

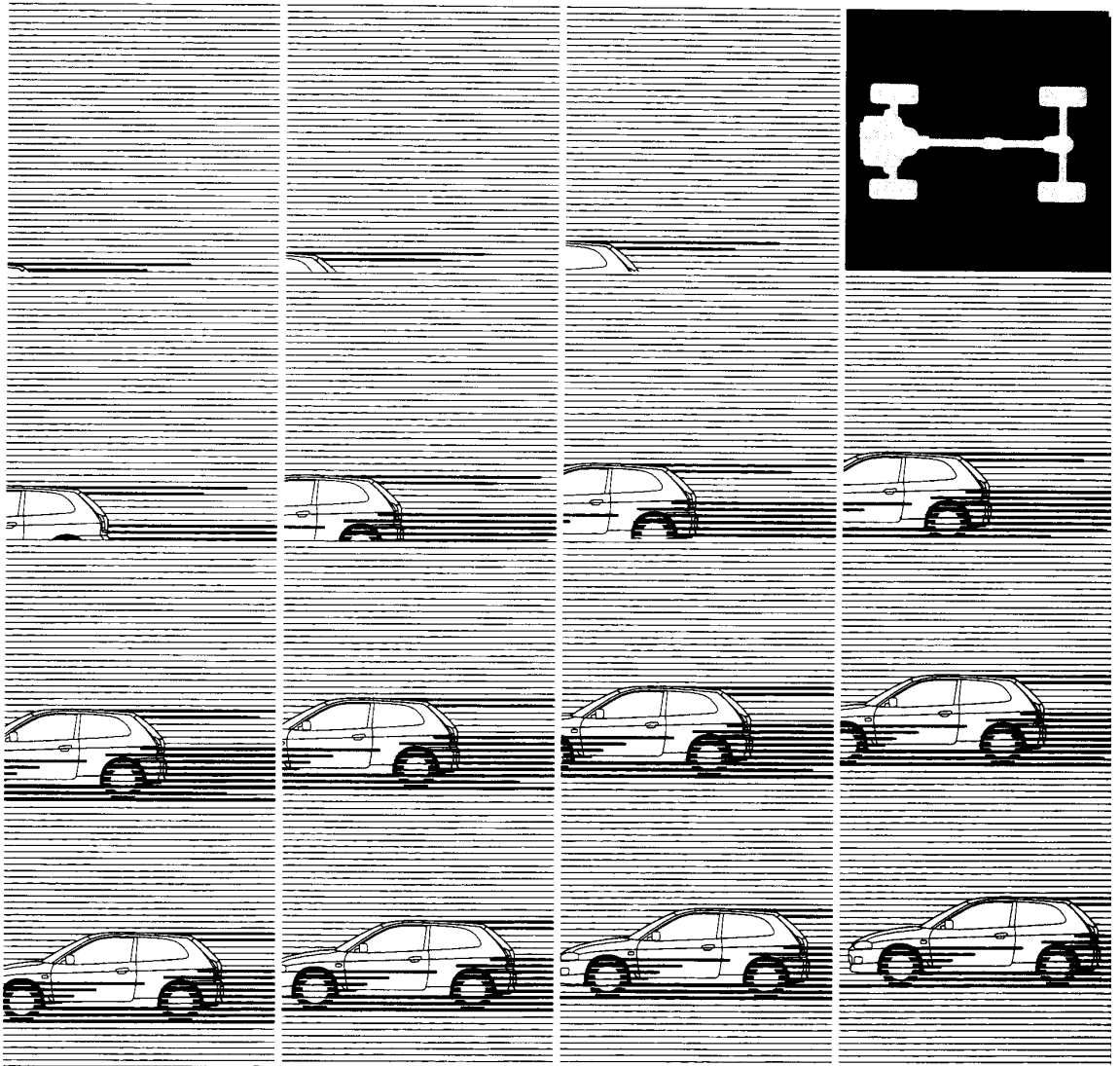


Workshop Manual

chassis

SUPPLEMENT

COLT/LANCER '98



Pub. No. PWME9511-A

MITSUBISHI COLT/LANCER

WORKSHOP MANUAL SUPPLEMENT

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FOREWORD

This manual outlines changes in servicing procedures related to the chassis including vehicle inspections, adjustments and improvements in the newly equipped models. Use the following manuals in combination with this manual as required.

TECHNICAL INFORMATION MANUAL	PYME9501
WORKSHOP MANUAL	
CHASSIS GROUP	PWME9511
ENGINE GROUP	PWEE□□□□ (Looseleaf edition)
ELECTRICAL WIRING	PHME9511 PHME9511-A (Supplement)
BODY REPAIR MANUAL	PBME9501
PARTS CATALOGUE	B606F006A□

All information, illustrations and product descriptions contained in this manual are current as at the time of publication. We, however, reserve the right to make changes at any time without prior notice or obligation.



WARNING!

- (1) Improper service or maintenance of any component of the SRS and seat belt with pre-tensioner, or any SRS-related component, can lead to personal injury or death to service personnel (from inadvertent firing of the air bag and seat belt with pre-tensioner) or to the driver and passenger (from rendering the SRS inoperative).
- (2) SRS components and seat belt with pre-tensioner should not be subjected to heat, so remove the SRS-ECU, air bag module (driver's side and front passenger's side), clock spring, side impact sensor, front seat assembly (side air bag module) and seat belt with pre-tensioner before drying or baking the vehicle after painting.
SRS-ECU, air bag module, clock spring and side impact sensor: 93°C or more
Seat belt with pre-tensioner: 90°C or more
- (3) Service or maintenance of any SRS component and seat belt with pre-tensioner or SRS-related component must be performed only at an authorized MITSUBISHI dealer.
- (4) MITSUBISHI dealer personnel must thoroughly review this manual, and especially its GROUP 52B – Supplemental Restraint System (SRS), before beginning any service or maintenance of any component of the SRS and seat belt with pre-tensioner or any SRS-related component.

NOTE

Section titles with asterisks (*) in the table of contents in each group indicate operations requiring warnings.

GENERAL

CONTENTS

HOW TO USE THIS MANUAL	2	Chassis Number	4
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HOW TO USE THIS MANUAL

MODEL INDICATIONS

The following abbreviations are used in this manual for classification of model types.

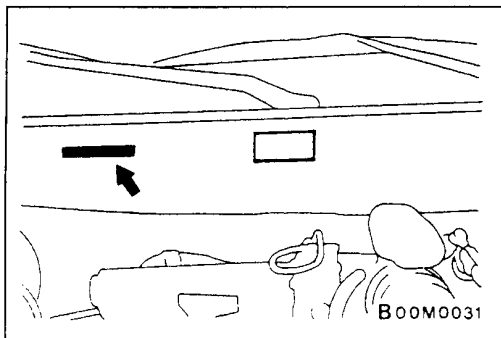
M/T:	Indicates the manual transmission, or models equipped with the manual transmission.
A/T:	Indicates the automatic transmission, or models equipped with the automatic transmission.
SOHC:	Indicates an engine with the single overhead camshaft, or a model equipped with such an engine.
MVV:	Indicates the Mitsubishi Vertical Vortex engine, or models equipped with that engine.
MPI:	Indicates the multi-point injection, or engines equipped with the multi-point injection.
2WD:	Indicates the front wheel-drive vehicles.

VEHICLE IDENTIFICATION**MODELS****<Hatchback>**

Model code		Engine model	Transmission model	Fuel supply system	
CJ1A	MNDEL6	4G13-SOHC (1,299 ml)	F5M41 (2WD-5M/T)	MPI	
	MNDGL6				
	MNDER6				
	MNJEL6				
	MNJGL6				
	MNJER6				
	MRJEL6		F4A41 (2WD-4A/T)		
	MRJER6				
CJ4A	MNJEL6	4G92-SOHC (1,597 ml)	F5M41 (2WD-5M/T)		MPI (MVV)
	MNJGL6				
	MNJER6				
	MRJEL6				
	MRJGL6		F4A41 (2WD-4A/T)		
	MRJER6				
	MNDAL6			F5M41 (2WD-5M/T)	
	MNDAR6				

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Model code		Engine model	Transmission model	Fuel supply system
CK1A	SNDEL6	4G13-SOHC (1,299 ml)	F5M41 (2WD-5M/T)	MPI
	SNDGL6			
	SNDER6			
	SNJEL6			
	SNJGL6		F4A41 (2WD-4A/T)	
	SNJER6			
	SRJEL6			
	SRJER6			

**CHASSIS NUMBER**

The chassis number is stamped on the toeboard inside the engine compartment.


J **M** **B** **M** **N** **CJ** **1** **A** **W** **U** **000001**

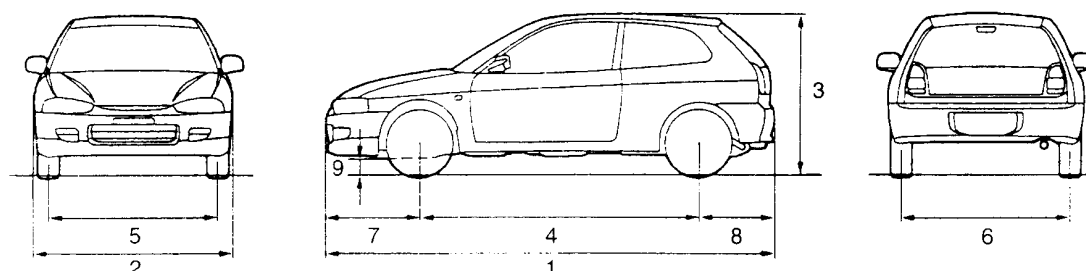

1 2 3 4 5 6 7 8 9 10 11

00M0089

No.	Items	Contents
1	Fixed figure	J Asia
2	Distribution channel	M Japan channel
3	Destination	A For Europe, right hand drive
		B For Europe, left hand drive
4	Body style	M 2-door hatchback
		S 4-door sedan
5	Transmission type	N 5-speed manual transmission
		R 4-speed automatic transmission
6	Development order	CJ COLT
		CK LANCER
7	Engine	1 4G13: 1,299 ml petrol engine
		4 4G92: 1,597 ml petrol engine
8	Sort	A Passenger car
9	Model year	W 1998
10	Plant	U Mizushima Motor Vehicle Works
11	Serial number	–

MAJOR SPECIFICATIONS

<HATCHBACK>



00M0035

Items			CJ1A MNDEL6, MNDGL6, MNDER6	CJ1A MNJEL6, MNJGL6, MNJER6	CJ1A MRJEL6, MRJER6	CJ4A MNJEL6, MNJGL6, MNJER6	CJ4A MRJEL6, MRJGL6, MRJER6	CJ4A MNDAL6, MNDAR6
Vehicle dimensions mm	Overall length	1	3,900	3,900	3,900	3,900	3,900	3,900
	Overall width	2	1,680	1,680	1,680	1,680	1,680	1,680
	Overall height (unladen)	3	1,365, 1,385* ¹	1,365, 1,385* ¹	1,365, 1,385* ¹	1,365, 1,385* ¹ , 1,380* ³ , 1,400* ¹⁺³	1,365, 1,385* ¹ , 1,380* ³ , 1,400* ¹⁺³	1,365, 1,385* ¹ ,
	Wheelbase	4	2,415	2,415	2,415	2,415	2,415	2,415
	Track-front	5	1,450	1,450	1,450	1,450	1,450	1,450
	Track-rear	6	1,460	1,460	1,460	1,460	1,460	1,460
	Overhang-front	7	825	825	825	825	825	825
	Overhang-rear	8	660	660	660	660	660	660
	Ground clearance (unladen)	9	150	150	150	150, 165* ³	150, 165* ³	150
Vehicle weight kg	Kerb weight		945	950	970	975	995	975
	Max. gross vehicle weight rating		1,445, 1,495* ²	1,445, 1,495* ²	1,465, 1,515* ²	1,470, 1,520* ²	1,480, 1,530* ²	1,470, 1,520* ²
	Max. axle weight rating-front		810	810	810	810	810	810
	Max. axle weight rating-rear		705, 770* ²	705, 770* ²	705, 770* ²	705, 770* ²	705, 770* ²	705, 770* ²
Seating capacity			5					
Engine	Model No.	4G13				4G92		
	Total displacement ml	1,299				1,597		
Transmis- sion	Model No.	F5M41			F4A41	F5M41	F4A41	F5M41
	Type	5-speed manual			4-speed automatic	5-speed manual	4-speed automatic	5-speed manual
Fuel system	Fuel supply system	Electronic controlled multipoint fuel injection						

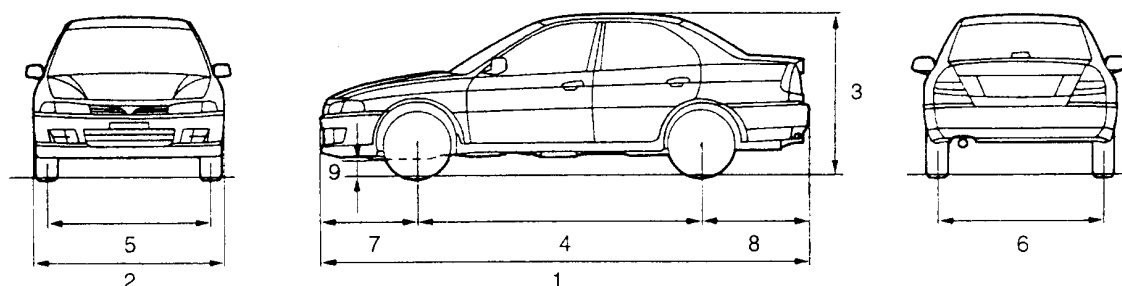
NOTE

*1: Vehicles with roof spoiler

*2: In case of towing

*3: For vehicles with high ground suspension

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00M0036

Items			CK1A SNDEL6, SNDGL6, SNDER6	CK1A SNJEL6, SNJGL6, SNJER6	CK1A SRJEL6, SRJER6
Vehicle dimensions mm	Overall length	1	4,295	4,295	4,295
	Overall width	2	1,690	1,690	1,690
	Overall height (unladen)	3	1,395	1,395	1,395
	Wheelbase	4	2,500	2,500	2,500
	Track-front	5	1,450	1,450	1,450
	Track-rear	6	1,460	1,460	1,460
	Overhang-front	7	845	845	845
	Overhang-rear	8	950	950	950
	Ground clearance (unladen)	9	150	150	150
Vehicle weight kg	Kerb weight		995	1,000	1,020
	Max. gross vehicle weight rating		1,485, 1,535*	1,485, 1,535*	1,500, 1,550*
	Max. axle weight rating-front		820	820	820
	Max. axle weight rating-rear		720, 790*	720, 790*	720, 790*
Seating capacity			5		
Engine	Model No.	4G13			
	Total displacement ml	1,299			
Transmis- sion	Model No.	F5M41			F4A41
	Type	5-speed manual			4-speed automatic
Fuel system	Fuel supply system	Electronic controlled multipoint fuel injection			

