SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CORRECTION	ISSUE NO. : MSB-13E23-501	DATE : 2013-10-29
SUBJECT : DIAGNOSIS CODE No.P0942: Electric Oil Pump Status		<Affected Destination/Model> (EUR) <M/Y> 13-14
GROUP : AUTOMATIC TRANSMISSION(Gr:23)		MIRAGE/SPACE STAR(A03A) OUTLANDER(GF0W)

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 :

Please refer to the attached document (Attached sheet 1)

3. About the details :

Please refer to the attached document (Attached sheet 4-5)
(The procedure of diagnosis code No.P0942 has been corrected due to its error in writing in the service manual)

FOR EUR

Attached sheet 1

Applicable manual	Pub. No.	Applicable title (INFO ID)	Content
2013 MIRAGE/SPACE STAR Workshop Manual	CA0E13E1-CD (English) CA0F13E1-CD (French) CA0G13E1-CD (German) CA0S13E1-CD (Spanish) CA0I13E1-CD (Italian)	G23A: Code No.P0942: Electric Oil Pump Status <Vehicles with AS&G system> (M231-21-550-07400-01)	Refer to attached sheet 4
2013 OUTLANDER Workshop Manual	CGFE13E1-CD (English) CGFF13E1-CD (French) CGFG13E1-CD (German) CGFS13E1-CD (Spanish) CGFI13E1-CD (Italian)	G23A: Code No.P0942: Electric Oil Pump Status <Vehicles with AS&G system> (M231-21-550-05200-01)	Refer to attached sheet 5
2014 OUTLANDER/ OUTLANDER PHEV Workshop Manual	CGFE14E1-CD (English) CGFF14E1-CD (French) CGFG14E1-CD (German) CGFS14E1-CD (Spanish) CGFI14E1-CD (Italian)	G23A: Code No.P0942: Electric Oil Pump Status <Vehicles with AS&G system> (M231-21-550-05200-01)	Refer to attached sheet 5

Attached sheet 4

DIAGNOSIS PROCEDURE

STEP 1. Check electric oil pump relay stand-alone itself.
Refer to .

Q: Is the check result normal?
YES : Go to Step 2.
NO : Replace the electric oil pump relay.

<Incorrect>

STEP 2. Perform voltage measurement at electric oil pump relay connector (power supply terminal).
(1) Remove the electric oil pump relay, and measure at the wiring harness side.
(2) Measure the voltage between the relay box (OUT2 line terminal) and body earth.
(3) Turn the ignition switch to the "ON" position.

OK: System voltage

Q: Is the check result normal?
YES : Go to Step 3.
NO : Repair the connector(s) or wiring harness wires in the power supply lines between the electric oil pump relay connector and the battery.

STEP 3. Check for open circuit in earth line between the electric oil pump connector and the body earth.

Q: Is the check result normal?
YES : Go to Step 4.
NO : Repair the connector(s) or wiring harness.

STEP 4. Check the following connector:
- CVT-ECU connector

Check the terminals for a contact status problem and internal short circuit.

Q: Is the check result normal?
YES : Go to Step 5.
NO : Repair the connector.

STEP 5. Check for open circuit or short to earth in OPRL line between the electric oil pump relay connector and the CVT-ECU connector.

Q: Is the check result normal?

<Correct>

STEP 2. Perform voltage measurement at electric oil pump relay connector (OUT1 terminal).
(1) Remove the electric oil pump relay, and measure at the wiring harness side.
(2) Measure the voltage between the relay box (OUT1 terminal) and body earth.

YES : Go to Step 6.
NO : Repair the wiring harness.

STEP 6. Check the following connector:
- electric oil pump connector

Check the terminals for a contact status problem and internal short circuit.

Q: Is the check result normal?
YES : Go to Step 7.
NO : Repair the connector.

STEP 7. Check for open circuit or short to earth in power supply line between the electric oil pump relay connector and the electric oil pump connector.

Q: Is the check result normal?
YES : Go to Step 8.
NO : Repair the wiring harness.

STEP 8. Check for open circuit in earth line between the electric oil pump connector and the body earth.

Q: Is the check result normal?
YES : Go to Step 9.
NO : Repair the wiring harness.

<Incorrect>

STEP 9. Perform voltage measurement at electric oil pump connector (power supply terminal).
(1) Disconnect the connector, and measure at the wiring harness side.
(2) Measure the voltage between the electric oil pump connector (EOPI line terminal) and body earth.
(3) Turn the ignition switch to the "ON" position.

