



Technical Service Bulletin

SUBJECT:		NO: TSB-23-31-001	
ADDITION OF DISASSEMBLY/REASSEMBLY PROCEDURE FOR THE TPMS TRANSMITTER - SERVICE MANUAL REVISION		DATE: January 2023	
		MODEL: See below	
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

PURPOSE

This TSB provides the disassembly/reassembly procedures for the Tire Pressure Monitoring System (TPMS) Transmitter.

AFFECTED VEHICLES

- 2014-15 and 2017-21 Mirage
- 2017-2021 Mirage G4

AFFECTED SERVICE MANUAL

- 2014-15 and 2017-21 Mirage Service Manual, Group 31 - Wheel and Tire
- 2017-2021 Mirage G4 Service Manual, Group 31-Wheel and Tire

PROCEDURE

Please use the chart below and replace the indicated pages of the affected Service Manual, Group 31 - Wheel and Tire, Tire Pressure Monitoring System (TPMS).

TRANSMITTER COMPATIBILITY

Type of TPMS Transmitter	Applicable period
Clamp-in type	Up to end of March 2021
Snap-in type	From early of April 2021
Both types of TPMS Transmitters are compatible	



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The information contained in this bulletin is subject to change. For the latest version of this document, go to the Mitsubishi Dealer Link, MEDIC, or the Mitsubishi Service Information website (www.mitsubishitechinfo.com).

MIRAGE

Applicable manual	Pub. No.	Applicable title (INFO-ID/SIE No.)	Content
2014 MIRAGE Service Manual	MSCD-016B-2014	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 2
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14
2015 MIRAGE Service Manual	MSCD-016B-2015	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 3
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14
2017 MIRAGE Service Manual	MSCD-016B-2017	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 4
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14
2018 MIRAGE Service Manual	MSCD-016B-2018	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 5
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14
2019 MIRAGE Service Manual	MSCD-016B-2019	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 6
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14
2020 MIRAGE Service Manual	MSCD-016B-2020	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 7
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14
2021 MIRAGE Service Manual	MSCD-016B-2021	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 8
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14

MIRAGE G4

Applicable manual	Pub. No.	Applicable title (INFO-ID/SIE No.)	Content
2017 MIRAGE G4 Service Manual	MSCD-018B-2017	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 9
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14
2018 MIRAGE G4 Service Manual	MSCD-019B-2018	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 10
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14
2019 MIRAGE G4 Service Manual	MSCD-019B-2019	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 11
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14
2020 MIRAGE G4 Service Manual	MSCD-019B-2020	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 12
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14
2021 MIRAGE G4 Service Manual	MSCD-019B-2021	TPMS TRANSMITTER REMOVAL AND INSTALLATION	Attached sheet 13
		Added below "TPMS TRANSMITTER REMOVAL AND INSTALLATION"	Attached sheet 14

TIRE PRESSURE MONITORING SYSTEM (TPMS)

TPMS RECEIVER

REMOVAL AND INSTALLATION

Refer to GROUP 54A – ETACS-ECU [P.54A-274](#)
<vehicles without KOS> or GROUP 42B – KOS-ECU
[P.42B-173](#) <vehicles with KOS>.

M1311003700135

TPMS TRANSMITTER

REMOVAL AND INSTALLATION **<SNAP IN TYPE>** <Added>

M1311003800154

⚠ WARNING

Certain components of this vehicles, such as TPMS transmitters, may contain perchlorate materials. Special handling may apply. For additional information, see www.dtsc.ca.gov/hazardouswaste/perchlorate.

⚠ CAUTION

- Ensure valve cap is always in place except when adjusting tire pressure.
- If the valve core and valve cap are replaced, use a genuine replacement part. The valve core is similar to a conventional one, but uses nickel plating to avoid corrosion.
- Replace the valve with a new one every five years or when the tire is replaced.
- Do not drop the TPMS transmitter from height greater than 1 meter (3.3 feet).
- Do not expose the TPMS transmitter to extraneous magnetic fields.
- TPMS transmitter should not be stored at temperatures above 80°C (176°F).
- TPMS transmitter should not be exposed to temperatures above 100°C (212°F).
- If the TPMS transmitter is replaced, execute "Tire Pressure Sensor ID Registration" on scan tool MB991958 "Special Function."
- Be careful not to damage the TPMS transmitter.

Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to [P.31-36](#)).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

TPMS TRANSMITTER

REMOVAL AND INSTALLATION <SNAP IN TYPE> <Added>

M1311003800154

WARNING

Certain components of this vehicles, such as TPMS transmitters, may contain perchlorate materials. Special handling may apply. For additional information, see www.dtsc.ca.gov/hazardouswaste/perchlorate.

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- Be careful not to damage the TPMS transmitter.

Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to [P.31-42](#)).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

TPMS RECEIVER

REMOVAL AND INSTALLATION

M1311003700180

Refer to GROUP 54A – ETACS-ECU [P.54A-304](#) <vehicles without Keyless Operation System> or GROUP 42B – KOS&OSS-ECU [P.42B-151](#) <vehicles with Keyless Operation System>.

TPMS TRANSMITTER

REMOVAL AND INSTALLATION **<SNAP IN TYPE>** <Added>

M1311003800284

⚠ WARNING

Certain components of this vehicle, such as TPMS sensors may contain perchlorate materials. Before deployment and/or disposal of these components, review and comply with all applicable Federal, state and local regulations.

⚠ CAUTION

- Ensure valve cap is always in place except when adjusting tire pressure.
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- If the TPMS transmitter is replaced, execute "Tire Pressure Sensor ID Registration" on scan tool (M.U.T.-III) "Special Function."
- Be careful not to damage the TPMS transmitter.

Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to [P.31-39](#)).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

TPMS RECEIVER

REMOVAL AND INSTALLATION

Refer to GROUP 54A – ETACS-ECU [P.54A-337](#) <vehicles without Keyless Operation System> or GROUP 42B – KOS&OSS-ECU [P.42B-147](#) <vehicles with Keyless Operation System>.

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TPMS TRANSMITTER

REMOVAL AND INSTALLATION <SNAP IN TYPE> <Added>

M1311003800284

WARNING

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- Be careful not to damage the TPMS transmitter.

Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to [P.31-40](#)).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

TPMS TRANSMITTER

REMOVAL AND INSTALLATION <SNAP IN TYPE> <Added>

M1311003800284

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Certain components of this vehicle, such as TPMS sensors may contain perchlorate materials. Before deployment and/or disposal of these components, review and comply with all applicable Federal, state and local regulations.

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- Be careful not to damage the TPMS transmitter.

Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to P.31-41).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

TPMS TRANSMITTER

REMOVAL AND INSTALLATION <SNAP IN TYPE> <Added>

M1311003800284

⚠ WARNING

Certain components of this vehicle, such as TPMS sensors may contain perchlorate materials. Before deployment and/or disposal of these components, review and comply with all applicable Federal, state and local regulations.

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- Be careful not to damage the TPMS transmitter.

Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to [P.31-40](#)).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

TPMS RECEIVER

REMOVAL AND INSTALLATION

M1311003700180

Refer to GROUP 54A - ETACS-ECU [P.54A-7](#)<vehicles without Keyless Operation System> or GROUP 42B - KOS&OSS-ECU [P.42B-143](#)<vehicles with Keyless Operation System>.

TPMS TRANSMITTER

REMOVAL AND INSTALLATION <SNAP IN TYPE> <Added>

M1311003800284

WARNING

Certain components of this vehicle, such as TPMS sensors may contain perchlorate materials. Before deployment and/or disposal of these components, review and comply with all applicable Federal, state and local regulations.

CAUTION

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- Be careful not to damage the TPMS transmitter.

Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to [P.31-39](#)).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

TPMS RECEIVER

REMOVAL AND INSTALLATION

Refer to GROUP 54A – ETACS-ECU [P.54A-298](#) <vehicles without Keyless Operation System> or GROUP 42B – KOS&OSS-ECU [P.42B-156](#) <vehicles with Keyless Operation System>.