NOTE

*: In case of towing

PRECAUTIONS BEFORE SERVICE

SUPPLEMENTAL RESTRAINT SYSTEM (SRS), SEAT BELT WITH PRE-TENSIONER

1. Items to follow when servicing SRS
 - (1) Be sure to read GROUP 52B – Supplemental Restraint System (SRS).
For safe operations, please follow the directions and heed all warnings.
 - (2) Wait at least 60 seconds after disconnecting the battery cable before doing any further work.
The SRS system is designed to retain enough voltage to deploy the air bag even after the battery has been disconnected. Serious injury may result from unintended air bag deployment if work is done on the SRS system immediately after the battery cable is disconnected.
 - (3) Warning labels must be heeded when servicing or handling SRS components and seat belt with pre-tensioner. Warning labels are located in the following locations.
 - Sun visor
 - Glove box
 - SRS air bag control unit
 - Steering wheel
 - Steering gear and linkage
 - Air bag module (driver's side and front passenger's side)
 - Clock spring
 - Seat belt with pre-tensioner
 - Side air bag module
 - Side impact sensor
 - (4) Always use the designated special tools and test equipment.
 - (5) Store components removed from the SRS and seat belt with pre-tensioner in a clean and dry place.
The air bag module and seat belt with pre-tensioner should be stored on a flat surface and placed so that the pad surface is facing upward.
Do not place anything on top of it.
 - (6) Never attempt to disassemble or repair the SRS components (SRS air bag control unit, air bag module, clock spring and side impact sensor) and seat belt with pre-tensioner.
 - (7) Whenever you finish servicing the SRS and seat belt with pre-tensioner, check the SRS warning lamp operation to make sure that the system functions properly.
 - (8) Be sure to deploy the air bag and seat belt with pre-tensioner before disposing of the air bag module and seat belt with pre-tensioner or disposing of a vehicle equipped with an air bag and seat belt with pre-tensioner. (Refer to GROUP 52B – Air Bag Module and Seat Belt Pre-tensioner Disposal Procedures.)
2. Observe the following when carrying out operations on places where SRS components and seat belt with pre-tensioner are installed, including operations not directly related to the SRS air bag and seat belt with pre-tensioner.
 - (1) When removing or installing parts do not allow any impact or shock to the SRS components and seat belt with pre-tensioner.
 - (2) SRS components and seat belt with pre-tensioner should not be subjected to heat, so remove the SRS components and seat belt with pre-tensioner before drying or baking the vehicle after painting.
 - SRS components: 93°C or more
 - Seat belt with pre-tensioner 90°C or moreAfter re-installing them, check the SRS warning lamp operation to make sure that the system functions properly.

GROUP 42

BODY

GENERAL

OUTLINE OF CHANGES

To correspond to the abolition of manual operation in the event of a sunroof problem, a function which releases the clamping prevention mechanism and allows operation to continue until fully closed (for a distance of 30 mm) has been provided for cases when reversing occurs repeatedly for 5 times or more due to deformation (clamping prevention mechanism is operating). The sunroof wrench has also been abolished.

GROUP 51

EXTERIOR

GENERAL

OUTLINE OF CHANGES

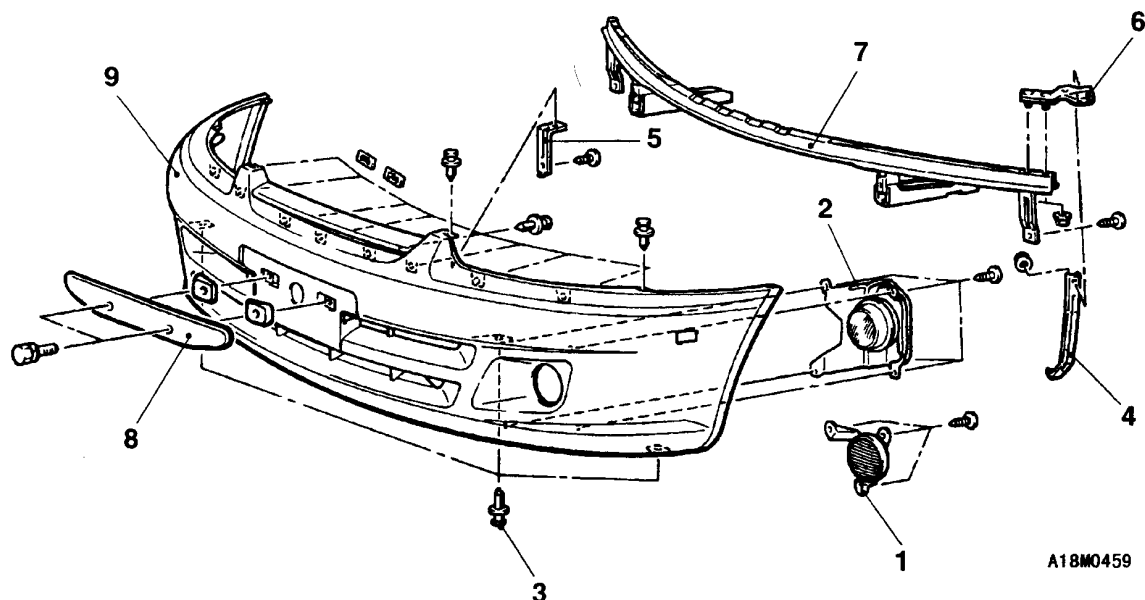
Following items have been changed. The service procedures for these items have been now established.

- Front bumper
- Fog lamp
- Aero parts

FRONT BUMPER

DISASSEMBLY AND REASSEMBLY

<Hatchback>



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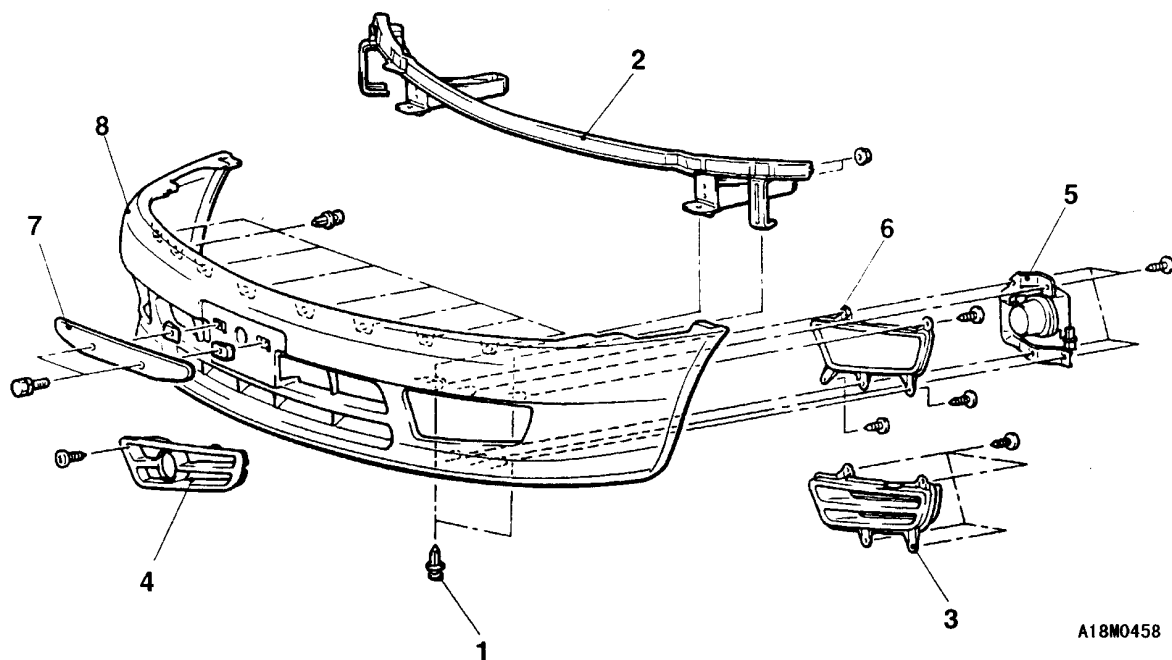
Disassembly steps

1. Air intake bezel
<Vehicles without fog lamp>
2. Front fog lamp assembly
<Vehicles with fog lamp>
3. Clip
4. Side rear plate

5. Center upper plate
6. Side upper plate
7. Front bumper reinforcement
8. Licence plate bracket
9. Bumper face

◀A▶

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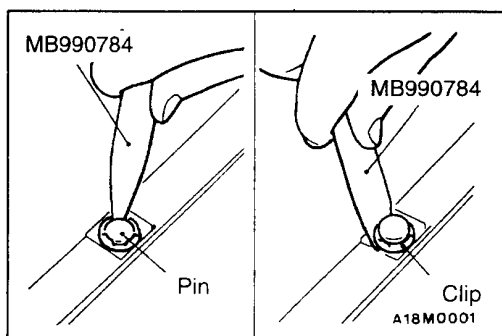


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Disassembly steps

1. Clip
2. Front bumper reinforcement
3. Air intake bezel
4. Front fog lamp bezel
- <Vehicles without fog lamp>
5. Front fog lamp assembly
- <Vehicles with fog lamp>
6. Front fog lamp bezel plate
- <Vehicles with fog lamp>
7. Licence plate bracket
8. Bumper face

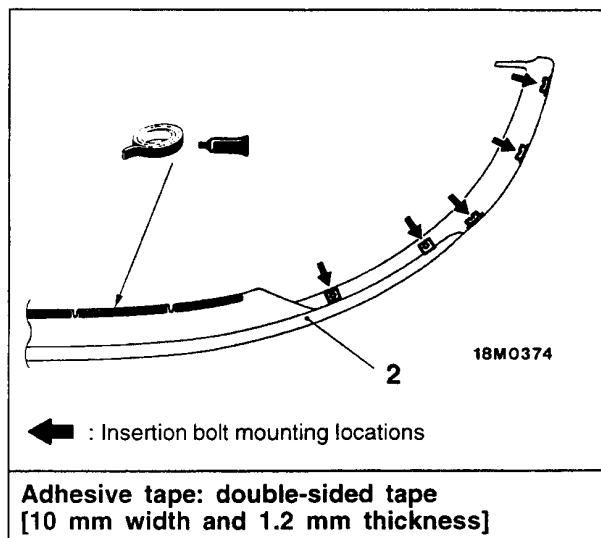
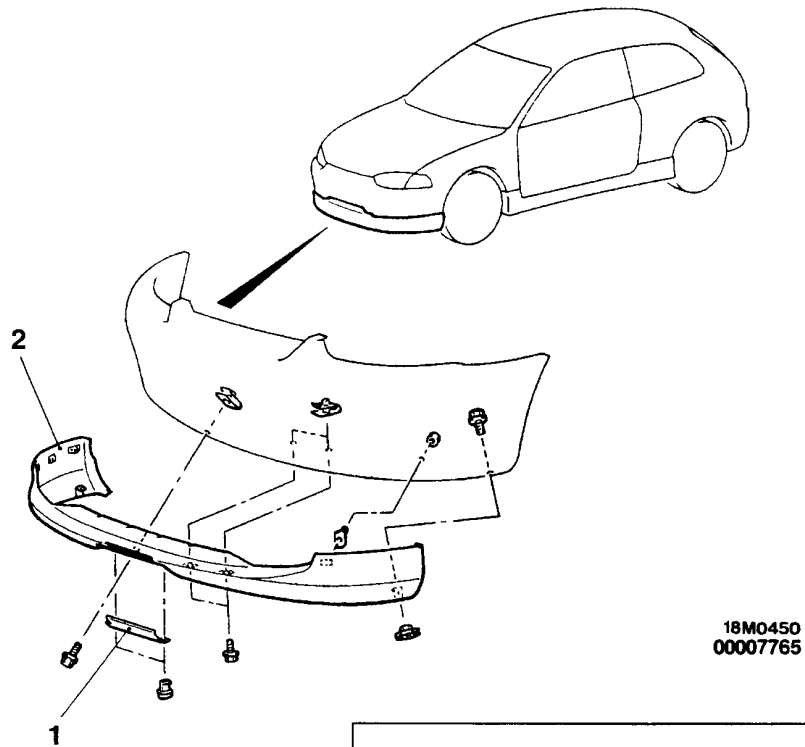
5. Front fog lamp assembly
- <Vehicles with fog lamp>
6. Front fog lamp bezel plate
- <Vehicles with fog lamp>
7. Licence plate bracket
8. Bumper face

**DISASSEMBLY SERVICE POINT****CLIP REMOVAL**

- (1) Use the special tool to pull up the centre pin in the clip.
- (2) Remove the clip.

