00109001516

GENERAL

CONTENTS

HOW TO USE THIS MANUAL2	VEHICLE IDENTIFICATION 16
Scope of Maintenance, Repair and Servicing	Vehicle Information Code Plate
Explanations	Models
Definition of Terms	Model Code
Indication of Tightening Torque	Chassis Number
Model Indications	Engine Model Number
Explanation of Manual Contents 4	
	MAJOR SPECIFICATIONS 20
HOW TO USE TROUBLESHOOTING/ INSPECTION SERVICE POINTS	PRECAUTIONS BEFORE SERVICE 21
Troubleshooting Contents 6	CURRY EMENTAL RECTRAINT OVOTEM
Diagnosis Function 7	SUPPLEMENTAL RESTRAINT SYSTEM (SRS)25
How to Use the Inspection Procedures 9	SRS Service Precautions
Connector Measurement Service Points 10	ono service i recautions
Connector Inspection	SUPPORT LOCATIONS FOR LIFTING AND JACKING 28
Inspection Service Points for a Blown Fuse 12 Points to Note for Intermittent Malfunctions 12	Support Positions for a Garage Jack and Axle Stands
TREATMENT BEFORE/AFTER THE FORDING A STREAM 13	Support Positions for a Single-Post Lift or Double-Post Lift and H-BAR Lift
Inspection and Service before Fording a Stream	STANDARD PARTS-TIGHTENING-TORQUE TABLE
Inspection and Service after Fording a Stream	

HOW TO USE THIS MANUAL

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

ON-VEHICLE SERVICE

engine and the transmission.

"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.

00100010418

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 $\pm 10\%$ except the following cases when the upper and lower limits of tightening torque are given.

- (1) The tolerance of the basic value is within $\pm 10\%$.
- (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. SOHC: Indicates an engine with the single overhead camshaft, or a model equipped with such

an engine.

MPI: Indicates the multipoint injection, or engines equipped with the multipoint injection.

DIESEL: Indicates a diesel engine, or models equipped with such an engine.

4WD: Indicates the 4 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 reassemby 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.



: Indicates that there are essential points for removal or disassembly.

: 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



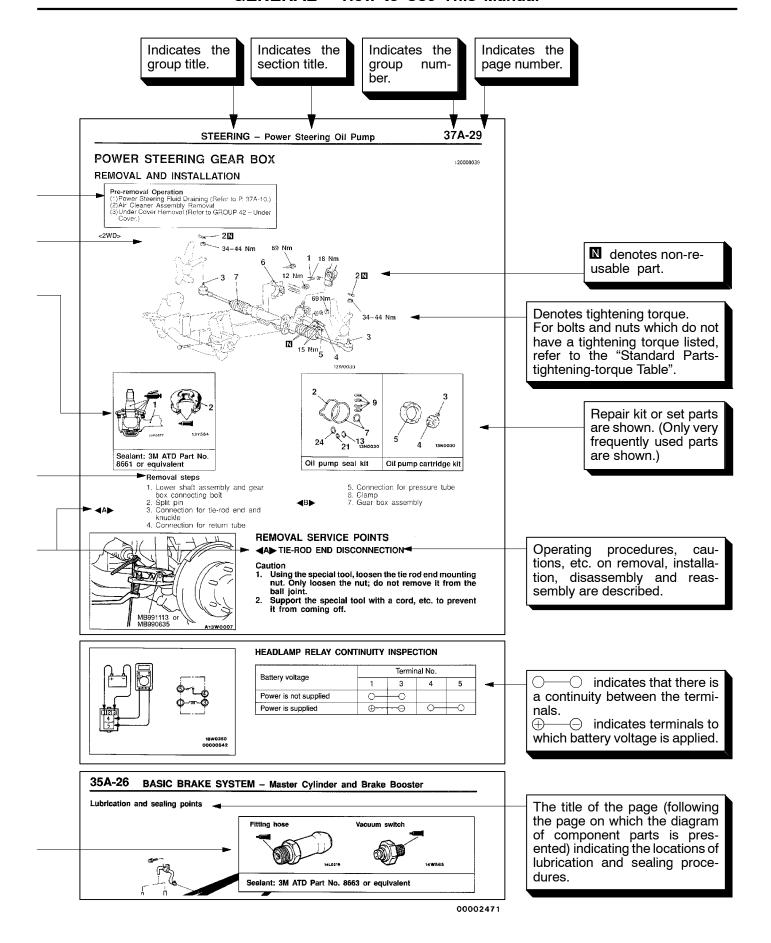
: Brake fluid or automatic transmission fluid



