

# SERVICE BULLETIN

AFTERSALES SERVICE OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : INFORMATION	ISSUE NO. : MSB-07E54-007	DATE : 2007-12-05
SUBJECT : JOINT CONNECTOR (1)		<MODEL> (EUR) 08.1- OUTLANDER (GS45X)(CW0W)
GROUP : CHASSIS ELECTRICAL		

## 1. Description:

Since the joint connector (1) has been added to the microphone unit in the hands free cellular phone system circuit for the right-hand drive vehicles, the related descriptions are added and modified in the applicable Workshop Manuals. This Service Bulletin contains the changed descriptions.

## 2. Applicable Manuals:

Manual	Pub. No.	Title (Info-ID)	Attachment
2008 OUTLANDER Workshop Manual	CGXE08E1-CD (English)	Group 54A Chassis Electrical/Hands-Free Cellular Phone System	Attachment 1-3
	CGXS08E1-CD (Spanish)	Code No.B2468 Microphone Input Short to BATT	
	CGXF08E1-CD (French)	Code No.B2470 Microphone Input Short to Earth (M1544401400035)	
	CGXG08E1-CD (German)	Group 54A Chassis Electrical/Hands-Free Cellular Phone System	Attachment 4-8
		Inspection Procedure 1: Hands-free cellular phone system does not work normally. (M1544400100064)	
		Group 80 Configuration Diagrams/ Instrument Panel <RHD> (M1801000700851)	Attachment 9
		Group 90 Circuit Diagrams/Hands Free System (M1901028600114)	Attachment 10-11
2008 OUTLANDER Workshop Manual <Additional Data for 4HN>	CGXE08E2-CD (English)	Group 54A Chassis Electrical/Hands-Free Cellular Phone System	Attachment 1-3
	CGXS08E2-CD (Spanish)	Code No.B2468 Microphone input short to BATT	
	CGXF08E2-CD (French)	Code No.B2470 Microphone input short to earth (M1544401400035)	
	CGXG08E2-CD (German)	Group 54A Chassis Electrical/Hands-Free Cellular Phone System	Attachment 4-8
		Inspection Procedure 1: Hands-free cellular phone system does not work normally. (M1544400100064)	
		Group 80 Configuration Diagrams/ Instrument Panel <RHD> (M1801000700851)	Attachment 9
		Group 90 Circuit Diagrams/Hands Free System (M1901028600114)	Attachment 10-11

## 3. Effective Date:

From the vehicles produced in the beginning of January, 2008

#### 4. Details:

Attachment 1

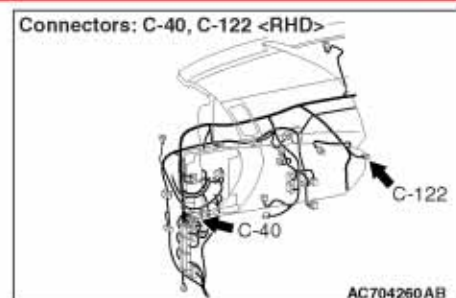
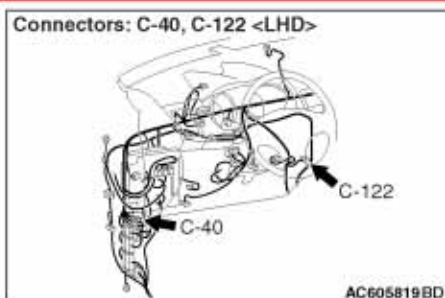
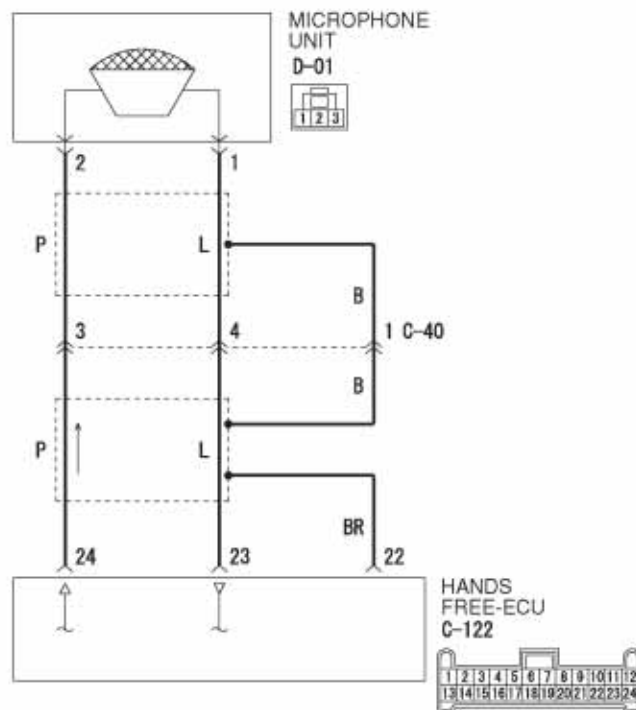
Code No.B2468 Microphone input short to BATT  
Code No.B2470 Microphone input short to earth

