SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CORRECTION	ISSUE NO. : MSB-14EXL22_23-501	DATE : 2014-04-08
SUBJECT : TRANSFER POSITION DETECTION SWITCH SYSTEM		<DESTINATION/MODEL> (As per attached 1) <M/Y> 07-15
GROUP : MANUAL TRANSMISSION(22A) / AUTOMATIC TRANSMISSION(23A)		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. There are some errors in writing in the following DTCs.

- DTC No.32,33
- DTC No.C1454,C1455,C1456

2. Affected service manuals :

Please refer to the attached document (Attached sheet 1)

3. About the details :

Please refer to the attached document (Attached sheet 3-5)

EU/RUSSIA

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2008 PAJERO/MONTERO Workshop Manual	CBKE08E1-CD (Eng) CBKF08E1-CD (Fre) CBKG08E1-CD (Ger) CBKS08E1-CD (Spa)	Code No.32, 33: Transfer detection switch system (M221-10-540-04500-01)	Attached sheet 3
2009 PAJERO/MONTERO Workshop Manual 2009.5 PAJERO/MONTERO Workshop Manual	CBKE09E2-CD (Eng) CBKF09E2-CD (Fre) CBKG09E2-CD (Ger) CBKS09E2-CD (Spa) CBKI09E2-CD (Ita)	Code No.C1454, C1455, C1456: Transfer Position Detection Switch System (M221-10-760-01200-01)	Attached sheet 4
2010 PAJERO/MONTERO Workshop Manual	CBKE10E1-CD (Eng) CBKF10E1-CD (Fre) CBKG10E1-CD (Ger) CBKS10E1-CD (Spa) CBKI10E1-CD (Ita)	Code No.C1454, C1455, C1456: Transfer Position Detection Switch System (M221-10-760-07800-01)	Attached sheet 4
2011 PAJERO/MONTERO Workshop Manual	CBKE11E1-CD (Eng) CBKF11E1-CD (Fre) CBKG11E1-CD (Ger) CBKS11E1-CD (Spa) CBKI11E1-CD (Ita)		
2012 PAJERO/MONTERO Workshop Manual	CBKE12E1-CD (Eng) CBKF12E1-CD (Fre) CBKG12E1-CD (Ger) CBKS12E1-CD (Spa) CBKI12E1-CD (Ita)	Code No.C1454, C1455, C1456: Transfer Position Detection Switch System (M221-10-760-07801-01)	Attached sheet 4
2013 PAJERO/MONTERO Workshop Manual	CVWE13E1-CD (Eng) CVWF13E1-CD (Fre) CVWG13E1-CD (Ger) CVWS13E1-CD (Spa) CVWI13E1-CD (Ita)		
2015 PAJERO/MONTERO Workshop Manual	CVWE15E1-CD (Eng) CVWF15E1-CD (Fre) CVWG15E1-CD (Ger) CVWS15E1-CD (Spa) CVWI15E1-CD (Ita)		

EXP/GCC

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2007 PAJERO/MONTERO Workshop Manual 2008 PAJERO/MONTERO Workshop Manual	PWJE0605R (Eng) PWJS0606R (Spa) PWJE0709R (Eng) PWJS0710R (Spa)	Code No.32, 33: Transfer detection switch system (M221-10-540-03400-01)	Attached sheet 3
2009 PAJERO/MONTERO Workshop Manual 2010 PAJERO/MONTERO Workshop Manual	PWJE0812R (Eng) PWJS0813R (Spa) PWJE0908R (Eng) PWJS0909R (Spa)	Code No.C1454, C1455, C1456: Transfer Position Detection Switch System (M221-10-760-01200-01)	Attached sheet 4

MMAL/NZ

Applicable manual	Pub. No.	Applicable title (INFO ID)	Contents
2007 PAJERO Workshop Manual 2008 PAJERO Workshop Manual	MR936084 MR936455 NZ:DRAFT	Code No.32, 33: Transfer detection switch system (M221-10-540-02300-01)	Attached sheet 3
2009 PAJERO Workshop Manual	MR936637 NZ:DRAFT	Code No.C1454, C1455, C1456: Transfer Position Detection Switch System (M221-10-760-02300-01)	Attached sheet 4
2010 PAJERO Workshop Manual	MR936976 NZ:DRAFT	Code No.C1454, C1455, C1456: Transfer Position Detection Switch System (M221-10-760-08900-01)	Attached sheet 4

CHINA

Applicable manual	Pub. No.	Applicable title (INFO ID)	Content
2008 PAJERO Workshop Manual	DRAFT	Code No.32, 33: Transfer detection switch system (M231-11-590-06400-01)	Attached sheet 5

Attached sheet 3

STEP 9. Check the harnesses between each detection switch connectors C-08, C-09, C-12, C-13, C-14 terminal No.1 and transfer-ECU connector D-123 terminals No.43, No.44, No.45, No.46, No.47.

