SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : INFORMATION	ISSUE NO. : MSB-13EXL00-004	DATE : 2013-05-27
SUBJECT : SEAT BELT		<Destination/Model> (EUR/RUSSIA/NZ/CHINA/ MMAL OUTLANDER (GF0W) <M/Y> 13
GROUP : GENERAL(Gr.00)		

1. Description :

See the attached document for the information about the change of mention in the applicable service manual. (G:52A/G54A)

2. Applicable service manual :

See the attached document

3. Details :

See the attached document

別紙 1

For overseas market

<EU/RUSSIA>

Applicable manual	Pub. No.	Applicable title (INFO-ID)		Contents
2013 OUTLANDER WORKSHOP MANUAL	CGFE13E1-CD (ENGLISH) CGFS13E1-CD (SPANISH) CGFF13E1-CD (FRENCH) CGFG13E1-CD (GERMAN) CGFI13E1-CD (ITALIAN) RUSSIA:N/A	Workshop Manual	SEAT BELT INSPECTION (M523-00-440-83700-01)	Attached sheet 6
			Inspection Procedure 13: Seat belt reminder function does not work normally. (M540-20-790-26900-01)	Attached sheet 7
			CHECK AT COMBINATION METER TERMINALS. (M540-20-120-67101-01)	Attached sheet 8
		Technical Information Manual	SEATBELT (M520-01-001-22901-01)	Attached sheet 9

<MMAL/NZ/CHINA>

Applicable manual	Pub. No.	Applicable title (INFO-ID)		Contents
2013 OUTLANDER WORKSHOP MANUAL	AU900304 NZ/CHINA: DRAFT	Workshop Manual	SEAT BELT INSPECTION (M523-00-440-83700-01)	Attached sheet 6
			Inspection Procedure 13: Seat belt reminder function does not work normally. (M540-20-790-26900-01)	Attached sheet 7
			CHECK AT COMBINATION METER TERMINALS. (M540-20-120-67102-01)	Attached sheet 8
		Technical Information Manual	SEATBELT (M520-01-001-35200-01)	Attached sheet 9

Attached sheet 6

SEAT BELT

FRONT SEAT BELT

REMOVAL AND INSTALLATION

M1523001301577

⚠ CAUTION

SRS: Before removing and installing the seat belts with pre-tensioner, refer to GROUP 52B – SRS Service Precautions and Seat Belt with Pre-tensioner .

For removal and installation, refer to GROUP 52B, Seat belt with pre-tensioner .

INSPECTION

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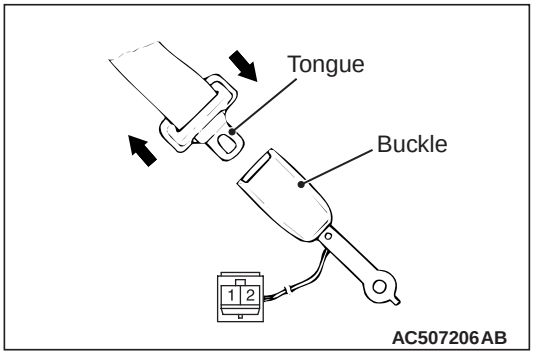
INSPECTION OF SEAT BELT SWITCH FOR CONTINUITY



If there is no continuity, replace the inner seat belt.

(DRIVER'S SIDE)

Item	Terminal number	Normal conditions
Fastened seat belt	1 – 2	No continuity
Unfastened seat belt		Continuity exists

(PASSENGER'S SIDE)

Item		Terminal number	Normal conditions
Not seated	Fastened seat belt	1 – 2	No continuity
	Unfastened seat belt		
Seated	Fastened seat belt		
	Unfastened seat belt		Continuity exists (100 Ω or less)

NOTE:

- *When the continuity exist with the seat belt fastened, replace the inner seat belt.*
- *When the continuity does not exist while the front passenger is seated with the seat belt unfastened, replace the inner seat belt.*
- *When the continuity exists while the front passenger is NOT seated with the seat belt unfastened, check the seat belt reminder switch.*

<Added>

Inspection Procedure 13: Seat belt reminder function does not work normally.

⚠ CAUTION
Before replacing the combination meter, be sure to check that the power supply circuit, earth circuit, and communication circuit are normal.

COMMENTS ON TROUBLE SYMPTOM
If the seat belt reminder function does not work normally, the seat belt switch input circuit, the combination meter or hazard indicator assembly may be defective.

PROBABLE CAUSES
- Malfunction of the seat belt switch (driver's side)
- Malfunction of the seat belt switch (passenger's side) <Added>
- Malfunction of the front seat belt reminder sensor (passenger's side)
- Malfunction of the combination meter
- Malfunction of the hazard indicator assembly
- Damaged harness wires and connectors

DIAGNOSIS PROCEDURE

<Added>

STEP 1. Check the seat belt switch and front seat belt reminder sensor (passenger's side).
Check the seat belt switch and front seat belt <Added> reminder sensor. Refer to GROUP 52A – Front Seat Belt .

