SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CORRECTION	ISSUE NO. : MSB-15EXL55-502	DATE : 2015-10-21
SUBJECT : Addition of the notes for the filling of the refrigerant and the correction in the service data		<DESTINATION/MODEL> (EU/RUSSIA/MMAL/NZ) <M/Y> 14-16
GROUP : Gr:55(Heater & Air Conditioner)		Outlander PHEV(GG0W)

1. Description :

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

- The notes for the filling of the refrigerant are added
- The contents of the service data is corrected.
  Item No.109 → Item No.61

2. Affected service manuals :

Please refer to the attached document (Attached sheet 1)

3. About the details :

Please refer to the attached document (Attached sheets 4-5)

For overseas market

Attached sheet 1

<EUROPE/RUSSIA>

Applicable manual	Pub No.	Applicable title (INFO ID)	Contents
2014 OUTLANDER / OUTLANDER PHEV WORKSHOP MANUAL	<EUROPE> CGFE14E2-CD (ENG) CGFF14E2-CD (FRE) CGFG14E2-CD (GER) CGFS14E2-CD (SPA) CGFI14E2-CD (ITA) <RUSSIA> N/A	Code No.B103A: Refrigerant pressure sensor system (short to power supply) Code No.B103B: Refrigerant pressure sensor system (open or short to earth) (M550-10-630-01900-01)	Attached sheet 4
		Refrigerant level check, draining and charging (M559-20-010-40800-01)	Attached sheet 5
2014.5 OUTLANDER / OUTLANDER PHEV WORKSHOP MANUAL	<EUROPE> CGFE14E3-CD (ENG) CGFF14E3-CD (FRE) CGFG14E3-CD (GER) CGFS14E3-CD (SPA) CGFI14E3-CD (ITA) <RUSSIA> N/A	Code No.B103A: Refrigerant pressure sensor system (short to power supply) Code No.B103B: Refrigerant pressure sensor system (open or short to earth) (M550-10-630-01900-01)	Attached sheet 4
		Refrigerant level check, draining and charging (M559-20-010-40800-01)	Attached sheet 5
2016 OUTLANDER/ OUTLANDER PHEV Workshop Manual	<EUROPE> CGFE16E1-CD (ENG) CGFF16E1-CD (FRE) CGFG16E1-CD (GER) CGFS16E1-CD (SPA) CGFI16E1-CD (ITA) <RUSSIA> N/A	Code No.B103A: Refrigerant pressure sensor system (short to power supply) Code No.B103B: Refrigerant pressure sensor system (open or short to earth) (M550-10-630-01903-01)	Attached sheet 4
		Refrigerant level check, draining and charging (M559-20-010-40800-01)	Attached sheet 5

<AUSTRALIA/NEW ZEALAND>

Applicable manual	Pub No.	Applicable title (INFO ID)	Contents
2014 OUTLANDER / OUTLANDER PHEV WORKSHOP MANUAL	MMAL:AU900408 NZ:DRAFT	Code No.B103A: Refrigerant pressure sensor system (short to power supply) Code No.B103B: Refrigerant pressure sensor system (open or short to earth) (M550-10-630-01900-01)	Attached sheet 4
		Refrigerant level check, draining and charging (M559-20-010-40800-01)	Attached sheet 5
2016 OUTLANDER / OUTLANDER PHEV WORKSHOP MANUAL	MMAL: AU900504 NZ:DRAFT	Code No.B103A: Refrigerant pressure sensor system (short to power supply) Code No.B103B: Refrigerant pressure sensor system (open or short to earth) (M550-10-630-01903-01)	Attached sheet 4
		Refrigerant level check, draining and charging (M559-20-010-40800-01)	Attached sheet 5

Attached sheet 4

Code No.B103A: Refrigerant pressure sensor system (short to power supply)
Code No.B103B: Refrigerant pressure sensor system (open or short to earth)

COMMENTS ON TROUBLE SYMPTOM

This diagnosis code will be set when the refrigerant pressure sensor circuit is short to power supply (Code No.B103A) or open or short to earth (Code No.B103B).

PROBABLE CAUSES

- Malfunction of the A/C pressure sensor
- Damaged wiring harness or connectors
- Malfunction of the heater controller assembly (A/C-ECU)

DIAGNOSIS PROCEDURE

STEP 1. M.U.T.-III data list.

Check that the following service data display contents are normal.

<Incorrect>

~~**Item No.109: Refrigerant pressure sensor**~~

Q: Is the check result normal?
YES : Go to Step 4.
NO : Go to Step 2.

<Correct>

Item No.61: Pressure sensor

STEP 2. Check of open and short circuit in SENB, AC/P, SENG - line between A/C pressure sensor and auto heater controller assembly (A/C-ECU) connector.

Q: Is the check result normal?
YES : Go to Step 3.
NO : Repair the connector(s) or wiring harness.

STEP 3. Check the A/C pressure sensor.

Refer to .

Q: Is the check result normal?
YES : Go to Step 4.
NO : Replace the A/C pressure sensor.

STEP 4. Check whether the diagnosis code is set again.

Q: Is the diagnosis code set?
YES : Replace the heater controller assembly (A/C-ECU).
NO : The trouble can be an intermittent malfunction (Refer to GROUP 00 – How to Cope with Intermittent Malfunction).

<Added>

NOTE:
When you have evacuated the system before filling with refrigerant, these diagnosis codes will be set.
On completion, erase these diagnosis codes.

Attached sheet 5

REFRIGERANT LEVEL CHECK, DRAINING AND CHARGING

⚠ CAUTION

- **When refrigerant is charged, use the special tools for the EV24AN5 compressor to fill up the refrigerant, because it is different from the normal compressor oil. (If the normal compressor oil is mixed, damage may be resulted in.)**
- **For the compressor oil and installation oil for the piping O-ring, use the oil MA68EV or Ze-GLES RB68 dedicated for the A/C compressor EV24AN5. If an oil other then the MA68EV or Ze-GLES RB68 is used, even if it is only a small amount, the electric insulation is considerably deteriorated and a leakage may occur.**
- **Never charge the refrigerant excessively, or the A/C system may be damaged.**
- **Always keep away thermal ignition sources, electrical sparks or flame impact from the refrigerant. In the presence of flame, refrigerant forms a poisonous gas. Keep the area well ventilated.**
- **Recover the refrigerant according to the specified procedure. Never release it into the atmosphere.**

Drain the refrigerant by using MOR405JH-type flon recovery equipment (part number: MZ204413), and fill by the specified amount.

NOTE:
When you have evacuated the system before filling with refrigerant, "No. B103A: Refrigerant pressure sensor system (short to power supply)" and "No. B103B: Refrigerant pressure sensor system (open or short to earth) will be set. On completion, erase these diagnosis codes.