

GENERAL

CONTENTS

00109000218

HOW TO USE THIS MANUAL	2	Model	14
Scope of Maintenance, Repair and Servicing		Model Code	14
Explanations	2	Chassis Number	15
Definition of Terms	2	Engine Model Number	15
Indication of Tightening Torque	2		
Model Indications	3	MAJOR SPECIFICATIONS	16
Explanation of Manual Contents	4	PRECAUTIONS BEFORE SERVICE	17
HOW TO USE		SUPPLEMENTAL RESTRAINT SYSTEM (SRS)	
TROUBLESHOOTING/INSPECTION SERVICE			21
POINTS	6	SUPPORT LOCATIONS FOR LIFTING AND	
Troubleshooting Contents	6	JACKING	24
Diagnosis Function	7	Support Positions for a Garage Jack and Axle	
How to Use the Inspection Procedures	9	Stands	24
Connector Measurement Service Points	10	Support Positions for a Single-Post Lift or	
Connector Inspection	11	Double-Post Lift	25
Inspection Service Points for a Blown Fuse ...	12	Support Positions and Support Method for an	
Points to Note for Intermittent Malfunctions ...	12	H-Bar Lift	26
VEHICLE IDENTIFICATION	13	STANDARD PARTS-TIGHTENING-TORQUE	
Vehicle Information Code Plate	13	TABLE	28

HOW TO USE THIS MANUAL

00100010159

SCOPE OF MAINTENANCE, REPAIR AND SERVICING EXPLANATIONS

This manual provides explanations, etc. concerning procedures for the inspection, maintenance, repair and servicing of the subject model. Note, however, that for engine and transmission-related component parts, this manual covers only on-vehicle inspections, adjustments, and the removal and installation procedures for major components.

For detailed information concerning the inspection, checking, adjustment, disassembly and reassembly of the engine, transmission and major components after they have been removed from the vehicle, please refer to separate manuals covering the engine and the transmission.

ON-VEHICLE SERVICE

“On-vehicle Service” is procedures for performing inspections and adjustments of particularly important locations with regard to the construction and for maintenance and servicing, but other inspection (for looseness, play, cracking, damage, etc.) must also be performed.

INSPECTION

Under this title are presented inspection and checking procedures to be performed by using special tools and measuring instruments and by feeling, but, for actual maintenance and servicing procedures, visual inspections should always be performed as well.

DEFINITION OF TERMS

STANDARD VALUE

Indicates the value used as the standard for judging the quality of a part or assembly on inspection or the value to which the part or assembly is corrected and adjusted. It is given by tolerance.

LIMIT

Shows the standard for judging the quality of a part or assembly on inspection and means the maximum or minimum value within which the part or assembly must be kept functionally or in strength. It is a value established outside the range of standard value.

REFERENCE VALUE

Indicates the adjustment value prior to starting the work (presented in order to facilitate assembly and adjustment procedures, and so they can be completed in a shorter time).

CAUTION

Indicates the presentation of information particularly vital to the worker during the performance of maintenance and servicing procedures in order to avoid the possibility of injury to the worker, or damage to component parts, or a reduction of component or vehicle function or performance, etc.

INDICATION OF TIGHTENING TORQUE

The tightening torque shown in this manual is a basic value with a tolerance of +10% except the following cases when the upper and lower limits of tightening torque are given.

- (1) The tolerance of the basic value is within +10%.
- (2) Special bolts or the like are in use.
- (3) Special tightening methods are used.

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.
DOHC:	Indicates an engine with the double overhead camshaft, or a model equipped with such an engine.
MPI:	Indicates the multi-point injection, or engines equipped with the multi-point injection.
2WD:	Indicates the front wheel-drive vehicles.

EXPLANATION OF MANUAL CONTENTS

Indicates procedures to be performed before the work in that section is started, and procedures to be performed after the work in that section is finished.

Component Diagram

A diagram of the component parts is provided near the front of each section in order to give a reader a better understanding of the installed condition of component parts.

Indicates (by symbols) where lubrication is necessary.

Maintenance and Servicing Procedures

The numbers provided within the diagram indicate the sequence for maintenance and servicing procedures.

- Removal steps:
The part designation number corresponds to the number in the illustration to indicate removal steps.
- Disassembly steps:
The part designation number corresponds to the number in the illustration to indicate disassembly steps.
- Installation steps:
Specified in case installation is impossible in reverse order of removal steps. Omitted if installation is possible in reverse order of removal steps.
- Reassembly steps:
Specified in case reassembly is impossible in reverse order of disassembly steps. Omitted if reassembly is possible in reverse order of disassembly steps.

Classifications of Major Maintenance/Service Points

When there are major points relative to maintenance and servicing procedures (such as essential maintenance and service points, maintenance and service standard values, information regarding the use of special tools, etc.), these are arranged together as major maintenance and service points and explained in detail.

- ◀A▶ : Indicates that there are essential points for removal or disassembly.
▶A : Indicates that there are essential points for installation or reassembly.

Symbols for Lubrication, Sealants and Adhesives

Information concerning the locations for lubrication and for application of sealants and adhesives is provided, by using symbols, in the diagram of component parts or on the page following the component parts page, and explained.

-  : Grease
(multipurpose grease unless there is a brand or type specified)
-  : Sealant or adhesive
-  : Brake fluid or automatic transmission fluid
-  : Engine oil, gear oil or air conditioner compressor oil
-  : Adhesive tape or butyl rubber tape

Indicates the group title.

Indicates the section title.

Indicates the group number.

Indicates the page number.

STEERING – Power Steering Oil Pump

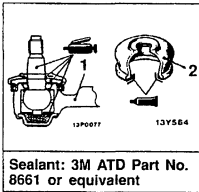
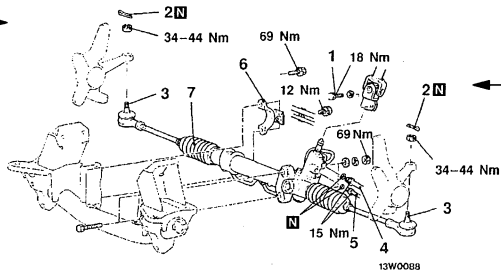
37A-29

POWER STEERING GEAR BOX
REMOVAL AND INSTALLATION

120000039

Pre-removal Operation
(1) Power Steering Fluid Draining (Refer to P. 37A-10.)
(2) Air Cleaner Assembly Removal
(3) Under Cover Removal (Refer to GROUP 42 – Under Cover.)

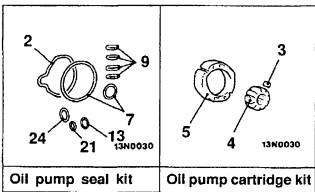
<2WD>



Sealant: 3M ATD Part No. 8661 or equivalent

Removal steps

1. Lower shaft assembly and gear box connecting bolt
2. Split pin
3. Connection for tie-rod end and knuckle
4. Connection for return tube



Oil pump seal kit

Oil pump cartridge kit

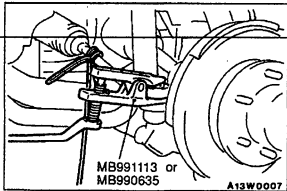
5. Connection for pressure tube
6. Clamp
7. Gear box assembly

REMOVAL SERVICE POINTS

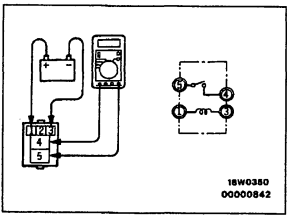
◀▶ TIE-ROD END DISCONNECTION

Caution

1. Using the special tool, loosen the tie rod end mounting nut. Only loosen the nut; do not remove it from the ball joint.
2. Support the special tool with a cord, etc. to prevent it from coming off.



HEADLAMP RELAY CONTINUITY INSPECTION

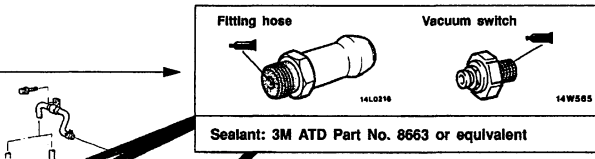


Battery voltage	Terminal No.			
	1	3	4	5
Power is not supplied	○	○	○	○
Power is supplied	⊕	⊖	○	○

○—○ indicates that there is a continuity between the terminals.
⊕—⊖ indicates terminals to which battery voltage is applied.

35A-26 BASIC BRAKE SYSTEM – Master Cylinder and Brake Booster

Lubrication and sealing points



Sealant: 3M ATD Part No. 8663 or equivalent

The title of the page (following the page on which the diagram of component parts is presented) indicating the locations of lubrication and sealing procedures.