Check the output line for open circuit.

Q: Is the check result normal?

YES : Go to Step 11.

NO : Repair the wiring harness.

STEP 10. Measure the resistance at each detection switch connectors C-08, C-09, C-12, C-13, C-14.

(1) Connect the M.U.T.-III to the diagnosis connector.
(2) Turn the ignition switch to the ON position.
(3) Transmission gear should be neutral position.
(4) Item 2, 3: Shift actuator.
(5) Disconnect connectors C-08, C-09, C-12, C-13, C-14, and measure the ~~voltage~~ resistance between terminal No.1 and earth at the ~~wiring harness~~ switch side.

<Incorrect> <Correct>

OK:

- **When the transfer position is 2H, connector C-08 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 2H, connector C-08 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 2H or 4H, connector C-14 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 2H or 4H, connector C-14 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 4H or 4HLc, connector C-13 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 4H or 4HLc, connector C-13 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 4HLc or 4LLc, connector C-12 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 4HLc or 4LLc, connector C-12 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 4LLc, connector C-09 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 4LLc, connector C-09 terminal No.1 resistance should measure open circuit.

Q: Is the check result normal?

YES : Go to Step 11.

NO : Replace the each detection switch (Refer to GROUP 22B - Transmission).

STEP 11. M.U.T.-III data list

Item 7: Transfer position (Refer to data list reference table).

Q: Is the check result normal?

YES : Intermittent malfunction (Refer to GROUP 00 – How to Cope with Intermittent Malfunction).

NO : Replace the transfer-ECU.

Attached sheet 4

STEP 9. Check the harnesses between each detection switch connectors C-08, C-09, C-12, C-13, C-14 terminal No.1 and transfer-ECU connector D-123 terminals No.53, No.47, No.55, No.54, No.46.

Check the output line for open circuit.

Q: Is the check result normal?

YES : Go to Step 11.

NO : Repair the wiring harness.

STEP 10. Measure the resistance at each detection switch connectors C-08, C-09, C-12, C-13, C-14.

(1) Connect the M.U.T.-III to the diagnosis connector.
(2) Turn the ignition switch to the ON position.
(3) Transmission gear should be neutral position.
(4) Item 2: Shift actuator.
(5) Disconnect connectors C-08, C-09, C-12, C-13, C-14, and measure the ~~voltage~~ between terminal No.1 and earth at the ~~wiring harness~~ switch side.

<Incorrect> <Correct>

resistance

OK:

- **When the transfer position is 2H, connector C-08 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 2H, connector C-08 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 2H or 4H, connector C-14 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 2H or 4H, connector C-14 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 4H or 4HLc, connector C-13 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 4H or 4HLc, connector C-13 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 4HLc or 4LLc, connector C-12 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 4HLc or 4LLc, connector C-12 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 4LLc, connector C-09 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 4LLc, connector C-09 terminal No.1 resistance should measure open circuit.

Q: Is the check result normal?

YES : Go to Step 11.

NO : Replace the each detection switch (Refer to GROUP 22B - Transmission).

STEP 11. M.U.T.-III data list

Item 40: Transfer position (Refer to data list reference table).

Q: Is the check result normal?

YES : Intermittent malfunction (Refer to GROUP 00 – How to Cope with Intermittent Malfunction).

NO : Replace the transfer-ECU.

Attached sheet 5

STEP 10. Measure the resistance at each detection switch connectors C-08, C-09, C-12, C-13, C-14.

(1) Connect the M.U.T.-III to the diagnosis connector.
(2) Turn the ignition switch to the ON position.
(3) Transmission gear should be neutral position.
(4) Item 2, 3: Shift actuator.
(5) Disconnect connectors C-08, C-09, C-12, C-13, C-14, and measure the voltage between terminal No.1 and earth at the wiring harness side.

<Correct> resistance
<Incorrect>
<Incorrect>
switch <Correct>

OK:

- **When the transfer position is 2H, connector C-08 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 2H, connector C-08 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 2H or 4H, connector C-14 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 2H or 4H, connector C-14 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 4H or 4HLc, connector C-13 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 4H or 4HLc, connector C-13 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 4HLc or 4LLc, connector C-12 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 4HLc or 4LLc, connector C-12 terminal No.1 resistance should measure open circuit.
- **When the transfer position is 4LLc, connector C-09 terminal No.1 resistance should measure less than 2 Ω.**
  When the transfer position is other than 4LLc, connector C-09 terminal No.1 resistance should measure open circuit.

Q: Is the check result normal?

YES : Go to Step 11.
NO : Replace the each detection switch (Refer to GROUP 23B - Transmission).

STEP 11. M.U.T.-III data list

Item 7: Transfer position (Refer to data list reference table).

Q: Is the check result normal?

YES : Intermittent malfunction (Refer to GROUP 00 – How to Cope with Intermittent Malfunction).
NO : Replace the transfer-ECU.