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OK: System voltage

Q: Is the check result normal?
YES : Go to Step 11.
NO : Go to Step 10.

STEP 10. Check for open circuit or short to earth in EOPI line between the electric oil pump connector and the CVT-ECU connector.

Q: Is the check result normal?
YES : Replace the CVT-ECU.
NO : Repair the wiring harness.

<Correct>

STEP 9. Perform voltage measurement at electric oil pump connector (EOPI terminal).
(1) Disconnect the electric oil pump connector, and measure at the wiring harness side.

Attached sheet 5

STEP 7. Check for open circuit in earth line between the electric oil pump connector and the body earth.

Q: Is the check result normal?
YES : Go to Step 8.
NO : Repair the connector(s) or wiring harness.

<Incorrect>

STEP 8. Perform voltage measurement at electric oil pump connector (power supply terminal).
(1) Disconnect the connector, and measure at the wiring harness side.
(2) Measure the voltage between the electric oil pump connector (power supply terminal) and body earth.
(3) Turn the ignition switch to the "ON" position.

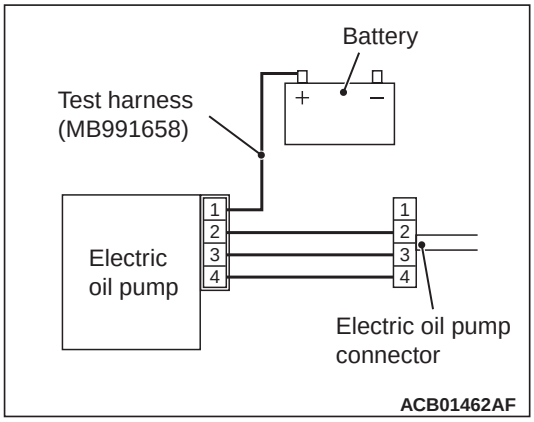
OK: System voltage

Q: Is the check result normal?
YES : Go to Step 10.
NO : Go to Step 9.

STEP 9. Check for open circuit or short to earth in EOPI line between the electric oil pump connector and the CVT-ECU connector.

Q: Is the check result normal?
YES : Replace the CVT-ECU.
NO : Repair the connector(s) or wiring harness.

STEP 10. Perform voltage measurement at CVT-ECU connector (EOPO terminal).



(1) Disconnect the electric oil pump connector and connect as in the figure using the special tool (Test harness: MB991658).
(2) Disconnect the CVT-ECU connector and measure the voltage between EOPO terminal and earth at wiring harness side.
(3) Turn the ignition switch to the "ON" position.

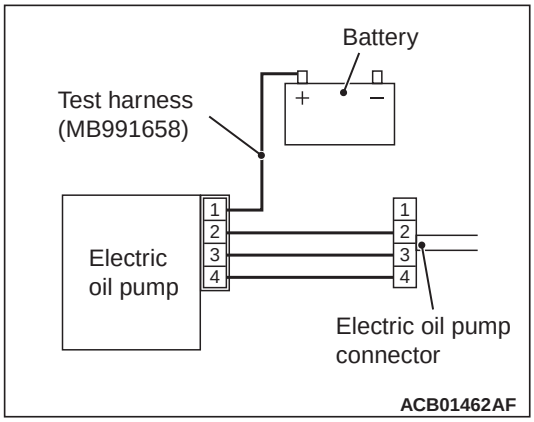
OK: System voltage

Q: Is the check result normal?
YES : Go to Step 12.
NO : Go to Step 11.

STEP 11. Check for open circuit or short to earth in EOPO line between the electric oil pump connector and the CVT-ECU connector.

Q: Is the check result normal?
YES : Replace the electric oil pump. After that, bleed the air from the electric oil pump (Refer to).
NO : Repair the wiring harness.

STEP 12. M.U.T.-III data list



(1) Disconnect the electric oil pump connector and connect as in the figure using the special tool (Test harness: MB991658).
(2) Item 63: Electric oil pump state signal (Refer to).

Q: Is the check result normal?
YES : Go to Step 13.
NO : Replace the electric oil pump. After that, bleed the air from the electric oil pump (Refer to).

STEP 13. Diagnosis code recheck

Q: Is the diagnosis code set?
YES : Replace the CVT-ECU.
NO : Intermittent malfunction.

<Correct>

STEP 8. Perform voltage measurement at electric oil pump connector (EOPI terminal).
(1) Disconnect the electric oil pump connector, and measure at the wiring harness side.
(2) Measure the voltage between the electric oil pump connector (EOPI terminal) and body earth.