tire.
- (b) Remove the nut and washer and let the pressure sensor drop inside the tire.
- (c) Carefully separate the upper tire bead from the wheel rim. (Fig. 2-2).

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 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 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 good.



NOTE: Change grommet to a new one ONLY IF the grommet is 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. See Fig. 3-1 & 3-2.



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

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



Torque the nut to 4.0 N·m (36 in·lbf)

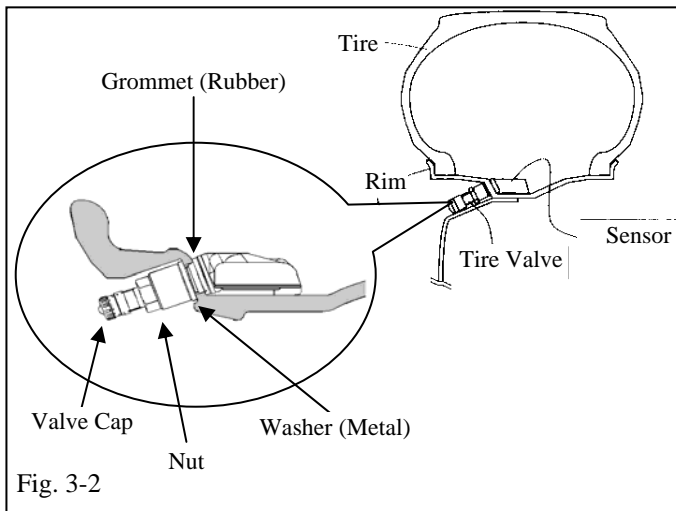


Fig. 3-2



	IS250/350/ISC	GS350/460	AWD GS350
Front	Michelin Pilot Sport PS2 225/35ZR19 88Y XL Summer DT001-5309F-MI on 19" x 8" Wheel	Michelin Pilot Sport PS2 225/40ZR19 93Y XL Summer DT001-30090-MI on 19" x 8" Wheel	Michelin Pilot Sport A/S + 225/40ZR19 93Y XL M+S DT001-30091-MI on 19" x 8" Wheel
Rear	Michelin Pilot Sport PS2 255/35ZR19 96Y XL Summer DT001-5309R-MI on 19" x 9" Wheel	Michelin Pilot Sport PS2 255/35ZR19 96Y XL Summer DT001-5309R-MI on 19" x 9" Wheel	Michelin Pilot Sport A/S + 225/40ZR19 93Y XL M+S DT001-30091-MI on 19" x 8" Wheel

	2013+ GS350	2013+ AWD GS350
Front	235/40R19 96Y Summer Tire on 19" x 8" Wheel	235/40R19 96V All-SeasonTire on 19" x 8" Wheel
Rear	265/35R19 94Y Summer Tire on 19" x 9" Wheel	235/40R19 96V All-SeasonTire on 19" x 8" Wheel

4. Tire Mounting.

Refer to charts on left for Tire & Wheel fitment.



IMPORTANT: The rear 19 x 9 wheel is a Reverse Mount Wheel !

Also Michelin PS2 Tires have an inside and an outside! You must ensure that the outside faces out! Side is indicated on the tire sidewall.

- (a) Remove Tire Decals from tire tread prior to mounting. Check all tires for direction.
- (b) Use tire lube on tire beads, and bead locations 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)

Mount/dismount head is considered as 12 o'clock

- (d) 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.

- (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 does not interfere with the main body of the sensor and the bead does not clamp sensor.

