

2012 - Mazda6 - Suspension

WHEEL UNIT REMOVAL/ INSTALLATION

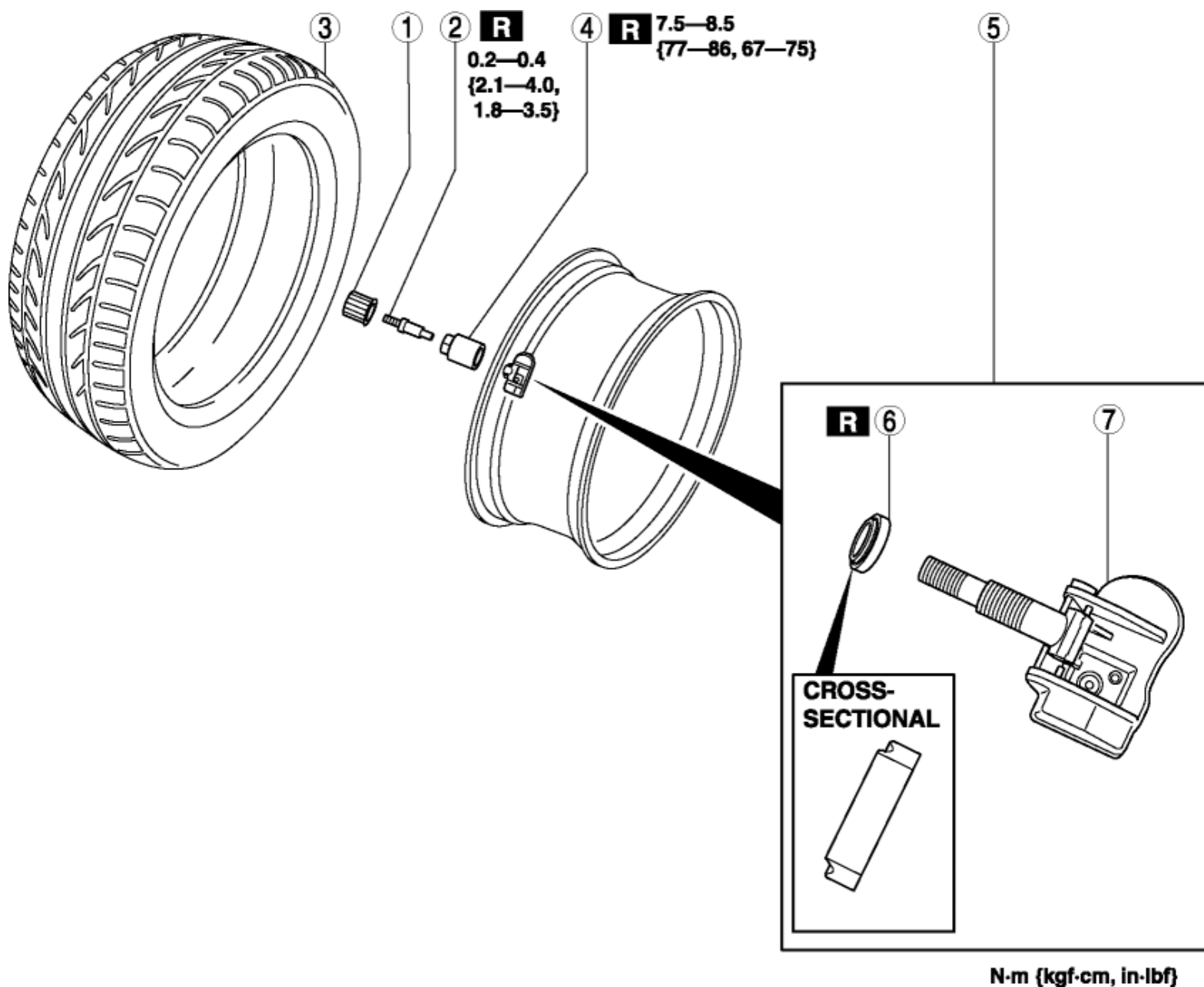
1. Remove in the order indicated in the table.
2. Install in the reverse order of removal.
3. Install the valve core and valve cap, put air into the tire.

CAUTION:

- A TPMS wheel unit has an exclusive valve cap and valve core. If a valve core other than the exclusive one is installed, the wheel unit could be damaged due to the generation of rust. Always install the exclusive valve cap and valve core for TPMS.
 - The wheel unit air pressure stem is made from aluminum and can be damaged. Do not tilt or use excessive side force when checking air pressure or filling tire with air. Some tire pressure gauges and air filling nozzles have extended tips, which can provide enough leverage to easily bend or break the wheel unit.
4. When replacing wheel unit (s), register the new wheel unit ID (s). (See **WHEEL UNIT ID REGISTRATION**.)

NOTE:

- If the wheel unit is replaced with a new one, the ID registration must be performed. When the ID registration is finished, the data for the new wheel unit is displayed on the M-MDS.