: Engine oil, gear oil or air conditioner compressor oil



: Adhesive tape or butyl rubber tape



HOW TO USE TROUBLESHOOTING/INSPECTION SERVICE POINTS

00100020220

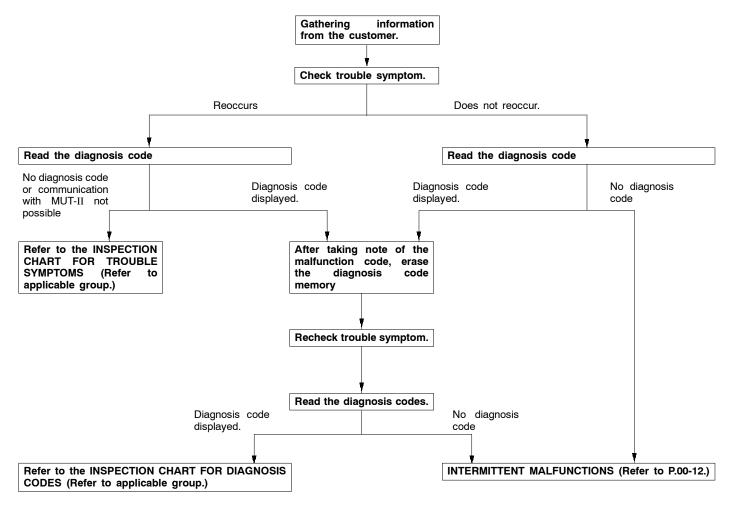
Troubleshooting of electronic control systems for which the MUT-II can be used follows the basic outline described below. Furthermore, even in systems for which the MUT-II cannot be used, part of these systems still follow this outline.

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 P.00-9 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 TROUBLE SYMPTOM

Indicates the inspection procedures corresponding to each trouble symptoms classified in the Inspection Chart for Trouble Symptoms. (Refer to P.00-9 for how to read the inspection procedures.)

8. SERVICE DATA REFERENCE TABLE

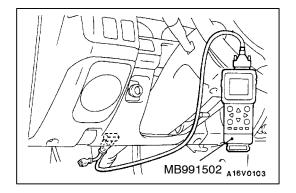
Inspection items and normal judgement values have been provided in this chart as reference information.

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.

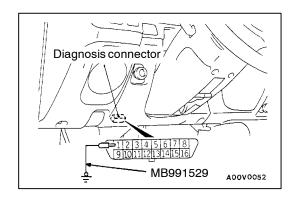


DIAGNOSIS FUNCTION METHOD OF READING DIAGNOSIS CODES WHEN USING THE MUT-II

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

Caution

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



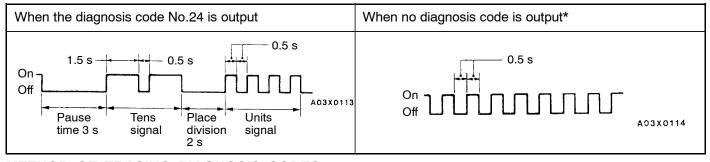
WHEN USING THE WARNING LAMP

- 1. Use the special tool to earth No.1 terminal (diagnosis control terminal) of the diagnosis connector.
- 2. Turn on the ignition switch.
- 3. Read out a diagnosis code by observing how the warning lamp flashes.

