

Preparation

**Part Number: 08457-30813**(Mesh type Fr)  
**08457-53811**(Mesh type Rr)  
**PT533-53060**(Spoke type Fr)  
**PT533-53061**(Spoke type Rr)

**Kit Contents**

Item #	Quantity Req'd.	Description
1a	1	Alloy Wheel mesh type for Fr.
1b	1	Alloy Wheel mesh type for Rr
1c	1	Alloy Wheel spoke type for Fr
1d	1	Alloy Wheel spoke type for Rr

**Hardware Bag Contents**

Item #	Quantity Req'd.	Description

**Additional Items Required For Installation**

Item #	Quantity Req'd.	Description
1	As Required	Balance Weights Stick-on Type
2	1 per wheel	Center Cap P/N 08457-53811
3	1 per wheel	Valve Stem Grommet Fitting Kit P/N 04423-35020 (if required)
4	1 per install	Owner's Manual Label (P/N 00107-00390)
5	1 per install	B-pillar Tire Pressure Label (P/N 00107-00391)

**Conflicts**

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**General Applicability**

Applicable to IS350/250 Hardtop & Convertible (Does NOT fit AWD) Use with tire size 225/40R18(Fr), 255/40R18(Rr)
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**Recommended Tools**

<b>Personal &amp; Vehicle Protection</b>	<b>Notes</b>
Safety Glasses	
Seat Protection	Blanket
<b>Special Tools</b>	<b>Notes</b>
Wheel Balancing Machine	Hunter GSP9700 or equivalent
Tire Mounting Machine	Hunter TC3250 or equivalent
Centering Cone	Hunter 192-51-2
Foot Brake Application Tool	Snap-on B240A Pedal Jack or Equivalent

<b>Installation Tools</b>	<b>Notes</b>
Lug Nut Wrench	
Rubber Mallet	
Torque Wrench	Dial type or digital, 0-100 lbf-ft (136 N-m)
Torque Wrench	0-36 lbf-in (4.1 N-m)
Socket	21 mm Deep Well
Clean Lint-free Cloth	
Wire Brush	
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Socket	12 mm Thin Wall, Deep Well
<b>Special Chemicals</b>	<b>Notes</b>
Tire Lube	
Cleaner (for rework only)	VDC approved cleaner and cleaning method

**Recommended Sequence of Application**







Item #	Accessory
1	Alloy Wheel
2	Wheel Lock

\*Mandatory

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

Item #	Quantity Req'd.	Description
1		

**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.

**Procedure**

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.

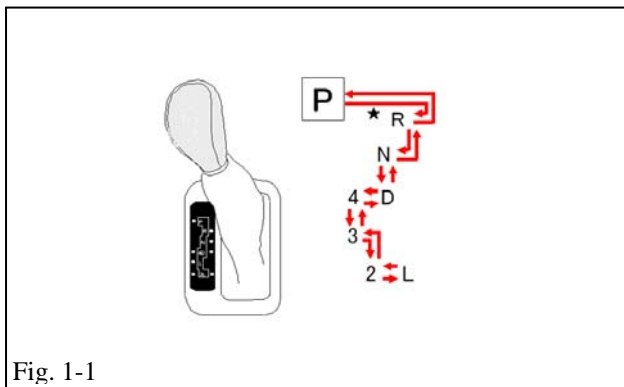
This document covers such items as:-

- 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.).

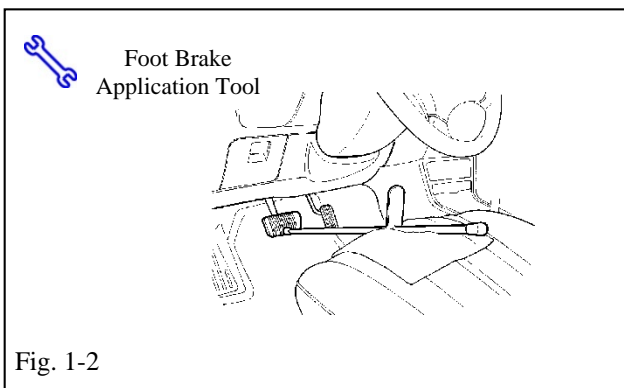
Please see your Lexus dealer for a copy of this document.