1	Valve cap
2	Valve core (See Valve Core Removal Note.)
3	Tire (See Tire Removal Note.) (See Tire Installation Note.)
4	Valve nut
5	Wheel unit component

(See [Wheel Unit Component Installation Note.](#))

6 Seal

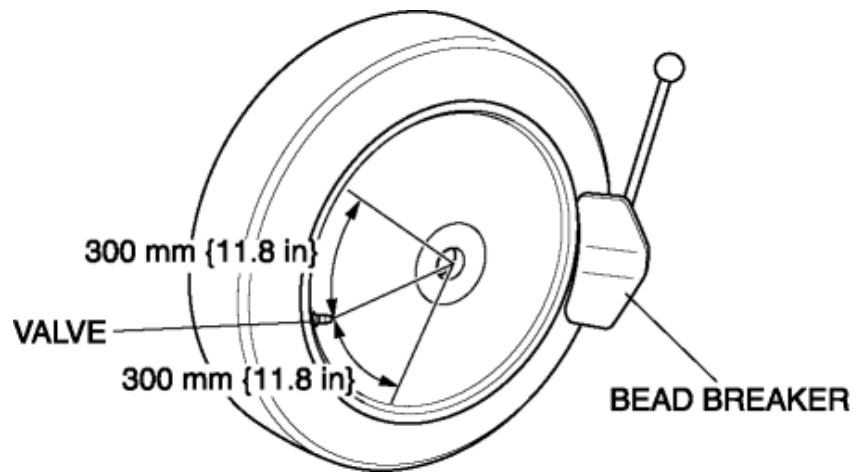
7 Wheel unit

Valve Core Removal Note

1. Remove the valve core of the wheel unit, and bleed the air from the tire.

Tire Removal Note

1. Set the bead breaker at the position laterally opposed to the valve.

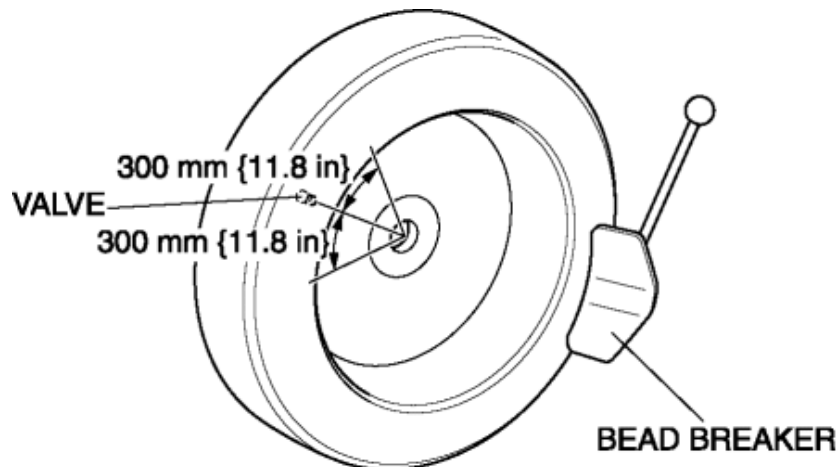


2. Break the bead loose.

CAUTION:

- Do not break the bead loose within the range of 300 mm {11.8 in} on each side of the valve. Otherwise, the wheel unit could be damaged.

3. Break the bead loose on the other side of the wheel.

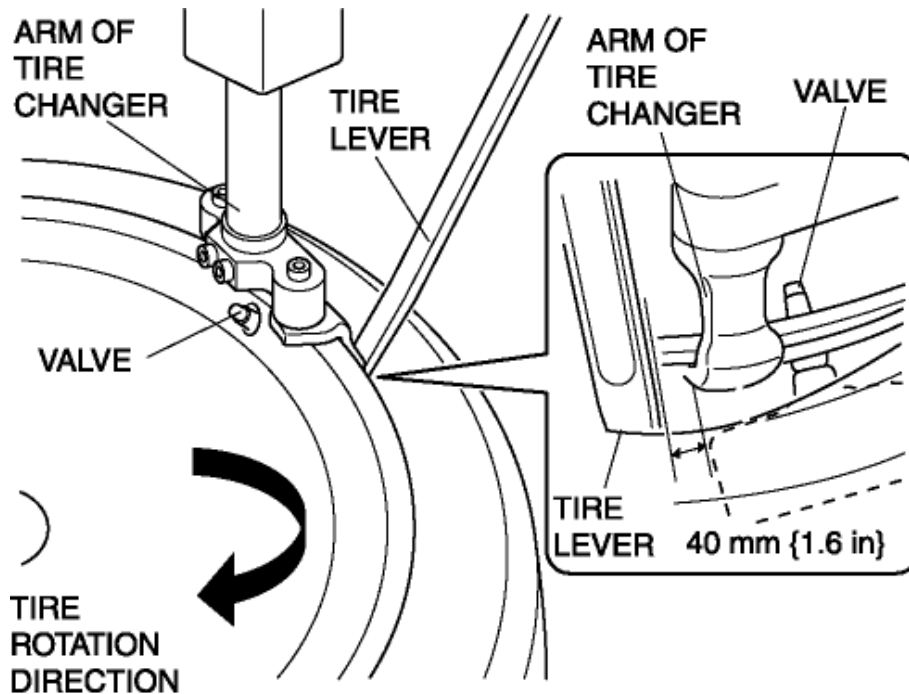


CAUTION:

- Set the bead breaker at the position laterally opposed to the valve.

- Do not break the bead loose within the range of 300 mm {11.8 in} on each side of the valve. Otherwise, the wheel unit could be damaged.