Applicable systems

System name	Warning lamp name
MPI	Engine warning lamp
Auto-cruise	Auto-cruise control indicator
ABS	ABS warning lamp

Indication of diagnosis code by warning lamp



METHOD OF ERASING DIAGNOSIS CODES

WHEN USING THE MUT-II

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

Caution

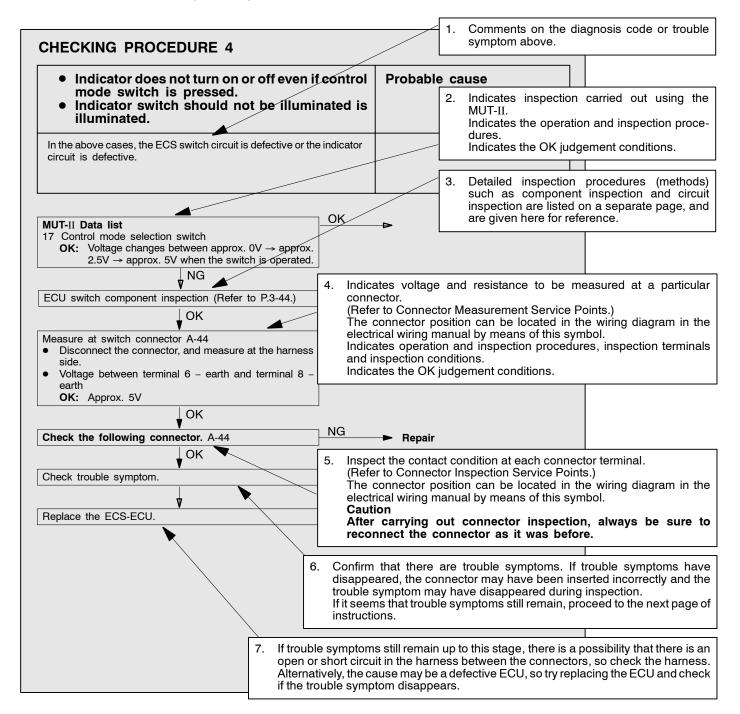
Turn off the ignition switch before connecting or disconnecting the MUT-II.

WHEN NOT USING THE MUT-II

- 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

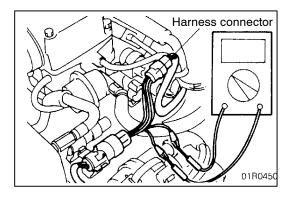
Check for an open or short circuit in the harness between the terminals which were defective according to the connector measurements. Carry out this inspection while referring to the electrical wiring manual. Here, "Check harness between power supply and terminal xx" also includes checking for blown 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

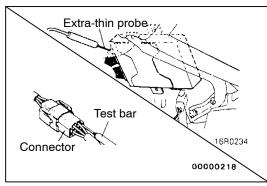
Turn the ignition switch to OFF when connecting disconnecting the connectors, and turn the ignition switch to ON when measuring if there are no instructions to be contrary.



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

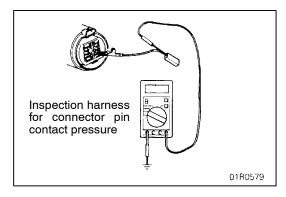
Waterproof Connectors

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.



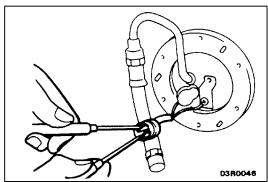
Ordinary (non-waterproof) Connectors

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.

