



SERVICE BULLETIN

DOMESTIC SALES & AFTER SALES SERVICE OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CORRECTION	ISSUE NO. : MSB-09E42-501	DATE : 2009-07-05
SUBJECT : TROUBLESHOOTING FOR SUNROOF	<div> <div><MODEL></div> <div>(EUR/RUSSIA)</div> <div>LANCER</div> <div>(GS41)(CY0A),</div> <div>OUTLANDER</div> <div>(GS45X)(CW0W)</div> </div> <div> <div><M/Y></div> <div>07-09</div> </div>	
GROUP : BODY		

1. Description:

Some step numbers in the "INSPECTION PROCEDURE 1: Sunroof does not work at all." in the troubleshooting for sunroof have been incorrect. This Service Bulletin contains the correct step numbers.

Note: The page numbers and Info IDs on the Attached sheets 4 and 6 may differ from those on the applicable manuals, but the contents are the same.

2. Applicable Manuals:

See Attached sheet 1.

There may be some attached sheets not included in this Service Bulletin because they are not applicable to your market. Their sheet numbers are not listed in the above table.

3. Corrected Specifications:

See Attached sheets 4 and 6.

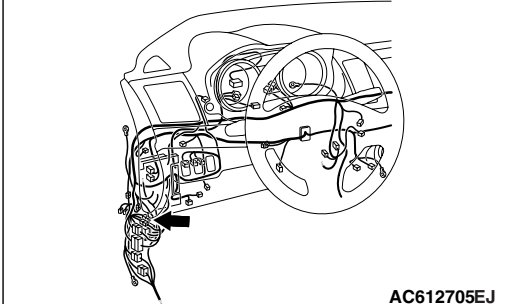
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Manual	Pub. No.	Title (Info-ID)	Attached Sheet
2008 LANCER Workshop Manual	CG1E08E2-CD (English) CG1S08E2-CD (Spanish) CG1F08E2-CD (French) CG1G08E2-CD (German)	Inspection Procedure 1: Sunroof does not Work at All. (M426-00-520-48500-01)	Attached sheet 4
2007 OUTLANDER Workshop Manual	CGXE07E1-CD (English) CGXS07E1-CD (Spanish) CGXF07E1-CD (French) CGXG07E1-CD (German)	Inspection Procedure 1: Sunroof does not Work at All. (M426-00-520-30000-01)	Attached sheet 6
2008 OUTLANDER Workshop Manual	CGXE08E2-CD (English) CGXS08E2-CD (Spanish) CGXF08E2-CD (French) CGXG08E2-CD (German)		
2009 OUTLANDER Workshop Manual	CGXE09E1-CD (English) CGXS09E1-CD (Spanish) CGXF09E1-CD (French) CGXG09E1-CD (German) CGXI09E1-CD (Italian)		

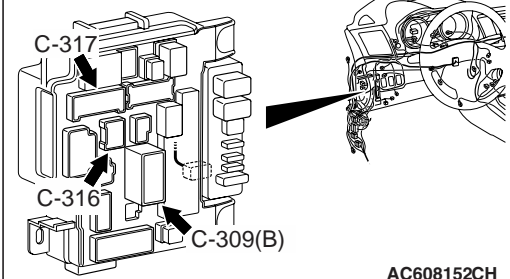
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Underneath Manual	Underneath Pub. No.	Title (Info-ID)	Attached Sheet
2008 LANCER Workshop Manual	N/A	Inspection Procedure 1: Sunroof does not Work at All. (M426-00-520-48500-01)	Attached sheet 4
		Inspection Procedure 1: Sunroof does not Work at All. (M426-00-520-39900-01)	

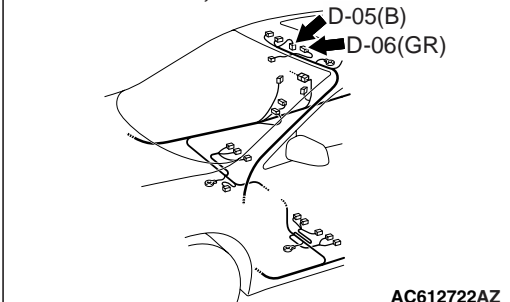
Connector: C-130



Connectors: C-309, C-316, C-317
ETACS-ECU



Connectors: D-05, D-06



COMMENTS ON TROUBLE SYMPTOM

Malfunctions of the sunroof motor assembly power supply/earth system, sunroof motor assembly, or sunroof switch are suspected.

