




SERVICE BULLETIN

QUALITY INFORMATION ANALYSIS
OVERSEAS SERVICE DEPT. MITSUBISHI MOTORS CORPORATION

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

1. Description:

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

2. Applicable Manuals:

Manual	Pub. No.	Language	Page(s)
'96 COLT/LANCER Workshop Manual CHASSIS	PWME9511	(English)	52B-6
	PWMS9512	(Spanish)	
	PWMF9513	(French)	
	PWMG9514	(German)	
	PWMD9515	(Dutch)	
	PWMW9516	(Swedish)	
'98 COLT/LANCER Workshop Manual CHASSIS	PWME9511-A	(English)	52B-5
	PWMS9512-A	(Spanish)	
	PWMF9513-A	(French)	
	PWMG9514-A	(German)	
	PWMD9515-A	(Dutch)	
	PWMW9516-A	(Swedish)	
'96 ECLIPSE Workshop Manual CHASSIS	PWUE95E1	(English)	52B-6
	PWUS95E1	(Spanish)	
	PWUF95E1	(French)	
	PWUG95E1	(German)	
	PWUD95E1	(Dutch)	
	PWUI95E1	(Italian)	
'97 GALANT Workshop Manual CHASSIS	PWDE9611	(English)	52B-8
	PWDS9612	(Spanish)	
	PWDF9613	(French)	
	PWDG9614	(German)	
	PWDD9615	(Dutch)	
	PWDW9616	(Swedish)	

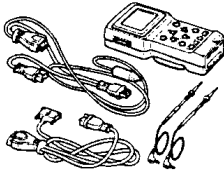
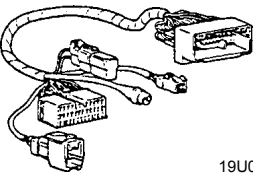
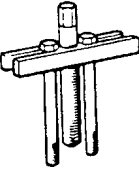
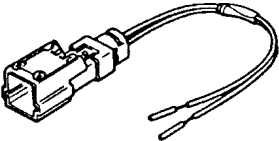
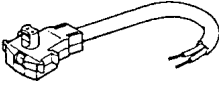
Manual	Pub. No.	Language	Page(s)
'96 CARISMA Workshop Manual CHASSIS	PWDE9502	(English)	52B-6
	PWDS9503	(Spanish)	
	PWDF9504	(French)	
	PWDG9505	(German)	
	PWDD9506	(Dutch)	
	PWDW9507	(Swedish)	
	PWDI95E1	(Italian)	
'97 L200 Workshop Manual CHASSIS	PWTE95E1	(English)	52B-6
	PWTS95E1	(Spanish)	
	PWTF95E1	(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
 '97 L200 Workshop Manual CHASSIS, page 8
 '98 L300 Workshop Manual CHASSIS, page 9


SPECIAL TOOLS

52400070117

Tool	Number	Name	Use
	MB991502	MUT-II sub assembly	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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
 13R0146	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>**

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.

<Correct>

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 ₁ (A) power circuit system	52B-9
42*	IG ₁ (B) power circuit system	52B-9
43	SRS warning lamp driver circuit system	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.~~

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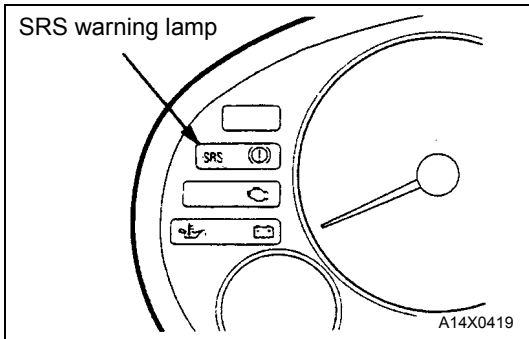
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WHEN USING THE MUT-II

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.




SRS WARNING LAMP INSPECTION

1. Check that the SRS warning lamp illuminates when the ignition switch is in the ON position.
2. Check that it illuminates for approximately 7 seconds and then switches off.
3. If the above is not the case, check the diagnosis codes.

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 sensor system inside 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 ₁ (A) power circuit system	52B-12
42*	IG ₁ (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.~~

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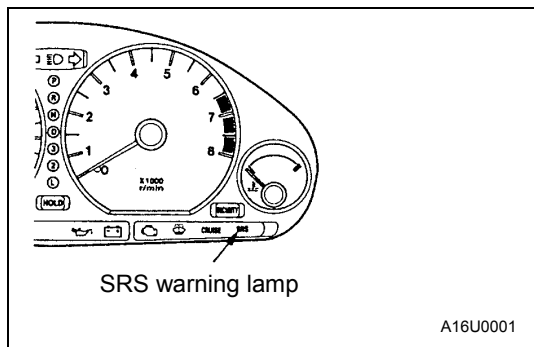
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WHEN USING THE MUT-II

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.



“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*2	IG1 (A) power circuit system	52B-10
42*2	IG1 (B) power circuit system	52B-11
43*2	SRS warning lamp drive circuit system	Lamp does not illuminate
		Lamp does not switch off
44*2	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 ₁ (A) power circuit system	52B-11
42*	IG ₁ (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
	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

STANDARD FLOW OF DIAGNOSTIC TROUBLESHOOTING

Refer to GROUP 13 – Service Adjustment Procedures (MPI). (Refer to the '95 L300 Workshop Manual <Pub. No. PWWE9409(1/2)>.)

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 13 – Service Adjustment Procedures (MPI). (Refer to the '95 L300 Workshop Manual <Pub. No. PWWE9409(1/2)>.)

ERASING DIAGNOSIS CODES

<Incorrect>

~~Refer to GROUP 13 – Service Adjustment Procedures (MPI). (Refer to the '95 L300 Workshop Manual <Pub. No. PWWE9409(1/2)>.)~~



<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

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-7
15, 16	Safing G sensor system inside SRS-ECU	52B-7
21, 22, 51, 54* ¹ , 61, 64* ¹	Driver's side air bag module (squib) system	52B-8
24, 25, 51, 54, 61, 64	Front passenger's side air bag module (squib) system	52B-9
31, 32	SRS-ECU capacitor system	52B-19
34* ²	Connector lock system	52B-10
35	SRS-ECU (deployed air bag) system	52B-10
41* ²	IG ₁ (A) power circuit system (fuse No. 14 circuit)	52B-10
42* ²	IG ₁ (B) power circuit system (fuse No. 15 circuit)	52B-10
43	SRS warning lamp drive circuit system	Lamp does not illuminate.* ²
		Lamp does not switch off.
44*	SRS warning lamp drive circuit system	52B-12
45	Internal circuit system of non-volatile memory (EEPROM) inside SRS-ECU	52B-12