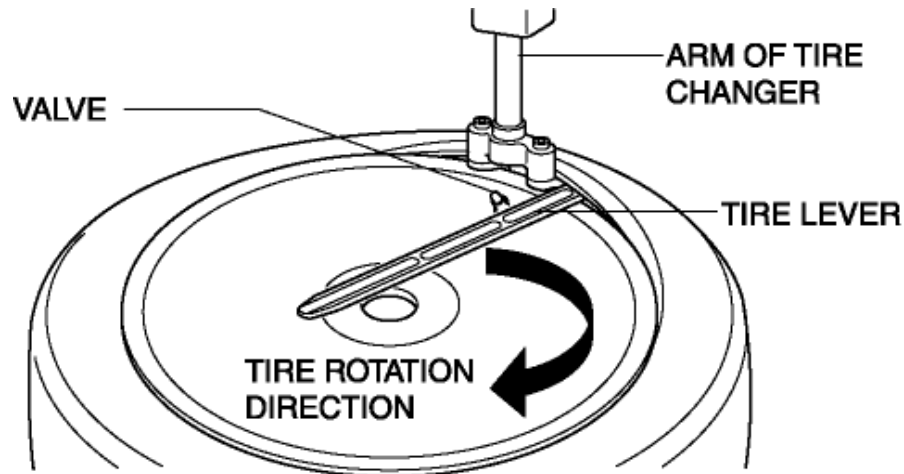
4. Insert the tire lever at the point **40 mm { 1.6 in }** from the wheel unit in the direction that the tire changer turntable rotates.



5. Remove the bead from the wheel.

NOTE:

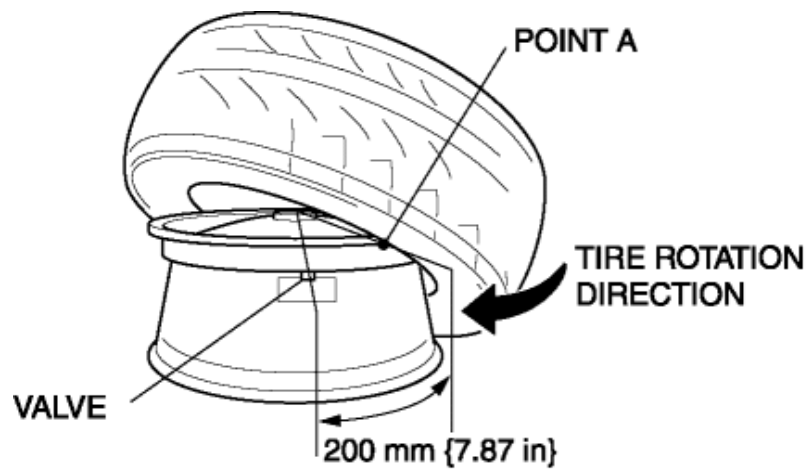
- Using the tire lever as a support will aid in preventing the tire changer arm from deviating from the point at which the bead is first broken.



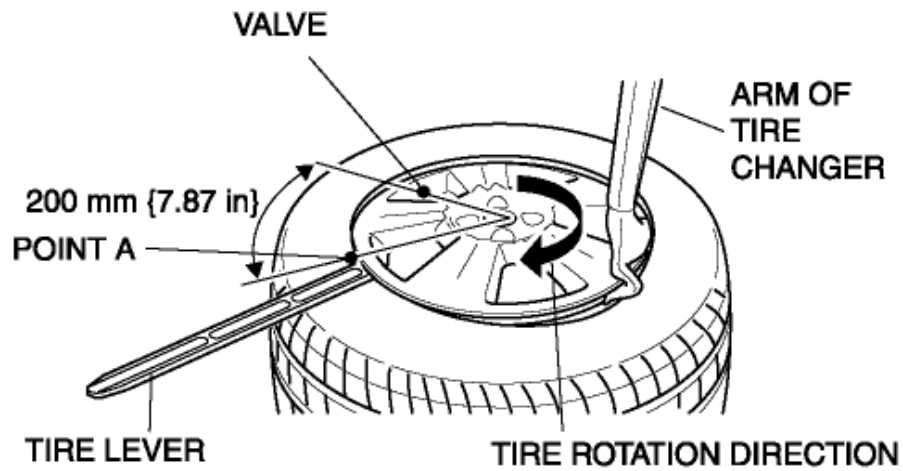
6. For the other side, insert the tire lever at the point of **40 mm { 1.6 in }** from the wheel unit in the direction that the tire changer turntable rotates, and remove the bead from the wheel.

Tire Installation Note

1. Set the tire at the point A (**200 mm { 7.87 in }** away from the valve hole), and install the tire.



2. Set the tire at the point A (200 mm { 7.87 in } away from the valve hole).



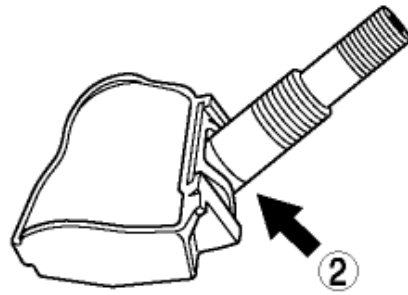
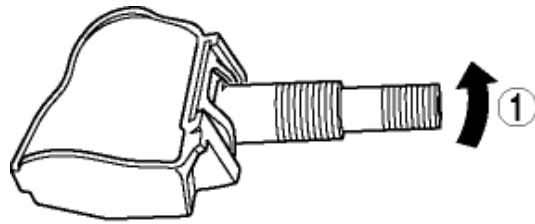
NOTE:

- Using the tire lever as a support will aid in preventing the tire from deviating from the point A.