To seat tire beads, inflate tire beyond 35 PSI but not more the than 40 PSI. If tire bead is not seated when pressure registers 40 PSI, deflate the tire and re-inflate to seat the beads. Regulate tire pressure to:

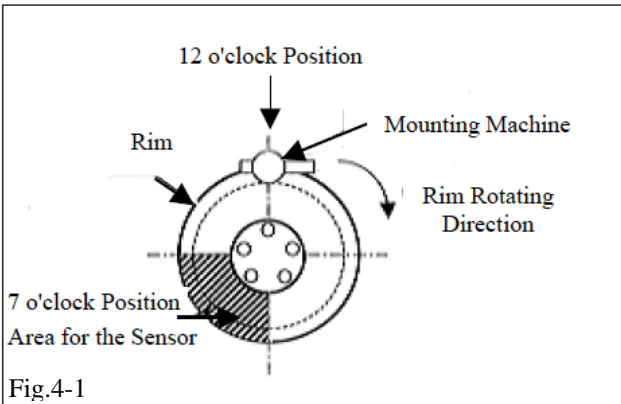


Fig.4-1

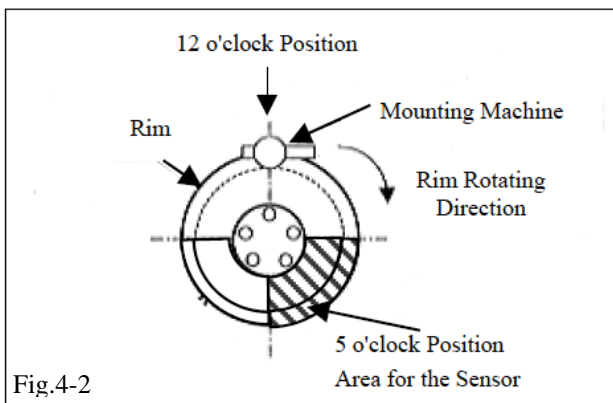


Fig.4-2

	IS250/350/ISC	GS350/460	AWD GS350
Front	35 psi	39 psi	41 psi
Rear	38 psi	35 psi	41 psi
	2013 GS350	2013 AWD GS350	
Front	35 psi	35 psi	
Rear	36 psi	36 psi	



- (g) Be sure to Re-Check torque on TPMS nuts, and install valve stem caps.

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 **3M TN-2023** or equivalent stick-on type tape 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 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, 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.