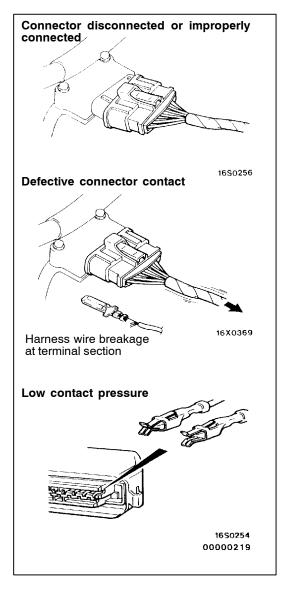


<When Inspecting a Male Pin>

Touch the pin directly with the test bar.

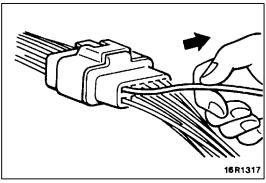
Caution

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.



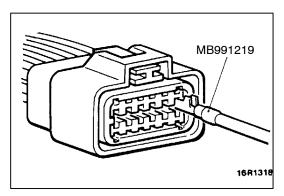
CONNECTOR INSPECTION VISUAL INSPECTION

- 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



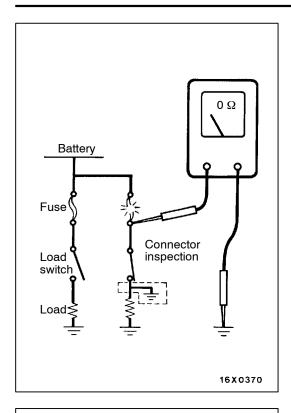
CONNECTOR PIN INSPECTION

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.



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)

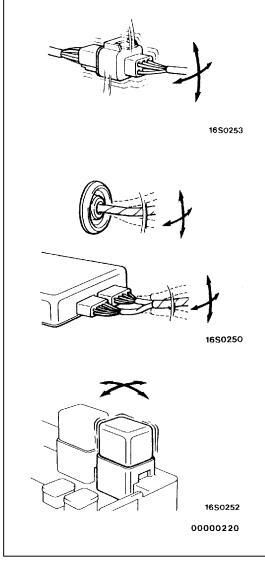


INSPECTION SERVICE POINTS FOR A BLOWN FUSE

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 Ω at this time, there is a short somewhere between these switches and the load. If the resistance is not 0 Ω , 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.

