Section I - Installation Preparation

**Part Number: PT904-52041** Section I - Installation Preparation

#### **Kit Contents**

Item #	Quantity Reqd.	Description
1	1	Alloy Wheel Painted

## **Hardware Bag Contents**

Item #	Quantity Reqd.	Description
1	1	Center Cap Painted
		(PT904-52040-CC)
2	4	Lug Nuts (PT904-52040-LN)
3	1	Valve Stem (type TR413)

### **Additional Items Required For Installation**

Item #	Quantity Reqd.	Description
1	As Required	Balance Weights Clip-on Type
		(Hofmann Standard)
2	As Required	Balance Weights Stick-on Type
		(Hofmann Standard)

#### **Conflicts**

Note: Wheel Cover

#### **Recommended Tools**

Safety Tools	
Safety Glasses	
Seat Protection	Blanket
Special Tools	
Wheel Balancing Machine	Hunter DSP9700 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
Thermometer	Infrared Non-contact
<b>Installation Tools</b>	
Valve Stem Insertion Tool	
Large Mark What all	
Lug Nut Wrench	
Rubber Mallet	
	0-250 lbf-ft (340 N-m)
Rubber Mallet	0-250 lbf-ft (340 N-m) 21 mm Deep Well
Rubber Mallet Torque Wrench Socket Balance Weight Pliers	` /
Rubber Mallet Torque Wrench Socket	` /
Rubber Mallet Torque Wrench Socket Balance Weight Pliers	` /
Rubber Mallet Torque Wrench Socket Balance Weight Pliers Clean Lint-free Cloth	` /
Rubber Mallet Torque Wrench Socket Balance Weight Pliers Clean Lint-free Cloth Wire Brush	21 mm Deep Well

<b>Special Chemicals</b>	
Tire Lube	Myers Tire Supply Sliptac
Cleaner (for rework only)	3M <sup>TM</sup> Prep Solvent-70

# **General Applicability**

Applicable to xB
Use with tire size 185/60-R15

### **Recommended Sequence of Application**

Item #	Accessory	
1	Alloy Wheel	
2	Wheel lock	

\*Mandatory

# 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.



**CRITICAL PROCESS:** Proceed with caution to ensure a quality installation.



**GENERAL PROCESS:** This highlights specific processes to ensure a quality installation.



TOOLS & EQUIPMENT: Calls out the specific tools and equipment recommended for this process.

Section II - Installation Procedure

### A. Vehicle Preparation.



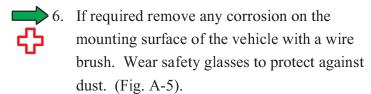
1. Firmly apply parking brake. (Fig. A-1)



- 2. Put transmission in "P" (Automatic) or reverse (Manual). (Fig. A-2)
- 3. Add seat protection (blanket) and apply foot brake using foot brake application tool. (Fig. A-3)
- 4. Lift vehicle.



5. Remove OE wheel and tire assembly from vehicle. Wear safety glasses while removing wheels. (Fig. A-4)



7. Dismount OE tire from the wheel.

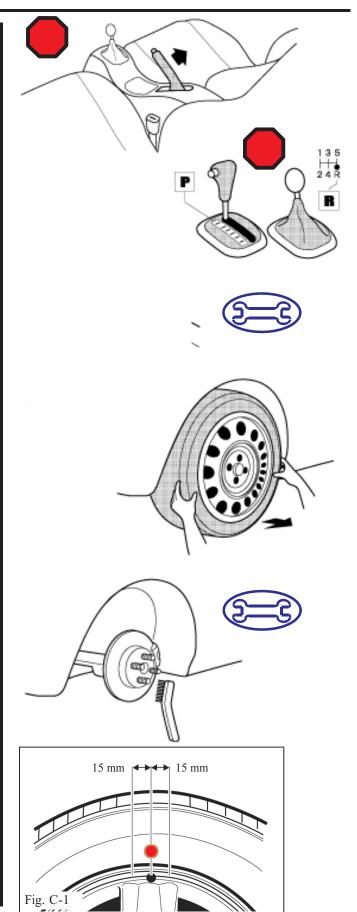
## **B.** Wheel Preparation.