00002471

HOW TO USE TROUBLESHOOTING/INSPECTION SERVICE POINTS

00100020077

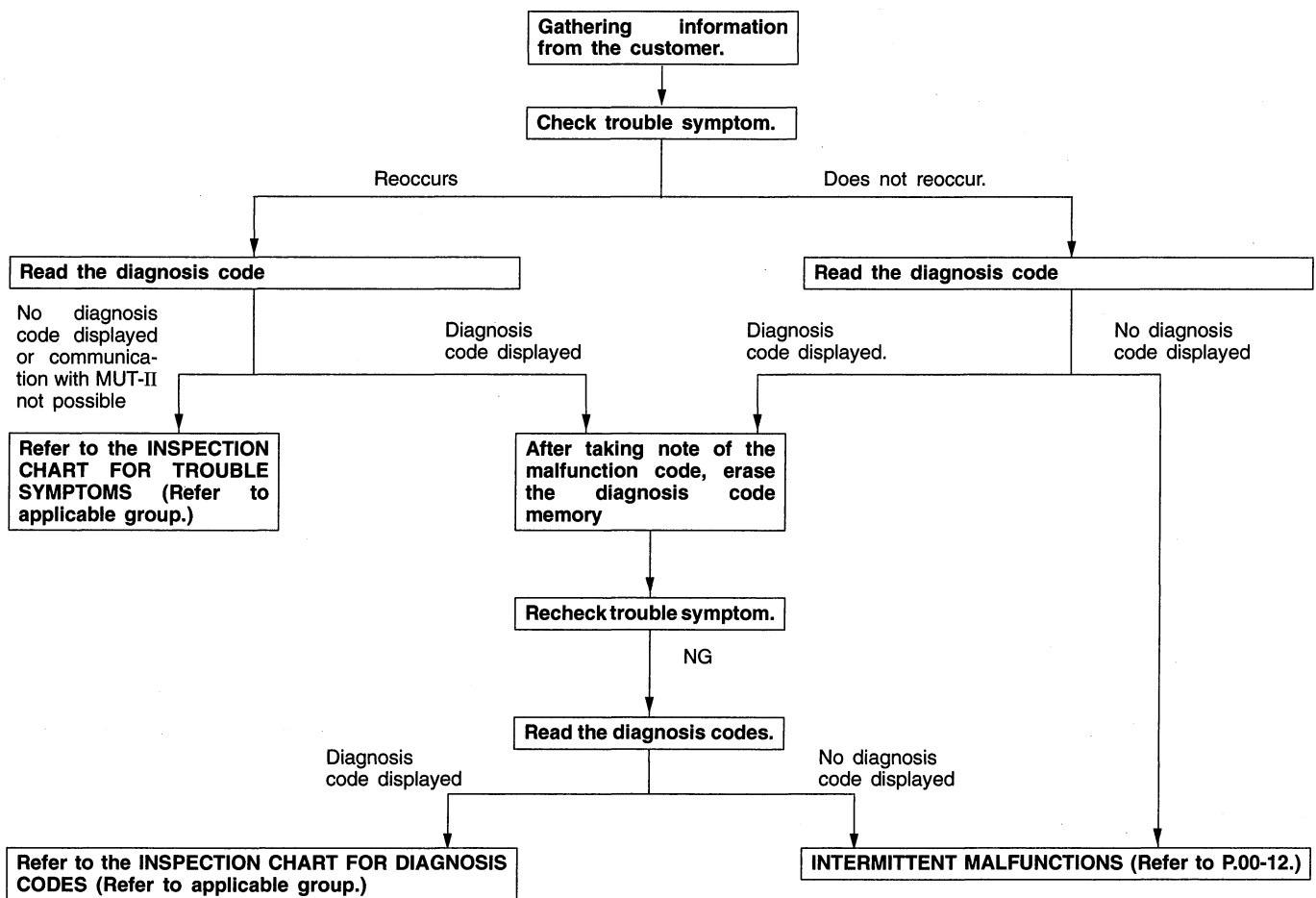
Troubleshooting of electronic control systems for which the MUT-II can be used follows the basic outline described below. Furthermore, even in systems for which the MUT-II cannot be used, part of these systems still follow this outline.

TROUBLESHOOTING CONTENTS

1. STANDARD FLOW OF DIAGNOSIS TROUBLESHOOTING

The troubleshooting sections follow the basic diagnosis flow which is given below. If the diagnosis flow is different from that given below, or if additional explanation is required, the details of such differences or additions will also be listed.

Diagnosis method



2. SYSTEM OPERATION AND SYMPTOM VERIFICATION TESTS

If verification of the trouble symptoms is difficult, procedures for checking operation and verifying trouble symptoms are shown.

3. DIAGNOSIS FUNCTION

Details which are different from those in the "Diagnosis Function" section on the next page are listed.

4. INSPECTION CHART FOR DIAGNOSIS CODES**5. INSPECTION PROCEDURE FOR DIAGNOSIS CODES**

Indicates the inspection procedures corresponding to each diagnosis code. (Refer to the next page for how to read the inspection procedures.)

6. INSPECTION CHART FOR TROUBLE SYMPTOMS

If there are trouble symptoms even though the results of inspection using the MUT-II show that all diagnosis codes are normal, inspection procedures for each trouble symptom will be found by means of this chart.

7. INSPECTION PROCEDURE FOR DIAGNOSIS SYMPTOM

Indicates the inspection procedures corresponding to each trouble symptoms classified in the Inspection Chart for Trouble Symptoms. (Refer to the next page for how to read the inspection procedures.)

8. SERVICE DATA REFERENCE TABLE

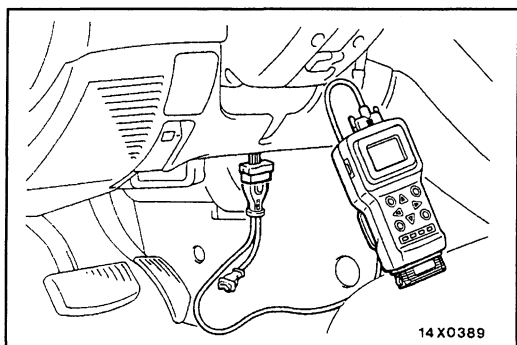
Inspection items and normal judgement values have been provided in this chart as reference information.

9. CHECK AT ECU TERMINALS

Terminal numbers for the ECU connectors, inspection items and standard values have been provided in this chart as reference information.

10. INSPECTION PROCEDURES USING AN OSCILLOSCOPE

When there are inspection procedures using an oscilloscope, these are listed here.

**DIAGNOSIS FUNCTION****1. HOW TO READ DIAGNOSIS CODES****When using the MUT-II**

Connect the MUT-II to the diagnosis connector and take a reading of the diagnosis codes.

Caution

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

NOTE

Some warning lamps may illuminate when the ignition switch is turned on with the MUT-II connected. However, this is not abnormal, because earthing the diagnosis connector No.1 makes the warning lamps check the display function.