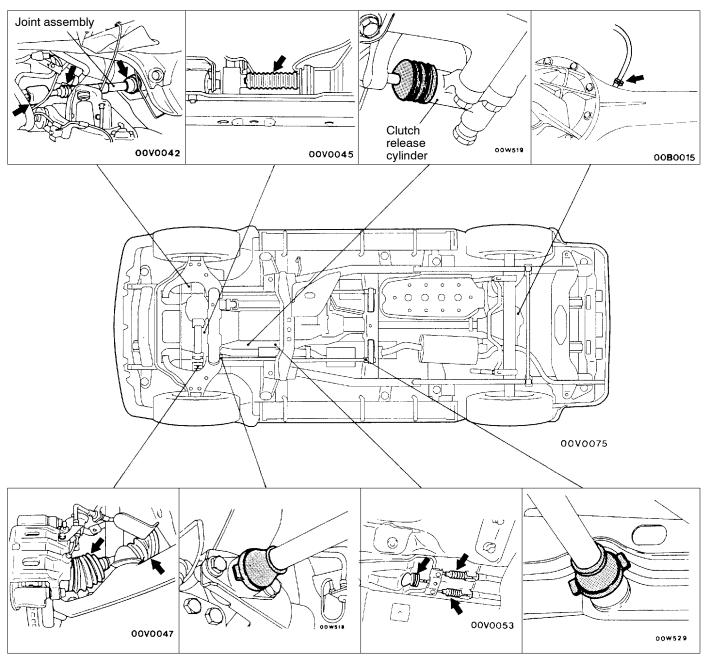
TREATMENT BEFORE/AFTER FORDING A STREAM

00100060062

INSPECTION AND SERVICE BEFORE FORDING A STREAM

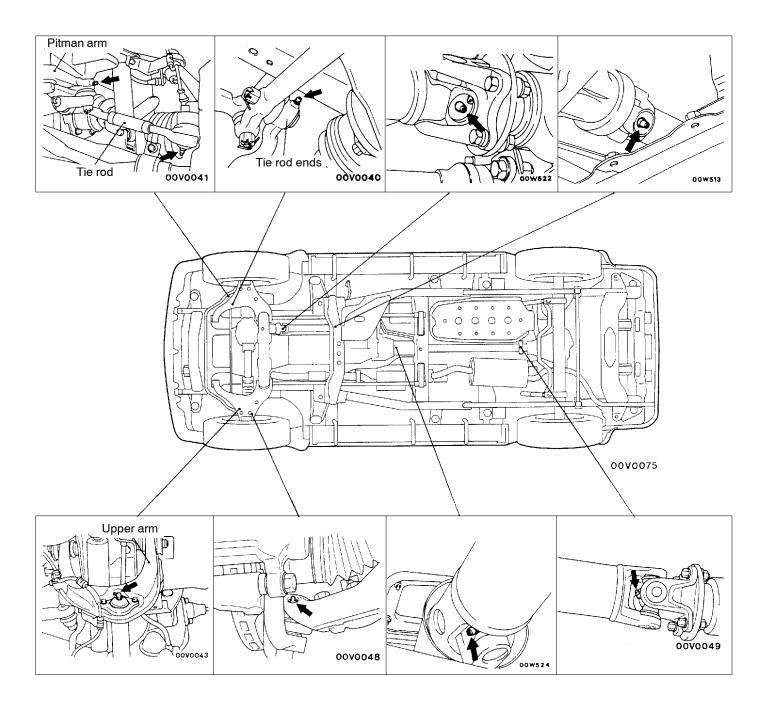
Vehicles which are driven through water, or which may possibly be driven through water, should be subjected to the following inspections and maintenance procedures in advance.

- Seal the speedometer cable with a water-resistant grease or tape.
- Inspect the dust boot and breather hose for cracks or damage, and replace them if cracks or damage are found.



00009306

 Apply grease to the lubricating points of the front suspension, steering linkage and propeller shaft.

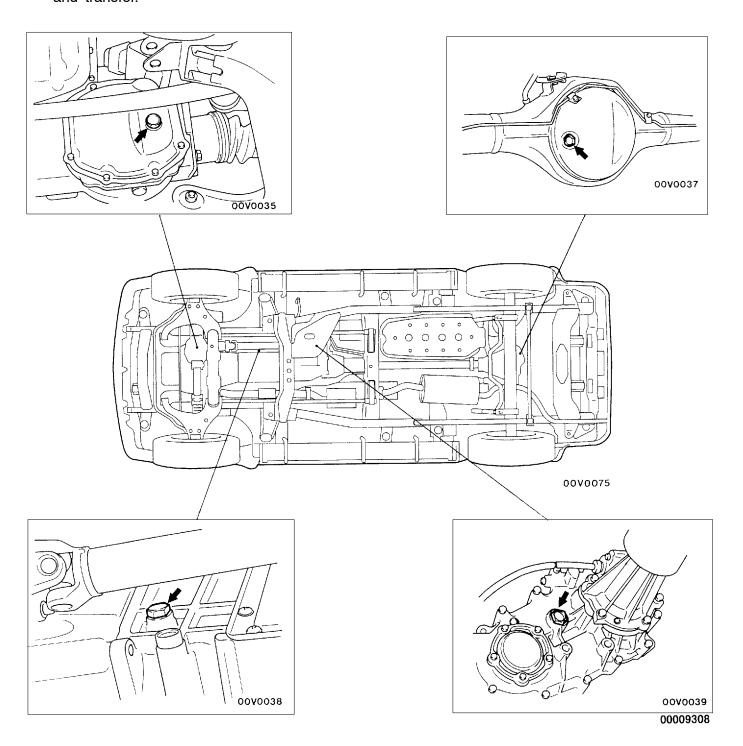


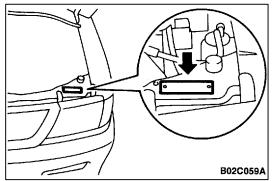
00009307

INSPECTION AND SERVICE AFTER FORDING A STREAM

After fording a stream, check the following points. If abnormal condition is evident, clean, replace or lubricate.