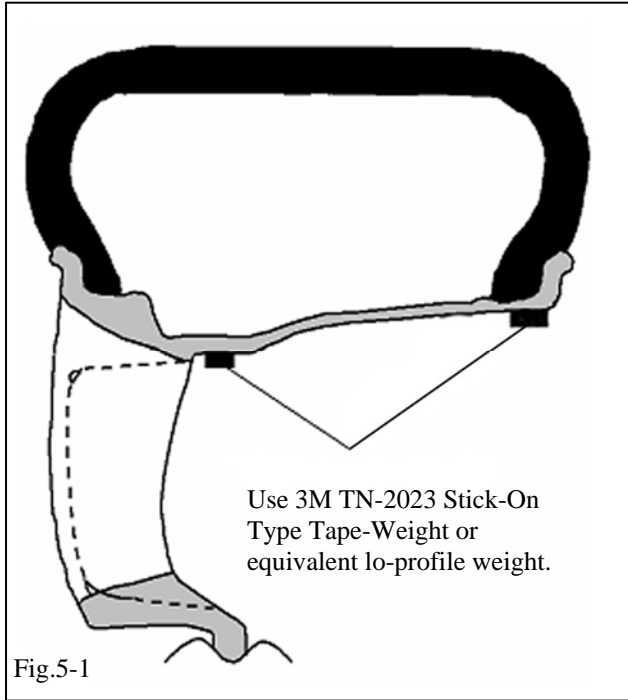


Fig.5-1

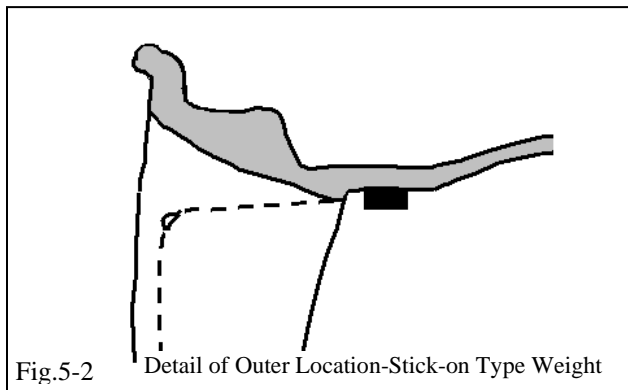


Fig.5-2



Fig. 7-1



Fig. 7-2

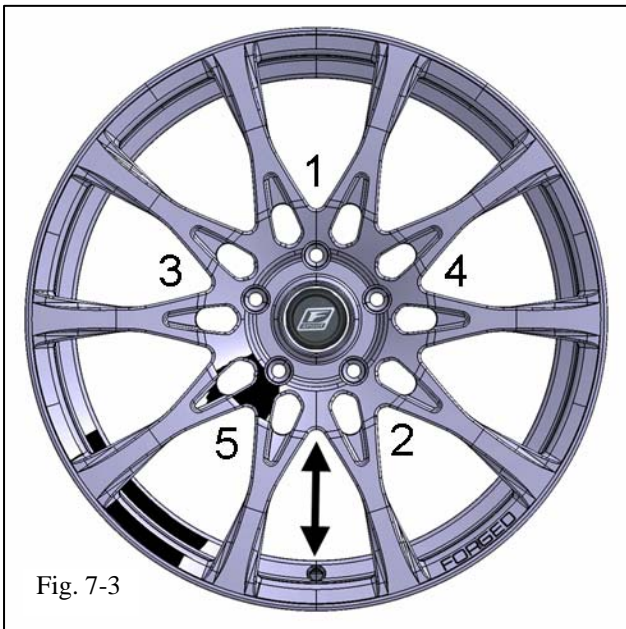


Fig. 7-3

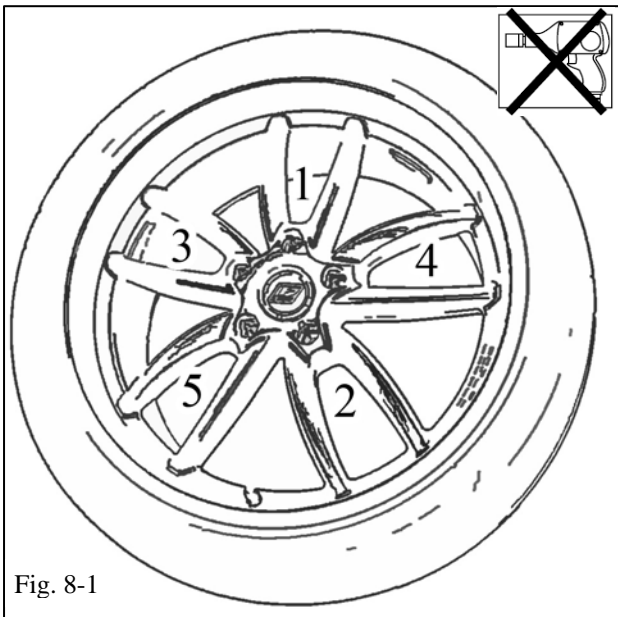


Fig. 8-1

6. Tire Identification Number (TIN) Recording



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 [F-SPORT_IS_19in_Tire_ID_Numbers_RevA.xls](#) [F-SPORT_GS_19in_Tire_ID_Numbers_RevA.xls](#) [F-SPORT_AWD_GS_19in_Tire_ID_Numbers_RevA.xls](#) The TIN for the tire is a 12-character string located after the "DOT" symbol on the sidewall of the tire. Refer to **PPO Bulletin** as needed.



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.



