SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CORRECTION	ISSUE NO. : MSB-15E31_54-501	DATE : 2015-02-23
SUBJECT : Error in writing of some description regarding TPMS		<DESTINATION/MODEL> (EU/RUSSIA) <M/Y> 15
GROUP : Gr:31(Wheel/Tyre) / 54(Chassis Electrical)		Pajero/Montero(V80/90)

1. Description :

Please refer to the attached document for the correction of the error in writing existing in the applicable service manual.

2. Affected service manuals :

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2015 PAJERO/MONTERO Workshop Manual	CVWE15E1-CD (Eng) CVWF15E1-CD (Fre) CVWG15E1-CD (Ger) CVWS15E1-CD (Spa) CVWI15E1-CD (Ita) RUSSIA:N/A	General information (M311-00-011-82500-01)	Attached sheet (1/5)
		TPMS warning lamp check (M311-00-250-10500-01)	Attached sheet (2/5)-(4/5)
		TPMS receiver removal and installation (M311-00-370-17900-01)	Attached sheet (4/5)
		General information (M540-20-841-20400-01)	Attached sheet (5/5)

3. About the details :

Please refer to the attached document (Attached sheets 1/5-5/5)

TPMS WARNING LAMP AND DISPLAY <Deleted>

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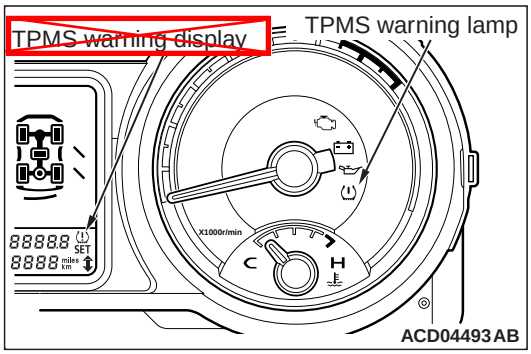

The TPMS warning lamp on the combination meter illuminates or flashes* to alert the driver by request from TPMS receiver. When the tyre pressure warning or the fault warning is activated, a warning symbol are displayed on the combination meter.

TPMS TRANSMITTER (TYRE PRESSURE SENSOR)

The TPMS transmitter combines the valve and tyre pressure sensor in a single unit. The TPMS transmitters are mounted inside the tyres. The TPMS transmitter measures tyre pressure directly with its tyre pressure sensor and sends radio frequency signals to TPMS receiver. The TPMS transmitter includes acceleration sensor that senses tyre rotation, and change tyre pressure sampling and data transmission timing when vehicle is running.

NOTE: Use only genuine wheels. The use of non-genuine wheels may cause the improper installation of the TPMS transmitters, possibly resulting in air leakage and damage to the TPMS transmitter.

TYRE PRESSURE SAMPLING TIMING

Vehicle status	Sampling timing
At vehicle moving	once every 5 seconds

WARNING DISPLAY PATTERN OF TPMS WARNING LAMP AND TPMS WARNING DISPLAY <Deleted>

Circumstance	Warning lamp	Warning display
For 3 seconds after the engine switch is turned to the "ON" position (warning lamp circuit self-check)	Illuminates	No indication
TPMS problems	Flashes*	Symbol is displayed
Low tyre pressure	Illuminates	Symbol is displayed
Low tyre inflation pressure warning threshold value reset	Flashes slowly.	No indication

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Vehicle status	Sampling timing
At vehicle stationary	once every 1 minute

NOTE: Vehicle moving = vehicle speed: approximately 25 km/h or more

DATA TRANSMISSION TIMING

Vehicle status	Transmission timing
At vehicle moving	once every 1 minute* <Deleted>
At vehicle stationary	once every 13 hours

If a sampled pressure varies by ±10 kPa from the last transmitted pressure value, an additional transmission will occur.

*NOTE: *: Once every 15 seconds for first 30 transmission after vehicle starts moving.*

SERVICE SPECIFICATIONS

M1311000300882

Item		Limit
Tread depth of tyre mm		Minimum 1.6
Wheel runout <Aluminium wheel>	Radial runout mm	1.0 or less
	Lateral runout mm	1.0 or less
Wheel runout <Steel wheel>	Radial runout mm	1.2 or less
	Lateral runout mm	1.2 or less

~~TPMS WARNING CHECK~~ <Incorrect>

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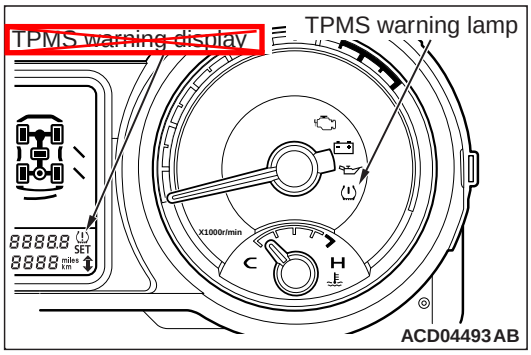

