

# SERVICE BULLETIN

AFTERSALES SERVICE OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CORRECTION	ISSUE NO. : MSB-07E52-501	DATE : 2007-03-05
SUBJECT : DIAGNOSIS CODES FOR SUPPLEMENTAL RESTRAINT SYSTEM (SRS)		<MODEL> (EUR) OUTLANDER (GS45X)(CW0W)
GROUP : INTERIOR (SRS AIR BAG)		<M/Y> 07

## 1. Description:

As the diagnosis codes for the supplemental restraint system (SRS) have been omitted in the applicable Workshop Manual, this service bulletin contains the following collections.

- The omitted diagnosis codes are added in CHECK CHART FOR DIAGNOSIS CODES.
- The checking procedures for the omitted diagnosis codes are established in DIAGNOSTIC TROUBLE CODE PROCEDURES.

## 2. Applicable Manual:

Manual	Pub. No.	Title (Info-ID)	Attachment
2007 OUTLANDER Workshop Manual CD-ROM	CGXE07E1-CD (English)	Check Chart for Diagnosis Codes (M524-00-331-28600-01), Code No. B212C IG1 Power Supply Open Circuit (M524-03-530-03300-01), Code No. U0019 Bus Off (M524-03-570-03100-01), Code No. U0176 Right Side Impact Sensor (Rear) Communication Error (M524-03-640-03300-01)	Attachment 1 – 4
	CGXF07E1-CD (French)		
	CGXG07E1-CD (German)		
	CGXS07E1-CD (Spanish)		

## 3. Corrected Specifications:

See Attachments 1 to 4.

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See Attachments 1 to 4.

Attachment 1

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## CHECK CHART FOR DIAGNOSIS CODES

M1524003301372

Code No.	Diagnostic item
B2207	Occupant restraint controller internal 1
B2208	Occupant restraint controller internal 2
B2209	Occupant restraint controller internal 3
B220A	Occupant restraint controller internal 4
B220B	Occupant restraint controller firing stored energy
B220C	Occupant restraint controller accelerometer 1 internal
B220D	Occupant restraint controller accelerometer 2 internal
U0141	ETACS CAN timeout
U0155	Combination meter CAN timeout
U0164	A/C -ECU CAN timeout
U0168	WCM CAN timeout
U0184	Audio CAN timeout

## DIAGNOSTIC TROUBLE CODE PROCEDURES

Code No.B2207 Occupant Restraint Controller Internal 1  
Code No.B2208 Occupant Restraint Controller Internal 2  
Code No.B2209 Occupant Restraint Controller Internal 3  
Code No.B220A Occupant Restraint Controller Internal 4  
Code No.B220B Occupant Restraint Controller Firing Stored Energy  
Code No.B220C Occupant Restraint Controller Accelerometer 1  
Code No.B220D Occupant Restraint Controller Accelerometer 2

### **CAUTION**

If the diagnosis codes are set to SRS-ECU, be sure to diagnose the CAN bus line.

### **TROUBLE JUDGEMENT**

The above codes are set if an abnormality is detected in the circuit inside the SRS-ECU.

### **PROBABLE CAUSES**

Malfunction of the SRS-ECU

### **DIAGNOSIS PROCEDURE**

#### **STEP 1. M.U.T.-III CAN bus diagnostics.**

Use M.U.T.-III to diagnose the CAN bus lines.

**Q: Is the check result normal?**

**YES :** Go to Step 2.

**NO :** Repair the CAN bus lines.

#### **STEP 2. Check whether the diagnosis code is reset.**

- (1) Connect the negative battery terminal.
- (2) Check the diagnosis code again.
- (3) Disconnect the negative battery terminal.

**Q: Are the diagnosis codes output regardless of "Active" or "Stored" faults?**

**YES :** Replace SRS-ECU.

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

## DIAGNOSTIC TROUBLE CODE PROCEDURES

## Code No. U0141 ETACS CAN timeout

**⚠ CAUTION**

- If the diagnosis code No. U0141 is set, diagnose the CAN bus lines.
- When replacing the ECU, always check that the SRS circuit is normal.

**FUNCTION**

If the signal from ETACS-ECU cannot be received, the SRS-ECU sets the diagnosis code No. U0141.

**TROUBLE JUDGMENT**

Because of the CAN-B bus circuit malfunction, if SRS-ECU becomes unable to perform the normal data transmission, SRS-ECU determines that an abnormality is present.