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TPMS TRANSMITTER

REMOVAL AND INSTALLATION <SNAP IN TYPE> <Added>

M1311003800284

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Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to [P.31-40](#)).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

TPMS RECEIVER

REMOVAL AND INSTALLATION

Refer to GROUP 54A – ETACS-ECU [P.54A-317](#) <vehicles without Keyless Operation System> or GROUP 42B – KOS&OSS-ECU [P.42B-157](#) <vehicles with Keyless Operation System>.

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TPMS TRANSMITTER

REMOVAL AND INSTALLATION <SNAP IN TYPE> <Added>

M1311003800284

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Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to [P.31-40](#)).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

TPMS TRANSMITTER

REMOVAL AND INSTALLATION <SNAP IN TYPE> <Added>

M1311003800284

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- Be careful not to damage the TPMS transmitter.

Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to [P.31-42](#)).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

TPMS TRANSMITTER

REMOVAL AND INSTALLATION <SNAP IN TYPE> <Added>

M1311003800284

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- Be careful not to damage the TPMS transmitter.

Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to [P.31-40](#)).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

TPMS RECEIVER

REMOVAL AND INSTALLATION

M1311003700180

Refer to GROUP 54A - ETACS-ECU

[P.54A-328](#)<vehicles without Keyless Operation System> or GROUP 42B - KOS&OSS-ECU

[P.42B-150](#)<vehicles with Keyless Operation System>.

TPMS TRANSMITTER

REMOVAL AND INSTALLATION <SNAP IN TYPE> <Added>

M1311003800284

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- Be careful not to damage the TPMS transmitter.

Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed (Refer to [P.31-39](#)).
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

<Added>

REMOVAL AND INSTALLATION <SCREW TIGHTENING TYPE>**⚠ WARNING**

Certain components of this vehicle, such as TPMS sensors may contain perchlorate materials. Before deployment and/or disposal of these components, review and comply with all applicable Federal, state and local regulations.

⚠ CAUTION

- Ensure valve cap is always in place except when adjusting tire pressure.
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- If the TPMS transmitter is replaced, execute "Tire Pressure Sensor ID Registration" on scan tool (M.U.T.-III) "Special Function."
- Be careful not to damage the TPMS transmitter.