3. Install the tire.

Wheel Unit Component Installation Note

1. Insert the valve into the wheel unit in the order shown in the figure.



2. Verify that the valve is installed into the wheel unit completely as shown in the figure.



3. Insert the wheel unit valve into the valve hole so that the polyurethane foam side faces the wheel.

4. Temporarily tighten the valve nut by hand.

5. Completely tighten the valve nut using a torque wrench.

Tightening torque

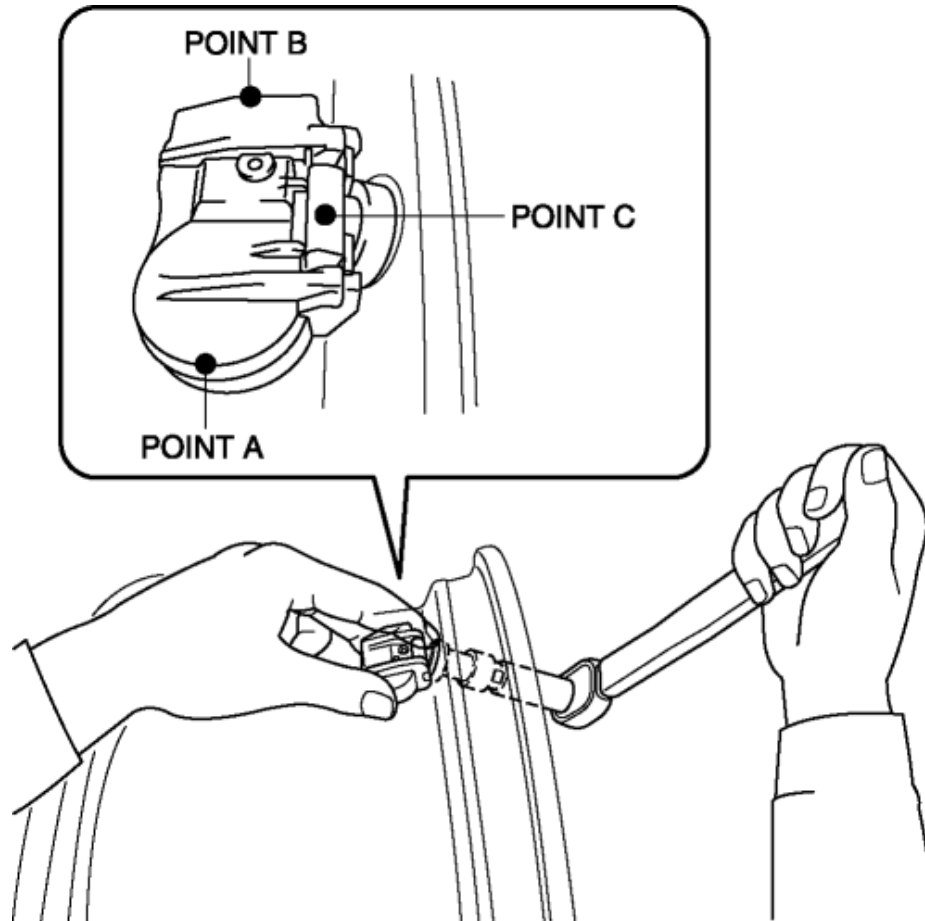
- 7.5—8.5 N·m {77—86 kgf·cm, 67—75 in·lbf}

CAUTION:

- Do not retighten the valve nut after the initial operation.

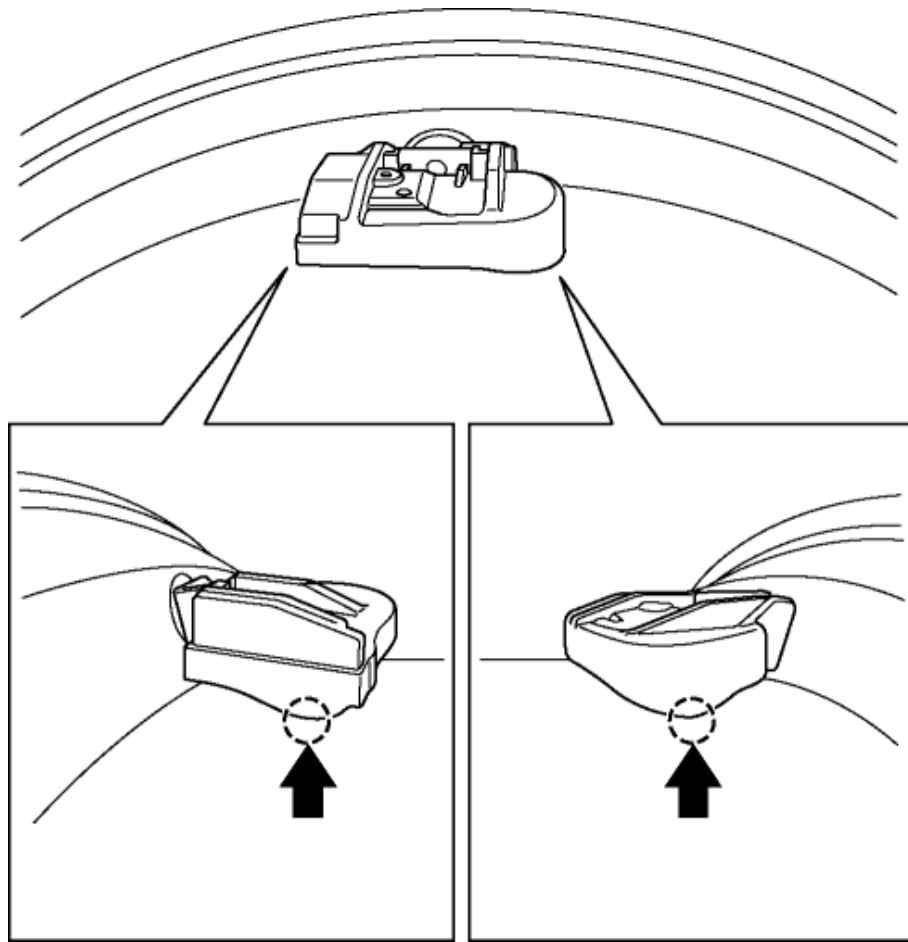
NOTE:

- Hold the end of the wheel unit (POINTS A and B) with your thumb and middle fingers so that the wheel unit does not rotate, and then hold the valve (POINT C) with your index finger so that the valve does not detach from the wheel unit.