#### ⚠ CAUTION

- Before replacing the ECU, ensure that the communication circuit is normal.

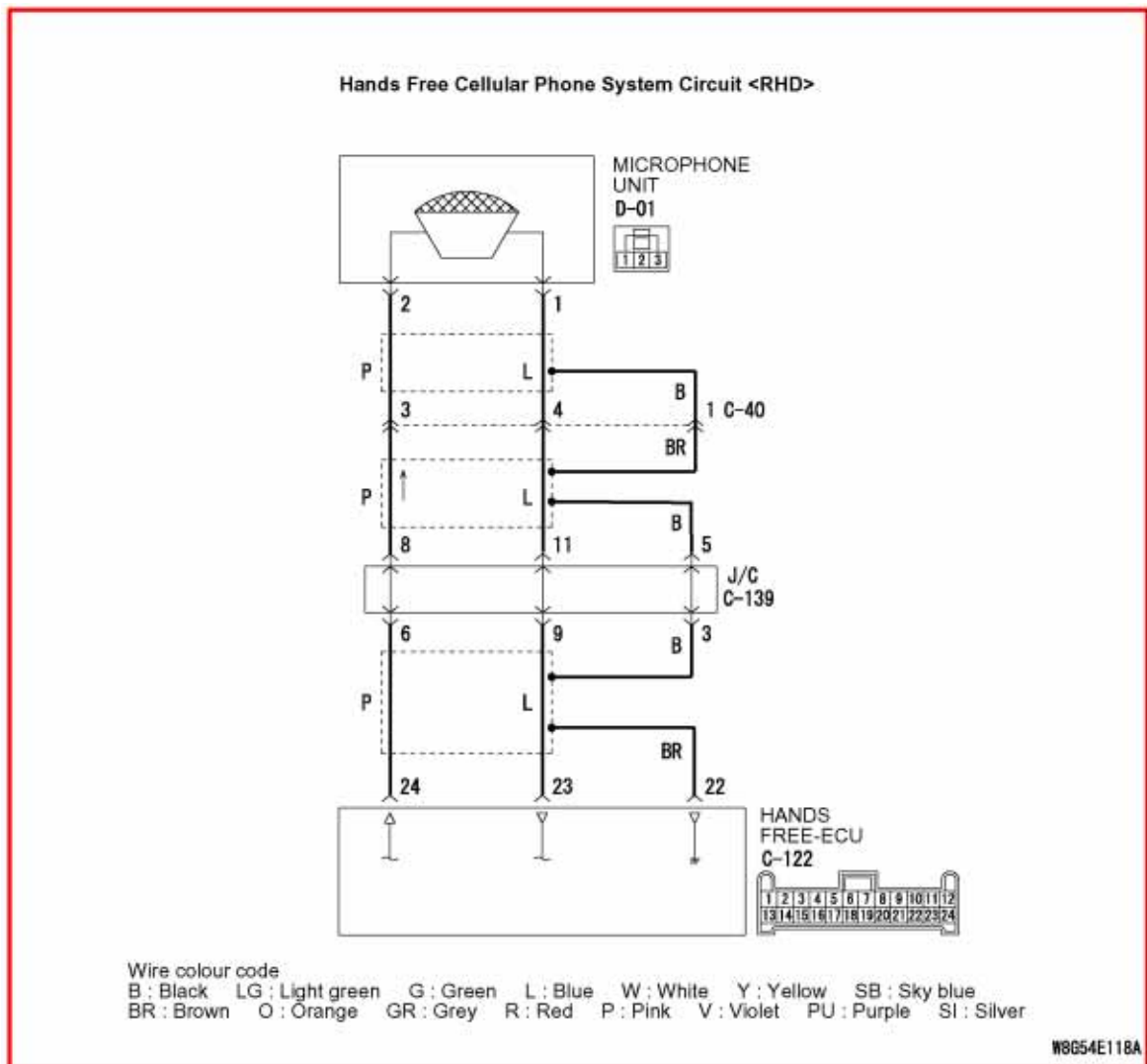
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Hands Free Cellular Phone System Circuit <LHD>