2. HOW TO ERASE DIAGNOSIS CODES

When using the MUT-II

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

Caution

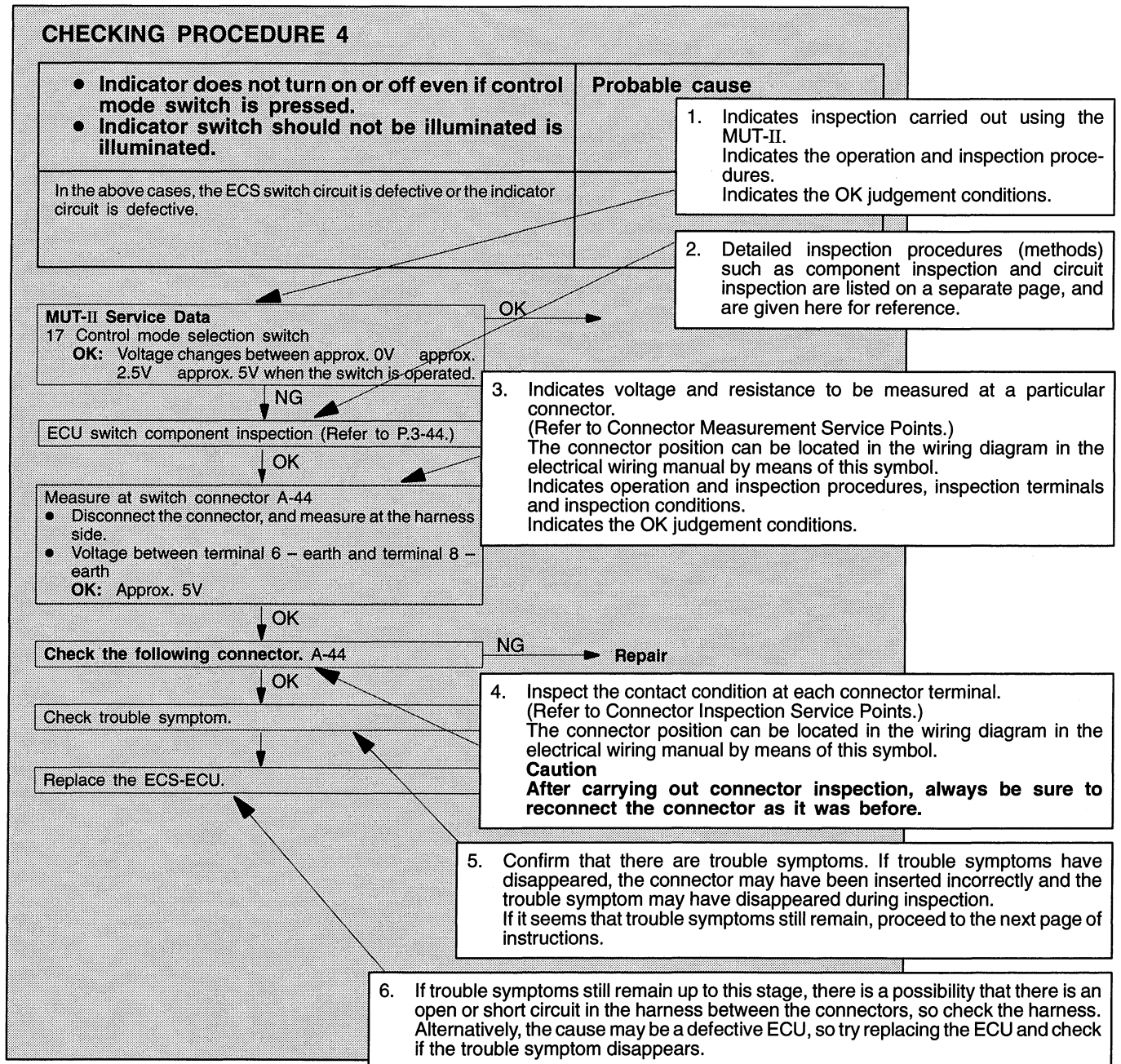
- Turn the ignition switch off before connecting or disconnecting the MUT-II.

When not using the MUT-II

- (1) Turn the ignition switch to OFF.
- (2) After disconnecting the battery cable from the battery (–) terminal for 10 seconds or more, reconnect the cable.
- (3) After the engine has warmed up, run it at idle for about 15 minutes.

HOW TO USE THE INSPECTION PROCEDURES

The causes of a high frequency of problems occurring in electronic circuitry are generally the connectors, components, the ECU and the harnesses between connectors, in that order. These inspection procedures follow this order, and they first try to discover a problem with a connector or a defective component.



HARNESS INSPECTION

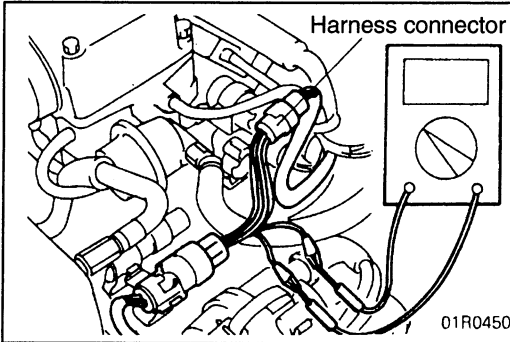
Check for an open or short circuit in the harness between the terminals which were defective according to the connector measurements. Carry out this inspection while referring to the electrical wiring manual. Here, "Check harness between power supply and terminal xx" also includes checking for blown fuses. For inspection service points when there is a blown fuse, refer to "Inspection Service Points for a Blown Fuse."

MEASURES TO TAKE AFTER REPLACING THE ECU

If the trouble symptoms have not disappeared even after replacing the ECU, repeat the inspection procedure from the beginning.

CONNECTOR MEASUREMENT SERVICE POINTS

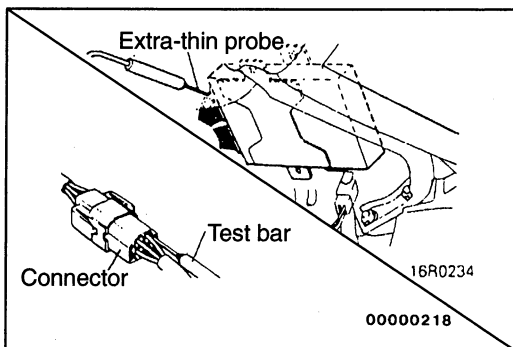
Turn the ignition switch to OFF when connecting/disconnecting the connectors, and turn the ignition switch to ON when measuring if there are no instructions to be contrary.



IF INSPECTING WITH THE CONNECTOR CONNECTED (WITH CIRCUIT IN A CONDITION OF CONTINUITY)

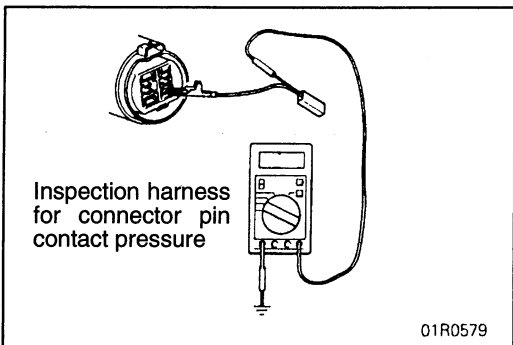
Waterproof Connectors

Be sure to use the special tool (harness connector). Never insert a test bar from the harness side, because to do so will reduce the waterproof performance and result in corrosion.



Ordinary (non-waterproof) Connectors

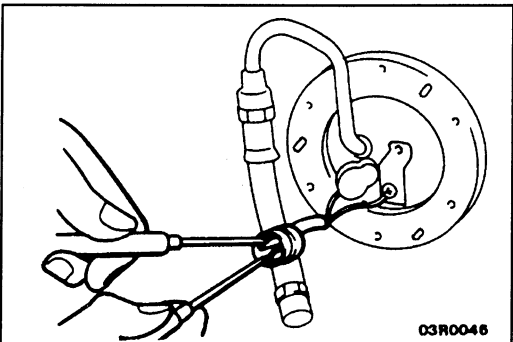
Check by inserting the test bar from the harness side. Note that if the connector (control unit, etc.) is too small to permit insertion of the test bar, it should not be forced; use a special tool (the extra-thin probe in the harness set for checking for this purpose).



IF INSPECTING WITH THE CONNECTOR DISCONNECTED <When Inspecting a Female Pin>

Use the special tool (inspection harness for connector pin contact pressure in the harness set for inspection).

The inspection harness for connector pin contact pressure should be used. The test bar should never be forcibly inserted, as it may cause a defective contact.



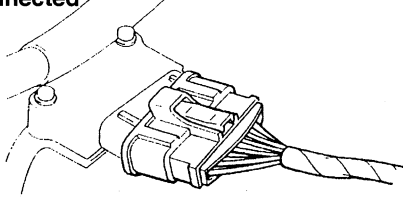
<When Inspecting a Male Pin>

Touch the pin directly with the test bar.

Caution

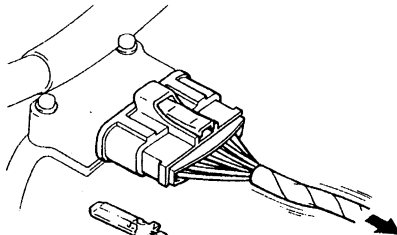
At this time, be careful not to short the connector pins with the test bars. To do so may damage the circuits inside the ECU.

Connector disconnected or improperly connected



Defective connector contact

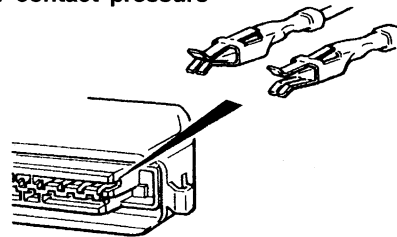
16S0256



Harness wire breakage at terminal section

16X0369

Low contact pressure



16S0254
00000219

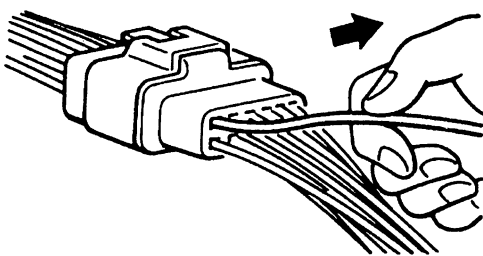
CONNECTOR INSPECTION

VISUAL INSPECTION

- Connector is disconnected or improperly connected
- Connector pins are pulled out
- Due to harness tension at terminal section
- Low contact pressure between male and female terminals
- Low connection pressure due to rusted terminals or foreign matter lodged in terminals

CONNECTOR PIN INSPECTION

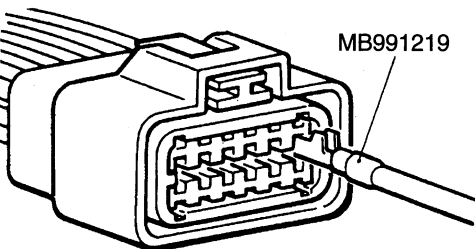
If the connector pin stopper is damaged, the terminal connections (male and female pins) will not be perfect even if the connector body is connected, and the pins may pull out of the reverse side of the connector. Therefore, gently pull the harnesses one by one to make sure that no pins pull out of the connector.



