



# SERVICE BULLETIN

QUALITY INFORMATION ANALYSIS

OVERSEAS SERVICE DEPT. MITSUBISHI MOTORS CORPORATION

SERVICE BULLETIN		No.: MSB-98E52-502	
<b>Subject:</b> CORRECTION TO ERASING OF DIAGNOSIS CODES		<b>Date:</b> 1999-10-31	<b>&lt;Model&gt;</b>
<b>Group:</b> INTERIOR		<b>Draft No.:</b> 98AL070710	<b>&lt;M/Y&gt;</b>
CORRECTION	OVERSEAS SERVICE DEPT	 T.NITTA - VICE GENERAL MANAGER QUALITY INFORMATION ANALYSIS	(EX,EXP)ECLIPSE 98-10 (D30) 98-10 (EX,EXP)GALANT 98-10 (E50-80) 98-10 (EX,EXP)L200 (K00) 98-10 (EX,EXP)L300 (P0, P10, P20, P30) 98-10 (EX,EXP)COLT (CJ0A) (EX,EXP)LANCER (CK0A) (EX,EXP)CARISMA

## 1. Description:

This Service Bulletin informs you of correction to erasing of the diagnosis codes.

'96 COLT/LANCER Workshop Manual CHASSIS	PWME9511 (English) PWMS9512 (Spanish) PWMF9513 (French) PWMG9514 (German) PWMD9515 (Dutch) PWMW9516 (Swedish)	52B-6
'98 COLT/LANCER Workshop Manual CHASSIS	PWME9511-A (English) PWMS9512-A (Spanish) PWMF9513-A (French) PWMG9514-A (German) PWMD9515-A (Dutch) PWMW9516-A (Swedish)	52B-5
'96 ECLIPSE Workshop Manual CHASSIS	PWUE95E1 (English) PWUS95E1 (Spanish) PWUF95E1 (French) PWUG95E1 (German) PWUD95E1 (Dutch) PWUI95E1 (Italian)	52B-6
'97 GALANT Workshop Manual CHASSIS	PWDE9611 (English) PWDS9612 (Spanish) PWDG9613 (French) PWDG9614 (German) PWDD9615 (Dutch) PWDW9616 (Swedish)	52B-8

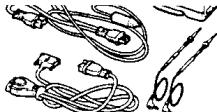
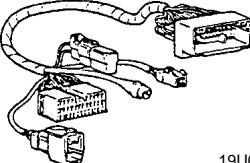
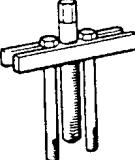
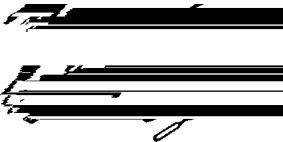
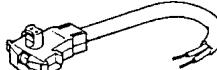
<b>Manual</b>	<b>Pub. No.</b>	<b>Language</b>	<b>Page(s)</b>
'96 CARISMA Workshop Manual CHASSIS	PWDE9502	(English)	52B-6
	PWDS9503	(Spanish)	
	PWDF9504	(French)	
	PWDG9505	(German)	
	PWDD9506	(Dutch)	
	PWDW9507	(Swedish)	
	PWDI95E1	(Italian)	
'97 L200 Workshop Manual CHASSIS	PWTE95E1	(English)	52B-6
	PWTS95E1	(Spanish)	
	PWTF95E1	(French)	
	PWTG95E1	(German)	
'98 L300 Workshop Manual CHASSIS	PWWE8608-Q	(English)	52B-6
	PWWS8613-Q	(Spanish)	
	PWWF8612-Q	(French)	
	PWWG8609-Q	(German)	
	PWWD8610-Q	(Dutch)	
	PWWW8611-Q	(Swedish)	

**3. Details:**

- '96 COLT/LANCER Workshop Manual CHASSIS, page 3
- '98 COLT/LANCER Workshop Manual CHASSIS, page 4
- '96 ECLIPSE Workshop Manual CHASSIS, page 5
- '97 GALANT Workshop Manual CHASSIS, page 6
- '96 CARISMA Workshop Manual CHASSIS, page 7

**SPECIAL TOOLS**

52400070117

Tool	Number	Name	Use
	MB991502	MUT-II sub assembly	Reading diagnosis codes Erasing diagnosis code Reading trouble period Reading erase times
 19U0039	MB991613	SRS check harness	Checking the SRS electrical circuitry
	MB990803	Steering wheel puller	Steering wheel removal
	MB686560	SRS air bag adapter harness A	Deployment of air bag modules and seat belt with pre-tensioner inside the vehicle Deployment of air bag module (front passenger's side) outside the vehicle
	MR203491 or MB628919	SRS air bag adapter harness B	Deployment of air bag module (driver's side) outside the vehicle

**TEST EQUIPMENT**

52400080035

Tool	Name	Use
	Digital multi-meter	Checking the SRS electrical circuitry Use a multi-meter for which the maximum test current is 2 mA or less at the minimum range of resistance measurement

**TROUBLESHOOTING**

52400310097

**STANDARD FLOW OF DIAGNOSTIC TROUBLESHOOTING**

Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.

