SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CORRECTION	ISSUE NO. : MSB-13E13-501	DATE : 2013-10-30
SUBJECT : TROUBLESHOOTING OF MPI SYSTEM		<Affected Destination/Model> (EUR) MIRAGE/SPACE STAR(A03A) <M/Y> 13
GROUP : FUEL(Gr:13A)		

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)	Content
2013 SPACE STAR Workshop Manual CD-ROM	CA0E13E1-CD (Eng) CA0S13E1-CD (Spa) CA0F13E1-CD (Fra) CA0G13E1-CD (Ger) CA0I13E1-CD (Ita)	Code No.B1351: DC/DC Converter (Control System) Performance <Vehicles with AS&G System - CVT> (M131-20-010-03900-01)	Attached sheet 3
		Code No.B1352: DC/DC Converter (Control System) System <Vehicles with AS&G System - CVT> (M131-20-020-02500-01)	Attached sheet 4

3. About the details :

Please refer to the attached document (Attached sheet 3-4)

Attached sheet 3

list after having passed for more than 60 seconds.

- Item 197: DC-DC OUT for powertrain (Input)

<Incorrect>

<Correct> 191

OK: ON

Q: Is the check result normal?

YES : Intermittent malfunction (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunctions).

NO : Go to Step 3.

STEP 3. Check the DC/DC converter (control system) power supply circuit.

Check the DC/DC converter (control system) power supply circuit.

Q: Is the check result normal?

YES : Go to Step 4.

NO : Repair the connector(s) or wiring harness. Then go to Step 4.

STEP 4. Perform voltage measurement at engine-ECU connector.

- Disconnect connector, and measure at harness side.
- Ignition switch: ON
- Voltage between terminal DCCP and earth.

OK: System voltage

Q: Is the check result normal?

YES : Go to Step 6.

NO : Go to Step 5.

STEP 5. Check of short to earth and open circuit in DCCP line between DC/DC converter (entertainment system) connector and engine-ECU connector.

- Check output line for open/short circuit.

Q: Is the check result normal?

YES : Replace the DC/DC converter (control system).

NO : Repair the connector(s) or wiring harness.

STEP 6. Perform voltage measurement at engine-ECU connector.

- Measure the voltage engine-ECU connector terminal.
- Ignition switch: ON
- Voltage between terminal DCCP and earth.

OK: 1 V or less

Q: Is the check result normal?

YES : Go to Step 8.

NO : Go to Step 7.

Attached sheet 4

STEP 2. M.U.T.-III data list

- Item 27: DC-DC OUT for powertrain (Input)

OK: ON

<Incorrect>

<Correct> 191

Q: Is the check result normal?

YES : Intermittent malfunction (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunctions).

NO <OFF> : Go to Step 3.

NO <Failure> : Perform the troubleshooting of diagnosis code No. B1351: DC/DC converter (control system) system malfunction.

STEP 3. Check the DC/DC converter (control system) power supply circuit.

- Disconnect connector, and measure at harness side.
- Ignition switch: ON
- Voltage between terminal DCDP and earth.

OK: System voltage

Q: Is the check result normal?

YES : Go to Step 6.

NO : Go to Step 4.

STEP 4. Perform voltage measurement at engine-ECU connector.

- Measure the voltage engine-ECU connector terminal.
- Ignition switch: ON
- Voltage between terminal DCDP and earth.

OK: System voltage

Q: Is the check result normal?

YES : Repair the connector(s), or check and repair of short to earth in DCDP line between engine-ECU connector and DC/DC converter (control system) connector.

NO : Go to Step 5.

STEP 5. M.U.T.-III diagnosis code

- Reconfirmation of the diagnosis code.

Q: Is the diagnosis code stored?

YES : Replace the engine-ECU.

NO : Intermittent malfunction (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points – How to Cope with Intermittent Malfunctions).

STEP 6. Check of damage in DCDP line between engine-ECU connector and DC/DC converter (control system) connector

Q: Is the check result normal?

YES : Go to Step 7.

NO : Repair the connector(s) or wiring harness.