16R1317

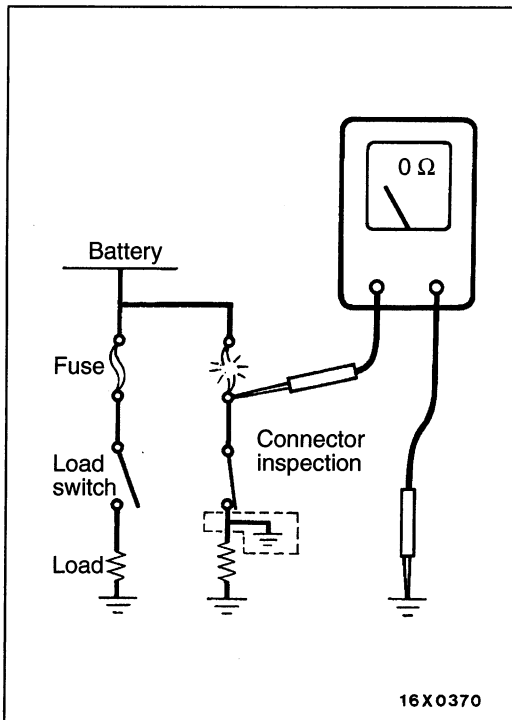
CONNECTOR ENGAGEMENT INSPECTION

Use the special tool (connector pin connection pressure inspection harness of the inspection harness set) to inspect the engagement of the male pins and females pins. (Pin drawing force : 1 N or more)



MB991219

16R1318

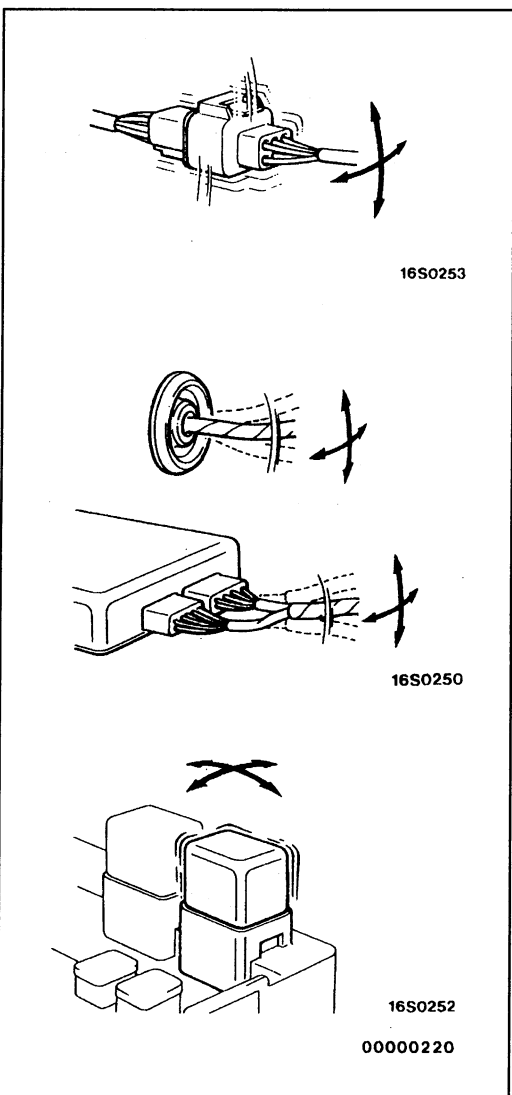


INSPECTION SERVICE POINTS FOR A BLOWN FUSE

Remove the fuse and measure the resistance between the load side of the fuse and the earth. Set the switches of all circuits which are connected to this fuse to a condition of continuity. If the resistance is almost $0\ \Omega$ at this time, there is a short somewhere between these switches and the load. If the resistance is not $0\ \Omega$, there is no short at the present time, but a momentary short has probably caused the fuse to blow.

The main causes of a short circuit are the following.

- Harness being clamped by the vehicle body
- Damage to the outer casing of the harness due to wear or heat
- Water getting into the connector or circuitry
- Human error (mistakenly shorting a circuit, etc.)



POINTS TO NOTE FOR INTERMITTENT MALFUNCTIONS

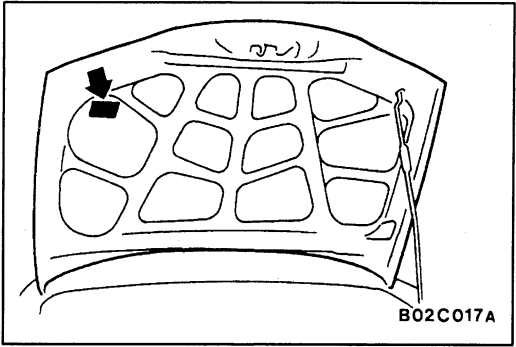
Intermittent malfunctions often occur under certain conditions, and if these conditions can be ascertained, determining the cause becomes simple. In order to ascertain the conditions under which an intermittent malfunction occurs, first ask the customer for details about the driving conditions, weather conditions, frequency of occurrence and trouble symptoms, and then try to recreate the trouble symptoms. Next, ascertain whether the reason why the trouble symptom occurred under these conditions is due to vibration, temperature or some other factor. If vibration is thought to be the cause, carry out the following checks with the connectors and components to confirm whether the trouble symptom occurs.

The objects to be checked are connectors and components which are indicated by inspection procedures or given as probable causes (which generates diagnosis codes or trouble symptoms.)

- Gently shake the connector up, down and to the left and right.
- Gently shake the wiring harness up, down and to the left and right.
- Gently rock each sensor and relay, etc. by hand.
- Gently shake the wiring harness at suspensions and other moving parts.

NOTE

If determining the cause is difficult, the flight recorder function of the MUT-II can also be used.



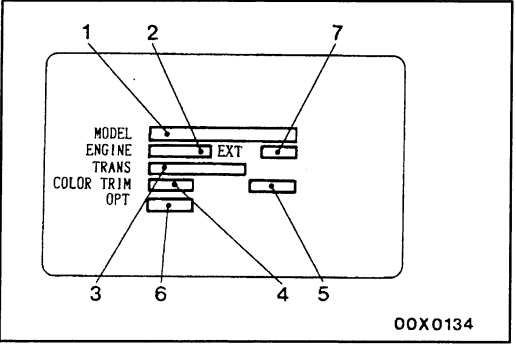
VEHICLE IDENTIFICATION

00100540030

VEHICLE INFORMATION CODE PLATE

LOCATION

Vehicle information code plate is riveted on the hood panel.



CODE PLATE DESCRIPTION

The plate shows model code, engine model, transmission model, and body colour code.

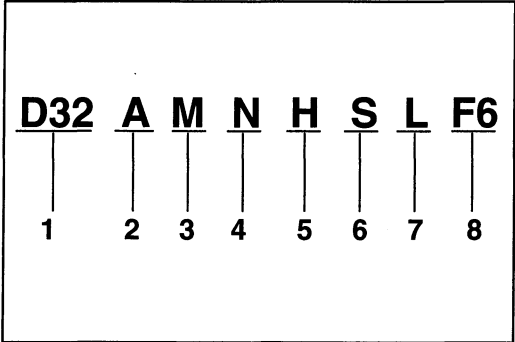
No.	Contents
1	Model code
2	Engine model code
3	Transmission model code
4	Body colour code
5	Interior code
6	Equipment code
7	Exterior code

For monotone colour vehicles, the body colour code shall be indicated.