AERO PARTS**REMOVAL AND INSTALLATION**

<Hatchback>

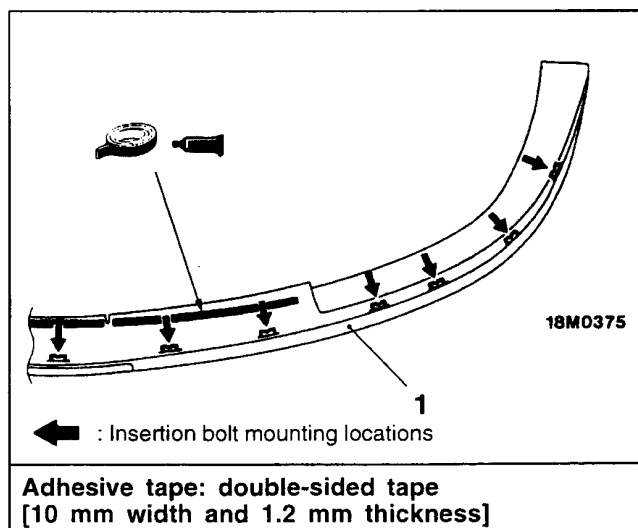
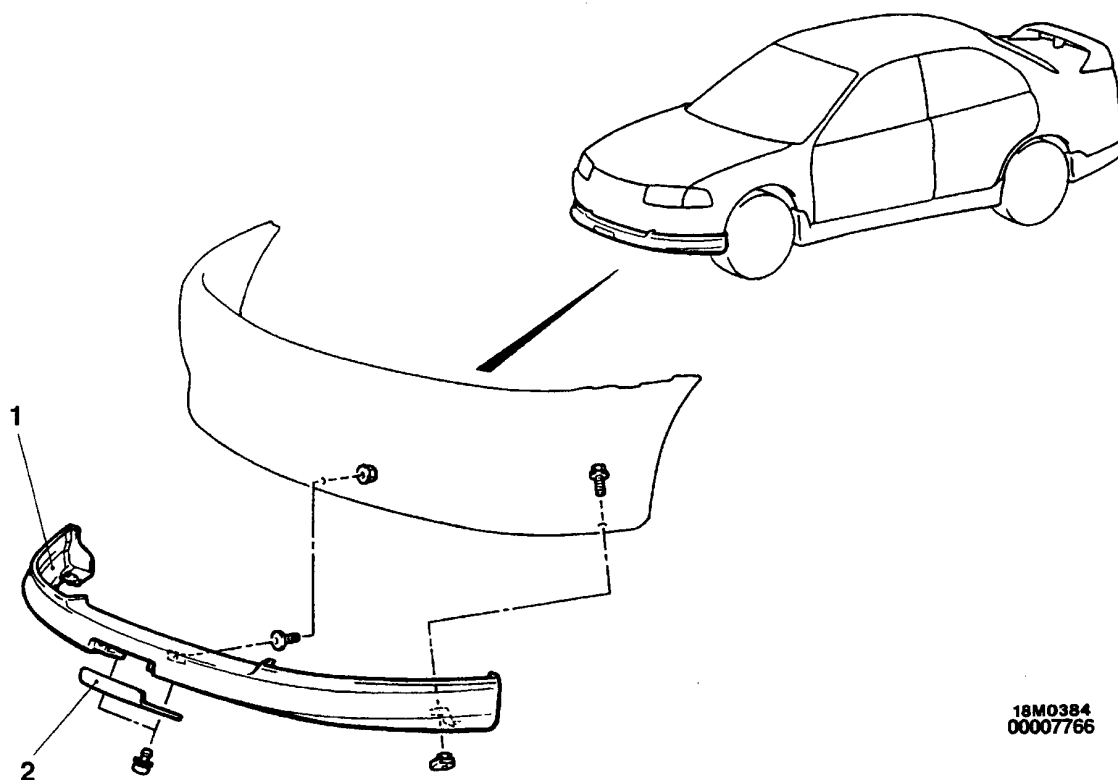
**Front airdam panel removal steps**

1. Center cover
2. Front airdam panel

NOTE

For each service point, refer to Basic Manual.

<Sedan>

**Front airdam panel removal steps**

- ◀A▶ ▶A▶ 1. Front airdam panel
◀A▶ ▶A▶ 2. Center cover

NOTE

For each service point, refer to Basic Manual.

INTERIOR AND SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

CONTENTS

INTERIOR	52A
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)	52B



GROUP 52A

INTERIOR

GENERAL

OUTLINE OF CHANGES

The following maintenance service points have been added to correspond to the addition of an SRS side air bag. Maintenance service points not

listed below are the same as those given in the '96 COLT/LANCER Basic Manual (Pub. No. PWME9511).

SEAT

FRONT SEAT

REMOVAL AND INSTALLATION

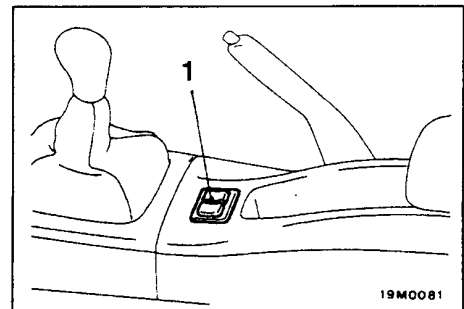
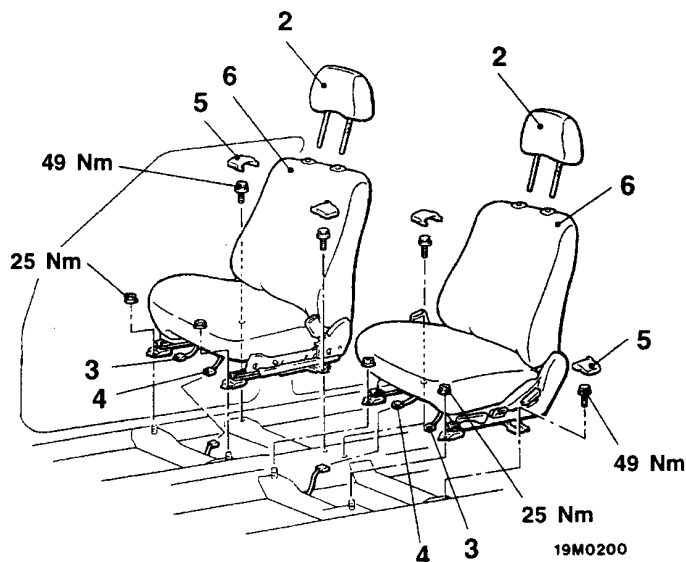
Pre-removal and Post-installation Operation

- Rear Floor Console Assembly Removal and Installation (Refer to '96 COLT/LANCER Basic Manual.)

- Before removal of the seat equipped with the side air bag module, refer to GROUP 52B – SRS Service Precautions and Air Bag Module.

CAUTION: SRS

When removing and installing the rear floor console (vehicles equipped with SRS), do not let it bump against the SRS-ECU.



1. Heated seat switch
<vehicles with heated seat>
2. Headrest

Front seat assembly removal steps

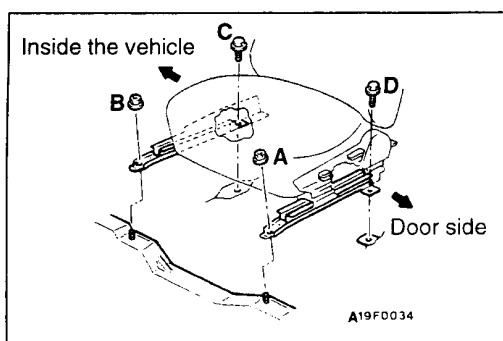
3. Harness connector
<vehicles with heated seat>
4. Harness connector

5. Seat anchor cover
6. Front seat assembly

NOTE

After provisionally tightening the seat assembly mounting nuts and bolts in every installation location, fully tighten them to the specified torque.

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INSTALLATION SERVICE POINT

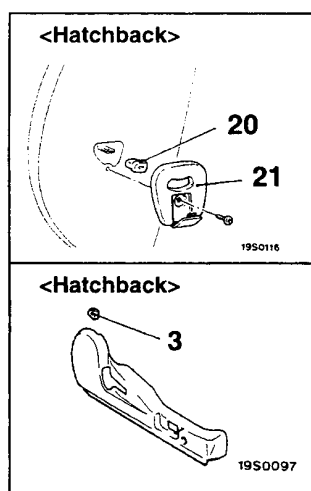
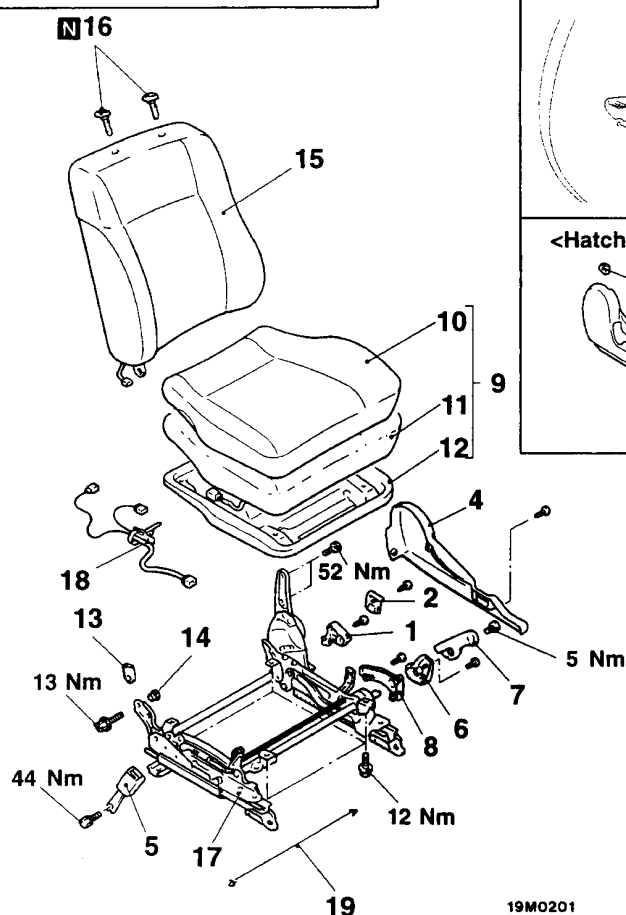
►A◄FRONT SEAT ASSEMBLY INSTALLATION

Tighten the front seat mounting bolts in the order A, B, C, and D.

DISASSEMBLY AND REASSEMBLY

Caution

Do not disassemble the front seatback assembly with built-in side air bag module.



Disassembly steps

- | | |
|---------------------------------|--------------------------------|
| 1. Reclining adjuster knob | 12. Front seat cushion frame |
| 2. Slide adjuster knob | 13. Protector |
| 3. Walk-in knob <Hatchback> | 14. Bushing |
| 4. Front seat side shield cover | 15. Seatback assembly |
| 5. Inner seat belt | 16. Headrest guide |
| 6. Height adjuster inner lever | 17. Seat adjuster assembly |
| 7. Height adjuster lever | 18. Seat heater wiring harness |
| 8. Inner cover | <Vehicles with heated seat> |
| 9. Front seat cushion assembly | 19. Wire |
| 10. Front seat cushion cover | 20. Knob <Hatchback> |
| 11. Front seat cushion pad | 21. Cover <Hatchback> |

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SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

CONTENTS

GENERAL	2	WARNING/CAUTION LABELS	19
SRS SERVICE PRECAUTIONS	2	AIR BAG MODULES	19
SPECIAL TOOLS	4	SIDE IMPACT SENSOR	20
TROUBLESHOOTING	5	SIDE AIR BAG MODULE DISPOSAL PROCEDURES	22
SRS MAINTENANCE	16	Undeployed Side Air Bag Module Disposal	22
POST-COLLISION DIAGNOSIS	17	Deployed Side Air Bag Module Disposal Procedures	25
INDIVIDUAL COMPONENT SERVICE	18		

CAUTION

- Carefully read and observe the information in the SERVICE PRECAUTIONS (P.52B-2.) prior to any service.
 - For information concerning troubleshooting or maintenance, always observe the procedures in the Troubleshooting (P.52B-5.) section.
 - If any SRS components are removed or replaced in connection with any service procedures, be sure to follow the procedures in the INDIVIDUAL COMPONENT SERVICE section (P.52B-18.) for the components involved.
 - If you have any questions about the SRS, please contact your local distributor.
-

GENERAL

OUTLINE OF CHANGES

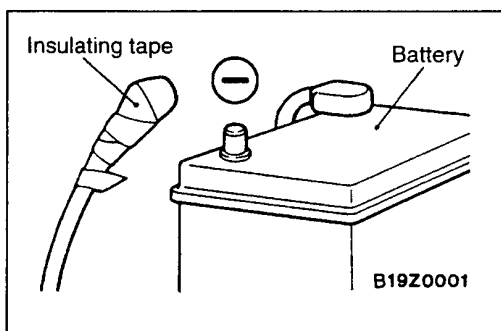
The following maintenance service points have been established to correspond to the addition of an SRS side air bag. Maintenance service points

not listed below are the same as those given in the '96 COLT/LANCER Basic Manual (Pub. No. PWME9511).

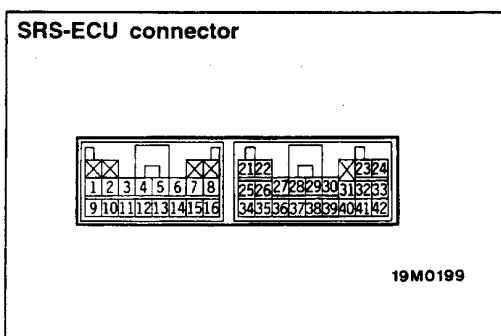
SRS SERVICE PRECAUTIONS

1. In order to avoid injury to yourself or others from accidental deployment of the air bag and accidental operation of the seat belt with pre-tensioner during servicing, read and carefully follow all the precautions and procedures described in this manual.
2. Do not use any electrical test equipment on or near SRS components, except those specified on P.52B-5. <Refer to '96 COLT/LANCER Basic Manual (Pub. No. PWME9511)>
3. **Never Attempt to Repair the Following Components:**
 - Side air bag module
 - Side impact sensor

NOTE
If any of these components are diagnosed as faulty, they should only be replaced, in accordance with the **INDIVIDUAL COMPONENTS SERVICE** procedures in this manual, starting at page 52B-18.