PROBABLE CAUSES

- Malfunction of the sunroof switch
- Malfunction of the sunroof motor assembly
- Damaged wiring harness and connectors

DIAGNOSTIC PROCEDURE

Step 1. M.U.T.-III diagnosis code

Check that any sunroof operation-related diagnosis codes are set in ETACS-ECU.

Q: Is the diagnosis code set?

YES : Refer to GROUP 54B – Diagnosis code chart [P.54B-3](#).

NO : Go to Step 2.

STEP 2. Connector check: D-05 sunroof switch connector

Q: Is the check result normal?

YES : Go to Step 3.

NO : Repair the defective connector.

STEP 3. Sunroof switch check

Refer to Sunroof Switch Check [P.42A-120](#).

Q: Is the sunroof switch normal?

YES : Go to Step 4.

NO : Replace the sunroof switch.

STEP 4. Resistance measurement at D-05 sunroof switch connector

- (1) Disconnect the connector, and measure the resistance at the wiring harness-side connector.
- (2) Measure the resistance at the D-05 sunroof switch connector terminal No. 4 and the body earth.

OK: Continuity (less than 2 Ω)

Q: Is the check result normal?

YES : Go to Step [5](#) **<Incorrect>** [6](#) **<Correct>**

NO : Go to Step [5](#) **<Incorrect>** [5](#) **<Correct>**

STEP 5. Check of the wiring harness between the D-05 sunroof switch connector terminal No. 4 and the D-06 sunroof motor assembly connector terminal No. 1

- Check the earth line for open circuit or short circuit.

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 Malfunction [P.00-13](#).)

NO : Repair the wiring harness.

STEP 6. Connector check: D-06 sunroof motor assembly connector

Q: Is the check result normal?

YES : Go to Step 7.

NO : Repair the defective connector.

STEP 7. Resistance measurement at D-06 sunroof motor assembly connector


- (1) Disconnect the connector, and measure the resistance at the wiring harness-side connector.
- (2) Measure the resistance at the D-06 sunroof motor assembly connector terminal No. 2 and the

STEP 4. Resistance measurement at D-03 sunroof switch connector

- (1) Disconnect the connector, and measure the resistance at the wiring harness-side connector.
- (2) Measure the resistance at the D-03 sunroof switch connector terminal No. 4 and the body earth.

OK: Continuity (less than 2 Ω)

Q: Is the check result normal?

YES : Go to Step 8.  **<Incorrect>**

NO : Go to Step 6.  **<Incorrect>**

STEP 5. Check of the wiring harness between the D-03 sunroof switch connector terminal No. 4 and the D-04 sunroof motor assembly connector terminal No. 1

- Check the earth line for open circuit or short circuit.

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 Malfunction).
NO : Repair the wiring harness.

STEP 6. Connector check: D-04 sunroof motor assembly connector

Q: Is the check result normal?

YES : Go to Step 7.
NO : Repair the defective connector.

STEP 7. Resistance measurement at D-04 sunroof motor assembly connector

- (1) Disconnect the connector, and measure the resistance at the wiring harness-side connector.
- (2) Measure the resistance at the D-04 sunroof motor assembly connector terminal No. 2 and the body earth.

OK: Continuity (less than 2 Ω)

Q: Is the check result normal?

YES : Go to Step 9.
NO : Go to Step 8.

STEP 8. Check of the wiring harness between the D-04 sunroof motor assembly connector terminal No. 2 and the body earth

- Check the earth line for open circuit or short circuit.

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 Malfunction).
NO : Repair the wiring harness.

STEP 9. Voltage measurement at D-04 sunroof motor assembly connector

- (1) Disconnect the connector, and measure the voltage at the wiring harness-side connector.
- (2) Measure the voltage at the D-04 sunroof motor assembly connector terminal No. 6 and the body earth.

OK: Battery positive voltage

Q: Is the check result normal?

YES : Go to Step 11.
NO : Go to Step 10.

STEP 10. Check of the wiring harness between the D-04 sunroof motor assembly connector terminal No. 6 and the fusible link (33)

NOTE: Prior to the wiring harness inspection, check the C-309 and C-316 ETACS-ECU connectors, and repair if necessary.

- Check the power supply line for open circuit and short circuit.

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 Malfunction).
NO : Repair the wiring harness.

STEP 11. Voltage measurement at D-04 sunroof motor assembly connector

- (1) Disconnect the connector, and measure the voltage at the wiring harness-side connector.
- (2) Turn the ignition switch ON position.
- (3) Measure the voltage at the D-04 sunroof motor assembly connector terminal No. 3 and the body earth.

OK: Battery positive voltage

Q: Is the check result normal?

YES : Go to Step 13.
NO : Go to Step 12.