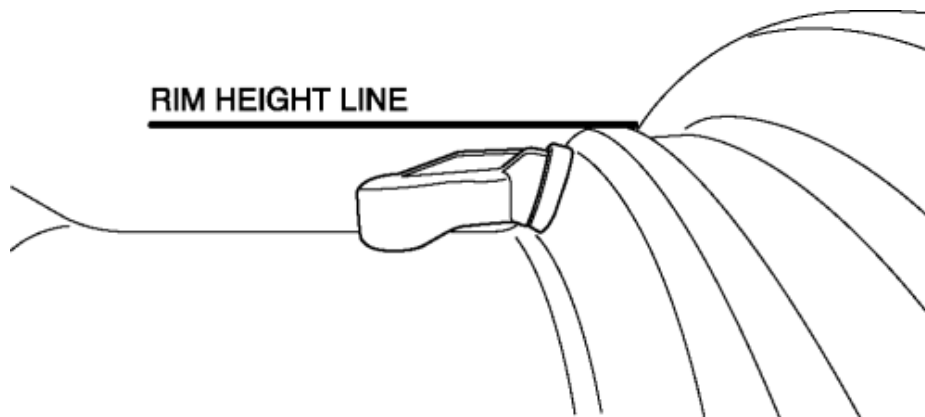


6. Verify that the wheel unit component is correctly installed.

- Both ends or one end of the wheel unit contacts the wheel as shown in the figure.



- The wheel unit does not exceed the rim height as shown in the figure.



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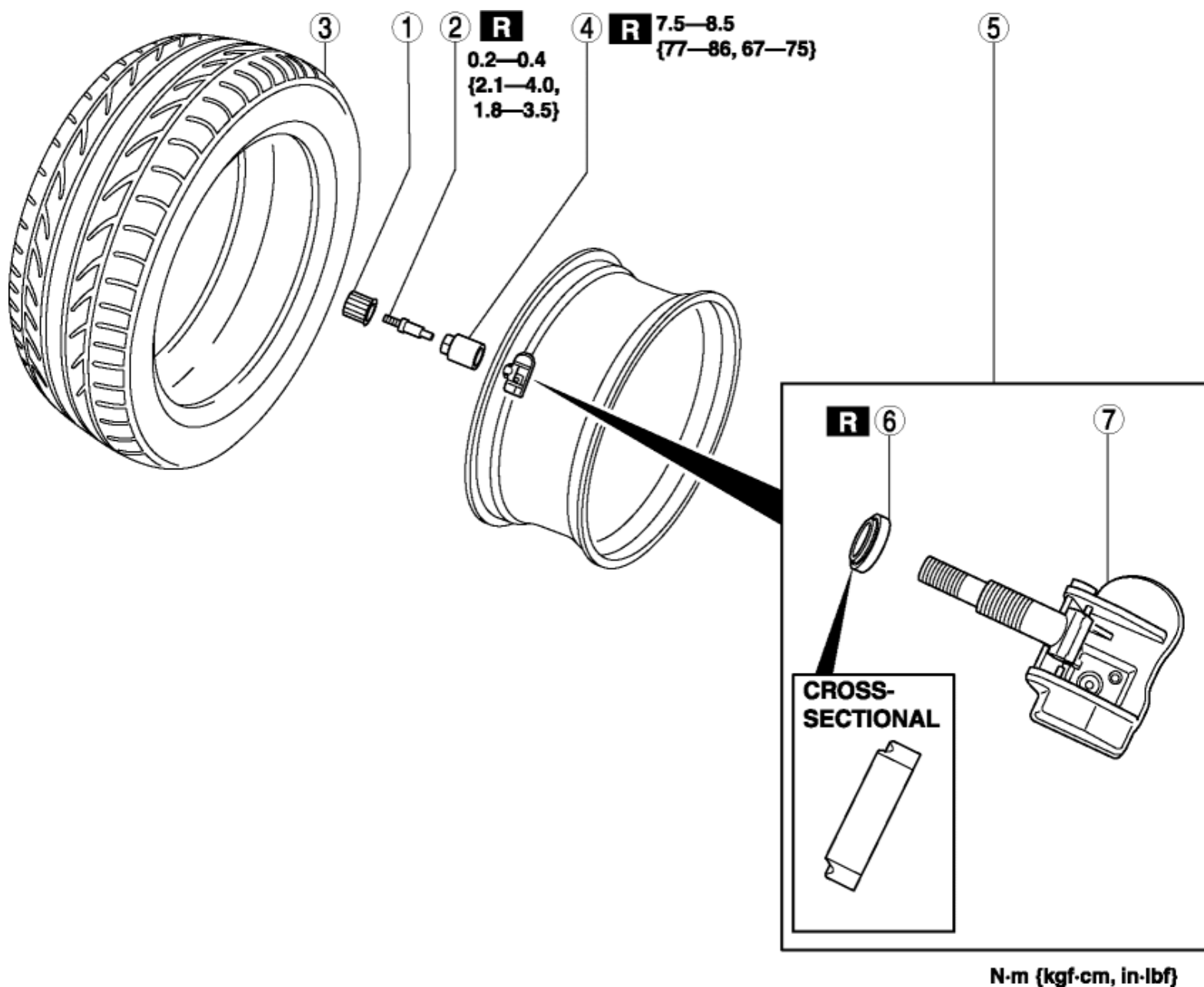
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4. When replacing wheel unit (s), register the new wheel unit ID (s). (See **WHEEL UNIT ID REGISTRATION**.)