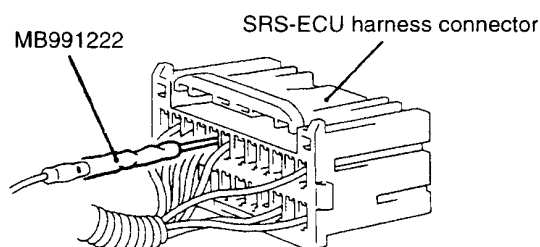
4. **After disconnecting the battery cable, wait 60 seconds or more before proceeding with the following work. The SRS system is designed to retain enough voltage to deploy the air bag for a short time even after the battery has been disconnected, so serious injury may result from unintended air bag deployment if work is done on the SRS system immediately after the battery cables are disconnected.**



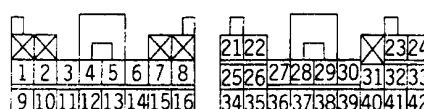
5. Do not attempt to repair the wiring harness connectors of the SRS. If any of the connectors are diagnosed as faulty, replace the wiring harness. If the wires are diagnosed as faulty, replace or repair the wiring harness according to the following table.

SRS-ECU Terminal No.	Destination of harness	Corrective action
1, 2	–	–
3	Body wiring harness → Earth	Correct or replace the body wiring harness.
4	Body wiring harness → SRS warning lamp	Correct or replace each wiring harness.
5, 6	Body wiring harness → Air bag module (Front Passenger's side)	Correct or replace the body wiring harness.
7, 8	Body wiring harness → Clock spring → Air bag module (Driver's side)	Correct or replace the body wiring harness. Replace the clock spring.
9	Body wiring harness → Junction block (fuse No.2)	Correct or replace the body wiring harness.
10, 11	–	
12	Body wiring harness → Junction block (fuse No.4)	
13	–	
14	Body wiring harness → Earth	
16	Body wiring harness → Diagnosis connector	
17 to 20	–	
21, 22	Body wiring harness → Side air bag module (L.H.)	
23, 24	Body wiring harness → Side air bag module (R.H.)	
25 to 33	–	–
34, 35, 36	Body wiring harness → Side impact sensor (L.H.)	Correct or replace each wiring harness.
37 to 39	–	
40, 41, 42	Body wiring harness → Side impact sensor (R.H.)	

6. Inspection of the SRS-ECU harness connector should be carried out by the following procedure. Insert the special tool (narrow probe in the harness set) into connector from harness side (rear side), and connect the tester to this probe. If any to other than the special tool is used, it may cause damage to the harness and other components. Furthermore, measurement should not be carried out by touching the probe directly against the terminals from the front of the connector. The terminals are plated to increase their conductivity, so that if they are touched directly by the probe, the plating may break, which will cause drops in reliability.



SRS-ECU harness connector (rear side)



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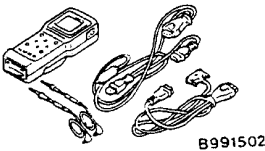
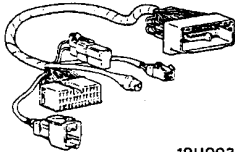
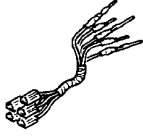
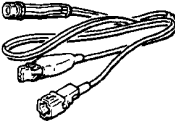
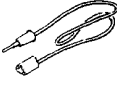
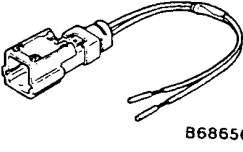
1910099
00005711

7. SRS components and seat belt with pre-tensioner should not be subjected to heat, so remove the SRS-ECU, air bag module (driver's side and front passenger's side), clock spring, side impact sensors, front seat assemblies (side air bag module), and seat belts with pre-tensioner before drying or baking the vehicle after painting.
 - SRS-ECU, air bag module, clock spring, side impact sensor: 93°C or more
 - Seat belt with pre-tensioner: 90°C or more
8. Whenever you finish servicing the SRS, check warning lamp operation to make sure that the system functions properly.
9. Make certain that the ignition switch is OFF when the MUT-II is connected or disconnected.
10. If you have any questions about the SRS, please contact your local distributor.

NOTE

SERIOUS INJURY CAN RESULT FROM UNINTENDED AIR BAG DEPLOYMENT, SO USE ONLY THE PROCEDURES AND EQUIPMENT SPECIFIED IN THIS MANUAL.

SPECIAL TOOLS

Tool	Number	Name	Use
 B991502	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
A  B  C  D  C991223	MB991223 A: MB991219 B: MB991220 C: MB991221 D: MB991222	Harness set A: Check harness B: LED harness C: LED harness adapter D: Probe	Checking the continuity and measuring the voltage at the SRS-ECU harness connector
 B686560	MB686560	SRS air bag adapter harness A	Deployment of side air bag module outside the vehicle

TROUBLESHOOTING

STANDARD FLOW OF DIAGNOSTIC TROUBLESHOOTING

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

DIAGNOSIS FUNCTION

DIAGNOSIS CODES 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.

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 drive 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 impact sensor (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

Code No.	Diagnosis Item	Reference page
89, 96	Side impact sensor (R.H.) communication system	52B-13
91*	Side impact sensor (L.H.) power supply circuit system	52B-13
92	Side impact sensor (L.H.) system	52B-13
94*	Side impact sensor (R.H.) power supply circuit system	52B-14
95	Side impact sensor (R.H.) 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.

INSPECTION PROCEDURE CLASSIFIED BY DIAGNOSIS CODE

Code No.14 Analog G-sensor system in the SRS-ECU	Probable cause
The SRS-ECU monitors the output of the analog G-sensor inside the SRS-ECU. It outputs this code when any of the following are detected. • When the analog G-sensor is not operating • When the characteristics of the analog G-sensor are abnormal • When the output from the analog G-sensor is abnormal	• Malfunction of SRS-ECU

Replace the SRS-ECU.

Code No.15 or 16 Front impact safing G sensor system inside SRS-ECU	Probable cause
These diagnosis codes are output if there is a short or open circuit between the terminals of the safing G-sensor inside the SRS-ECU. The trouble causes for each diagnosis code No. are as follows.	• Malfunction of SRS-ECU

Code No.	Trouble cause
15	Short circuit in the safing G-sensor
16	Open circuit in the safing G-sensor

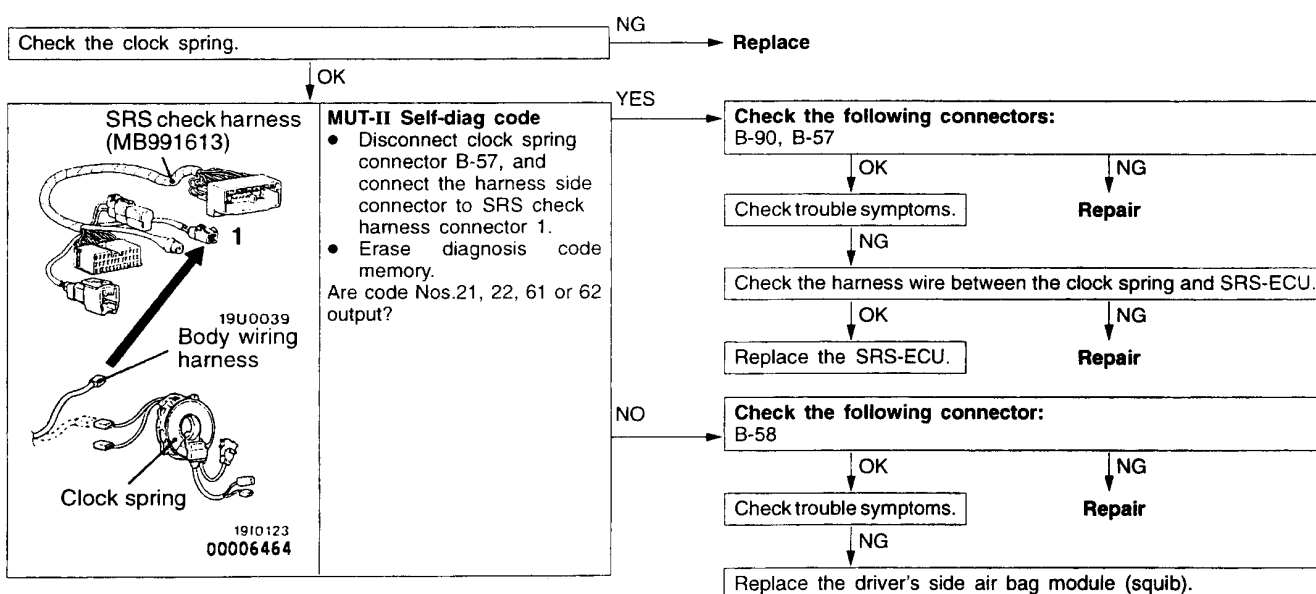
Replace the SRS-ECU.

Code No.17 Side impact safing G sensor system inside SRS-ECU	Probable cause
This code is output if the following are detected from the side impact safing G sensor output. • Safing G sensor is not operating • Safing G sensor characteristics are abnormal • Safing G sensor output is abnormal	Malfunction of SRS-ECU

Replace the SRS-ECU.

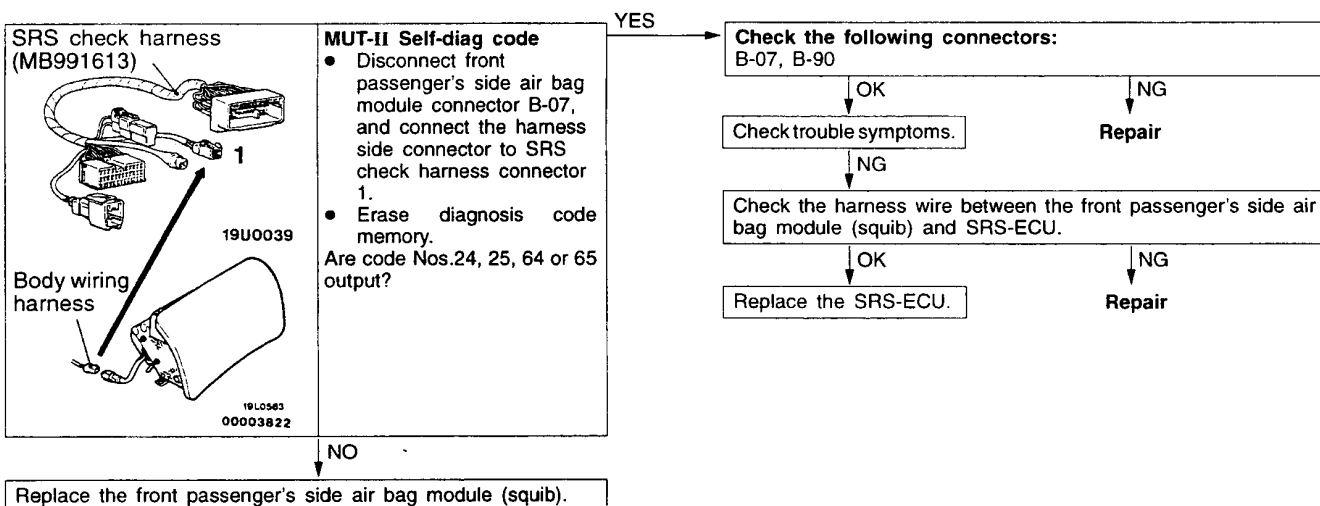
Code No.21, 22, 61 or 62 Driver's side air bag module (squib) system	Probable cause
These diagnosis codes are output if there is abnormal resistance between the input terminals of the driver's side air bag module (squib). The trouble causes for each diagnosis code No. are as follows.	• Malfunction of clock spring • Partial disconnection due to incorrect clock spring neutral position • Malfunction of wiring harnesses or connectors • Malfunction of driver's side air bag module (squib) • Malfunction of SRS-ECU

Code No.	Trouble cause
21	• Short in driver's side air bag module (squib) or harness short • Short in clock spring
22	• Open circuit in driver's side air bag module (squib) or open harness • Open circuit in clock spring • Disconnected driver's side air bag module (squib) connector • Partial disconnection due to incorrect clock spring neutral position • Malfunction of connector contact
61	• Short in driver's side air bag module (squib) harness leading to the power supply
62	• Short in driver's side air bag module (squib) harness leading to the earth



Code No.24, 25, 64 or 65 Front passenger's side air bag module (squib) system	Probable cause
These diagnosis codes are output if there is abnormal resistance between the input terminals of the front passenger's side air bag module (squib). The trouble causes for each diagnosis code No. are as follows.	• Malfunction of wiring harnesses or connectors • Malfunction of front passenger's side air bag module (squib) • Malfunction of SRS-ECU

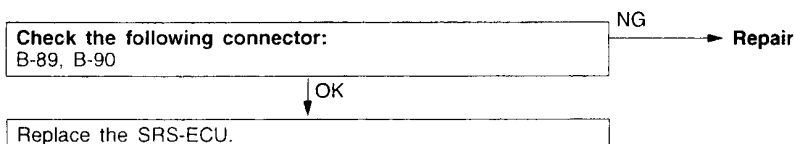
Code No.	Trouble cause
24	• Short in front passenger's side air bag module (squib) or harness short
25	• Open circuit in front passenger's side air bag module (squib) or open harness • Malfunction of connector contact
64	• Short in front passenger's side air bag module (squib) harness leading to the power supply
65	• Short in front passenger's side air bag module (squib) harness leading to the earth



Code No.31 or 32 SRS-ECU capacitor system	Probable cause
These diagnosis codes are output if the voltage at the SRS-ECU capacitor terminals is higher (No.31) or lower (No.32) than the specified value for 5 seconds or more. However, if diagnosis code Nos.41 and 42 are being output due to a drop in battery voltage, code No.32 will not be detected.	• Malfunction of SRS-ECU

Replace the SRS-ECU.