**DIAGNOSIS FUNCTION**

52400320063

**DIAGNOSIS CODE CHECK**Connect the MUT-II to the diagnosis connector (16 –pin) under the instrument under cover, then check diagnosis codes.  
(Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.)**ERASING DIAGNOSIS CODES**

Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points. &lt;Incorrect&gt;

**WHEN USING THE MUT-II**

Connect the MUT-II to the diagnosis connector and erase the diagnosis code.

Caution

Turn off the ignition switch before connecting or disconnecting the MUT-II.

&lt;Correct&gt;

## TROUBLESHOOTING

### STANDARD FLOW OF DIAGNOSTIC TROUBLESHOOTING

Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.

### DIAGNOSIS FUNCTION

#### DIAGNOSIS CODE CHECK

Connect the MUT-II to the diagnosis connector (16 -pin) under the instrument under cover, then check diagnosis codes.  
(Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.)

#### ERASING DIAGNOSIS CODES

► Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points. **<Incorrect>**

### INSPECTION CHART FOR DIAGNOSIS CODES

Inspect according to the inspection chart that is appropriate for the malfunction code.

Code No.	Diagnosis Item	Reference Page
14	Analog G-sensor system in the SRS-ECU	52B-6
15, 16	Front impact safing G sensor system inside SRS-ECU	52B-6
17	Side impact safing G sensor system inside SRS-ECU	52B-6
21, 22, 61, 62	Driver's side air bag module (squib) system	52B-7
24, 25, 64, 65	Front passenger's side air bag module (squib) system	52B-8
31, 32	SRS-ECU capacitor system	52B-8
34*	Connector lock system	52B-9
35	SRS-ECU (deployed air bag) system	52B-9
41*	IG <sub>1</sub> (A) power circuit system	52B-9
42*	IG <sub>1</sub> (B) power circuit system	52B-9
43	SRS warning lamp driver circuit system	52B-10
		Lamp does not illuminate.*
		Lamp does not switch off.
44*	SRS warning lamp drive circuit system	52B-10
45	Internal circuit system of non-volatile memory (EEPROM) inside SRS-ECU	52B-11
51, 52	Driver's side air bag module (squib ignition drive circuit) system	52B-11
54, 55	Front passenger's side air bag module (squib ignition drive circuit) system	52B-11
71, 72, 75, 76	Side air bag module (R.H.) (squib) system	52B-11
73, 74	Side air bag module (R.H.) (squib) ignition drive circuit system	52B-12
79, 93	Side air bag module (L.H.) communication system	52B-12
81, 82, 85, 86	Side air bag module (L.H.) (squib) system	52B-12
83, 84	Side air bag module (L.H.) (squib) ignition drive circuit system	52B-13

**<Correct>**

#### WHEN USING THE MUT-II

Connect the MUT-II to the diagnosis connector and erase the diagnosis code.

Caution

Turn off the ignition switch before connecting or disconnecting the MUT-II.

# **TROUBLESHOOTING**

## **STANDARD FLOW OF DIAGNOSTIC TROUBLESHOOTING**

Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.

### **DIAGNOSIS FUNCTION**

#### **DIAGNOSIS CODE CHECK**

Connect the MUT-II to the diagnosis connector (16 –pin) under the instrument under cover, then check diagnosis codes.  
(Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.)

#### **ERASING DIAGNOSIS CODES**

~~Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.~~

**TEST EQUIPMENT**

52400080035

Tool	Name	Use
	Digital multi-meter	Checking the SRS electrical circuitry Use a multi-meter for which the maximum test current is 2 mA or less at the minimum range of resistance measurement

**TROUBLESHOOTING**

52400310097

**STANDARD FLOW OF DIAGNOSTIC TROUBLESHOOTING**

Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.

**DIAGNOSIS FUNCTION**

52400320063

**DIAGNOSIS CODE CHECK**

Connect the MUT-II to the diagnosis connector (16 -pin) under the instrument under cover, then check diagnosis codes.  
(Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.)

**ERASING DIAGNOSIS CODES**Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points. **<Incorrect>**

↑ **<Correct>**

**WHEN USING THE MUT-II**

Connect the MUT-II to the diagnosis connector and erase the diagnosis code.

Caution

Turn off the ignition switch before connecting or disconnecting the MUT-II.

**INSPECTION CHART FOR DIAGNOSIS CODES**

52400330222

Inspect according to the inspection chart that is appropriate for the malfunction code.