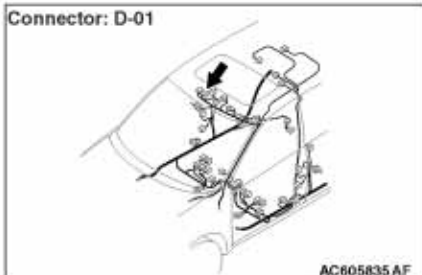


Insert attachment 2.

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Connector: D-01

**PROBABLE CAUSES**

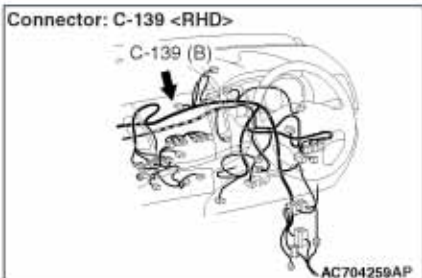
- Malfunctions of hands free-ECU
- Malfunction of the microphone unit
- Damaged harness wires and connectors

**JUDGMENT CRITERIA**

When the hands free-ECU judges that the connection with microphone unit is abnormal for 5 seconds or more, it stores diagnosis code No. B2468 or B2470.

&lt;Added&gt;

Connector: C-139 &lt;RHD&gt;

**DIAGNOSIS PROCEDURE**

**STEP 1. Connector check: C-122 hands free-ECU connector, D-01 microphone unit connector**

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

**YES :** Go to Step 2.

**NO :** Repair the defective connector.

**STEP 2. Check the wiring harness between C-122 hands free-ECU connector and D-01 microphone unit connector.**

(1) Disconnect C-122 hands free-ECU connector and D-01 microphone unit connector, and check the wiring harness.

~~NOTE: Prior to the wiring harness inspection, check intermediate connector C-40, and repair if necessary.~~

&lt;Old&gt;

(2) Check the wiring harness between C-122 hands free-ECU connector terminal No.22 and D-01 microphone unit connector terminal No.1

(3) Check the wiring harness between C-122 hands free-ECU connector terminal No.23 and D-01 microphone unit connector terminal No.1

(4) Check the wiring harness between C-122 hands free-ECU connector terminal No.24 and D-01 microphone unit connector terminal No.2