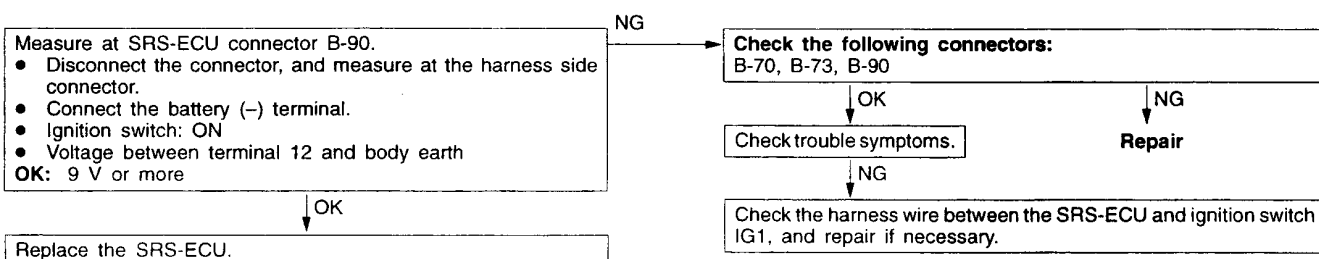
Code No.34 Connector lock system	Probable cause
This diagnosis code is output if a poor connection of the SRS-ECU is detected. However, if the vehicle condition returns to normal, diagnosis code No.34 will be automatically erased, and the SRS warning lamp will switch off.	• Malfunction of connectors • Malfunction of SRS-ECU



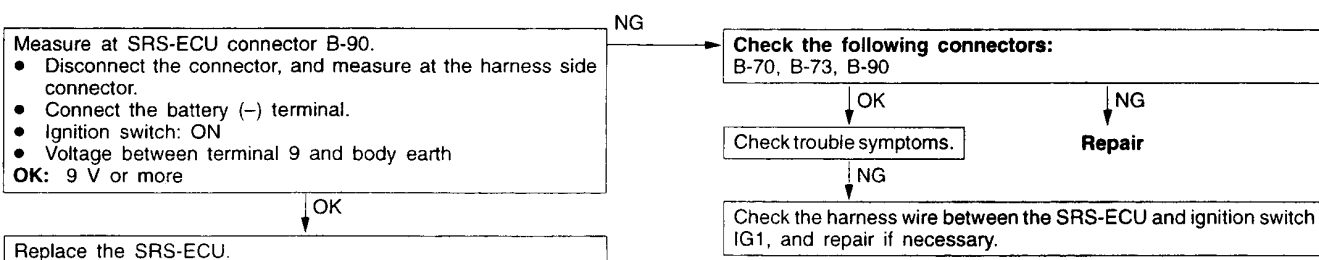
Code No.35 SRS-ECU (deployed air bag) system	Probable cause
This diagnosis code is output after the air bag deploys. If this code is output before the air bag has deployed, the cause is probably a malfunction inside the SRS-ECU.	• Malfunction of SRS-ECU

Replace the SRS-ECU.

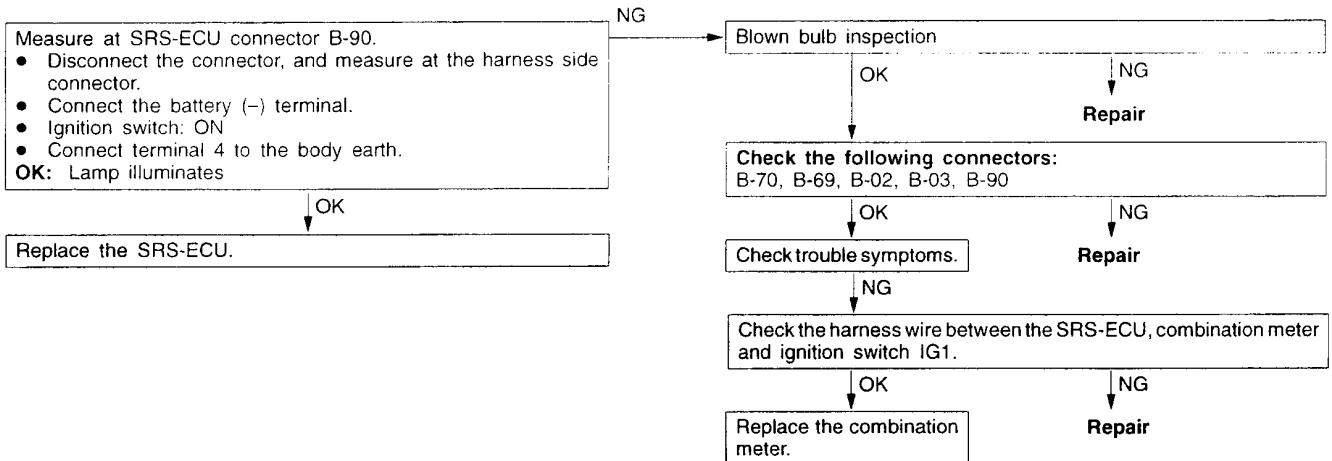
Code No.41 IG ₁ (A) power circuit system	Probable cause
This diagnosis code is output if the voltage between the IG ₁ (A) terminal and the earth is lower than the specified value for a continuous period of 5 seconds or more. However, if the vehicle condition returns to normal, diagnosis code No.41 will be automatically erased, and the SRS warning lamp will switch off.	• Malfunction of wiring harnesses or connectors • Malfunction of SRS-ECU



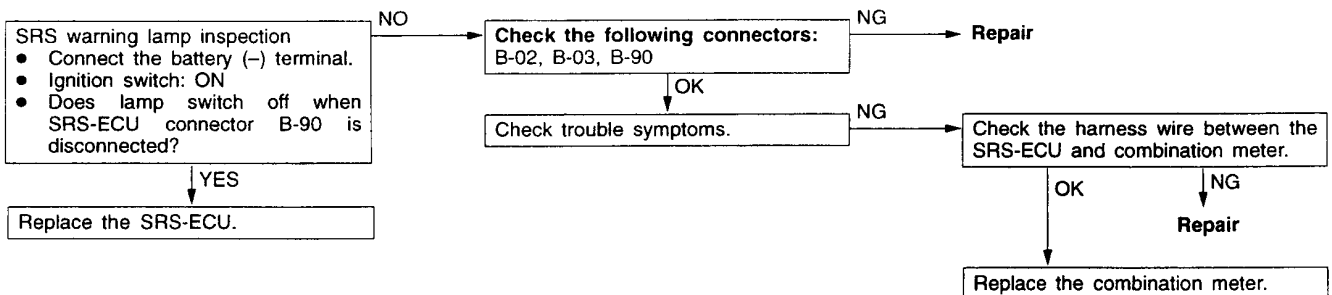
Code No.42 IG ₁ (B) power circuit system	Probable cause
This diagnosis code is output if the voltage between the IG ₁ (B) terminal and the earth is lower than the specified value for a continuous period of 5 seconds or more. However, if the vehicle condition returns to normal, diagnosis code No.42 will be automatically erased, and the SRS warning lamp will switch off.	• Malfunction of wiring harnesses or connectors • Malfunction of SRS-ECU



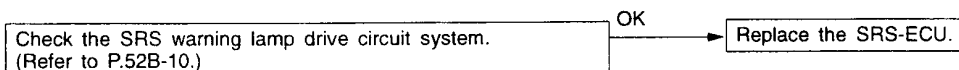
Code No.43 SRS warning lamp drive circuit system (Lamp does not illuminate.)	Probable cause
This diagnosis code is output when an open circuit occurs for a continuous period of 5 seconds while the SRS-ECU is monitoring the SRS warning lamp and the lamp is OFF (transistor OFF). However, if this code is output due to an open circuit, if the vehicle condition returns to normal, this diagnosis code No.43 will be automatically erased, and the SRS warning lamp will return to normal.	• Malfunction of wiring harnesses or connectors • Blown bulb • Malfunction of SRS-ECU • Malfunction of combination meter



Code No.43 SRS warning lamp drive circuit system (Lamp does not switch off.)	Probable cause
This diagnosis code is output when a short to earth occurs in the harness between the lamp and the SRS-ECU while SRS-ECU is monitoring the SRS warning lamp and the lamp is ON.	• Malfunction of wiring harnesses or connectors • Malfunction of SRS-ECU • Malfunction of combination meter



Code No.44 SRS warning lamp drive circuit system	Probable cause
This diagnosis code is output when a short occurs in the lamp drive circuit or a malfunction of the output transistor inside the SRS-ECU is detected while the SRS-ECU is monitoring the SRS warning lamp drive circuit. However, if the vehicle condition returns to normal, diagnosis code No.44 will be automatically erased, and the SRS warning lamp will switch off.	• Malfunction of wiring harnesses or connectors • Malfunction of SRS-ECU



Code No.45 Internal circuit system of non-volatile memory (EEPROM) inside SRS-ECU	Probable cause
This diagnosis code is output if there is an internal problem with the non-volatile memory (EEPROM) ,etc. inside the SRS-ECU.	• Malfunction of SRS-ECU

Replace the SRS-ECU.

Code No.51 or 52 Driver's side air bag module (squib ignition drive circuit) system	Probable cause
This diagnosis code is output if a short (No.51) or an open circuit (No.52) is detected in the circuit for the driver's seat.	• Malfunction of SRS-ECU

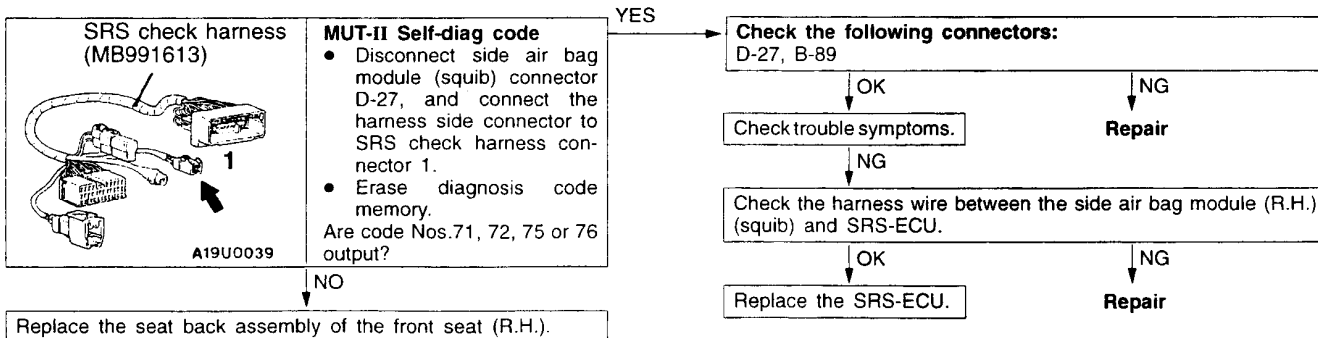
Replace the SRS-ECU.

Code No.54 or 55 Front passenger's side air bag module (squib ignition drive circuit) system	Probable cause
This diagnosis code is output if a short (No.54) or an open circuit (No.55) is detected in the circuit for the passenger's seat.	• Malfunction of SRS-ECU

Replace the SRS-ECU.

Code No.71, 72, 75 or 76 Side air bag module (R.H.) (squib) system	Probable cause
These diagnosis codes are output if the resistance value between the side air bag module (R.H.) (squib) input terminals of the SRS-ECU is abnormal. The problems which cause these codes to be output are as follows.	• Malfunction of wiring harnesses or connectors • Malfunction of side air bag module (R.H.) (squib) • Malfunction of SRS-ECU

Code No.	Trouble cause
71	Short in side air bag module (R.H.) (squib) or harness short
72	• Open circuit in side air bag module (R.H.) (squib) or open harness • Malfunction of connector contact
75	Short in side air bag module (R.H.) (squib) harness leading to the power supply
76	Short in side air bag module (R.H.) (squib) harness leading to the earth



Code No.73 or 74 Side air bag module (R.H.) (squib) ignition drive circuit system	Probable cause
These diagnosis codes are output if there is a short-circuit (code No.73) or an open circuit (code No.74) in the squib ignition drive circuit.	Malfunction of SRS-ECU

Replace the SRS-ECU.

Code No.79 or 93 Side impact sensor (L.H.) communication system	Probable cause
These diagnosis codes are output if communication between the side impact sensor (L.H.) and the SRS-ECU is not possible (code No.79) or abnormal (code No.93).	- Malfunction of wiring harnesses or connectors - Malfunction of side impact sensor (L.H.) - Malfunction of SRS-ECU

MUT-II Self-diag code

- Switch over the right side impact sensor (R.H.) and the side impact sensor (L.H.).
- Erase diagnosis code memory.

Are code Nos.79 and 93 erased and code Nos.89 and 96 output?

YES

Replace the side impact sensor (L.H.).

NO

Check the following connectors:
D-28, B-89

OK

Check trouble symptoms.

NG

Check the harness wire between the side impact sensor (L.H.) and SRS-ECU.

OK

Replace the SRS-ECU.

NG

Repair

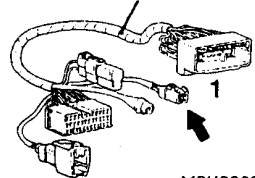
NG

Repair

Code No.81, 82, 85 or 86 Side air bag module (L.H.) (squib) system	Probable cause
These diagnosis codes are output if the resistance value between the side air bag module (L.H.) (squib) input terminals of the SRS-ECU is abnormal. The problems which cause these codes to be output are as follows.	- Malfunction of wiring harnesses or connectors - Malfunction of side air bag module (L.H.) (squib) - Malfunction of SRS-ECU

Code No.	Trouble cause
81	Short in side air bag module (L.H.) (squib) or harness short
82	- Open circuit in side air bag module (L.H.) (squib) or open harness - Malfunction of connector contact
85	Short in side air bag module (L.H.) (squib) harness leading to the power supply
86	Short in side air bag module (L.H.) (squib) harness leading to the earth

SRS check harness
(MB991613)



A19U0039

MUT-II Self-diag code

- Disconnect side air bag module (L.H.) (squib) connector D-30, and connect the harness side connector to SRS check harness connector 1.
- Erase diagnosis code memory.