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



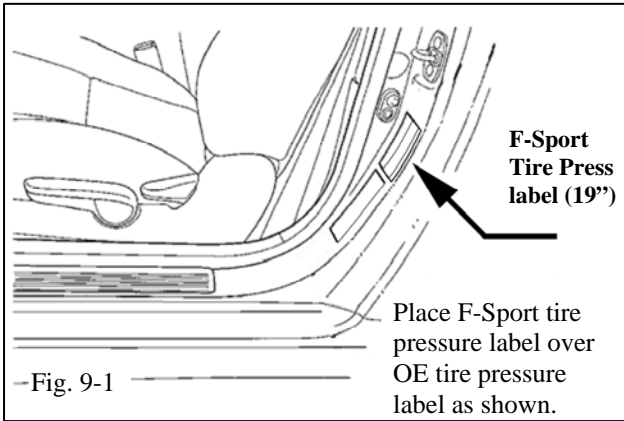
(a) Install caps into wheels as shown in Fig. 7-1. Be sure to orient the F-Sport text relative to the valve hole as shown. (Fig. 7-2 or Fig. 7-3)



8. Vehicle Wheel / Tire Installation. CAUTION: be sure not to scratch calipers when installing wheels, especially over F-SPORT calipers!

(a) Install wheel/tire assemblies onto vehicle. Hand start the provided lug nuts. Install one wheel lock per wheel (not including spare) at the number 1 position, opposite valve stem (Fig. 7-3 or Fig. 8-1). Tighten lug nuts in sequence 1 through 5 (Fig. 8-1). Ensure that the socket does not scuff the wheels. **DO NOT use an Impact Gun to install or remove or damage may occur to Lugnuts!** Air ratchets are OK. **Torque to 103N·m (76 ft-lbf)** using a torque wrench. Afterwards, remove vehicle from lift.



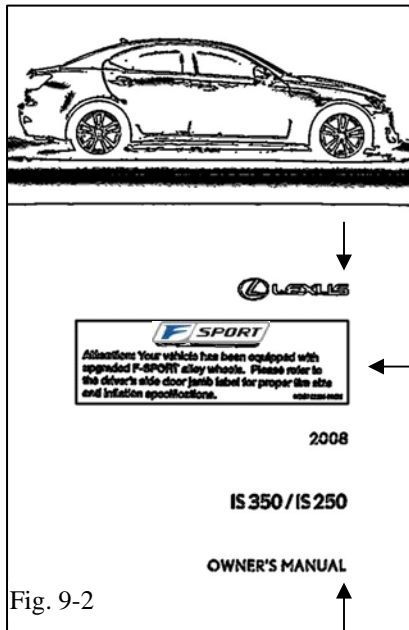


9. Tire Pressure Labels

- (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 19 inch tire pressure label
 (MDC P/N **00602-53085**) IS250/350/ISC
 (MDC P/N **00602-30010**) GS350/460
 (MDC P/N **00602-30011**) AWD GS350
 (MDC P/N **00602-30130**) 2013+ GS350

directly over the OE tire pressure label. (Fig. 9-1). DO NOT cover the passenger/cargo capacity information text.

- (c) Install Owner's Manual Label
 (MDC P/N **00602-35062**) onto front cover of owner's manual. (Fig. 9-2) NOTE: Be sure NOT to cover any existing text or information. Line up right side of label with text stack as shown by arrows in Fig. 9-2. Center label vertically between LEXUS & year text as shown.



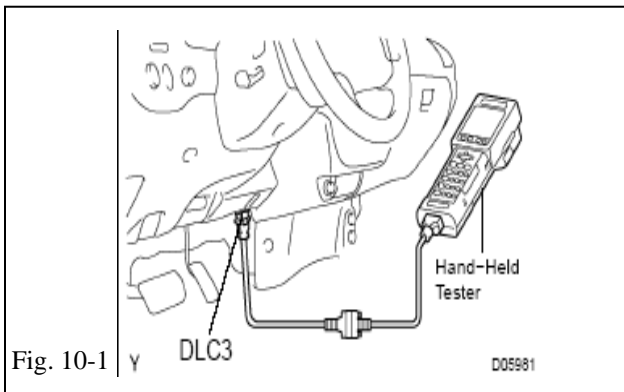
10. TPMS Transmitter ID Registration



Perform ONLY when replacing sensors. Skip to step 12 if re-using same 20 degree sensors.

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)



- (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 does NOT have TPMS.