Code No.	Diagnosis Item	Reference Page
14	Analog G-sensor system in the SRS-ECU	52B-9
15, 16	Front impact safing G sensor system inside SRS-ECU	52B-9
17	Side impact safing G senosr system insided SRS-ECU	52B-10
21, 22, 61, 62	Driver's side air bag module (squib) system	52B-10
24, 25, 64, 65	Front passenger's side air bag module (squib) system	52B-11
31, 32	SRS-ECU capacitor system	52B-11
34*	Connector lock system	52B-12
35	SRS-ECU (deployed air bag) system	52B-12
41*	IG <sub>1</sub> (A) power circuit system	52B-12
42*	IG <sub>1</sub> (B) power circuit system	52B-13
43	SRS warning lamp drive circuit system	Lamp does not illuminate.*
		Lamp does not switch off.
44*	SRS warning lamp drive circuit system	52B-15
45	Internal circuit system of non-volatile memory (EEPROM) inside SRS-ECU	52B-15

## DIAGNOSIS FUNCTION

### DIAGNOSIS CODE CHECK

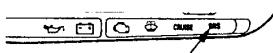
Connect the MUT-II to the diagnosis connector (16 –pin) under the instrument under cover, then check diagnosis codes.  
(Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.)

### ERASING DIAGNOSIS CODES

~~Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.~~ **<Incorrect>**

### “SRS” WARNING LAMP CHECK

Turn the ignition with the key “ON” position. Does the “SRS” warning lamp illuminate for about 7 seconds, turn OFF and the remain extinguished for at least 5 seconds? If yes, SRS system is functioning properly. If no, consult page 52B-6.



## INSPECTION CHART FOR DIAGNOSIS CODES

Inspect according to the inspection chart that is appropriate for the malfunction code.

Code No.	Diagnosis Item	Reference Page
14	Analog G-sensor system	52B-7
15	Safing G sensor system	52B-7
21, 22	Driver's side air bag module (squib) system	52B-7
24*1, 25*1	Front passenger's side air bag module (squib) system	52B-8
26, 27	Driver's side pre-tensioner (squib) system	52B-9
28, 29	Front passenger's side pre-tensioner (squib) system	52B-9
31, 32	SRS-ECU capacitor system	52B-10
35	SRS-ECU system (ignition of the air bag or activation of the seat belt pre-tensioner completed)	52B-10
41* <sup>2</sup>	IG1 (A) power circuit system	52B-10
42* <sup>2</sup>	IG1 (B) power circuit system	52B-11
43* <sup>2</sup>	SRS warning lamp drive circuit system	Lamp does not illuminate
		Lamp does not switch off
44* <sup>2</sup>	SRS warning lamp drive circuit system	52B-13

**SEALANT**

52400060015

Item	Specified sealant	Remark
Sensor cable	3M ATD Part No. 8625 or equivalent	Ribbon sealer

**TROUBLESHOOTING**

52400310097

**STANDARD FLOW OF DIAGNOSTIC TROUBLESHOOTING**

Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.

**DIAGNOSIS FUNCTION**

52400320063

**DIAGNOSIS CODE CHECK**

Connect the MUT-II to the diagnosis connector (16 –pin) under the instrument under cover, then check diagnosis codes.  
 (Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points.)

**ERASING DIAGNOSIS CODES**Refer to GROUP 00 – How to Use Troubleshooting/Inspection Service Points. **<Incorrect>**

↑ **<Correct>**

**WHEN USING THE MUT-II**

Connect the MUT-II to the diagnosis connector and erase the diagnosis code.

Caution

Turn off the ignition switch before connecting or disconnecting the MUT-II.

**INSPECTION CHART FOR DIAGNOSIS CODES**

52400330123

Inspect according to the inspection chart that is appropriate for the malfunction code.

Code No.	Diagnosis Item	Reference Page
11, 12, 13	Front impact sensor system	52B-7
21, 22	Air bag module (squib) system	52B-8
31, 32	SDU capacitor system	52B-9
33*	Cranking signal system	52B-10
34*	Connector lock system	52B-11
41*	IG <sub>1</sub> (A) power circuit system	52B-11
42*	IG <sub>1</sub> (B) power circuit system	52B-12
43	SRS warning lamp drive circuit system Lamp does not illuminate*	52B-13
	SRS warning lamp drive circuit system Lamp does not switch off	52B-14
44	SRS warning lamp drive circuit system	52B-14
45	SDU non-volatile memory (EEPROM) and A/D converter system	52B-14

**NOTE**

- (1) \*: If the vehicle condition returns to normal, the diagnosis code will be automatically erased, and the SRS warning lamp will return to normal.
- (2) If the vehicle has a discharged battery it will store the fault codes 41 or 42. When these diagnosis codes are displayed, check the battery.

## TEST EQUIPMENT

Tool	Name	Use
 A digital multimeter with a black case, a digital display showing '1234.1', and various buttons and knobs. The model number '1390748' is printed at the bottom.	Digital multi-meter	Checking the SRS electrical circuitry Use a multi-meter for which the maximum test current is 2 mA or less