Are code Nos.81, 82, 85 or 86 output?

NO

Replace the seat back assembly of the front seat (L.H.).

YES

Check the following connectors:
D-30, B-89

OK

Check trouble symptoms.

NG

Check the harness wire between the side air bag module (L.H.) (squib) and SRS-ECU.

OK

Replace the SRS-ECU.

NG

Repair

NG

Repair

Code No.83 or 84 Side air bag module (L.H.) (squib) ignition drive circuit system	Probable cause
These diagnosis codes are output if there is a short-circuit (code No.83) or an open circuit (code No.84) in the squib ignition drive circuit.	Malfunction of SRS-ECU

Replace the SRS-ECU.

Code No.89 or 96 Side impact sensor (R.H.) communication system	Probable cause
These diagnosis codes are output if communication between the side impact sensor (R.H.) and the SRS-ECU is not possible (code No.89) or abnormal (code No.96).	- Malfunction of wiring harnesses or connectors - Malfunction of side impact sensor (R.H.) - Malfunction of SRS-ECU

MUT-II Self-diag code

- Switch over the side impact sensor (R.H.) and the side impact sensor (L.H.).
- Erase diagnosis code memory.

Are code Nos.89 and 96 erased and code Nos.79 and 93 output?

YES

Replace the side impact sensor (R.H.).

NO

Check the following connectors:
D-29, B-89

OK

Check trouble symptoms.

NG

Check the harness wire between the side impact sensor (L.H.) and SRS-ECU.

OK

Replace the SRS-ECU.

NG

Repair

NG

Repair

Code No.91 Side impact sensor (L.H.) power supply circuit system	Probable cause
This diagnosis code is output if the power supply voltage of the side impact sensor (L.H.) drops below the rated value for a continuous period of 5 seconds or more. However, code No.91 will be automatically cleared and the SRS warning lamp will switch off if the condition returns to normal.	- Malfunction of wiring harnesses or connectors - Malfunction of side impact sensor (L.H.) - Malfunction of SRS-ECU

Measure at side impact sensor (L.H.) connector D-29.

- Disconnect the connector, and measure at the harness side connector.
- Voltage between terminal 1 and body earth

OK: 9 V or more

Continuity between terminal 3 and body earth

OK

Replace the side impact sensor (L.H.).

NG

Check the following connectors:
D-29, B-89

OK

Check trouble symptoms.

NG

Check the harness wire between the side impact sensor (L.H.) and SRS-ECU.

OK

Replace the SRS-ECU.

NG

Repair

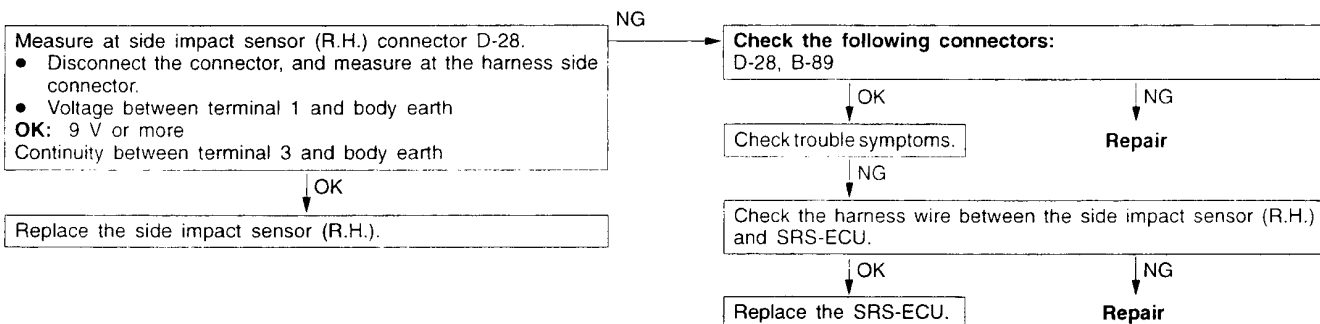
NG

Repair

Code No.92 Side impact sensor (L.H.) system	Probable cause
This diagnosis code is output if the following are detected from the analog G-sensor output. - Analog G-sensor is not operating. - Analog G-sensor characteristics are abnormal. - Analog G-sensor output is abnormal.	Malfunction of side impact sensor (L.H.)

Replace the side impact sensor (L.H.).

Code No.94 Side impact sensor (R.H.) power supply circuit system	Probable cause
This diagnosis code is output if the power supply voltage of the side impact sensor (R.H.) drops below the rated value for a continuous period of 5 seconds or more. However, code No.94 will be automatically cleared and the SRS warning lamp will switch off if the condition returns to normal.	• Malfunction of wiring harnesses or connectors • Malfunction of side impact sensor (R.H.) • Malfunction of SRS-ECU



Code No.95 Side impact sensor (R.H.) system	Probable cause
This diagnosis code is output if the following are detected from the analog G-sensor output. • Analog G-sensor is not operating. • Analog G-sensor characteristics are abnormal. • Analog G-sensor output is abnormal.	• Malfunction of side impact sensor (R.H.)

Replace the side impact sensor (R.H.).

INSPECTION CHART FOR TROUBLE SYMPTOMS

Get an understanding of the trouble symptoms and check according to the inspection procedure chart.

Trouble symptom		Inspection procedure No.	Reference page
Communication with MUT-II is not possible.	Communication with all systems is not possible.	1	52B-14
	Communication is not possible with SRS only.	2	52B-15
When the ignition key is turned to ON (engine stopped), the SRS warning lamp does not illuminate.		Refer to diagnosis code No.43.	52B-10
After the ignition switch is turned to ON, the SRS warning lamp is still on after approximately 7 seconds have passed.		Refer to diagnosis code No.43, 44.	52B-10

INSPECTION PROCEDURE FOR TROUBLE SYMPTOMS

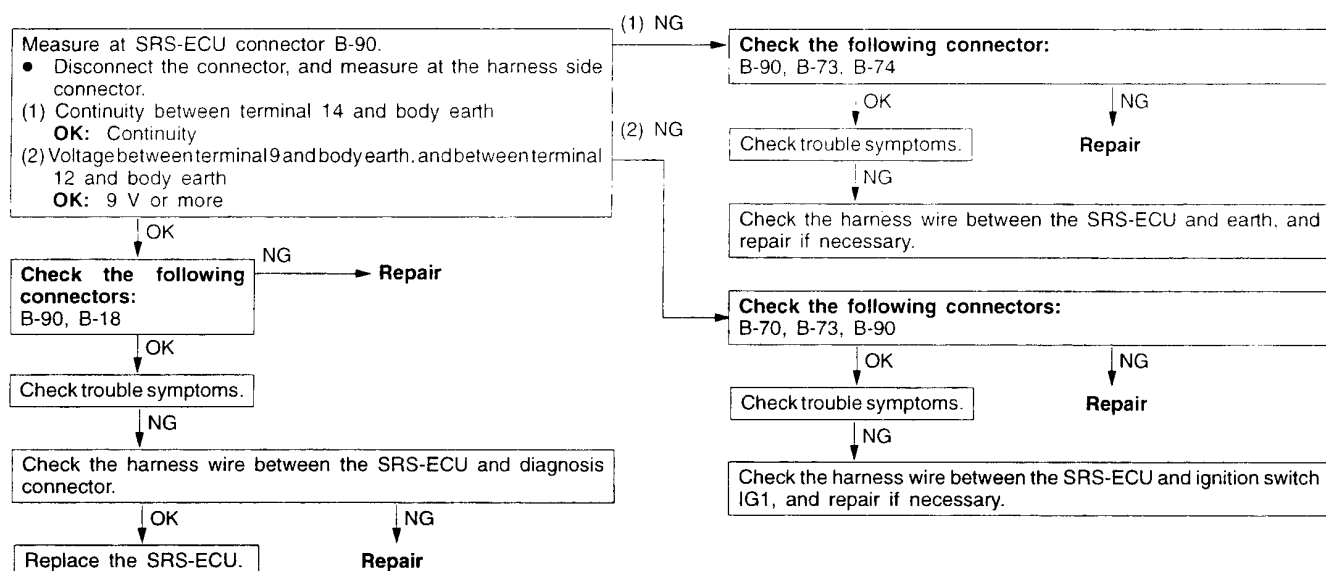
Inspection Procedure 1

Communication with MUT-II is not possible. (Communication with all systems is not possible.)	Probable cause
The cause is probably a power supply system (including earth circuit) of the diagnosis line.	• Malfunction of connectors • Malfunction of wiring harness

Refer to GROUP 13A – Troubleshooting.

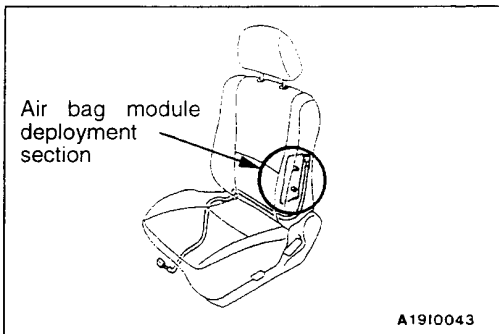
Inspection Procedure 2

Communication with MUT-II is not possible. (Communication is not possible with SRS only.)	Probable cause
If communication is not possible with the SRS only, the cause is probably an open circuit in the diagnosis output circuit of the SRS or in the power circuit (including earth circuit).	• Malfunction of wiring harnesses or connectors • Malfunction of SRS-ECU



SRS MAINTENANCE

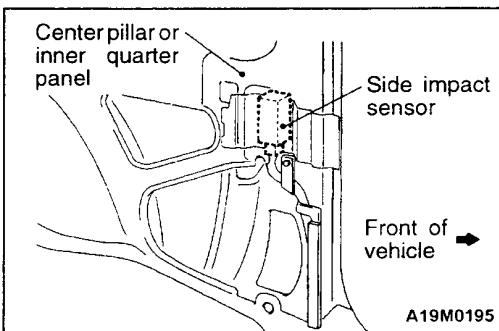
The SRS must be inspected by an authorized dealer 10 years after the date of vehicle registration.



SRS COMPONENT VISUAL CHECK

FRONT SEAT BACK ASSEMBLY (SIDE AIR BAG MODULE)

1. Check that there is no abnormality in the seat air bag module deployment section.
2. Check that there is no connector damage, bent terminals or clamping of the harness.



SIDE IMPACT SENSORS

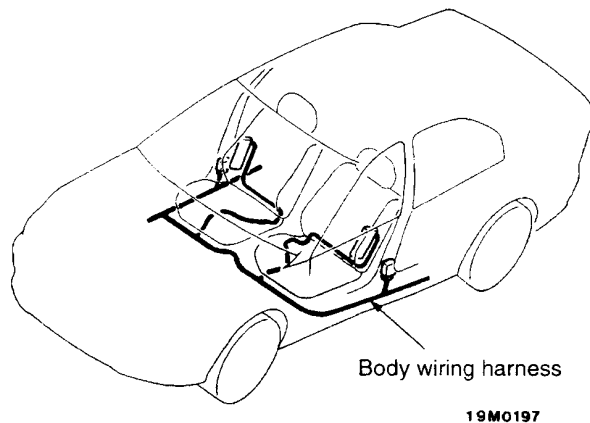
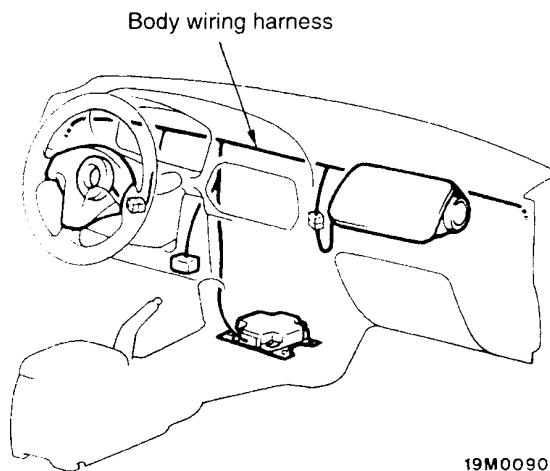
1. Check that there is no beriding or corrosion in the center pillar or inner quarter panel.
2. Check that there is no denting, breakage, bending or corrosion of the side impact sensor.
3. Check that there is no clamping of the harness, connector damage or bent terminals.

NOTE

The illustration at left shows the side impact sensor (L.H.). The position of the side impact sensor (R.H.) is symmetrical to this.

Caution

The SRS may not activate if the side impact sensors are not installed properly, which could result in serious injury or death to the vehicle's driver or front passenger.

BODY WIRING HARNESS/FLOOR WIRING HARNESS

00007769

1. Check connector for poor connection.
2. Check harnesses for binds, connectors for damage, and terminals for deformation.
REPLACE ANY CONNECTORS OR HARNESSSES THAT FAIL THE VISUAL INSPECTION. (Refer to P.52B-3.)

Caution

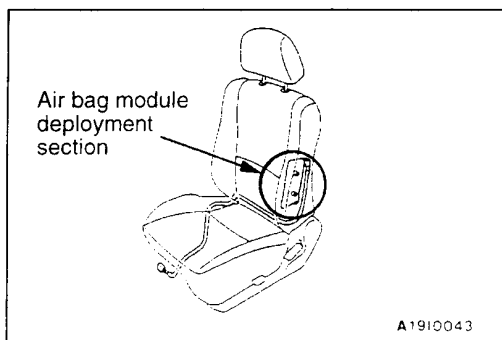
The SRS may not activate if SRS harnesses or connectors are damaged or improperly connected, which could result in serious injury or death to the vehicle's driver or front passenger.

POST-COLLISION DIAGNOSIS

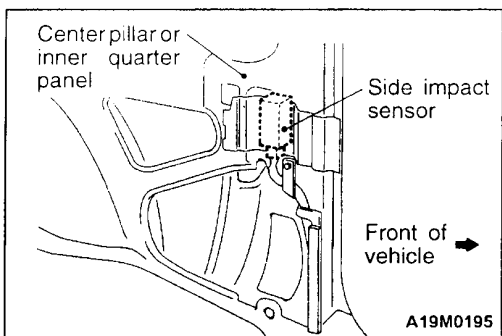
To inspect and service the SRS after a collision (whether or not the air bags have deployed), perform the following steps.