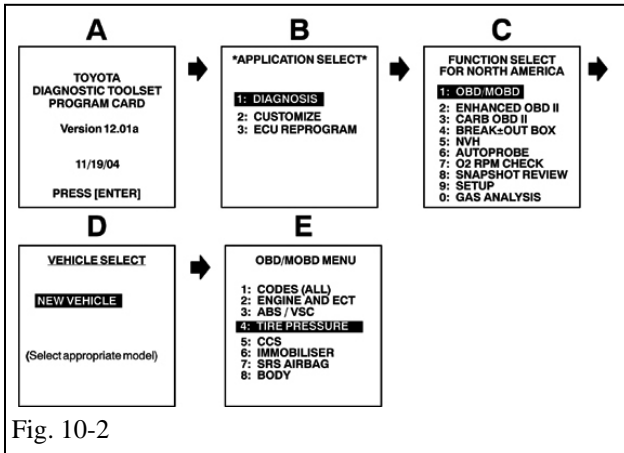


Fig. 10-2

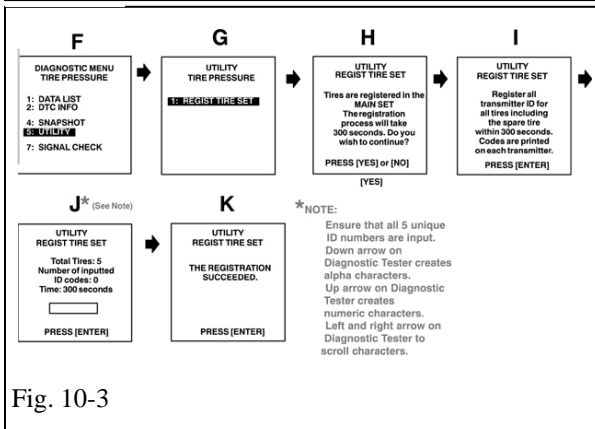


Fig. 10-3

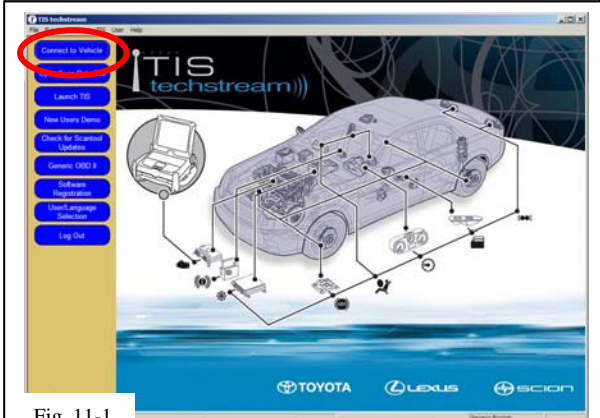


Fig. 11-1

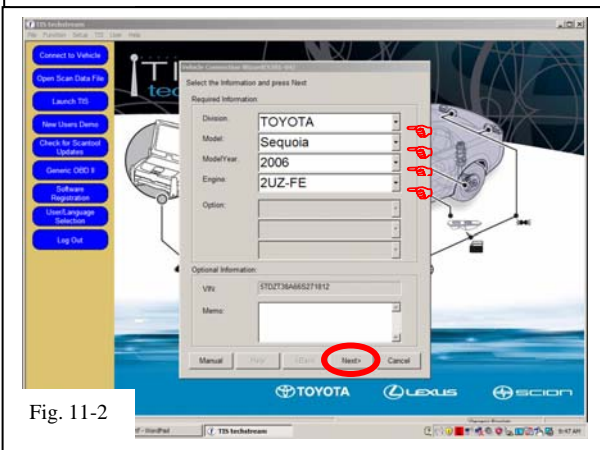


Fig. 11-2

- (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.