1. Using the valve stem insertion tool, install valve stem on alloy wheels. Use a clean lint free cloth while using the tool to prevent scratches on the wheel surface.

#### C. Wheel Mounting.



- 1. Use tire lube on tire bead and bead location on wheel prior to mounting the tire. Remount OE tire on alloy wheel, matching tire heavy spot (red dot) with that of the wheel valve stem.
  - 2. The alignment of the marking must be within +/- 15 mm center to center. (Fig. C-1)



#### Section II - Installation Procedure



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 40 PSI.

#### D. Wheel Balancing.

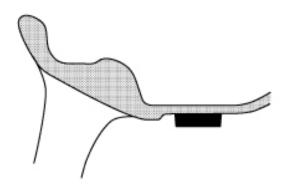
**NOTES:** This wheel requires stick-on type weights on outer and clip-on type weights on inner rim. Application temperature for stick-on type weight is above 10°C (50°F). It is good practice to apply the stick-on type in sections comprised of no more than 5 or 6 individual weight segments.

- 1. Mount wheel /tire on wheel balance machine and balance in DYNAMIC MODE. Enable the LOAD ROLLER, if applicable, to ensure proper bead seating. Use clip-on type balance weight on the inner rim lip and stick-on type weights at outer location. (Fig. D-1 & D-2)
- 2. Prior to mounting stick-on type 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 rubber mallet, if required, to achieve complete adhesion of stick type weight.

**NOTES:** Maximum clip-on type weight on inner lip is 80g. Maximum stick-on type weight at outer location is 98g. If removal and replacement of stick type weight is necessary, then remove the weight using a nylon removal tool. Clean the surface with clean cloth using 3M<sup>TM</sup> Prep Solvent-70. Wipe the surface dry before reapplying a new weight. **(DO NOT RE-USE STICK-ON WEIGHTS.)** 



Fig. D-1



Detail of Outer Location 

Stick-on Type Weight

Fig. D-2

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### Section II - Installation Procedure



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

#### E. Vehicle Wheel/Tire installation.



1. Install wheel/tire assembly on vehicle. Hand start the lug nuts during installation. Tighten lug nuts in sequence 1 through 4 (Fig. E-1). Ensure that the socket does not scuff the wheel. Tighten to 76 lbf-ft (103 N-m) using a torque wrench.



2. Lower vehicle and recheck lugnut tightness.

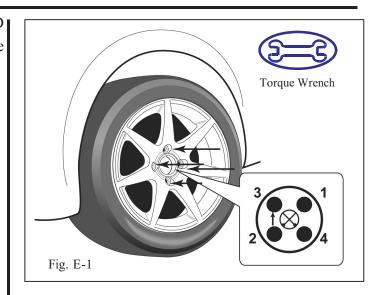


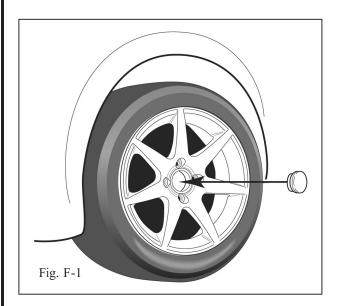
3. Tire pressure should be adjusted to the value recommended in the owner's manual for this vehicle. Install valve stem cap.

### F. Center Cap Installation.



1. Install center caps on wheels. Gently push cap into wheel until it snaps into place. (Fig. F-1).





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Section III - Functional Verifications

**ALLOY WHEEL** 



Section III - Functional Verifications

Check:

Inspect lug nuts.

Lug nut tightness.

Tire pressure.

Look For:

Four lug nuts must be installed on each wheel.

Tighten to 76 lbf-ft (103 N-m) torque.

Owner's Manual value +/- 2 PSI.