**PROBABLE CAUSES**

- Malfunction of CAN bus line
- Malfunction of SRS-ECU
- Malfunction of the ETACS-ECU

**DIAGNOSIS PROCEDURE****STEP 1. M.U.T.-III CAN bus diagnostics.**

Use the M.U.T.-III to diagnose the CAN bus lines.

**Q: Is the check result normal?**

**YES :** Go to Step 2.  
**NO :** Repair the CAN bus line.

**STEP 2. M.U.T.-III ETACS-ECU diagnosis code.**  
Check if diagnosis code is set to the ETACS-ECU.

**Q: Is the diagnosis code set?**

**YES :** Troubleshoot the ETACS-ECU (Refer to GROUP 54A – ETACS – Troubleshooting).  
**NO :** Go to Step 3.

**STEP 3. Check whether the diagnosis code is reset.**

Check again if the diagnosis code is set to the SRS-ECU.

- (1) Erase the diagnosis code.
- (2) Turn the ignition switch from "LOCK" (OFF) position to "ON" position.
- (3) Check if diagnosis code is set.

**Q: Is the diagnosis code set?**

**YES :** Replace the SRS-ECU.  
**NO :** Intermittent malfunction (Refer to GROUP 00 – How to Use Troubleshooting/ Inspection Service Points – How to Cope with Intermittent Malfunction).

## Code No. U0155 Combination meter CAN timeout

**⚠ CAUTION**

- If the diagnosis code No. U0155 is set, diagnose the CAN bus lines.
- When replacing the ECU, always check that the SRS circuit is normal.

**FUNCTION**

If the signal from combination meter cannot be received, the SRS-ECU sets the diagnosis code No. U0155.

**TROUBLE JUDGMENT**

Because of the CAN-B bus circuit malfunction, if SRS-ECU becomes unable to perform the normal data transmission, SRS-ECU determines that an abnormality is present.

**PROBABLE CAUSES**

- Malfunction of CAN bus line
- Malfunction of SRS-ECU
- Malfunction of the combination meter

**DIAGNOSIS PROCEDURE****STEP 1. M.U.T.-III CAN bus diagnostics.**

Use the M.U.T.-III to diagnose the CAN bus lines.

**Q: Is the check result normal?**

**YES :** Go to Step 2.  
**NO :** Repair the CAN bus line.

**STEP 2. M.U.T.-III the combination meter diagnosis code.**

Check if diagnosis code is set to the combination meter.

**Q: Is the diagnosis code set?**

**YES :** Troubleshoot the combination meter (Refer to GROUP 54A – combination meter – Troubleshooting).  
**NO :** Go to Step 3.

## DIAGNOSTIC TROUBLE CODE PROCEDURES

**STEP 3. Check whether the diagnosis code is reset.**

Check again if the diagnosis code is set to the SRS-ECU.

- (1) Erase the diagnosis code.
- (2) Turn the ignition switch from "LOCK" (OFF) position to "ON" position.

- (3) Check if diagnosis code is set.

**Q: Is the diagnosis code set?**

**YES** : Replace the SRS-ECU.

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

**Code No.U0164 A/C-ECU CAN timeout****⚠ CAUTION**

- If the diagnosis code No. U0164 is set, diagnose the CAN bus line.
- When replacing the ECU, always check that the communication circuit is normal.

**FUNCTION**

If the signal from A/C-ECU cannot be received, the SRS-ECU sets the diagnosis code No. U0164.

**TROUBLE JUDGMENT**

Because of the CAN-B bus circuit malfunction, if SRS-ECU becomes unable to perform the normal data transmission, SRS-ECU determines that an abnormality is present.

**PROBABLE CAUSES**

- Malfunction of CAN bus line
- Malfunction of the A/C-ECU
- Malfunction of SRS-ECU

**DIAGNOSIS PROCEDURE****STEP 1. M.U.T.-III CAN bus diagnostics**

Use the M.U.T.-III to diagnose the CAN bus lines.

**Q: Is the check result normal?**

**YES** : Go to Step 2.

**NO** : Repair the CAN bus line.

**STEP 2. M.U.T.-III A/C-ECU diagnosis code**

Check if diagnosis code is set to the A/C-ECU.

**Q: Is the diagnosis code set?**

**YES** : Troubleshoot the A/C-ECU (Refer to GROUP 55A – Troubleshooting).

**NO** : Go to Step 3.

**STEP 3. Check whether the diagnosis code is reset.**

Check again if the diagnosis code is set to the SRS-ECU.