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

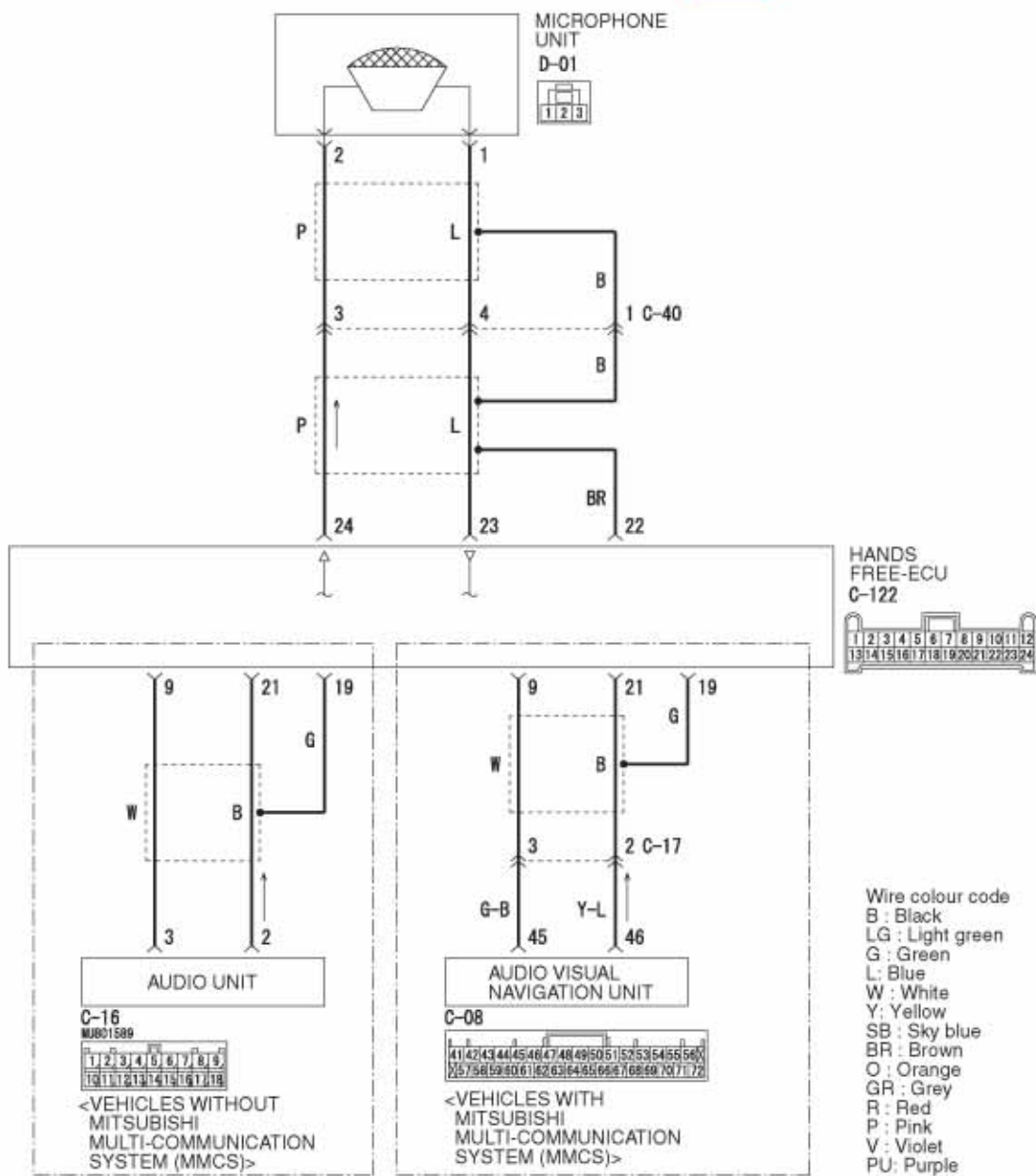
**YES :** Go to Step 3.

**NO :** Repair the wiring harness.

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**NOTE:** Prior to the wiring harness inspection, check C-40 intermediate connector and C-139 joint connector <RHD>, and repair if necessary.