**1. Vehicle Preparation.**

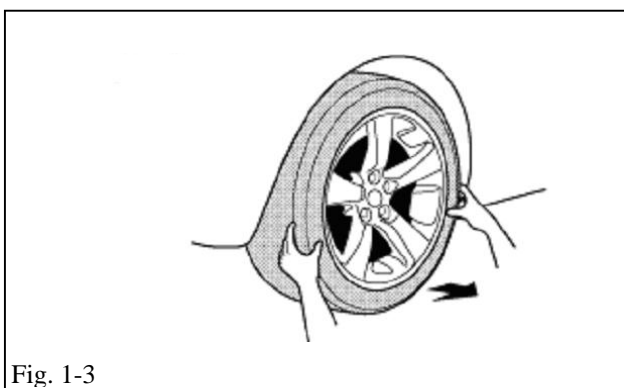
- STOP** (a) Firmly apply the parking brake.
- STOP** (b) Put automatic transmission in "P"  
(Fig. 1-1).



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

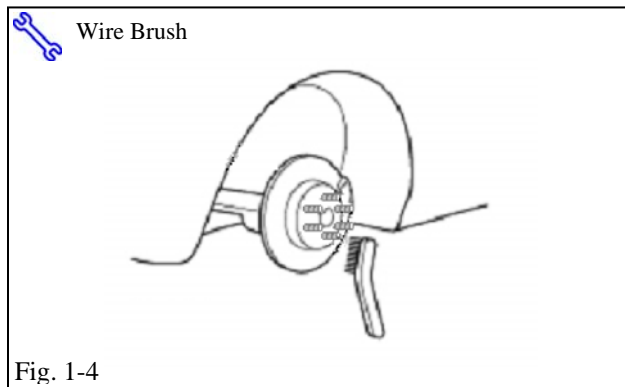


- +** (e) Remove the OE wheel and tire assembly from the vehicle (Fig. 1-3). Wear safety glasses while removing the wheels.



**NOTE: Mark the tire installation position on the inward facing tire sidewall i.e. Front Right = FR, Front Left = FL, Rear Right = RR, Rear Left = RL.**

Procedure



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

## 2. 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 let the pressure sensor drop inside the tire.
- (c) Carefully separate the upper tire bead from the wheel rim (Fig. 2-1).

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

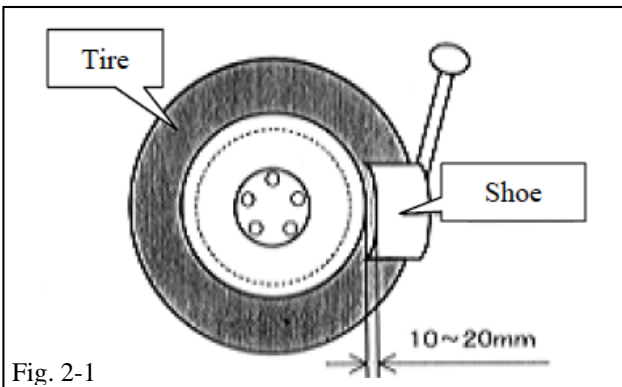
- (d) Remove the sensor from the tire and remove the bead on the lower side as in the usual tire removal operation.
- (e) Remove the rubber grommet from the tire pressure monitor valve sub-assembly.
- (f) Dismount OE tire from the OE wheel.

## 3. Install Tire Pressure Monitor Valve Sub-assembly to Accessory Wheel.

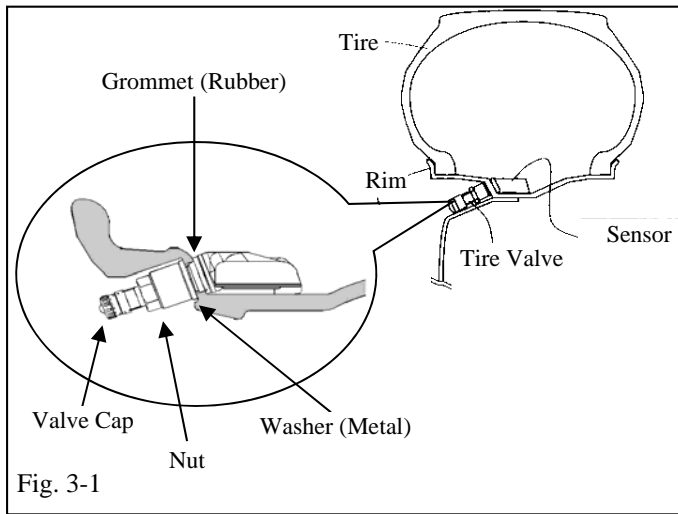
- (a) Visually check that there is no deformation or damage on the tire pressure monitor valve sub-assembly.
- (b) Check that the rim is clean.
- (c) Change grommet to a new one if the grommet was damaged.