- Check for water, mud, sand, etc. in the rear brake drum, clutch housing, starter motor, brake pipe and fuel pipe.
- Check for water in the fluid or oil inside the front differential, rear differential, transmission and transfer.
- Apply grease to the lubricating points of the front suspension, steering linkage and propeller shaft
- Check all boots and breather hoses for cracks and damage.





MITSUBISHI MODEL MOTORS CORPORATION 1 2 3 TRANS AXLE COLOR. INT OPT AOOEO042

VEHICLE IDENTIFICATION

00100540177

VEHICLE INFORMATION CODE PLATE LOCATION

Vehicle information code plate is riveted onto the headlamp support panel in the engine compartment.

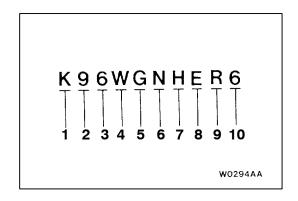
CODE PLATE DESCRIPTION

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

No.	Item	Contents	
1	MODEL	K96WGNHER6	K96WG: Vehicle model
			NHER6: Model series
2	ENGINE	6G72	Engine model
3	EXT	B60B	Exterior code
4	TRANS AXLE	V5MT1 4636	V5MT1: Transmission code
			4636: Rear differential reduction
5	COLOR	B60 41H 03V	B60: Body colour code
	INT OPT		41H: Interior code
			03V: Equipment code

For monotone colour vehicles, the body colour code shall be indicated. For two-tone colour vehicles, each colour code only shall be indicated in series. MODELS 00100550132

Model code		Engine model	Transmission model	Fuel supply system	
K96WG	NHEL6	6G72-SOHC	V5MT1(4WD-5M/T)	MPI	
	NHER6	(2,972 mL)			
K94W	NUFL6	4D56		Fuel injection	
	NUFR6	(2,477 mL)			
K94WG	NHFL6				
	NHFR6				

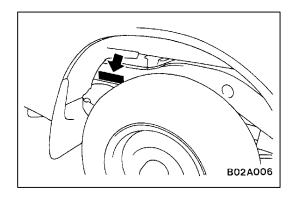


MODEL CODE

00100040400

No.	Items	Contents
1	Vehicle line	K: Challenger
2	Drive system	9: 4WD
3	Engine system	4: 2,477 mL Diesel engine
		6: 2,972 mL Petrol engine
4	Group	W: Wagon
5	Vehicle width	G: Wide fender
6	Transmission type	N: 5-speed manual transmission
7	Vehicle grade	U: GLX
		H: GLS
8	Specified engine feature	E: MPI
		F: I/C T/C

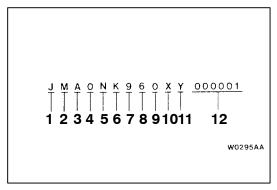
No.	Items	Contents
9	Steering wheel location	L: Left hand
		R: Right hand
10	Destination	8: For Europe



CHASSIS NUMBER

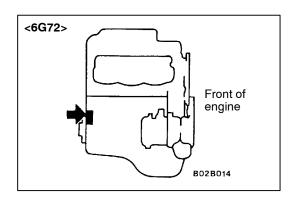
00100560142

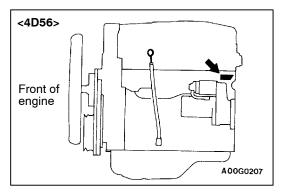
The chassis number is stamped on the side wall of the frame near the rear wheel (R.H.).