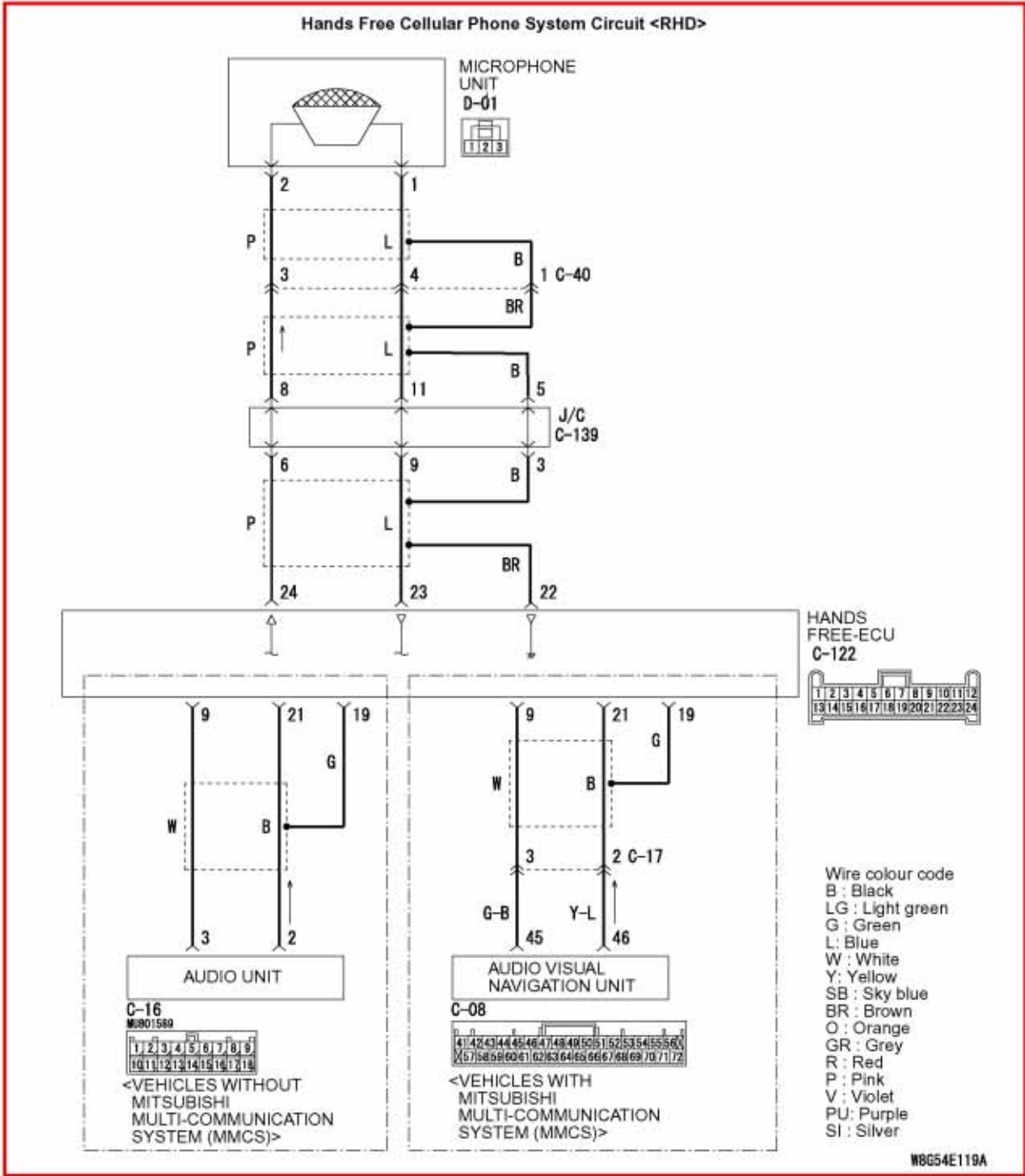
## Hands Free Cellular Phone System Circuit &lt;LHD&gt; &lt;Added&gt;



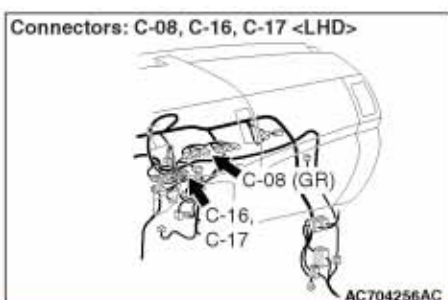
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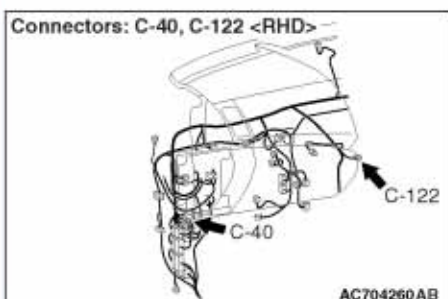
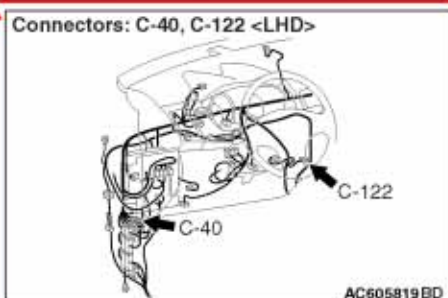
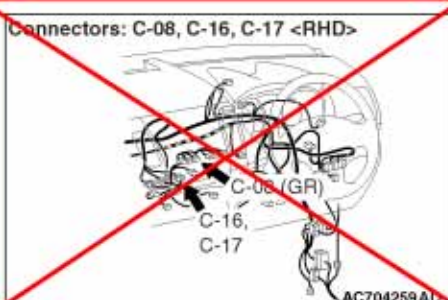
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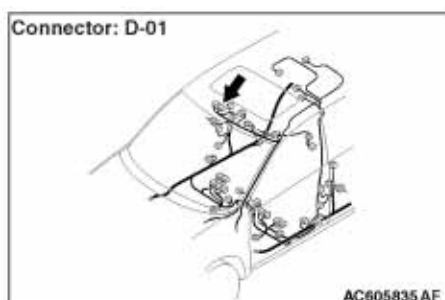




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Insert attachment 7.