**STOP NOTE:** A damaged grommet is NOT re-usable.

- (d) Check that the grommet, washer and nut are clean.



Procedure



(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 (Fig. 3-1).

(1) Insert the tire pressure monitor valve sub-assembly so that "PACIFIC" mark is visible.

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

(f) Install the washer and secure with the nut.

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

**4. Tire Mounting.**

(a) Use tire lube on the 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).

(1) The mount/dismount head is considered as 12 o'clock position.

(c) Mount the lower tire bead.

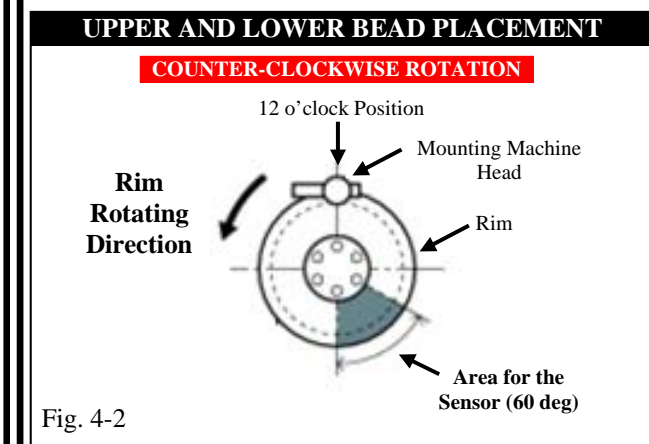
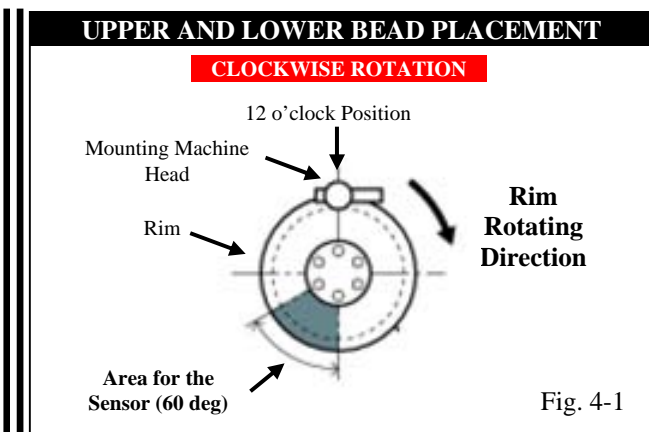
**STOP NOTE:** If the sensor is positioned outside this area, it generates interference with the tire bead, causing possible damage to the sensor.

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

(e) 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 do not interfere with the main body of the sensor and the bead does not clamp the sensor.



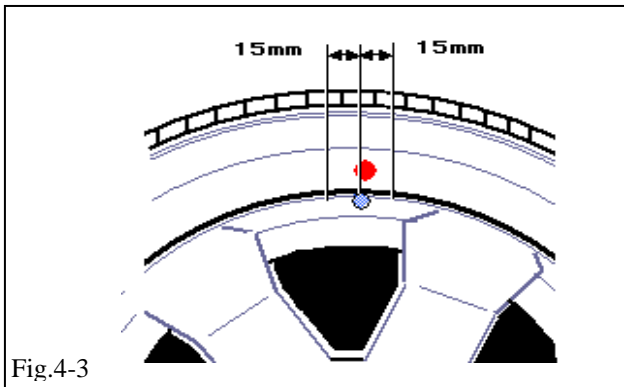


Fig.4-3

- (f) Remount the OE tire on the alloy wheel, matching tire high spot (red dot) with that of wheel low spot (blue sticker). Ensure the marked side is facing inward.



- (1) The red dot on tire and blue sticker on wheel must be aligned to within +/- 15 mm center to center (Fig. 4-3).



**NOTE:** If the blue sticker on the wheel is missing, align the red dot on the tire to the valve stem location on the wheel.