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1 Valve cap

2 Valve core

(See [Valve Core Removal Note.](#))

3 Tire

(See [Tire Removal Note.](#))

(See [Tire Installation Note.](#))

4 Valve nut

5 Wheel unit component

(See [Wheel Unit Component Installation Note.](#))

6 Seal

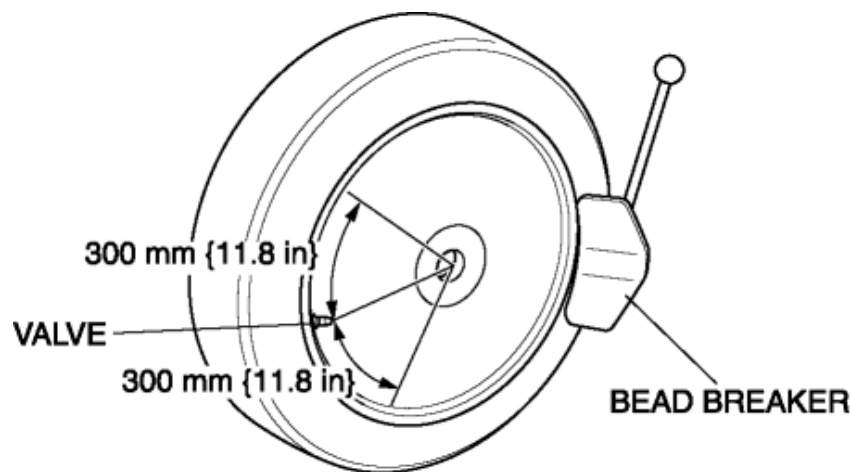
7 Wheel unit

Valve Core Removal Note

1. Remove the valve core of the wheel unit, and bleed the air from the tire.

Tire Removal Note

1. Set the bead breaker at the position laterally opposed to the valve.

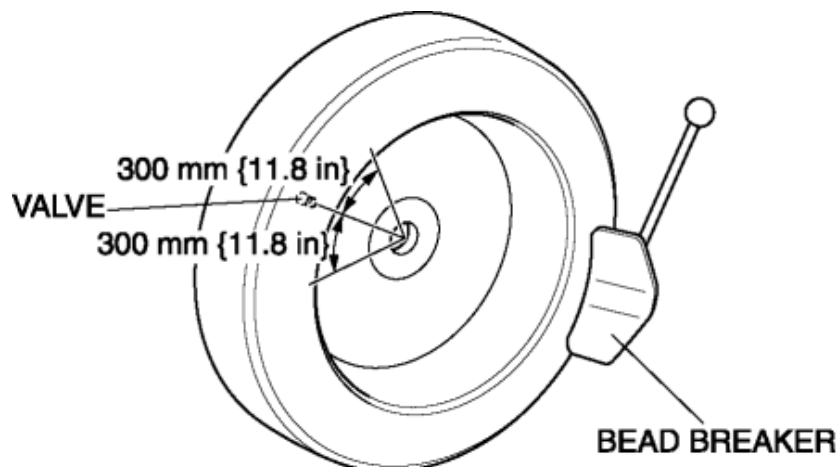


2. Break the bead loose.

CAUTION:

- Do not break the bead loose within the range of 300 mm {11.8 in} on each side of the valve. Otherwise, the wheel unit could be damaged.