**FUNCTION**

During the conversation with the hands free system, the signal of speaker's voice is transmitted from the microphone unit to the hands free-ECU. Then the signal is transmitted from the hands free-ECU to the cellular phone. The voice of other party is transmitted from the cellular phone to the hands free-ECU. Then, the voice is transmitted from the hands free-ECU to the audio unit <vehicles without MMCS> or audio visual navigation unit <vehicles with MMCS>, and output from the speaker.

**COMMENTS ON TROUBLE SYMPTOM**

If the hands free system cannot be used normally, the hands free-ECU, microphone unit, steering voice control switch, or audio unit <vehicles without MMCS> or audio visual navigation unit <vehicles with MMCS> may be defective.

**PROBABLE CAUSES**

- Malfunction of the hands free-ECU
- Malfunction of the microphone unit
- Malfunction of the steering voice control switch
- Malfunction of the audio unit <vehicles without MMCS> or audio visual navigation unit <vehicles with MMCS>
- Damaged harness wires and connectors

**DIAGNOSIS PROCEDURE****STEP 1. Check the cellular phone.**

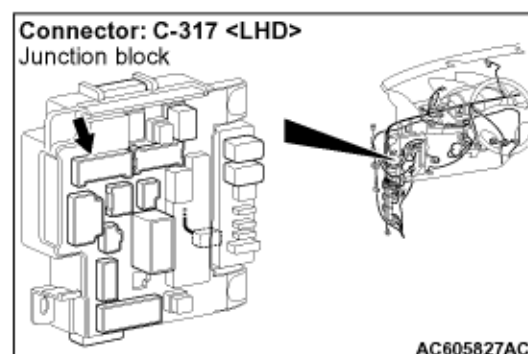
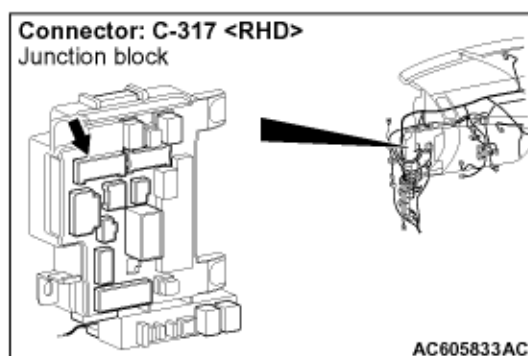
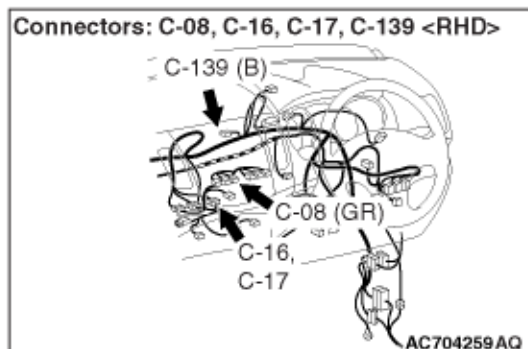
Check that the cellular phone can be used normally as a unit.

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

**YES** : Go to Step 2.

**NO** : Repair or replace the cellular phone.

&lt;Added&gt;





**STEP 7. Voltage measurement at C-122 hands free-ECU connector.**

- (1) Disconnect the connector, and measure at the wiring harness side.
- (2) Measure the voltage between terminal 13 and body earth.

**OK: System voltage****Q: Is the check result normal?****YES :** Go to Step 9.**NO :** Go to Step 8.**STEP 8. Check the wiring harness between C-122 hands free-ECU connector terminal No.13 and C-317 ETACS-ECU connector terminal No.1.****Q: Is the check result normal?**

**YES :** The trouble can be an 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. Connector check: D-01 microphone unit connector****Q: Is the check result normal?****YES :** Go to Step 10.**NO :** Repair the defective connector.**STEP 10. Check the wiring harness between C-122 hands free-ECU connector and D-01 microphone unit connector.**

- (1) Disconnect C-122 hands free-ECU connector and D-01 microphone unit connector, and check the wiring harness.