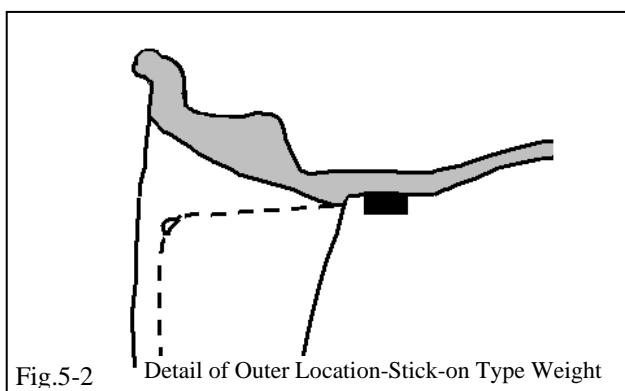
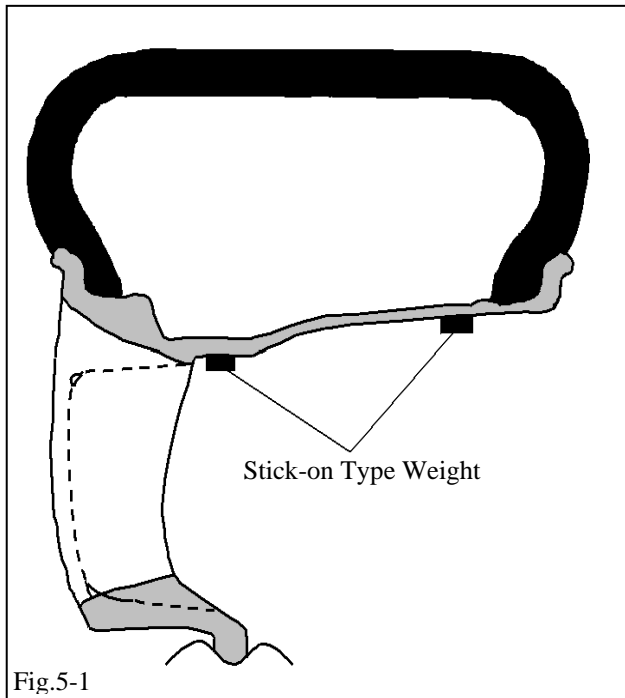


- (g) To seat the tire bead, inflate the tire beyond 43 PSI but not more than the maximum tire bead seat pressure indicated on the tire sidewall. If it is not indicated, use 50 PSI as a limit. If the tire bead is not seated when pressure registers 50 PSI, deflate the tire and re-inflate it to seat the bead. Regulate tire pressure to value in owner's manual for this vehicle.
- (h) After inflating the tire, re-tighten the nut of tire pressure monitor valve sub-assembly.

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

## 5. Wheel Balancing.

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

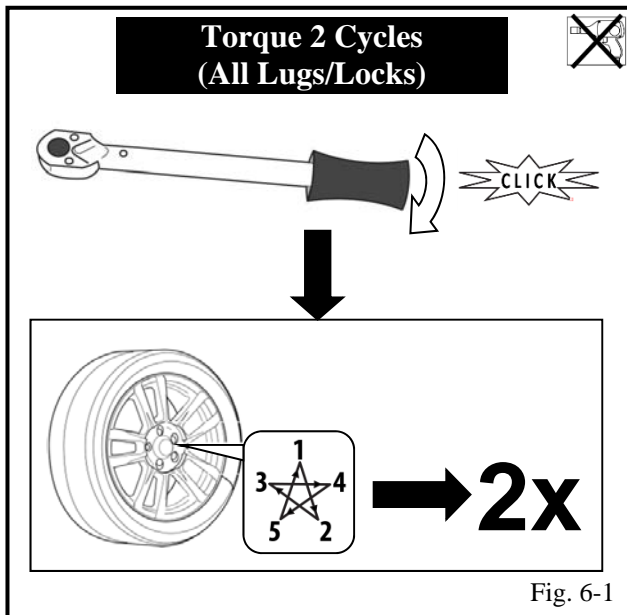


- (a) Mount the wheel /tire assembly on the wheel balance machine and balance in DYNAMIC MODE. Enable the LOAD ROLLER, if applicable, to ensure proper bead seating. Use stick-on type weights (Figs. 5-1 & 5-2).
- (b) Prior to mounting stick-on type weights, wipe down the weight mounting location on wheel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

**NOTES:** Maximum stick-on type weight is 50g on the inner plane and 50 g on the outer plane. If removal and replacement of stick-on type weight is necessary, then remove the weight using a nylon removal tool. Clean the surface with VDC approved cleaner and cleaning method. Wipe the surface dry before re- applying a new weight. (DO NOT RE-USE STICK-ON WEIGHTS.)