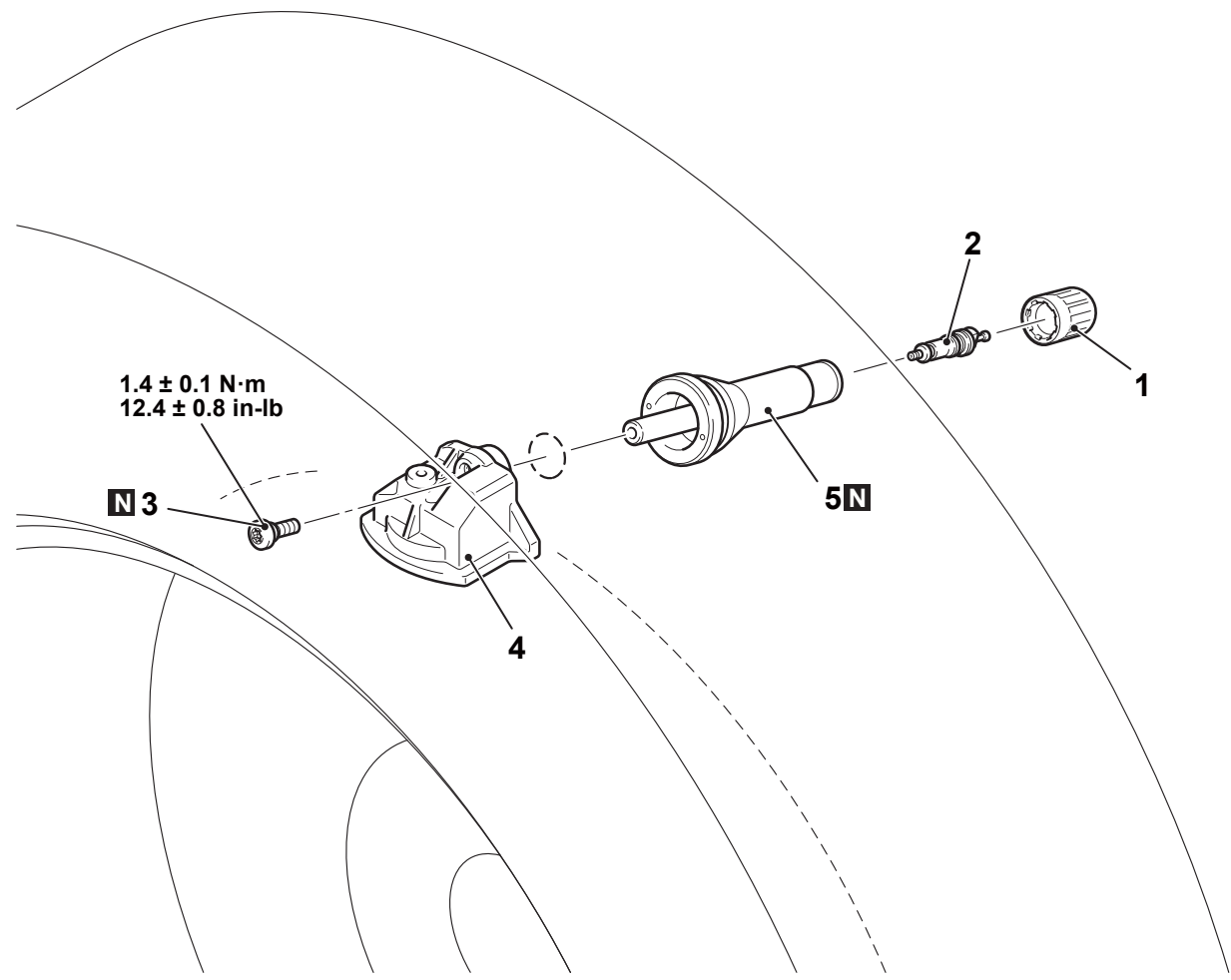
Pre-removal Operation

- Wheel and Tire Removal

Post-installation Operation

- Wheel and Tire Installation
- Tire Pressure Sensor ID Registration If a new TPMS transmitter is installed.
- After the tire pressure sensor ID registration, check that the TPMS warning light does not illuminate or flash.

<Added>



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Removal steps

1. Cap
2. Valve core
 - Tire bead disengaging
3. Screw
4. TPMS transmitter
5. Valve <In case of removing the valve>

>>A<<

Installation steps

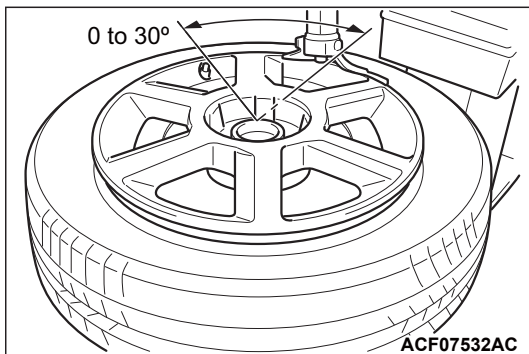
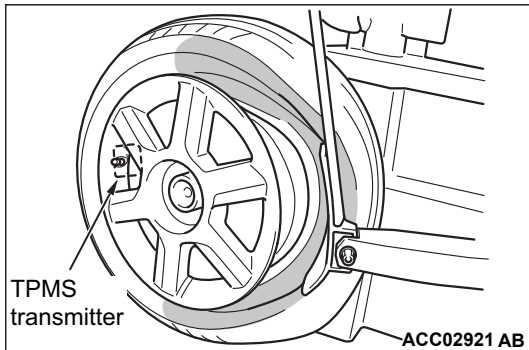
5. Valve <In case of installing the valve>
4. TPMS transmitter
3. Screw
 - Tire bead engaging
2. Valve core
 - Tire pressure inflation
1. Cap

<Added>

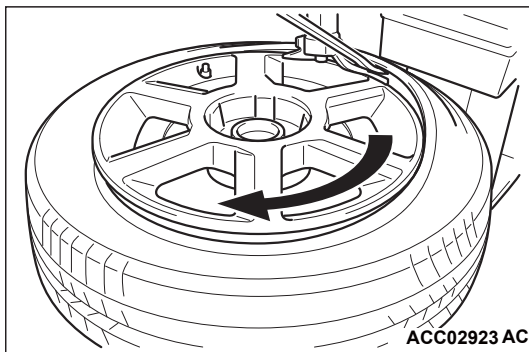
REMOVAL SERVICE POINT**<<A>> TIRE BEAD DISENGAGING****⚠ CAUTION****Be careful not to damage the TPMS transmitter.**

1. Fix the tire on a tire changing machine. Then apply a bead breaking shoe to the shown range to disengage the tire bead from the wheel rim.