- (1) Erase the diagnosis code.
- (2) Turn the ignition switch from "LOCK" (OFF) position to "ON" position.
- (3) Check if diagnosis code is set.

**Q: Is the diagnosis code set?**

**YES** : Replace the SRS-ECU.

**NO** : The trouble can be an intermittent malfunction (Refer to GROUP 00 – How to use Troubleshooting/inspection Service Points – How to Cope with Intermittent Malfunction).

**Code No.U0168 WCM CAN timeout****⚠ CAUTION**

- If diagnosis code No. U0168 is set, be sure to diagnose the CAN bus line.
- When replacing the ECU, always check that the communication circuit is normal.

**FUNCTION**

If the signal from WCM cannot be received, the SRS-ECU sets the diagnosis code No. U0168.

**TROUBLE JUDGMENT**

Because of the CAN-B bus circuit malfunction, if SRS-ECU becomes unable to perform the normal data transmission, SRS-ECU determines that an abnormality is present.

**PROBABLE CAUSES**

- Malfunction of CAN bus line
- Malfunction of the WCM
- Malfunction of SRS-ECU

## DIAGNOSTIC TROUBLE CODE PROCEDURES

## DIAGNOSIS PROCEDURE

**STEP 1. M.U.T.-III CAN bus diagnostics**

Use the M.U.T.-III to diagnose the CAN bus lines.

**Q: Is the check result normal?**

**YES :** Go to Step 2.

**NO :** Repair the CAN bus line.

**STEP 2. M.U.T.-III WCM diagnosis code**

Check again if the diagnosis code is set to the WCM.

**Q: Is the diagnosis code set?**

**YES :** Troubleshoot the WCM (Refer to GROUP 42C – Troubleshooting).

**NO :** Go to Step 3.

**STEP 3. Check whether the diagnosis code is reset.**

Check again if the diagnosis code is set to the SRS-ECU.

(1) Erase the diagnosis code.

(2) Turn the ignition switch from "LOCK" (OFF) position to "ON" position.

(3) Check if diagnosis code is set.

**Q: Is the diagnosis code set?**

**YES :** Replace the SRS-ECU.

**NO :** The trouble can be an intermittent malfunction (Refer to GROUP 00 – How to use Troubleshooting/inspection Service Points – How to Cope with Intermittent Malfunction).

## Code No.U0184 Audio CAN timeout

**CAUTION**

- If the diagnosis code No. U0184 is set, be sure to diagnose the CAN bus line.
- When replacing the ECU, always check that the communication circuit is normal.

**FUNCTION**

When the signals from 6-disc CD changer and AM/FM radio cannot be received, the SRS-ECU sets the diagnosis code No. U0184.

**TROUBLE JUDGMENT**

Because of the CAN-B bus circuit malfunction, if SRS-ECU becomes unable to perform the normal data transmission, SRS-ECU determines that an abnormality is present.

**PROBABLE CAUSES**

- Malfunction of CAN bus line
- Malfunction of SRS-ECU
- Malfunctions of 6-disc CD changer and AM/FM radio

## DIAGNOSIS PROCEDURE

**STEP 1. M.U.T.-III CAN bus diagnostics**

Use the M.U.T.-III to diagnose the CAN bus lines.

**Q: Is the check result normal?**

**YES :** Go to Step 2.

**NO :** Repair the CAN bus line.

**STEP 2. M.U.T.-III 6-disc CD changer and AM/FM radio diagnosis code**

Check again if the diagnosis code is set to the 6-disc CD changer and AM/FM radio.

**Q: Is the diagnosis code set?**

**YES :** Troubleshoot the 6-disc CD changer and AM/FM radio (Refer to GROUP 54A – radio and CD player – Troubleshooting).

**NO :** Go to Step 3.

**STEP 3. Check whether the diagnosis code is reset.**

Check again if the diagnosis code is set to the SRS-ECU.

(1) Erase the diagnosis code.

(2) Turn the ignition switch from "LOCK" (OFF) position to "ON" position.

(3) Check if diagnosis code is set.

**Q: Is the diagnosis code set?**

**YES :** Replace the SRS-ECU.

**NO :** The trouble can be an intermittent malfunction (Refer to GROUP 00 – How to use Troubleshooting/inspection Service Points – How to Cope with Intermittent Malfunction).