MODEL

00100030117

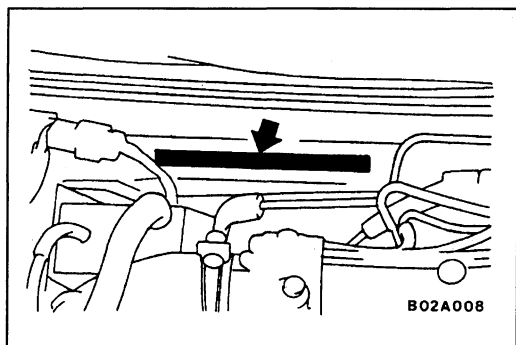
Model code	Engine model	Transmission model	Fuel supply system
D32AMNHSLF6	4G63 (1,997 ml)	F5M31 (2WD-5M/T)	MPI



MODEL CODE

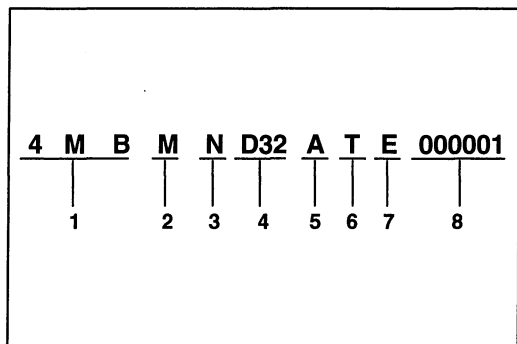
00100040103

No.	Items		Details
1	Development order	D32	1,997 ml petrol (DOHC) 4G63
2	Sort	A	Passenger car
3	Body style	M	2-door hatchback
4	Transmission	N	5-speed manual
5	Trim code	H	GS
6	Specific engine feature	S	MPI-DOHC
7	Steering wheel location	L	Left hand
8	Destination	F6	Mitsubishi Motor Manufacturing of America, Inc. production vehicle for Europe

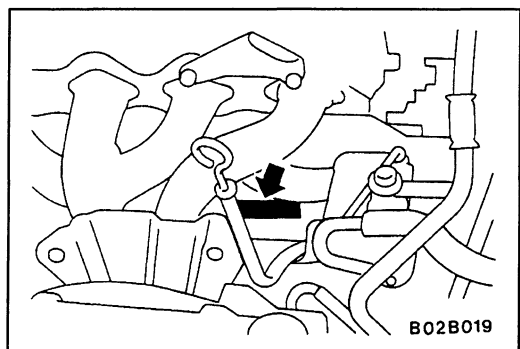
**CHASSIS NUMBER**

00100560036

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



No.	Items		Contents
1	Mitsubishi Motor Manufacturing of America, Inc.	–	–
2	Body style	M	2-door hatchback
3	Transmission type	N	5-speed manual
4	Development order	D32	1,997 ml petrol (DOHC, 2WD)
5	Sort	A	Passenger car
6	Model year	T	1996
7	Plant	E	Mitsubishi Motor Manufacturing of America, Inc.
8	Serial number	–	–

**ENGINE MODEL NUMBER**

00100570039

- The engine model number is stamped at the cylinder block as shown in the following.

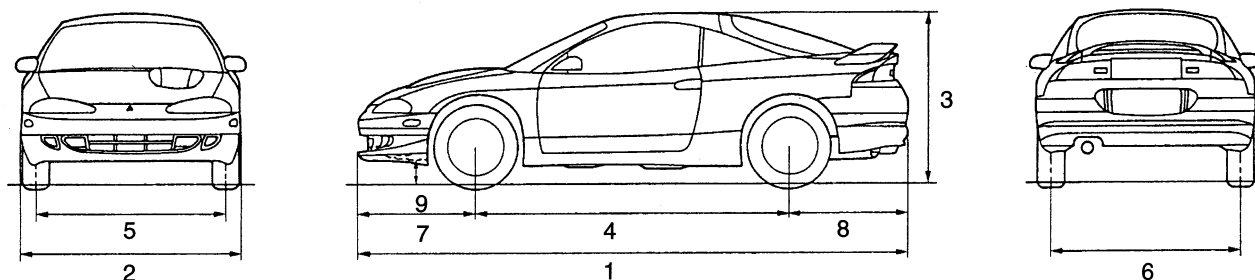
Engine model	Engine displacement
4G63	1,997

- The engine serial number is stamped near the engine model number.

Engine serial number	AA0201 to YY9999
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MAJOR SPECIFICATIONS

00100080075



00X0135

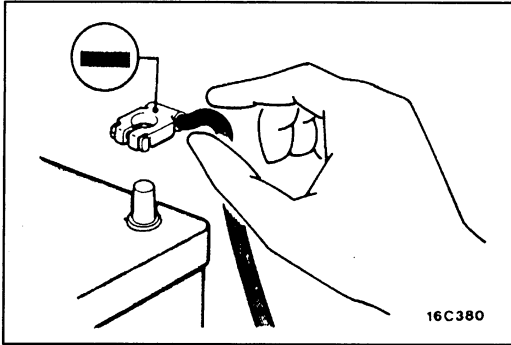
Items			D31A MNHMLF6
Vehicle dimensions mm	Overall length	1	4,385
	Overall width	2	1,745
	Overall height (unladen)	3	1,295
	Wheelbase	4	2,510
	Tread – front	5	1,515
	Tread – rear	6	1,505
	Overhang – front	7	940
	Overhang – rear	8	935
	Ground clearance (unladen)	9	145
Vehicle weight kg	Kerb weight	without optional parts	1,320
		with full optional parts	1,395
	Maximum vehicle weight		1,750
Seating capacity			4
Engine	Model		4G63
	Total displacement ml		1,997
Transmission	Model		F5M31
	Type		5-speed manual
Fuel system	Fuel supply system		Electronic-controlled multipoint fuel injection

PRECAUTIONS BEFORE SERVICE

00100050113

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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) Always use the designated special tools and test equipment.
 - (3) 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.
 - (4) Never attempt to disassemble or repair the SRS components, (SRS air bag control unit, air bag module and clock spring). If faulty, replace it.
 - (5) Warning labels must be heeded when servicing or handling SRS components. 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
 - Clock spring
 - (6) Store components removed from the SRS in a clean and dry place.
The air bag module 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.
 - (7) Be sure to deploy the air bag before disposing of the air bag module or disposing of a vehicle equipped with an air bag. (Refer to GROUP 52B – Air Bag Module Disposal Procedures.)
 - (8) Whenever you finish servicing the SRS check the SRS warning lamp operation to make sure that the system functions properly.
2. Observe the following when doing service work on places where SRS components are installed, including service works not directly related to the SRS air bag.
 - (1) When removing or installing parts do not allow any impact or shock to the SRS components.
 - (2) SRS components should not be subjected to heat, so remove the SRS components before drying or baking the vehicle after painting.
 - SRS air bag control unit, air bag module, clock spring: 93°C or moreAfter re-installing them, check the SRS warning lamp operation to make sure that the system functions properly.



SERVICING THE ELECTRICAL SYSTEM

Before replacing a component related to the electrical system and before undertaking any repair procedures involving the electrical system, be sure to first disconnect the negative (-) cable from the battery in order to avoid damage caused by short-circuiting.

Caution

Before connecting or disconnecting the negative (-) cable, be sure to turn off the ignition switch and the lighting switch.

(If this is not done, there is the possibility of semiconductor parts being damaged.)

APPLICATION OF ANTI-CORROSION AGENTS AND UNDERCOATS

If oil or grease gets onto the oxygen sensor, it will cause a drop in the performance of the sensor.

Cover the oxygen sensor with a protective cover when applying anti-corrosion agents and undercoats.

PRE-INSPECTION CONDITION

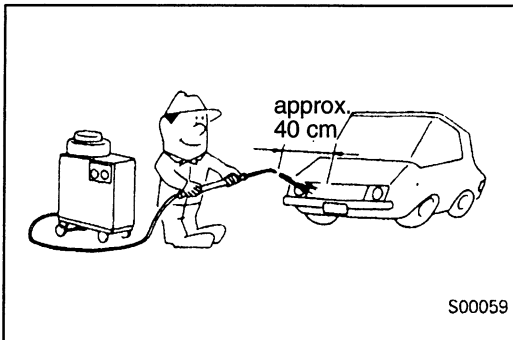
“Pre-inspection condition” refers to the condition that the vehicle must be in before proper engine inspection can be carried out. If you see the words “Set the vehicle to the pre-inspection condition.” in this manual, it means to set the vehicle to the following condition.

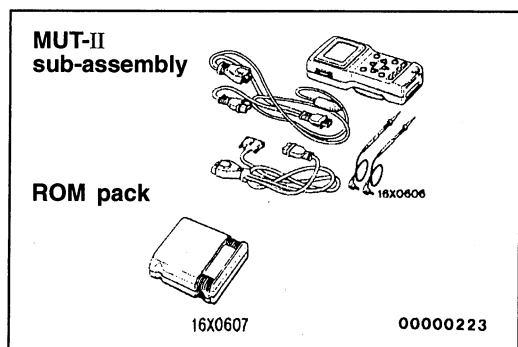
- Engine coolant temperature: 80–90°C
- Lamps, electric cooling fan and all accessories: OFF
- M/T: Neutral

VEHICLE WASHING

If high-pressure car-washing equipment or steam car-washing equipment is used to wash the vehicle, be sure to note the following information in order to avoid damage to plastic components, etc.