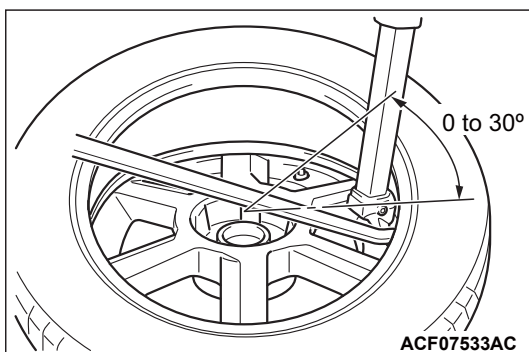
NOTE: For the opposite side, repeat the same procedure.



2. Fix the tire on a tire changing machine so that the TPMS transmitter is positioned as shown.

⚠ CAUTION**Do not allow any impact or shock to the TPMS transmitter with a tire lever or tire bead.**

3. Use a tire lever to disengage the upper bead.
4. Rotate the tire in the direction of arrow to disengage the tire bead from the wheel.



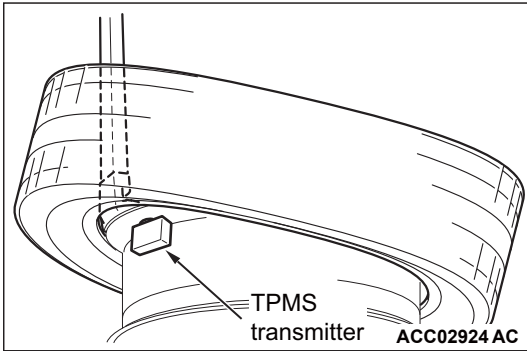
5. Fix the tire on a tire changing machine so that the TPMS transmitter is positioned as shown.

<Added>

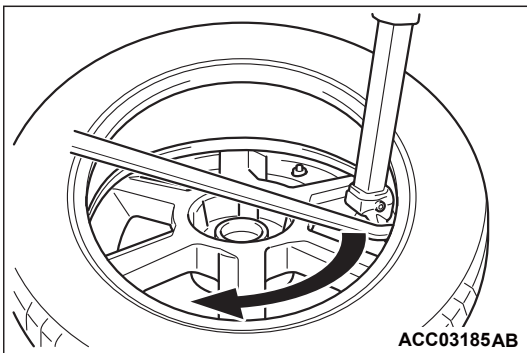
⚠ CAUTION

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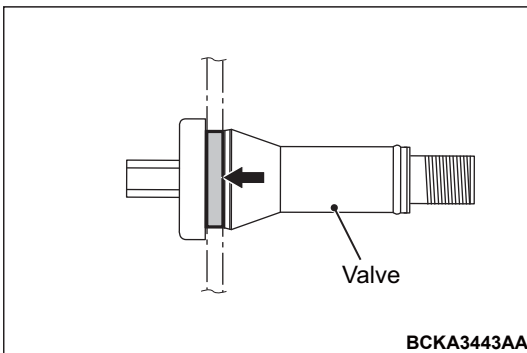
6. Use a tire lever to disengage the lower bead.



7. Rotate the tire in the direction of arrow to disengage the tire bead from the wheel.

**<> VALVE REMOVAL**

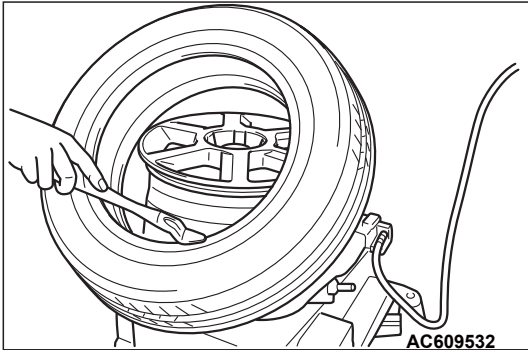
Cut down the entire groove shown by the arrow to remove the valve.