No.	Items		Contents
1	Fixed figure	J	Asia
2	Distribution channel	М	Japan channel
3	Destination A		Right hand drive
		В	Left hand drive
4	Body style	0	4 door tailgate
5	Transmission type	N	5-speed manual transmission
6	Vehicle line	К	Pajero sport
7	Body type	9	4WD
8	Engine type 4		4D56: 2,477 mL diesel engine
		6	6G72: 2,972 mL petrol engine
9	Body style	0	Frame
10	Model year	X	1999

No.	Items		Contents	
11	Plant Y,P		Ooe Plant of Nagoya Motor Vehicle Works	
12	Serial number	_	-	





ENGINE MODEL NUMBER

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

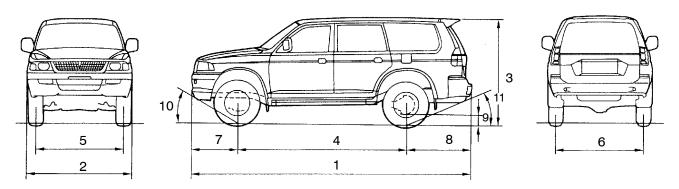
Engine model	Engine displacement mL
6G72	2,972
4D56	2,477

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

Engine serial number	AA0201 to YY9999
Engine containant	78 10201 10 1 10000

MAJOR SPECIFICATIONS

00100090382



T0303AA

Items		K96WGNHE L6/R6	K94WNUF L6/R6	K94WGNHF L6/R6	
Vehicle dimensions	Overall length	1	4,545	4,545	4,545
mm	Overall width	2	1,775	1,695	1,775
	Overall height (unladen)	3	1,730	1,720	1,730
	Wheelbase	4	2,725	2,725	2,725
	Tread-front	5	1,465	1,420	1,465
	Tread-rear	6	1,480	1,435	1,480
	Overhang-front	7	765	765	765
	Overhang-rear	8	1,055	1,055	1,055
	Ground clearance (unladen)	9	215	205	215
	Angle of approach degress	10	37°	36°	37°
	Angle of departure degress	11	26°	25°	26°
Vehicle weight kg	Kerb weight		1,845	1,825	1,895
	Max. gross vehicle weight rating		2,510	2,510	2,510
	Max. axle weight rating-front		1,110	1,110	1,145
	Max. axle weight rating-rear		1,400	1,400	1,365
	Max. trailer weight	With brake	2,800	2,800	2,800
		Without brake	750	750	750
	Max. trailer-nose weight		115	115	115
Seating capacity			5	5	5
Engine	Model No.		6G72	4D56	4D56
	Total displacement mL		2,972	2,477	2,477
Transmission	Model No.		V5MT1	V5MT1	V5MT1
	Туре		5-speed manual	5-speed manual	5-speed manual
Fuel system	Fuel supply system		MPI	Fuel injection	Fuel injection

PRECAUTIONS BEFORE SERVICE

00100050410

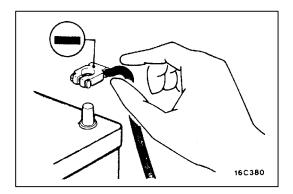
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

- 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 disassembly or repair the SRS components, (SRS-ECU, air bag module and clock spring, front impact sensor). If faulty, replace it.
 - (5) Warning labels must be heeded when servicing or handling SRS components. Warning labels are located in the following locations.
 - Hood
 - Sun visor
 - Glove box
 - SRS-ECU
 - Steering wheel
 - Air bag module
 - Clock spring
 - Instrument panel
 - Frame
 - (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 carrying out operations on places where SRS components are installed, including operations 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 over 93°C, so remove the SRS components before drying or baking the vehicle after painting.
 - After 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

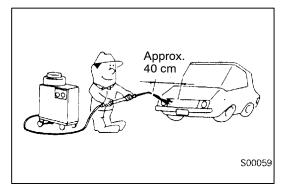
If oil or grease gets onto the oxygen sensor, it will cause a drop in the performance of the sensor.