1. Check that the TPMS warning lamp illuminates for approximately 3 seconds when the ignition switch is turned to the "ON" position.
2. Check that it illuminates for approximately 3 seconds and then goes out (If the warning lamp does not turn off and stays on, perform troubleshooting for TPMS Inspection Procedure No.2. Refer to P.31-31) (If the warning lamp does not turn off and flashes, perform troubleshooting for TPMS Inspection Procedure No.3. Refer to P.31-32).
3. If the TPMS fails or the tyre pressure is low, TPMS receiver warns the driver of that state by the TPMS warning lamp ~~and the TPMS warning display~~ in the combination meter. <Deleted>

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WARNING AND WARNING INDICATOR LIST

Item	~~Display content~~	State	Warning operation		Warning cancellation condition (when any of the condition met)
			~~TPMS warning display~~	TPMS warning lamp	
TPMS warning lamp bulb open circuit check	Not displayed	The power supply mode is other than OFF ON.	–	Illuminates for 3 seconds.	3 seconds have passed after the TPMS warning lamp is lit.
Tyre pressure alarm	 AC809643	The received tyre pressure value is under the alarm ON threshold value.	Symbol is displayed.	Illuminates.	The received tyre pressure value is over the alarm OFF threshold value.
Low tyre inflation pressure warning threshold value reset	Not displayed	Low tyre inflation pressure warning threshold value reset is activated.	–	Flashes slowly.	When a signal from each tyre has been received and low tyre inflation pressure warning threshold value reset has been completed.

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Attached sheet (3/5)

Item		Display content	State	Warning operation		Warning cancellation condition (when any of the condition met)
				TPMS warning display	TPMS warning lamp	
TPMS failure warning	ID not stored	 AC809643 <Deleted>	The TPMS transmitter ID is not registered in the TPMS receiver.	Symbol is displayed. <Deleted>	Flashes*	ID is registered normally.
	Defective EEPROM		Abnormality of data in the EEPROM of the TPMS receiver is detected.			Data in the EEPROM of the TPMS receiver is checked to be normal.
	Problem in signal reception		The signals from TPMS transmitters cannot be received while driving for about 10 minutes.			The signal from the TPMS transmitter that was warned is received.
	Defective sensor		The sensor failure signal is received from the TPMS transmitter.			A normal signal is received from the TPMS transmitter that was warned.
	ID not stored		The TPMS transmitter ID is not registered in the TPMS receiver.			ID is registered normally.
	Defective EEPROM		Abnormality of data in the EEPROM of the TPMS receiver is detected.			Data in the EEPROM of the TPMS receiver is checked to be normal.
	Problem in signal reception		The signals from TPMS transmitters cannot be received while driving for about 20 minutes.			The signal from the TPMS transmitter that was warned is received.

*NOTE: *: Change to continuous illumination after flashing for about 1 minute.*

<Incorrect>

From attached sheet (4/5) <Correct>

Removal steps

- Glove box assembly (Refer to GROUP 52A – Instrument Panel Assembly)

1. TPMS receiver assembly

>>A<<
<Added>

Removal steps (Continued)

2. TPMS receiver
3. Bracket
4. Connector assembly

INSTALLATION SERVICE POINT

<<A>> CONNECTOR ASSEMBLY INSTALLATION
When the TPMS receiver is replaced, besure to install the connector assembly.

<Added>

To attached sheet (3/5)

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<Correct>

Item	State	TPMS warning lamp	Warning cancellation condition
Battery voltage of TPMS transmitter is low.	The reception problem warning is activated because of the low battery voltage of the TPMS transmitter.		The signal of normal battery voltage is received from the TPMS transmitter that was warned.
Vehicle speed input problem.	The vehicle speed no input.		The vehicle speed input.
Abnormal vehicle speed value.	The vehicle speed value is abnormal.		The normal vehicle speed value is received.
Reset fail.	Reset time-out		Reset completes successfully.

Removal steps
- Clock spring and column switch assembly (Refer to GROUP 37 – Steering Shaft).

1. Immobilizer-ECU harness

Removal steps (Continued)

2. Ignition key cylinder illumination lamp
3. Immobilizer-ECU

COMBINATION METER

GENERAL INFORMATION

M1540208401204

- Due to the introduction of an automatic high beam system, an indicator/warning lamp and diagnosis code No. U100A have been added.
- Due to the introduction of an tyre pressure monitoring system (TPMS), ~~an indicator/warning lamp~~ and diagnosis code No. U1114 have been added. <Vehicles with TPMS>
- The reversing sensor OFF indicator lamp has been relocated.
- Gear shift indicator was added.

NOTE: Gear shift indicator: Support more fuel efficiency driving by recommendation of shift UP/ DOWN.

<Incorrect>
a warning lamp <Correct>