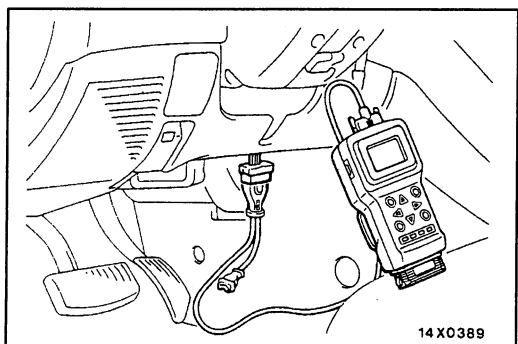
- Spray nozzle distance: 40 cm or more
- Spray pressure: 3,900 kpa or less
- Spray temperature: 82°C or less
- Time of concentrated spray to one point: within 30 sec.





MUT-II

Refer to the MUT-II INSTRUCTION MANUAL for instructions on handling the MUT-II.



Connect the MUT-II to the diagnosis connector as shown in the illustration.

Caution

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

IN ORDER TO PREVENT VEHICLES FROM FIRE

"Improper installation of electrical or fuel related parts could cause a fire. In order to retain the high quality and safety of the vehicle, it is important that any accessories that may be fitted or modifications/repairs that may be carried out which involve the electrical or fuel systems, MUST be carried out in accordance with MMC's information/Instructions".

ENGINE OILS

Health Warning

Prolonged and repeated contact with mineral oil will result in the removal of natural fats from the skin, leading to dryness, irritation and dermatitis. In addition, used engine oil contains potentially harmful contaminants which may cause skin cancer. Adequate means of skin protection and washing facilities must be provided.

Recommended Precautions

The most effective precaution is to adapt working practices which prevent, as far as practicable, the risk of skin contact with mineral oils, for example by using enclosed systems for handling used engine oil and by degreasing components, where practicable, before handling them.

Other precautions:

- Avoid prolonged and repeated contact with oils, particularly used engine oils.
- Wear protective clothing, including impervious gloves where practicable.
- Avoid contaminating clothes, particularly underpants, with oil.
- Do not put oily rags in pockets, the use of overalls without pockets will avoid this.
- Do not wear heavily soiled clothing and oil-impregnated foot-wear. Overalls must be cleaned regularly and kept separately from personal clothing.
- Where there is a risk of eye contact, eye protection should be worn, for example, chemical goggles or face shields; in addition an eye wash facility should be provided.
- Obtain First Aid treatment immediately for open cuts and wounds.
- Wash regularly with soap and water to ensure all oil is removed, especially before meals (skin cleansers and nail brushes will help). After cleaning, the application of preparations containing lanolin to replace the natural skin oils is advised.
- Do not use petrol, kerosine, diesel fuel, gas oil, thinners or solvents for cleaning skin.
- Use barrier creams, applying them before each work period, to help the removal of oil from the skin after work.
- If skin disorders develop, obtain medical advice without delay.

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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The Supplemental Restraint System (SRS) is designed to supplement the driver's and front passenger's seat belts to help reduce the risk or severity of injury to the driver and front passenger by activating and deploying both air bags in certain frontal collisions.

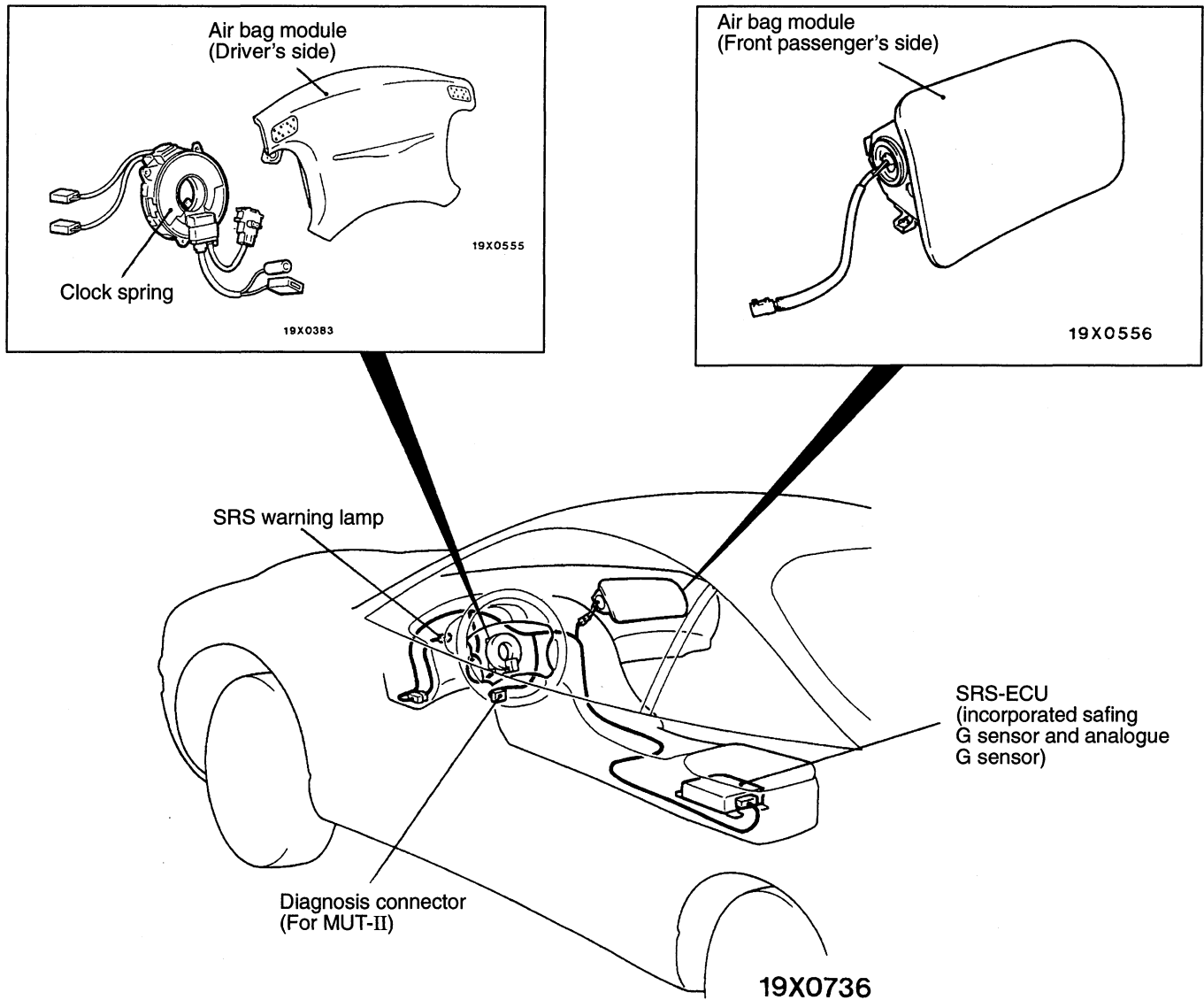
The SRS consists of: two air bag modules; one located in the centre of the steering wheel and another one located above the glove box, which contains the folded air bag and an inflator unit; the SRS air bag control unit (SRS-ECU) located under the floor console assembly, which monitors the system, and which contains a safing G sensor and analog G sensor; an SRS warning lamp located on the instrument panel, which indicates the opera-

tional status of the SRS; a clock spring interconnection located within the the steering column.

It is not until the SRS-ECU in response to the output signal from the analogue G sensor, finds it necessary to ignite the air bag, and the safing G sensor is caused to be ON that the SRS deploys the air bag.

Only authorized service personnel should do work on or around SRS components. Those service personnel should read this manual carefully before starting any such work. Extreme care must be used when servicing the SRS, to avoid injury to the service personnel (by inadvertent deployment of the air bag) or to driver (by rendering the SRS inoperative).