3. Break the bead loose on the other side of the wheel.

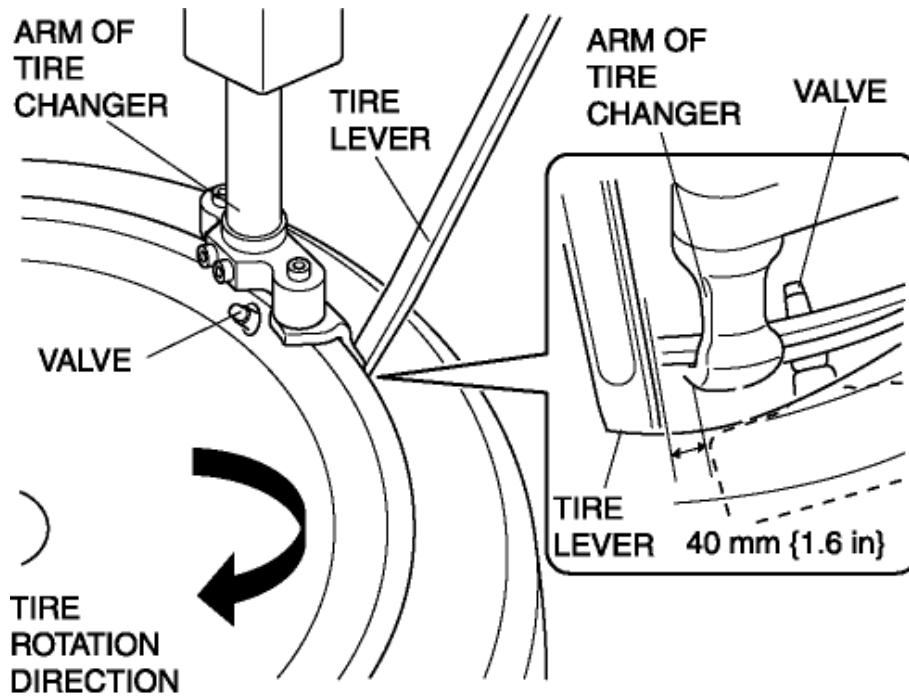


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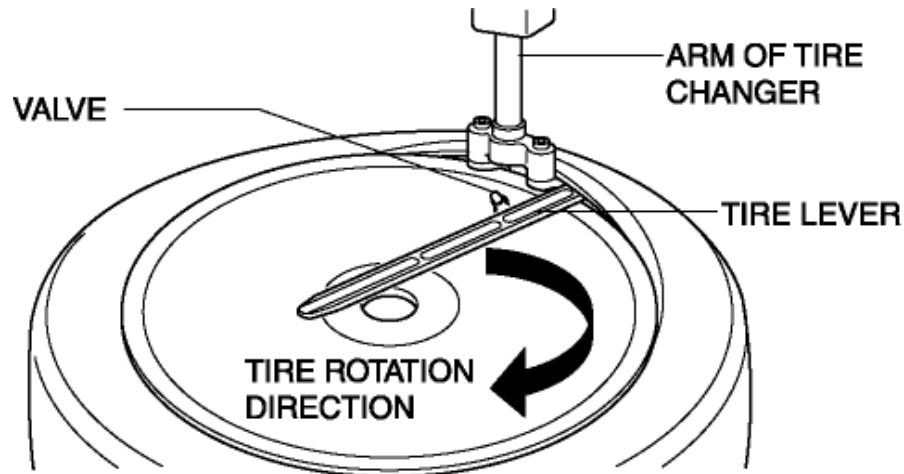
4. Insert the tire lever at the point **40 mm { 1.6 in }** from the wheel unit in the direction that the tire changer turntable rotates.



5. Remove the bead from the wheel.

NOTE:

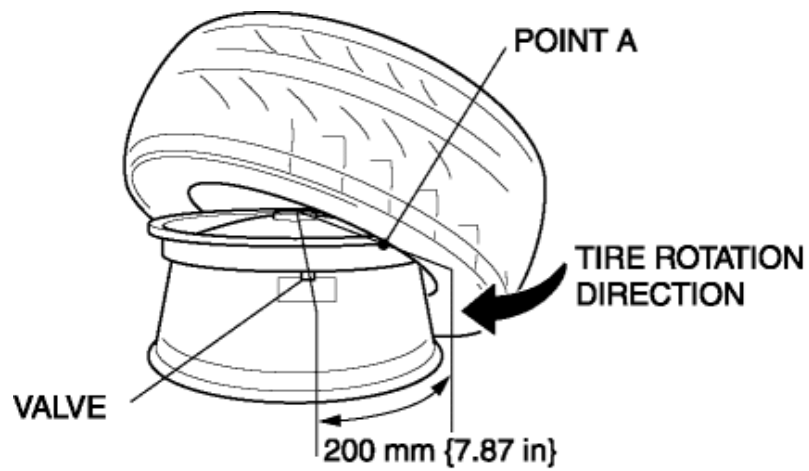
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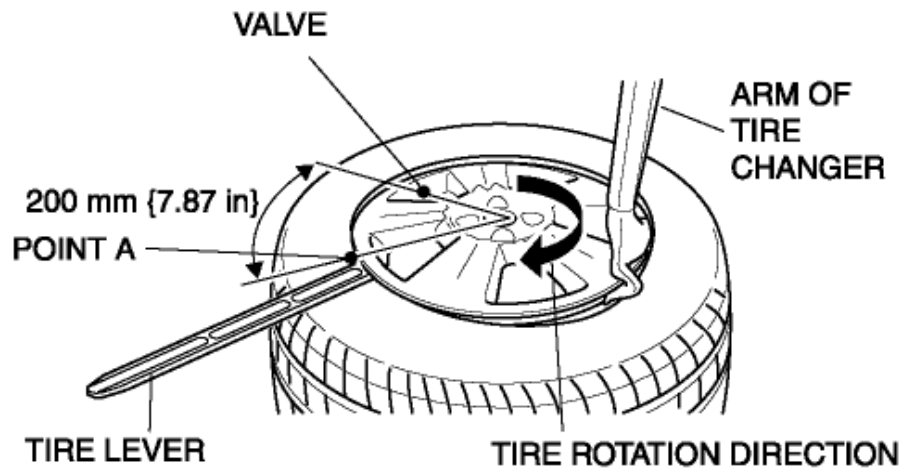
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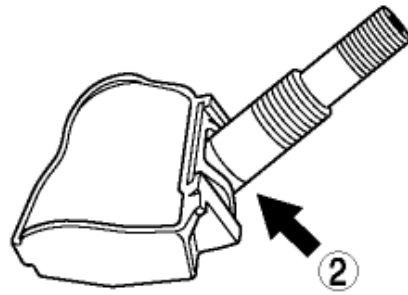
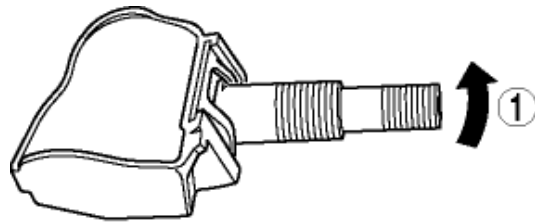
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Tightening torque