REPAIR PROCEDURE**WHEN SRS SIDE AIR BAG DEPLOYS OR SEAT BELT PRE-TENSIONER OPERATES IN A COLLISION**

1. Replace the following parts with new ones.
 - SRS-ECU (Refer to '96 COLT/LANCER Basic Manual.)
 - Side impact sensor (Refer to P.52B-20.)
 - Front seat back assembly (Refer to GROUP 52A – Seat.)
2. Check harnesses for binding, connectors for damage, poor connections, and terminals for deformation. (Refer to P.52B-3.)

**Front seat back assembly (Side air bag module)**

1. Check that there is no abnormality in the seat air bag module deployment section.
2. Check that there is no connector damage, bent terminals or clamping of the harness.

**Side impact sensor**

1. Check that there is no bending or corrosion in the center pillar or inner quarter panel.
2. Check that there is no denting, breakage or bending of the side impact sensor.
3. Check that there is no clamping of the harness, connector damage or bent terminals.

NOTE

The illustration at left shows the side impact sensor(L.H.). The position of the side impact sensor (R.H.) is symmetrical to this.

INDIVIDUAL COMPONENT SERVICE

If the SRS components are to be removed or replaced as a result of maintenance, troubleshooting, etc., follow each procedure (P.52B-18 – P.52B-21).

Caution

1. **SRS components should not be subjected to heat, so remove the SRS-ECU, front seat assemblies (side air bag module) and side impact sensors before drying or baking the vehicle after painting.**
 - SRS-ECU, side impact sensor: 93°C or more

Recheck SRS system operability after re-installing them.

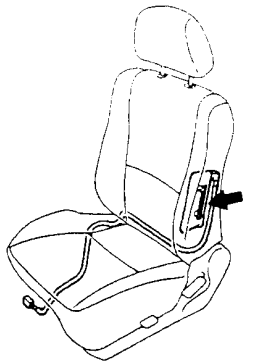
2. **If the SRS components are removed for the purpose of check, sheet metal repair, painting, etc., they should be stored in a clean, dry place until they are reinstalled.**

WARNING/CAUTION LABELS

A number of caution labels relating to the SRS are found in the vehicle, as shown in the following illustration. Follow label instructions when servicing

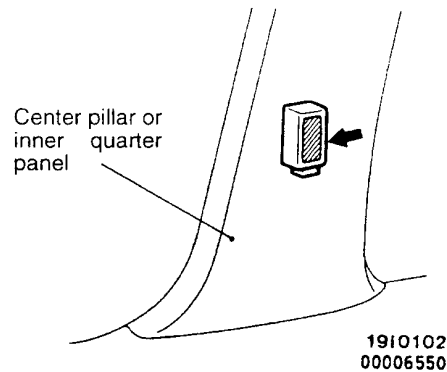
SRS. If labels are dirty or damaged, replace them with new ones.

Side air bag module
(driver's seat and front
passenger's seat)



19I0091

Side impact sensor



19I0102
00006550

AIR BAG MODULES

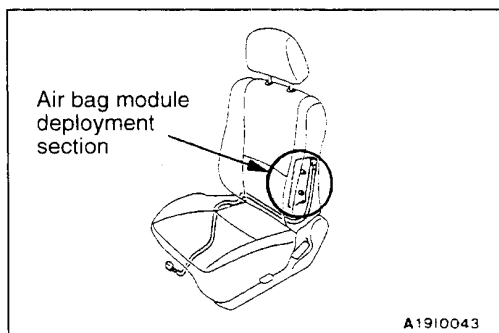
Caution

1. When a side air bag has been deployed, the front seat back assembly (driver's seat or passenger's seat) should be replaced with a new assembly.
2. An undeployed air bag module should only be disposed of in accordance with the procedures (Refer to P.52B-22.)

REMOVAL AND INSTALLATION

<Side air bag module>

For removal and installation of the front seat back assembly with side air bag module, refer to GROUP 52A – Front Seat.



A19I0043

INSPECTION

FRONT SEAT BACK ASSEMBLY WITH SIDE AIR BAG MODULE CHECK

If any improper part is found during the following inspection, replace the front seat back assembly with a new one. Dispose the old one according to the specified procedure. (Refer to P.52B-22.)

SIDE IMPACT SENSOR

Caution

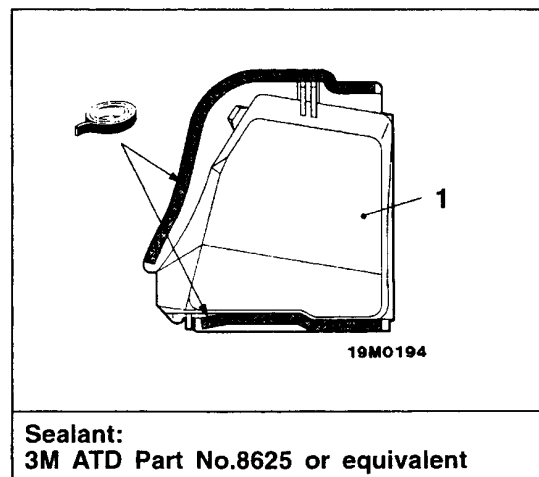
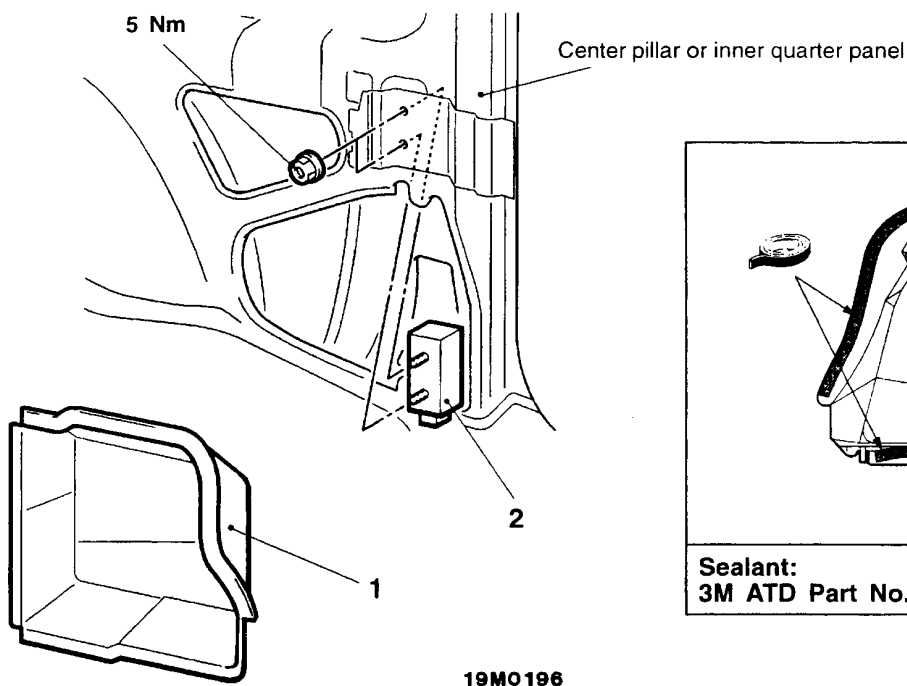
1. Disconnect the battery (–) terminal and wait for 60 seconds or more before starting work. Furthermore, the disconnected battery terminal should be covered with tape to insulate it. (Refer to P.52B-2.)
2. Never attempt to disassemble or repair the side impact sensor. If faulty, replace it.

3. Do not drop or subject the side impact sensor to impact or vibration. If denting, cracking, deformation, or rust are discovered in the side impact sensor, replace it with a new side impact sensor. Discard the old one.
4. After deployment of an air bag, replace the side impact sensor with a new one.

REMOVAL AND INSTALLATION

Pre-removal Operation

Turn the ignition key to the "LOCK" position.



00007770

Removal steps

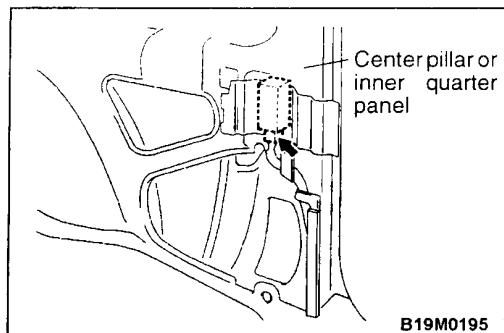
- ▶C◀ • Post-installation inspection
- Negative (–) battery cable connection
- Quarter trim <Hatchback>
- Center pillar lower trim <Sedan>
- Seat belt with pre-tensioner
- 1. Water proof cover <Sedan>
- ▶B◀ 2. Side impact sensor
- ▶A◀ • Pre-installation inspection

NOTE

The illustration above shows the side impact sensor (L.H.). The position of the side impact sensor (R.H.) is symmetrical to this.

INSTALLATION SERVICE POINTS**►A◄ PRE-INSTALLATION INSPECTION**

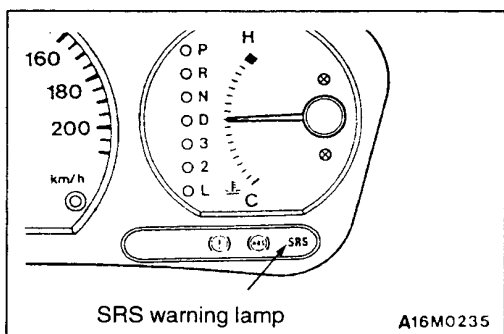
Check the side impact sensor for dents, breakage and bending and measure the resistance between the terminals, even when installing a new side impact sensor.

**►B◄ SIDE IMPACT SENSOR INSTALLATION**

Securely connect the connector.

Caution

If the side impact sensor is not installed securely and correctly, the side air bag may not operate normally.

**►C◄ POST-INSTALLATION INSPECTION**

1. Reconnect the negative battery terminal.
2. Turn the ignition key to the "ON" position.
3. Does the SRS warning lamp illuminate for about 7 seconds, and then remain extinguished for at least 5 seconds after turning the ignition key to "OFF" position?
4. If yes, SRS system is functioning properly. If no, consult page 52B-5.

INSPECTION

- Check the side impact sensor and bracket for dents, cracks or deformation.
- Check connector for damage, and terminals for deformation.

Caution

If a dent, crack, deformation or rust is discovered, replace the side impact sensor with a new one.

NOTE

For checking of the side impact sensor other than described above, refer to the section concerning troubleshooting. (Refer to P.52B-5.)

- Check that there is no bending or corrosion in the center pillar or inner quarter panel.

SIDE AIR BAG MODULE DISPOSAL PROCEDURES

Before disposing of a vehicle which is equipped with air bags or when disposing of the air bags themselves, the following procedures must be used to deploy the air bags before disposal.

UNDEPLOYED SIDE AIR BAG MODULE DISPOSAL

Caution

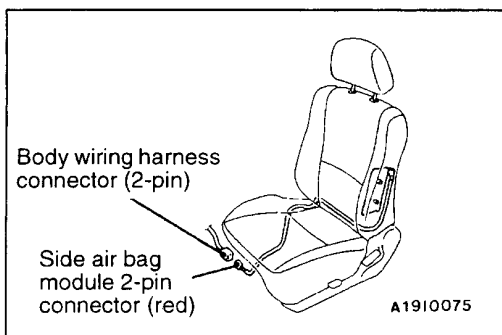
1. If the vehicle is to be scrapped or otherwise disposed of, deploy the air bags inside the vehicle.
2. If the vehicle will continue to be operated and only the front seat back assembly is to be disposed of, deploy the air bag outside the vehicle.
3. Since a large amount of smoke is produced when the air bag is deployed, avoid residential areas whenever possible.
4. Since there is a loud noise when the air bags are deployed, avoid residential areas whenever possible. If anyone is nearby, give warning of the impending noise.
5. Suitable ear protection should be worn by personnel performing these procedures or by people in the immediate area.

Deployment Inside the Vehicle

1. Move the vehicle to an isolated spot.
2. Disconnect the negative (–) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle.

Caution

Wait at least 60 seconds after disconnecting the battery cables before doing any further work.
(Refer to P.52B-2.)



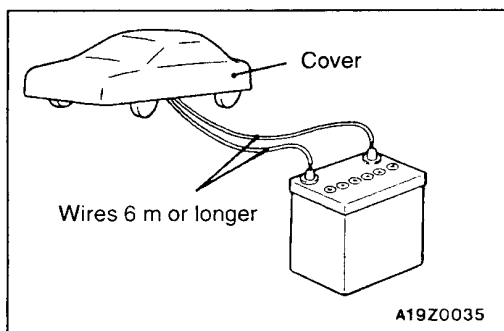
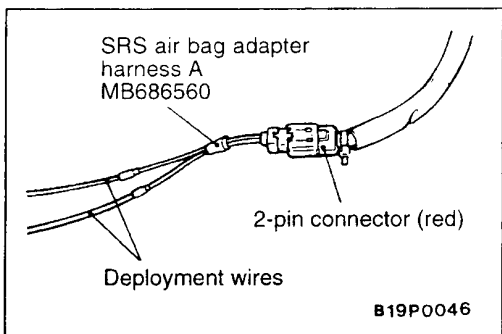
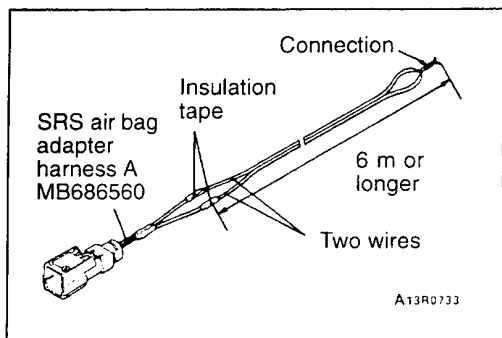
3. Remove the connection between the side air bag module connector (red 2-pin) and the body wiring harness connector.