Q: Is the check result normal?
YES : Go to Step 2.
NO : Replace the seat belt switch or the front seat pad (with front seat belt reminder sensor). <Added>

STEP 2. Resistance measurement at the seat belt switch (driver's side) connector, seat belt switch (passenger's side) connector
(1) Disconnect the connector, and measure at the wiring harness side.
(2) Measure the resistance between the seat belt switch (driver's side) connector, seat belt switch (passenger's side) connector (earth terminals) and the body earth.

OK: Continuity exists (2 Ω or less)

Q: Is the check result normal?
YES : Go to Step 4.
NO : Go to Step 3.

STEP 3. Check of open circuit (disconnect) in body earth line between seat belt switch (driver's side) connector or seat belt switch (passenger's side) and the body earth.

Q: Is the check result normal?
YES : The trouble can be an intermittent malfunction (Refer to GROUP 00 – How to use Troubleshooting/inspection Service Points – How to Cope with Intermittent Malfunction).
NO : Repair the connector(s) or wiring harness.

STEP 4. Check of short to power supply circuit (connect) in SBDS or SBAS line between combination meter connector and seat belt switch (driver's side) connector or seat belt switch (passenger's side) connector.

Q: Is the check result normal?
YES : Go to Step 5.
NO : Repair the connector(s) or wiring harness.

STEP 5. Check of short to power supply circuit (connect) in BWLP line between combination meter connector and hazard indicator assembly connector.

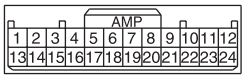
Q: Is the check result normal?
YES : Go to Step 6.
NO : Repair the connector(s) or wiring harness.

STEP 6. Retest the system.
The seat belt reminder function should work normally.

Q: Is the check result normal?
YES <The seat belt reminder function works normally.> : The trouble can be an intermittent malfunction (Refer to GROUP 00 – How to use Troubleshooting/inspection Service Points – How to Cope with Intermittent Malfunction).
NO <Buzzers do not sound.> : Replace the combination meter.
NO <The indicator (driver's side) does not illuminate.> : Replace the combination meter.
NO <The indicator (passenger's side) does not illuminate.> : Replace the hazard indicator assembly, and then go to Step 7.

Attached sheet 8

CHECK AT COMBINATION METER TERMINALS



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Terminal No.	Terminal code	Check item	Check condition	Normal condition
1	B+B	ECU power supply (battery)	Always	System voltage
2	IG1	ECU power supply (Ignition switch: IG1)	Ignition switch: ON	System voltage
			Ignition switch: OFF	1 V or less
3	MODE	Multi information display switch input	Multi information display switch: ON	1 V or less
			Multi information display switch: OFF	System voltage
4	BRK	Parking brake switch input	Parking brake switch: ON	1 V or less
			Parking brake switch: OFF	System voltage
5	SBDS	Seat belt switch (driver's side) input	Seat belt switch (driver's side): ON	1 V or less
			Seat belt switch (driver's side): OFF	System voltage
6 to 12	–	–	–	–
13	GND	Earth (sensor)	Always	1 V or less
14	CANH	CAN-C-Mid_H	–	–
15	CANL	CAN-C-Mid_L	–	–
16	SBAS	Seat belt switch (passenger's side) input <Added>	When a person sits on the front passenger's seat and fastens a seat belt.	System voltage
			When no person sits on the front passenger's seat.	System voltage
			When a person sits on the front passenger's seat and does not fasten a seat belt.	1 V or less
17	–	–	–	–
18	F/G	Input of fuel gauge	Fuel: FULL (Approximately 1 V at system voltage)	13.5 V
			Fuel: EMPTY (Approximately 8 V at system voltage)	13.5 V
19	BWLP	Seat belt reminder (passenger's side) indicator lamp output	Seat belt switch (passenger's side): ON	System voltage
			Seat belt switch (passenger's side): OFF	1V or less

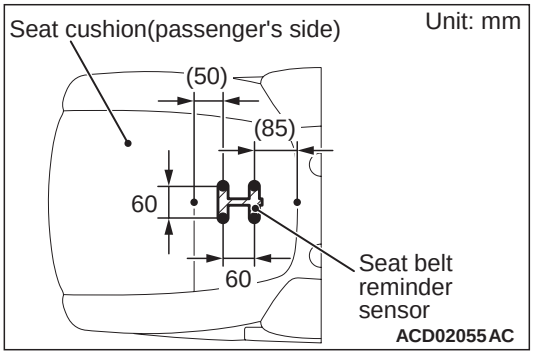
<Added>

- A seat belt warning lamp has been included on the centre panel to encourage the passenger to fasten the seat belt when the belt is not connected.

<Second seat belt>

- 3-point seat belt with ELR has been installed.
- The seat belt tongue can be inserted into the buckle easily as the self-standing buckles are used for all seating positions.

SEAT BELT REMINDER SENSOR <PASSENGER'S SIDE>



A seat belt reminder sensor is embedded in the front passenger's seat cushion. This sensor detects whether the front passenger is seated or not. If the passenger is seated without fastening the seat belt, the system will issue a warning to fasten the seat belt.Four electrodes of the sensor are located at each corner on a thin plastic film.The system will determine that the passenger is seated if any of the sensor electrodes are closed due to a load. If the seat belt is not fastened, the system will activate the warning lamp and the buzzer.If the vehicle is driven without fastening the seat belt, the warning lamp and the buzzer will be activated for approx. 90 seconds to warn the passenger to fasten the seat belt.