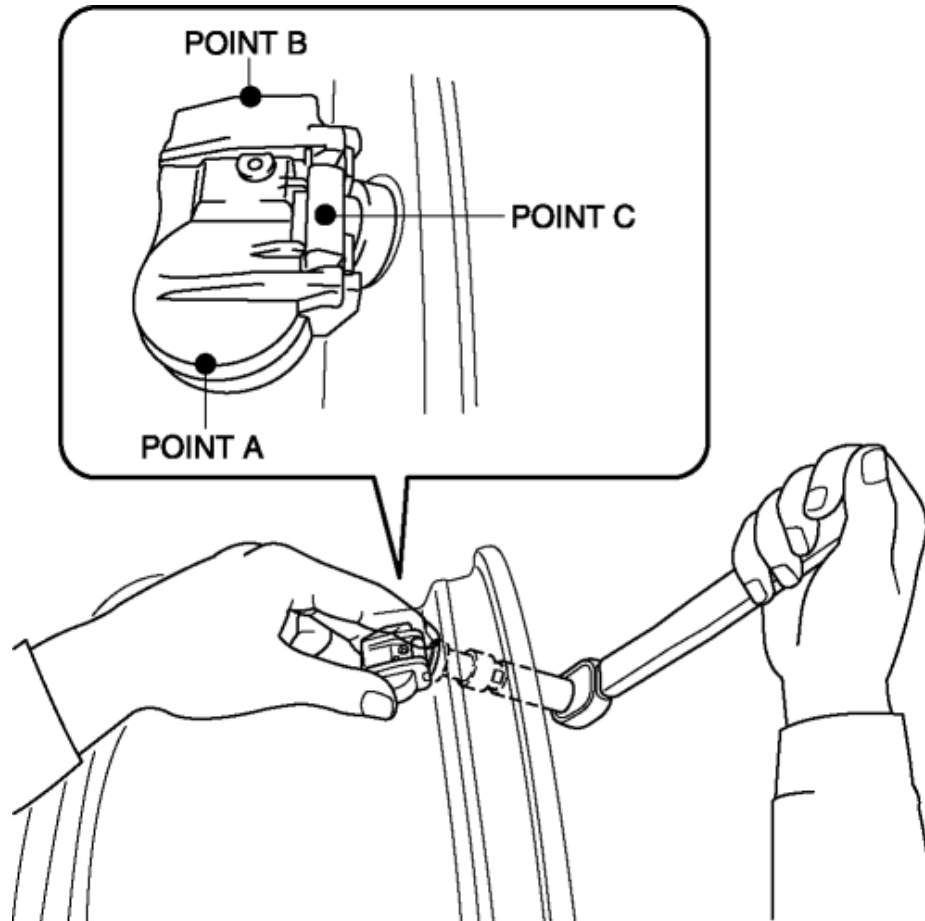
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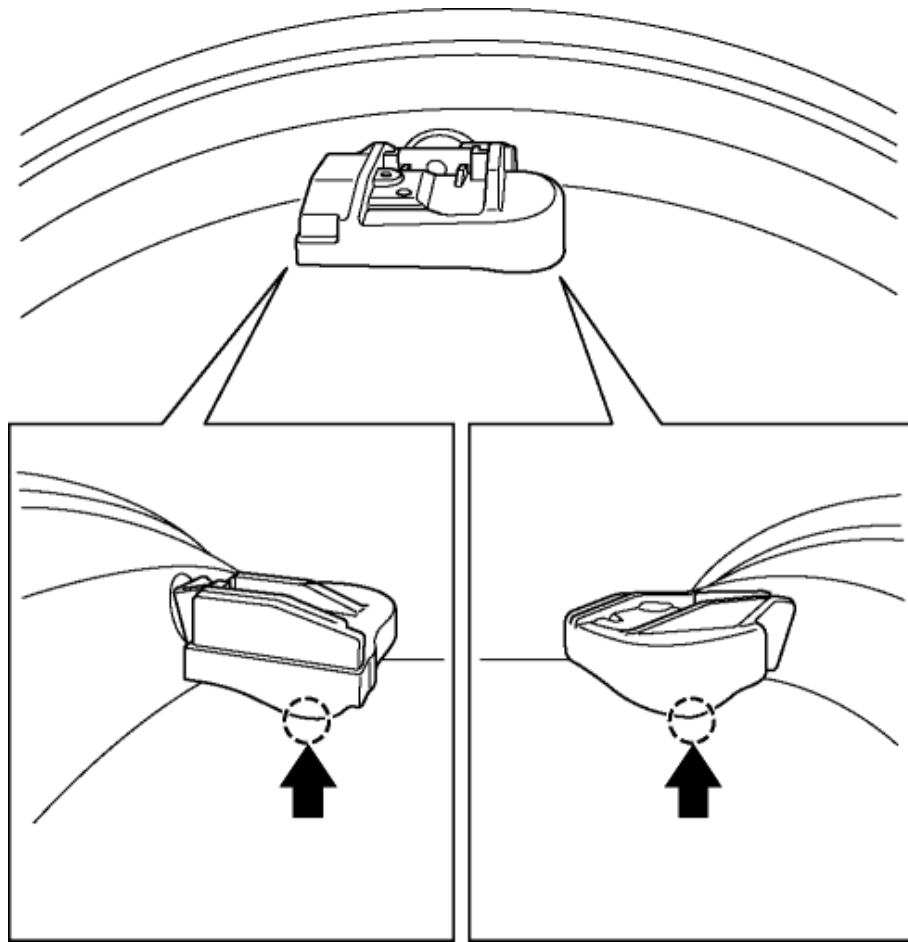
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