Caution

The side air bag modules for both the driver's-side and passenger's-side should be deployed.

NOTE

If the side air bag module connector is disconnected from the dash wiring harness, both electrodes of the side air bag module connector will be automatically shorted to prevent unintended deployment of the side air bag due to static electricity, etc.



4. Connect two wires, each six meters or longer, to the two leads of SRS air bag adapter harness A and cover the connections with insulation tape. The other ends of the two wires should be connected to each other (short-circuited), to prevent sudden unexpected deployment of the air bag.

5. Connect the side air bag module 2-pin connector (red) to SRS air bag adapter harness A and pass the deployment wires out of the vehicles.

6. Fully close all door windows, close the doors and place a cover over the vehicle to minimize the amount of noise.

Caution

If the glass is damaged, it may break, so the car must be covered.

7. At a location as far away from the vehicle as possible, disconnect the two connected wires from each other, and connect them to the two terminals of the battery (which has been removed from the vehicle) to deploy the air bag.

Caution

(1) Before deploying the air bag in this manner, first check to be sure that there is no one in or near the vehicle. Wear safety glasses.

(2) The inflator will be quite hot immediately following the deployment, so wait at least 30 minutes to allow it to cool before attempting to handle it. Although not poisonous, do not inhale gas from air bag deployment.

See Deployed Side Air Bag Module Disposal Procedures (P.52B-25.) for post-deployment handling instructions.

(3) If the side air bag module fails to deploy when the procedures above are followed, do not go near the module. Contact your local distributor.

8. After deployment, dispose of side air bag module according to the Deployed Side Air Bag Module Disposal Procedures. (Refer to P.52B-25.)

Deployment Outside the Vehicle**Caution**

1. This should be carried out in a wide, flat area at least 6 m away from obstacles and other people.
2. Do not perform deployment outside, if a strong wind is blowing, and if there is even a slight breeze, the air bag module should be placed and deployed downwind from the battery.

1. Disconnect the negative (–) and positive (+) battery cables from the battery terminals, and then remove the battery from the vehicle.

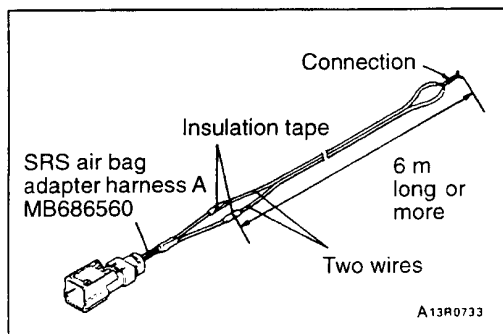
Caution

Wait at least 60 seconds after disconnecting the battery cables before doing any further work. (Refer to P.52B-2.)

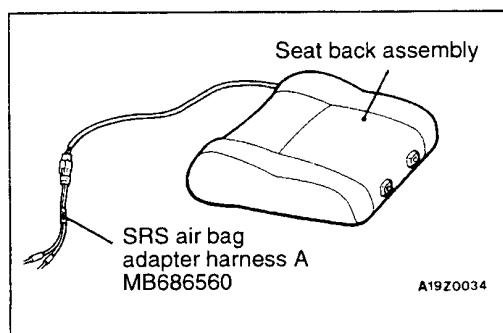
2. Remove the front seat back assemblies with built-in side air bag module from the vehicle. (Refer to GROUP 52A – Front Seat.)

Caution

The air bag modules should be stored on flat surface and placed so that the air bag deployment surfaces are facing upward. Do not place anything on top of them.



3. Connect two wires, each six meters or longer, to the two leads of SRS air bag adapter harness A, and cover the connections with insulation tape. The other ends of the two wires should be connected to each other (short-circuited), to prevent sudden unexpected deployment of the air bag module.



4. Set the air bag modules as follows:
 - (1) Place the seat back assembly so that the rear of the assembly is lying on the ground.
 - (2) Connect SRS air bag adapter harness A (which is connected to the deployment harness) to the side air bag module connector.

5. At a location as far away from the side air bag module as possible, and from a shielded position, disconnect the two connected wires from each other, and connect them to the two terminals of the battery (which has been removed from the vehicle) to deploy the air bag.

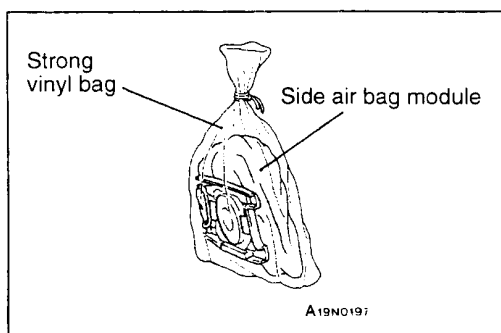
Caution

- (1) Before deployment, check carefully to be sure that no one is nearby.
 - (2) The inflator will be quite hot immediately following deployment, so wait at least 30 minutes to allow it to cool before attempting to handle it. Although the gas resulting from air bag deployment is not poisonous, it should not be inhaled. Refer to the Deployed Side Air Bag Module Disposal Procedures (P.52B-25) for post-deployment handling instructions.
 - (3) If the air bag fails to deploy when the procedures above are followed, do not go near the module. Contact your local distributor.
6. After deployment, remove the side air bag module from the seat back and dispose of side air bag module according to the Deployed Side Air Bag Module Disposal Procedures. (Refer to P.52B-25.)

DEPLOYED SIDE AIR BAG MODULE DISPOSAL PROCEDURES

After deployment or operation, the side air bag module should be disposed of in the same manner as any other scrap parts, adhering to local laws and/or legislation that may be in force except that the following points should be carefully noted during disposal.

1. The inflator will be quite hot immediately following deployment, so wait at least 30 minutes to allow it cool before attempting to handle it.
2. Do not put water or oil on the side air bag after deployment.
3. There may be, adhered to the deployed side air bag module, material that could irritate the eye and/or skin, so wear gloves and safety glasses when handling a deployed side air bag module. IF AFTER FOLLOWING THESE PRECAUTIONS, ANY MATERIAL DOES GET INTO THE EYES OR ON THE SKIN, IMMEDIATELY RINSE THE AFFECTED AREA WITH A LARGE AMOUNT OF CLEAN WATER. IF ANY IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.



4. Tightly seal the side air bag module in a strong vinyl bag for disposal.
5. Be sure to always wash your hands after completing this operation.

GROUP 54

CHASSIS ELECTRICAL

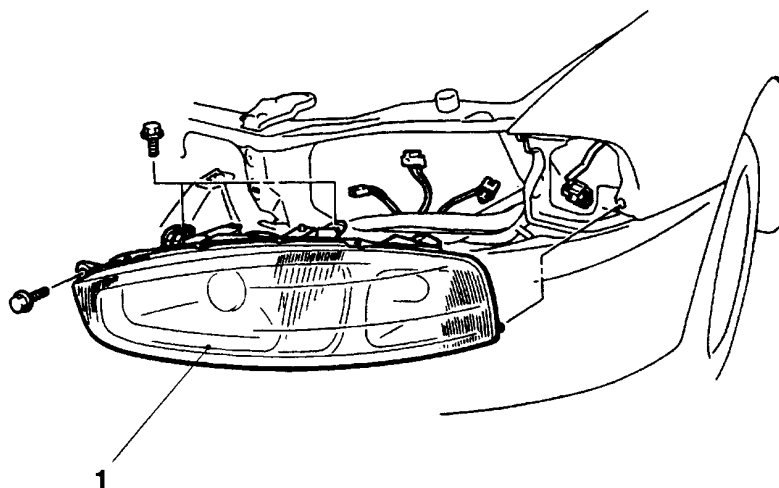
HEADLAMP AND FRONT TURN-SIGNAL LAMP <HATCHBACK>

GENERAL

OUTLINE OF CHANGE

The following maintenance service points have been established to correspond to changes in the shape of the headlamps and front turn signal lamps.

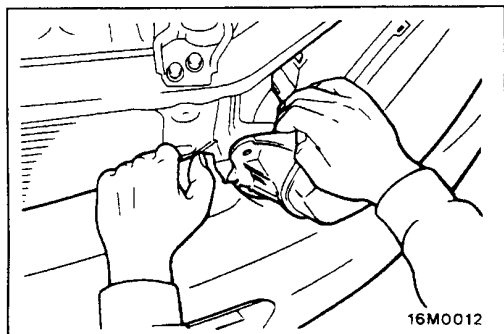
REMOVAL AND INSTALLATION



A16M0448



1. Headlamp



16M0012

REMOVAL SERVICE POINT

◀A▶ HEADLAMP REMOVAL

After removing the inside of the headlamp while pulling the bumper towards you as shown in the illustration, remove the outside, and then remove the headlamp.

FRONT FOG LAMP

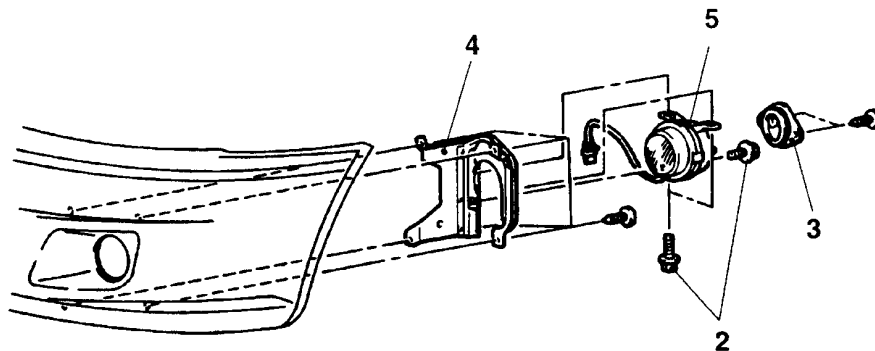
GENERAL

OUTLINE OF CHANGE

The following maintenance service points have been established to correspond to changes in the shape of the fog lamps.

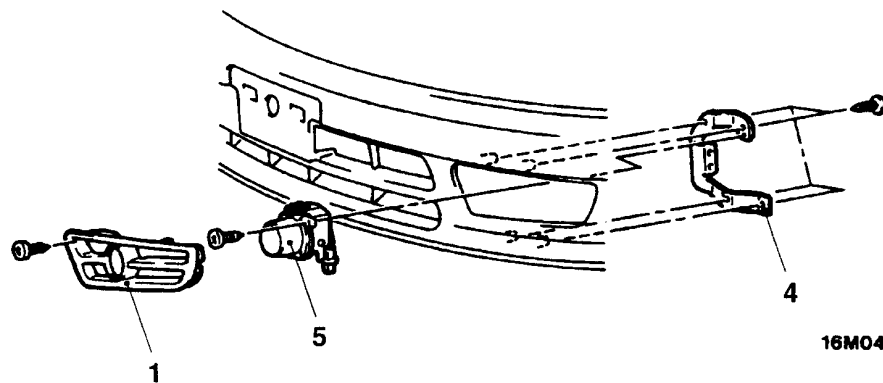
REMOVAL AND INSTALLATION

<Hatchback>



<Sedan>

16M0449



16M0450

00007771

Fog lamp unit removal steps

1. Fog lamp bezel
2. Fog lamp unit mounting bolt
<Hatchback>
3. Cap
4. Fog lamp unit



Fog lamp bracket removal steps

- Front bumper (Refer to GROUP 51.)
- 2. Fog lamp unit mounting bolt
<Hatchback>
- 4. Fog lamp bracket
- 5. Fog lamp unit

REMOVAL SERVICE POINT <HATCHBACK>**◀A▶ FOG LAMP UNIT MOUNTING BOLT/CAP/FOG
LAMP UNIT REMOVAL**

Remove the fog lamp unit mounting bolt and the fog lamp unit cap. Then pull the fog lamp unit out through the gap at the front bumper.

GROUP 55

HEATER, AIR CONDITIONER AND VENTILATION

GENERAL

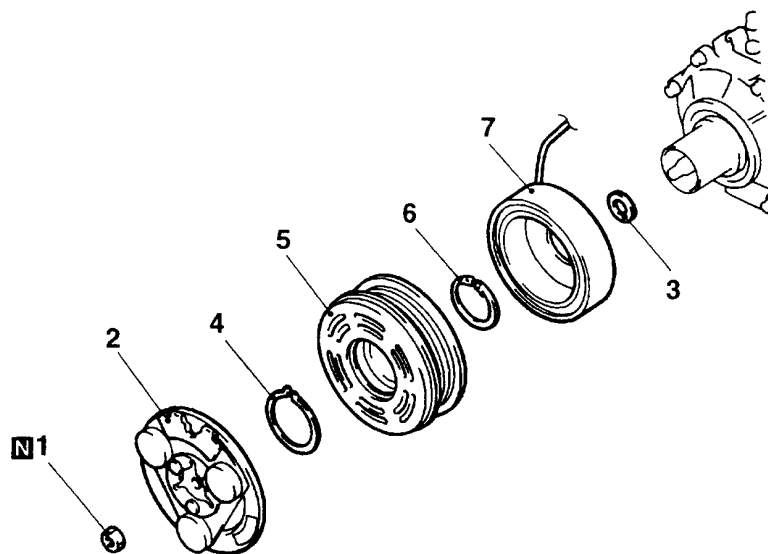
OUTLINE OF CHANGE

The following maintenance service points have been established to correspond to changes in the compressor.

COMPRESSOR AND TENSION PULLEY

MAGNETIC CLUTCH

DISASSEMBLY AND REASSEMBLY



A20M0100

Disassembly steps

- ◀A▶ ▶E▶ • Air gap adjustment
- ▶D▶ 1. Nut
- ▶C▶ 2. Armature plate
- ▶B▶ 3. Shims
- 4. Snap ring
- 5. Rotor

- ▶A▶ 6. Snap ring
- 7. Clutch coil

NOTE

For each service point, refer to Basic Manual.