CONSTRUCTION DIAGRAM



00004433

SRS SERVICE PRECAUTIONS

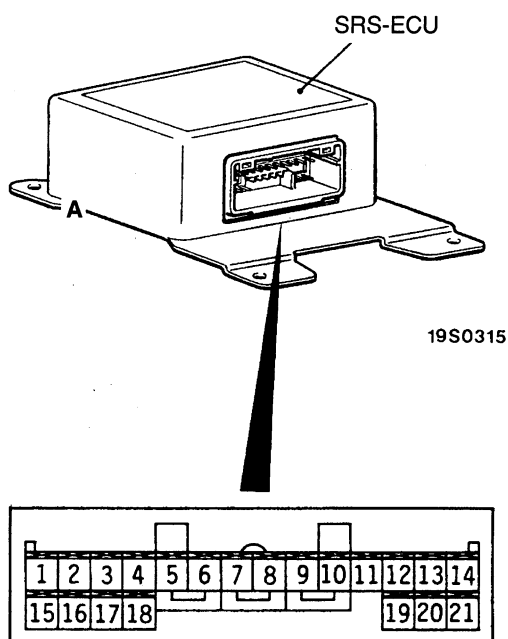
00100600035

1. In order to avoid injury to yourself or others from accidental deployment of the air bag 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 GROUP 52B – Special Tools. Never use an analogue ohmmeter.
3. **Never Attempt to Repair the Following Components:**
 - SRS Air Bag Control Unit (SRS-ECU)
 - Clock Spring
 - Air Bag Modules

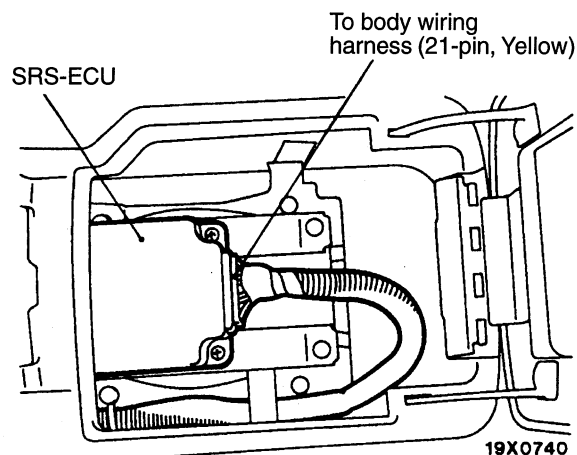
If any of these components are diagnosed as faulty, they should only be replaced, in accordance with the COMPONENT SERVICE procedures in GROUP 52B.

4. 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.

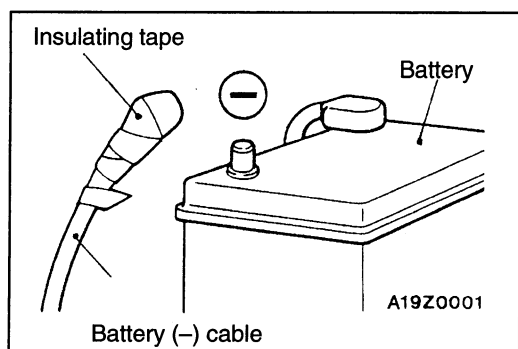
SRS-ECU Terminal No.	Harness Connector (No. of Terminals, Colour)	Destination of Harness	Corrective Action
1 to 4	21 pins, yellows	–	–
5		Body wiring harness Clock spring Air bag module (Driver's side)	Correct or replace body wiring harness Replace clock spring
6			
7		Body wiring harness Air bag module (Front passenger's side)	Correct or replace body wiring harness
8			
9, 10		–	–
11		Body wiring harness Diagnosis connector	Correct or replace body wiring harness
12		–	–
13		Body wiring harness Junction block (fuse No.3)	Correct or replace body wiring harness
14		Body wiring harness Junction block (fuse No.8)	
15		Body wiring harness Instrument panel wiring harness SRS warning lamp	
16 to 19		–	–
20		Body wiring harness Earth	Correct or replace body wiring harness
21			



19X0739



00003875



5. After disconnecting the battery cable, wait 60 seconds or more before proceeding to the following work. The SRS system is designed to retain enough voltage to deploy the air bags 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.

6. SRS components should not be subjected to heat over 93°C, so remove the SRS-ECU, air bag module and clock spring before drying or baking the vehicle after painting.
7. Whenever you finish servicing the SRS, check the SRS warning lamp operation to make sure that the system functions properly. (Refer to GROUP 52B – Troubleshooting.)
8. Turn off the ignition switch before connecting or disconnecting the MUT-II.
9. If you have any questions about the SRS, please contact your local distributor.

NOTE

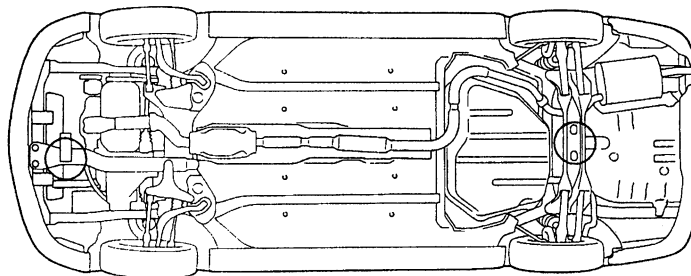
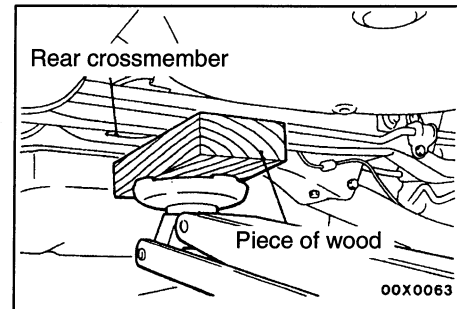
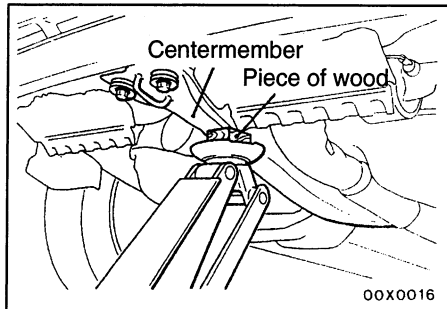
SERIOUS INJURY CAN RESULT FROM UNINTENDED AIR BAG DEPLOYMENT, SO USE ONLY THE PROCEDURES AND EQUIPMENT SPECIFIED IN THIS MANUAL.

SUPPORT LOCATIONS FOR LIFTING AND JACKING

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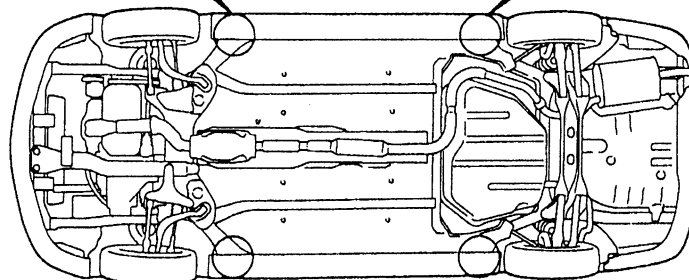
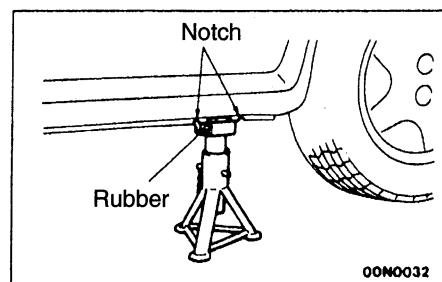
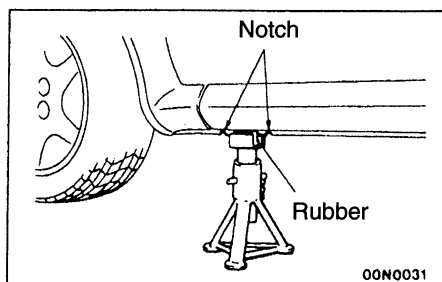
Caution

Do not support the vehicles at locations other than specified supporting points. This will damage the vehicle.

SUPPORT POSITIONS FOR A GARAGE JACK AND AXLE STANDS**GARAGE JACK**

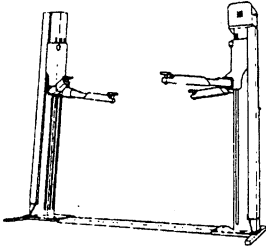
00X0002

00003683

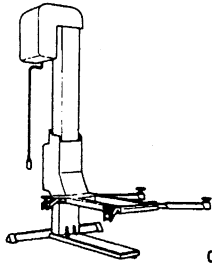
AXLE STANDS00X0002
00000225

**SUPPORT POSITIONS FOR A
SINGLE-POST LIFT OR DOUBLE-POST
LIFT****Caution**

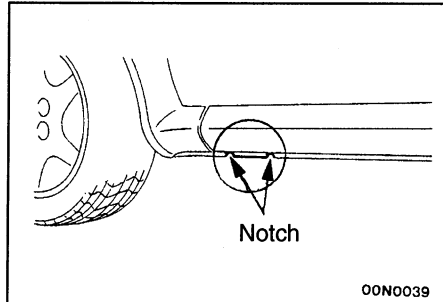
When service procedures require removing rear suspension, spare tyre and rear bumper, place additional weight on rear end of vehicle or anchor vehicle to hoist to prevent tipping of centre of gravity changes.