- (c) Respin the wheel on the machine with the LOAD ROLLER DISABLED (if applicable) and note the indicated remaining unbalance. The maximum permitted unbalance is 8g at inner and 8g at outer location. If the indicated unbalance is not within the permissible limit, carefully remove the balance weights using the nylon removal tool (for stick-on type weight) and re-balance the tire/wheel assembly.

Procedure



**6. Vehicle Wheel / Tire Installation.**

- (a) Install wheel/tire assembly on vehicle in the marked positions (FR, FL, RR, RL). Hand start the lug nuts during installation. Tighten the lug nuts in sequence 1 through 5 (Fig. 6-1). Ensure that the socket does not scuff the wheel. Tighten to 103N-m (76 lbf-ft) using a torque wrench.

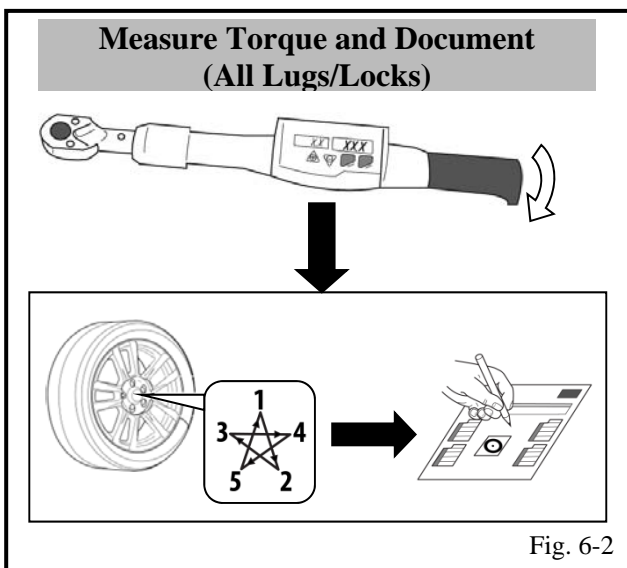
**S** **Torque: 103 N-m (76 lbf-ft)**

- STOP** (b) Re-torque all of the lug nuts in same the 1-5 sequence (Fig. 6-1).

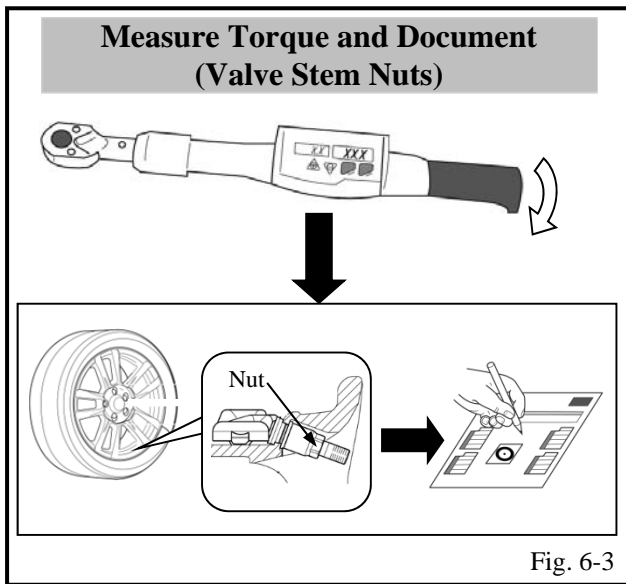
**S** **Torque: 103 N•m (76 ft-lbf)**


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

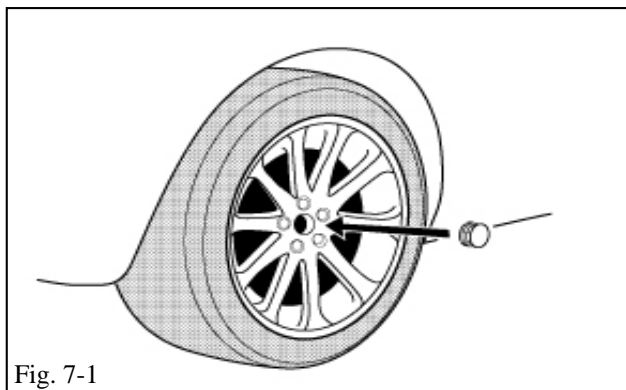
- STOP** (c) With the vehicle still on the lift, use a digital torque wrench to measure the torque of each lug nut/lock and record it on the Torque Audit Sheet (Fig. 6-2). (PPO installation only. Does not apply to DIO installation.)