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)

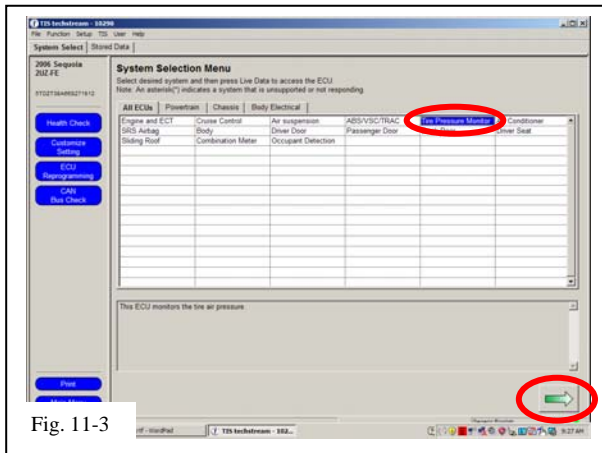


Fig. 11-3

(f) Select “**Tire Pressure Monitor**” then click the green arrow located on the bottom right. (Fig. 11-3)

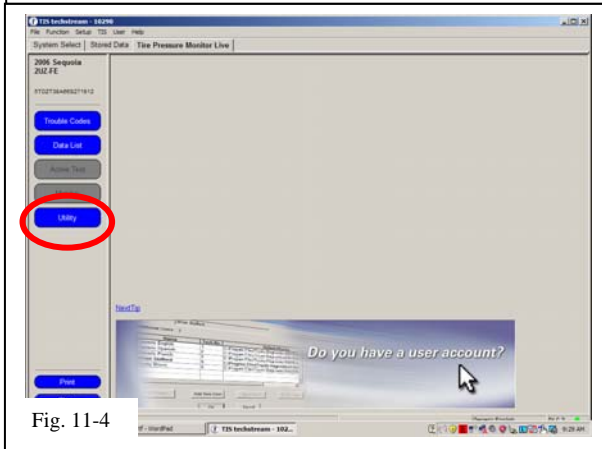


Fig. 11-4

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

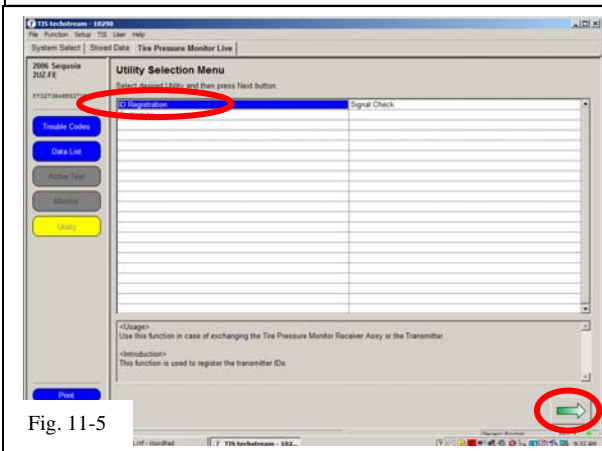


Fig. 11-5

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

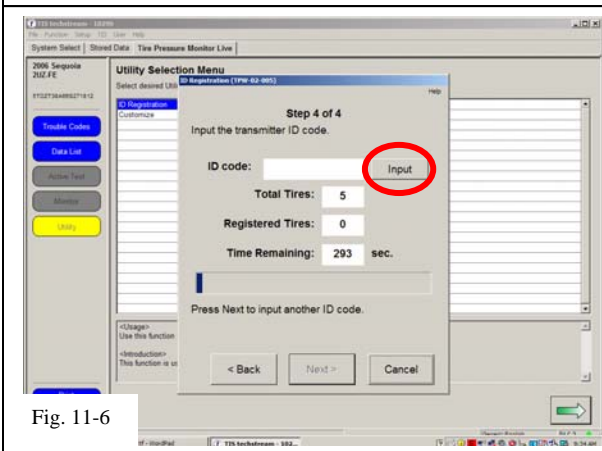


Fig. 11-6

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

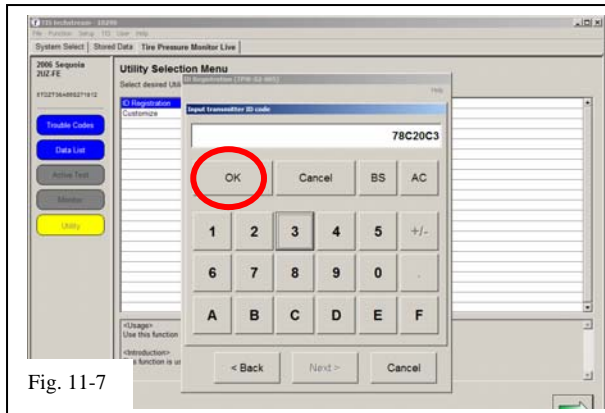


Fig. 11-7

- (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).