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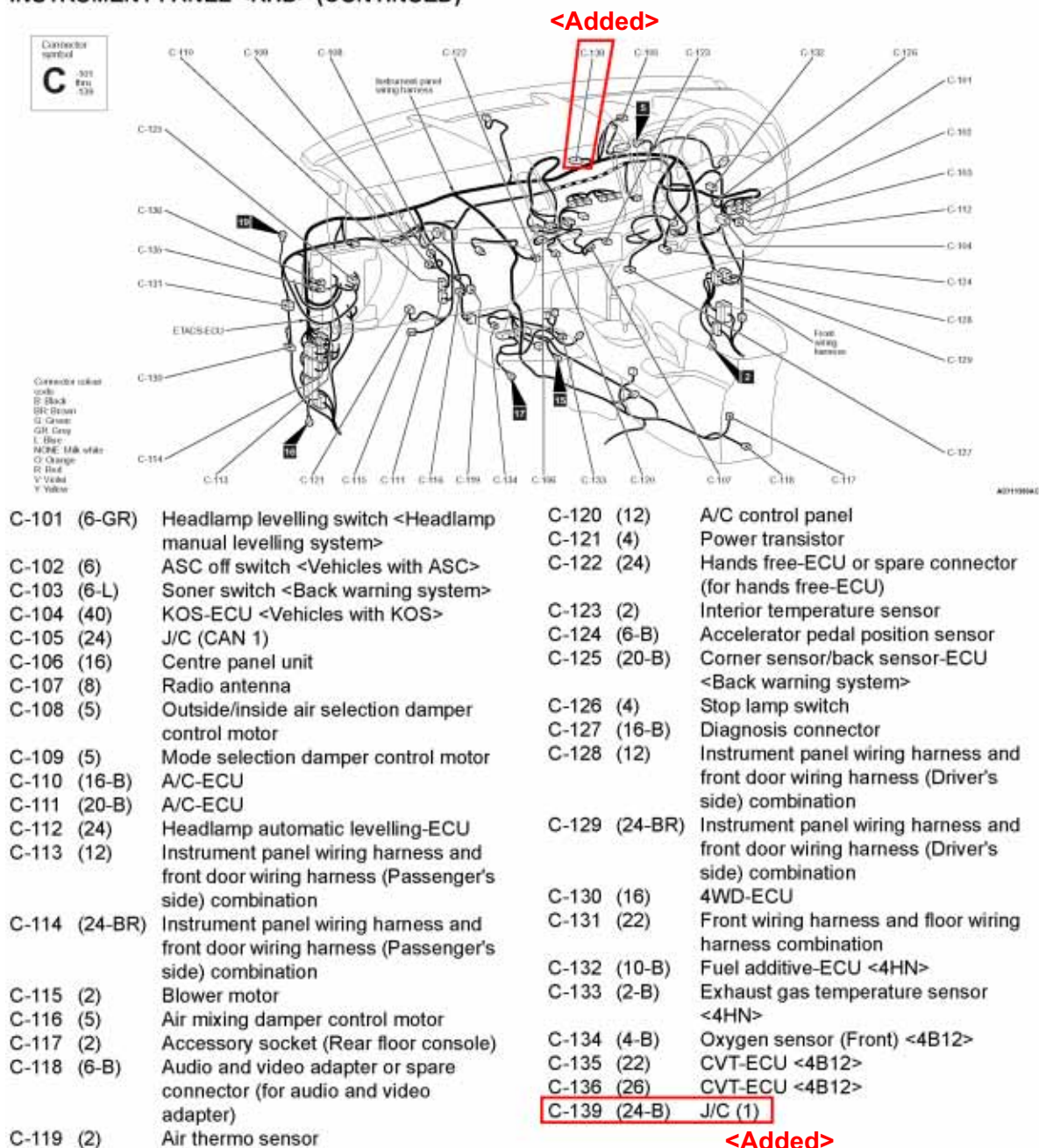
~~NOTE: Prior to the wiring harness inspection, check C-40 intermediate connector, and repair if necessary.~~

- (2) Check the wiring harness between C-122 hands-free-ECU connector terminal No.1 and D-01 microphone unit connector terminal No.22
- (3) Check the wiring harness between C-122 hands-free-ECU connector terminal No.1 and D-01 microphone unit connector terminal No.23
- (4) Check the wiring harness between C-122 hands-free-ECU connector terminal No.2 and D-01 microphone unit connector terminal No.24