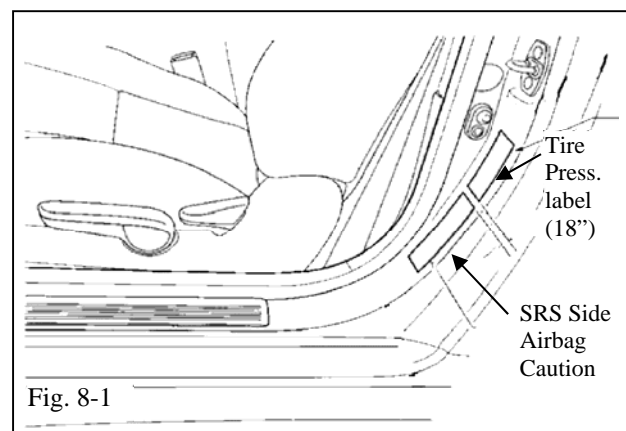
Procedure




- (d)  Using a digital torque wrench, measure the torque of each valve stem nut and record it on the Torque Audit Sheet (Fig. 6-3). (PPO installation only. Does not apply to DIO installation.)
- (e) Lower the vehicle.
- (f) Tire pressure should be adjusted to the value recommended in the owner's manual for this vehicle  $\pm 2$  PSI, process check only. Install valve stem cap.



- 7. Center Cap Installation.**
-  (a) Install center caps on wheels. Gently push cap into wheel until cap snaps into place (Fig. 7-1).



- 8. 18" Tire Pressure Label.**
- (a) Clean the surface and a small area around the OE tire pressure label.
  - (b) Align the 18" wheel tire pressure label over the OE label (Fig. 8-1).
  -  (c) Affix the 18" tire pressure label.



**Procedure**

Tire size	Front tires: 225/40R18 88Y Rear tires: 255/40R18 95Y Spare tire: T125/70D17 98M
Front and rear tire inflation pressure (Recommended cold tire inflation pressure)	Driving in normal conditions Front tires: 2.4 kgf/cm <sup>2</sup> (240 kPa or bar, 34 psi) Rear tires: 2.6 kgf/cm <sup>2</sup> (260 kPa or bar, 37 psi) Driving in high speeds above 160 km/h (100 mph) (in countries where such speeds are permitted by law). Add 0.7 kgf/cm <sup>2</sup> (70 kPa or bar, 10 psi) to the front tires and rear tires. Never exceed the maximum cold tire inflation pressure molded on the tire sidewall.
Spare tire inflation pressure (Recommended cold tire inflation pressure)	4.2 kgf/cm <sup>2</sup> (420 kPa or bar, 60 psi)
Wheel size	Front wheels: 18 x 8J Rear wheels: 18 x 8-1/2J Spare wheel: 17 x 4T
Wheel nut torque	10.5 kgf·m (103 N·m, 76 ft·lbf) HOC-8002/00190

Fig. 9-1

**9. Vehicle Owner’s Manual Label -  
(Specification Section (Tire and Wheels)).**

- (a) Locate the heading “Type E.”
- (b) Locate the label with the heading “For 17” OE Wheel Upgrade Only”.
- (c) Remove the backing and place the label directly over the original text (Fig. 9-1).

**LEXUS IS 250/350 Sedan (RWD Only) 2006 -  
IS 250/350Convertible 2010 -**

**ALLOY WHEEL**

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

<u>Check:</u>	<u>Look For:</u>
<p><input type="checkbox"/> Correct tire pressure.</p> <p><input type="checkbox"/> Lug nut torque.</p> <p><input type="checkbox"/> TPMS sensor torque.</p> <p><input type="checkbox"/> Record Lug/Lock/TPMS torques.</p>	<p>Verify that the tire pressure is set to the value listed in the owner's manual <math>\pm</math> 2 PSI.</p> <p>Five lug nuts must be installed on each wheel to a torque of 103 Nm (76 ft-lbf).</p> <p>TPMS nut must be torqued to 4.0 N-m (36 lbf-in).</p> <p>Measure the torque of each lug/lock and TPMS sensor on all wheels and record it on the Torque Audit Sheet (PPO installation only. Does not apply to DIO installation.)</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>