DOUBLE-POST LIFT

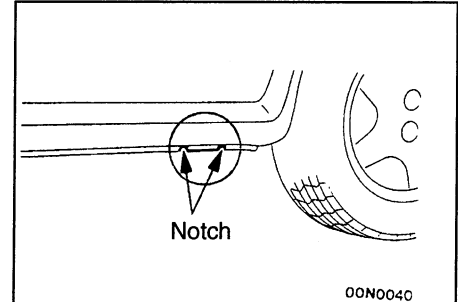
00E610

SINGLE-POST LIFT

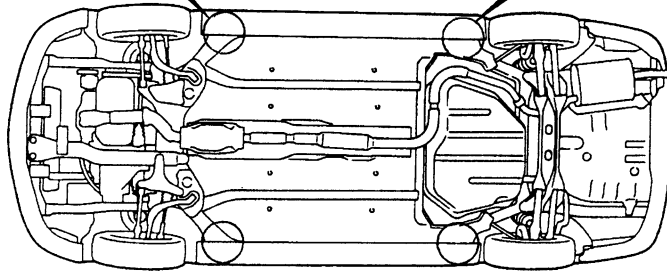
00E609



00N0039

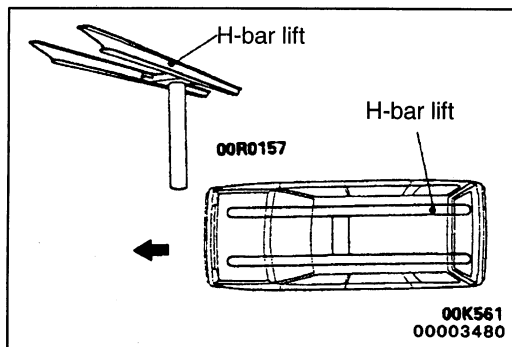


00N0040



00X0002

00004403

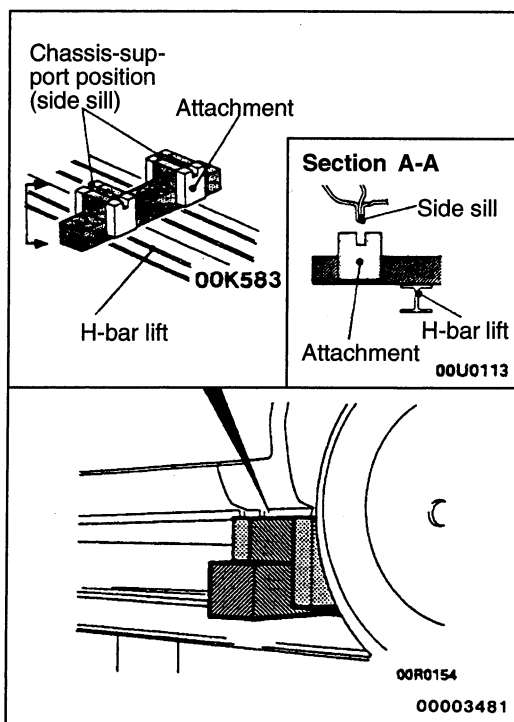


SUPPORT POSITIONS AND SUPPORT METHOD FOR AN H-BAR LIFT

Caution

When service procedures require removing rear suspension, fuel tank, spare tyre and rear bumper, place additional weight on rear end of vehicle or anchor vehicle to hoist to prevent tipping of centre of gravity changes.

When H-bar lift is used to lift up vehicles, use of metallic attachment attached to the H-bar lift may cause damage to the suspension arm etc. Therefore, lift up the vehicle by the following procedure.

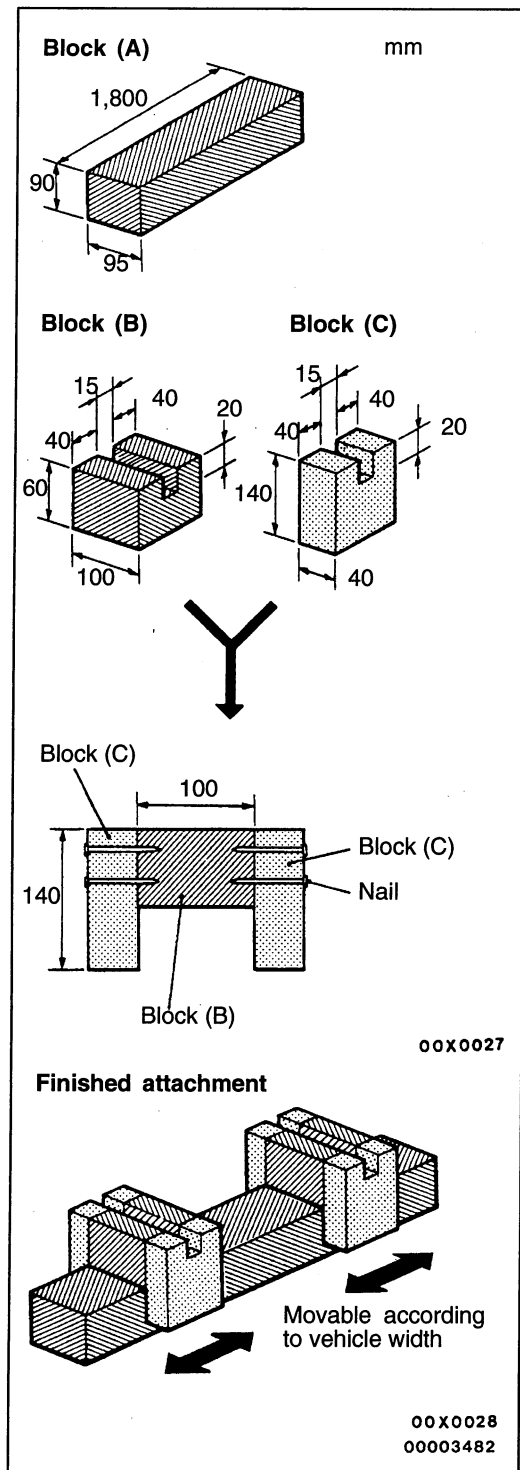


1. Place the vehicle on the H-bar lift (same direction).
2. Place attachments on the H-bar lift at the designated chassis-support positions.

Caution

If support is at any location other than the designated positions, the body or suspension might be deformed or otherwise damaged, so care should be taken to support only at the correct (designated) positions.

3. Raise the H-bar lift to the height at which the vehicle is slightly raised and check to be sure that the vehicle is correctly and sufficiently secured; then raise the vehicle.

**PREPARATION OF "ATTACHMENTS"**

1. Prepare the blocks (wooden) and nails as shown in the figure.

Item	Dimensions mm	Quantity
Block (A)	90 × 95 × 1,800	2
Block (B)	60 × 100 × 95	4
Block (C)	140 × 40 × 95	8
Nail	70 or more	32

Caution

Select a hard wood for the blocks.

2. For the (B) blocks and (C) blocks, use a saw and chisel or similar tool to make grooves of the dimensions shown in the figure.
3. Make four "ATTACHMENTS" such as shown in the figure nailing (B) and (C) blocks so that each (B) blocks is sandwiches between (C) blocks.

STANDARD PARTS-TIGHTENING-TORQUE TABLE

00100110064

Each torque value in the table is a standard value for tightening under the following conditions.

- (1) Bolts, nuts and washers are all made of steel and plated with zinc.
- (2) The threads and bearing surface of bolts and nuts are all in dry condition.

The values in the table are not applicable:

- (1) If toothed washers are inserted.
- (2) If plastic parts are fastened.
- (3) If bolts are tightened to plastic or die-cast inserted nuts.
- (4) If self-tapping screws or self-locking nuts are used.

Standard bolt and nut tightening torque

Thread size		Torque Nm		
Bolt nominal diameter (mm)	Pitch (mm)	Head mark "4"	Head mark "7"	Head mark "8"
M5	0.8	2.5	4.9	5.9
M6	1.0	4.9	8.8	9.8
M8	1.25	12	22	25
M10	1.25	24	44	52
M12	1.25	41	81	96
M14	1.5	72	137	157
M16	1.5	111	206	235
M18	1.5	167	304	343
M20	1.5	226	412	481
M22	1.5	304	559	647
M24	1.5	392	735	853

Flange bolt and nut tightening torque

Thread size		Torque Nm		
Bolt nominal diameter (mm)	Pitch (mm)	Head mark "4"	Head mark "7"	Head mark "8"
M6	1.0	4.9	9.8	12
M8	1.25	13	24	28
M10	1.25	26	49	57
M10	1.5	24	44	54
M12	1.25	46	93	103
M12	1.75	42	81	96