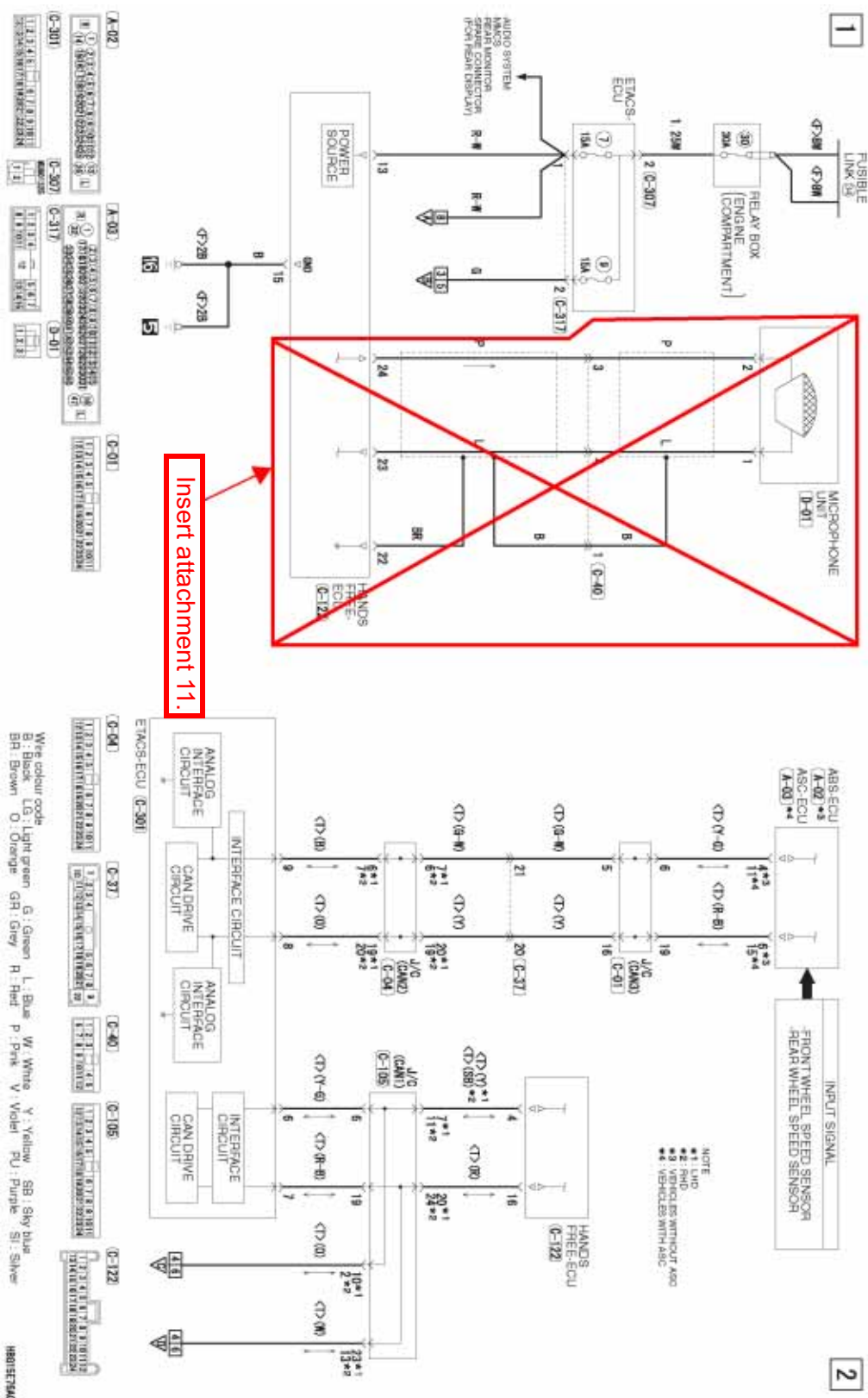
**Q: Is the check result normal?****YES :** Go to Step 11.**NO :** Repair the wiring harness.**<New>**

NOTE: Prior to the wiring harness inspection, check C-40 intermediate connector and C-139 joint connector <RHD>, and repair if necessary.

## INSTRUMENT PANEL &lt;RHD&gt; (CONTINUED)



## HANDS FREE SYSTEM



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