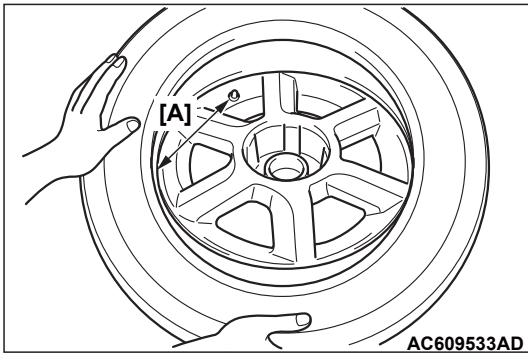
<Added>

INSTALLATION SERVICE POINTS**>>A<< TIRE BEAD ENGAGING**

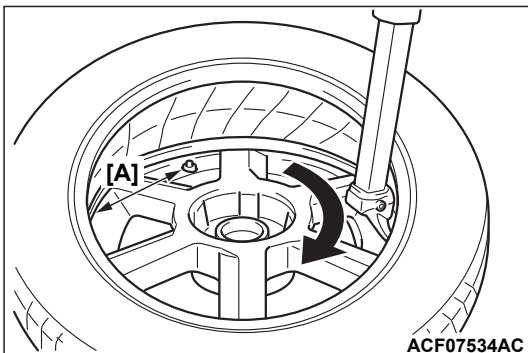
1. Prepare the tire and fix the rim as usual.



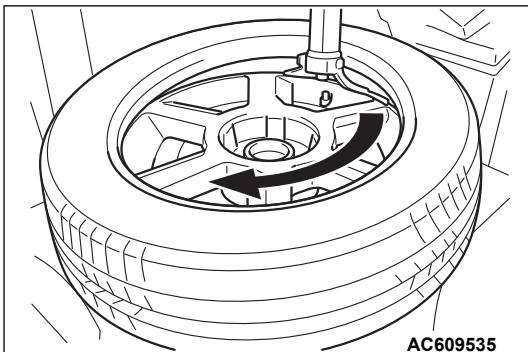
2. Put the tire on the rim, so that the cross point of the bead with the rim is approximately 20 cm (7.9 inch) [A] away from the valve.



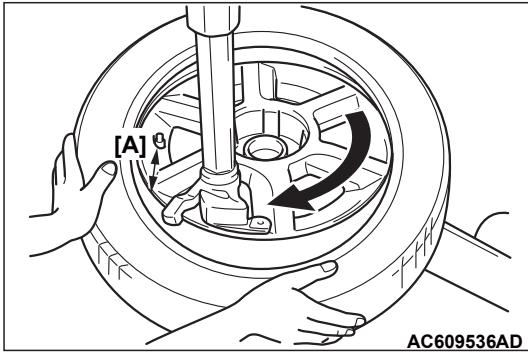
3. Engage the shoe and make sure that 20 cm (7.9 inch) [A] is maintained between the cross point and the valve. The arrow shows the direction of rotation of the wheel.



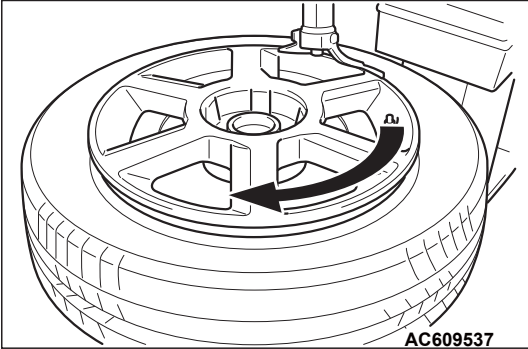
4. Turn the wheel in order to engage all the first side of the tire.
NOTE: The standard shoes can pass over the sensor without damaging it.



<Added>



5. Put the second side of the tire in position, so that the cross point of the bead with the rim is approximately 20 cm (7.9 inch) [A] away from the valve. The curved arrow shows the direction of rotation of the wheel.



6. Turn the wheel in order to engage all of the second side of the tire.

NOTE: The standard shoes can pass over the sensor without damaging it.