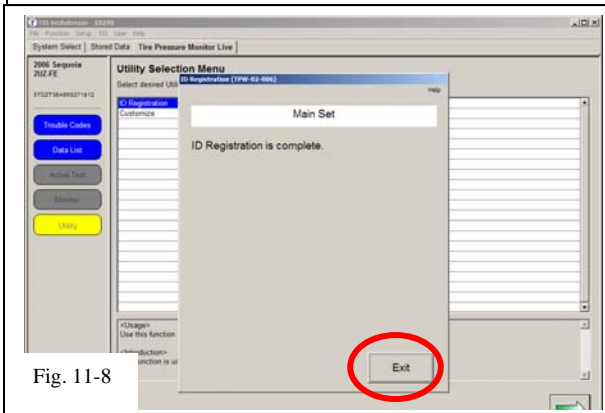


Fig. 11-8

- (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)

- (l) Select “DATA LIST” to view and confirm the TPMS ID numbers have been correctly registered (Fig 11-9).

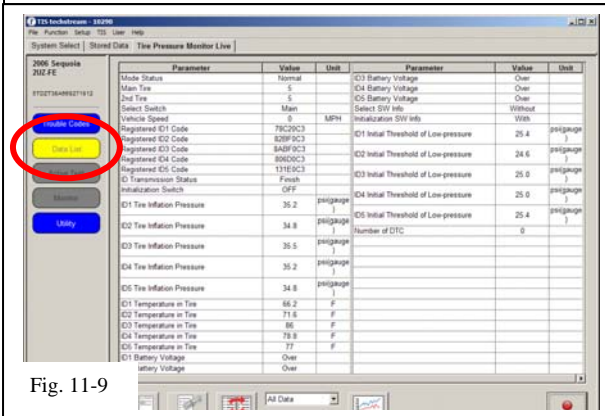


Fig. 11-9

12. Breakdown of OE Wheel & Tire 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 along with the lock instruction card into vinyl pouch (PPO# PT276-06999 / DIO# 00602-06999) and secure inside tool bag in trunk. If there is no tool bag, securely place in the trunk compartment next to the tire iron. Place all associated wheel lock paperwork into vehicle glove compartment (use Port Brochure Ziplock Bag if available). Zip tie may be discarded.

14. Pre Delivery Service Perform the PDS procedure for The Tire Pressure Warning Set Switch.



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

Check:	Look For:
<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 must be installed on each wheel.</p> <p> Ensure Torque is 103N·m (76 ft-lbf)</p> <p>Ensure Lugnut Tool is in the appropriate location in vehicle.</p> <p>Ensure Tire Pressure Label and Owner's Manual Labels are in place.</p> <p>Ensure tire pressure is set to the value specified on the F-Sport Tire Pressure Label.</p> <p>PPO: Ensure all 4 accessory Tire Identification Numbers are recorded with the Vehicle Identification Number on the respective sheet F-SPORT_IS_19in_Tire_ID_Numbers_RevA.xls F-SPORT_GS_19in_Tire_ID_Numbers_RevA.xls F-SPORT_AWD_GS_19in_Tire_ID_Numbers_RevA.xls Refer to CAD PPO Bulletin as needed.</p> <p>DIO: 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 Wheel Lock Key Tool is in the appropriate location in vehicle and paperwork is placed into 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.</p> <p>(For PPO installations, refer to TMS Accessory Quality Shipping Standard.</p>