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.

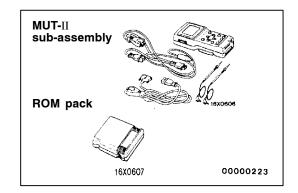
- Engine coolant temperature: 80-90°C
- Lamps, electric cooling fan and all accessories: OFF
- M/T: Neutral



VEHICLE WASHING

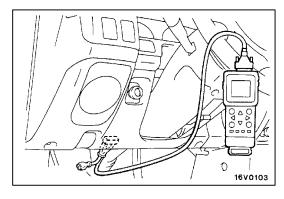
If high-pressure car-washing equipment or steam car-washing equipment is used to wash the vehicle, be sure to note the following information in order to avoid damage to plastic components, etc.

- Spray nozzle distance: Approx. 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 REFERENCE MANUAL" or "MUT-II OPERATING INSTRUCTIONS" for instructions on handling the MUT-II.



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

Caution

Connection and disconnection of the MUT-II should always be made with the ignition switch in the OFF position.

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 dermatitits. 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.

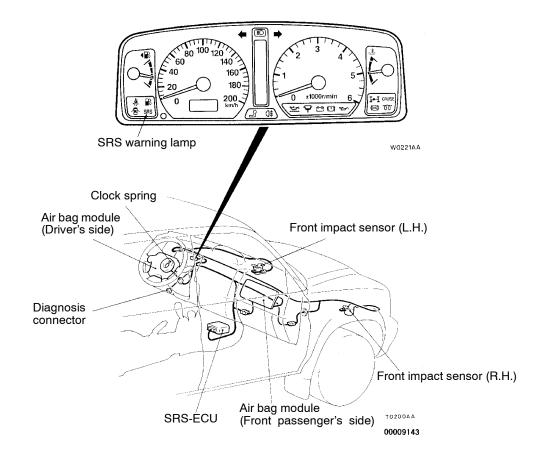
SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

00100590110

To improve safety, the SRS is available as optional part.

The SRS consists of two air bag modules, SRS air bag control unit (SRS-ECU), front impact sensors, SRS warning lamp and clock spring. One air bag is located in the centre of the steering wheel and another above the glove box. Each air bag has a folded air bag and an inflator unit. The control unit under the floor console monitors the system and has a safing G-sensor and an analog G-sensor. The front impact sensors are installed in the fender

shield panel. The warning lamp on the instrument panel indicates the operational status of the SRS. The clock spring is installed in the steering column. Only authorized service personnel should do work on or around the 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 bags) or the driver (by rendering the SRS inoperative).



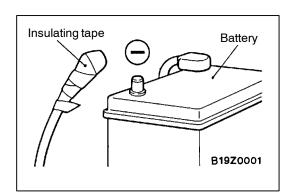
SRS SERVICE PRECAUTIONS

- 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.
- 3. Never Attempt to Repair the Following Components:

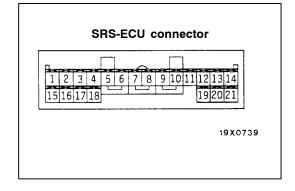
00100600110

- SRS air bag control unit (SRS-ECU)
- Front impact sensor
- Clock Spring
- Air Bag Module

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 on GROUP 52B.



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.	Harness connector (No. of terminals, colour)	Destination of harness	Corrective action
1 to 4	21 pins, yellow	-	-
5		Body wiring harness → Clock spring → Air bag	Correct or replace each
6		module (Driver's side)	wiring harness. Replace clock spring.
7		Body wiring harness → Air bag module (Front passenger's side)	Correct or replace each wiring harness.
8		passeriger's side)	willing flamess.
9,10		-	-
11		Body wiring harness → Diagnosis connector	Correct or replace each wiring harness.
12, 17		Body wiring harness → Front wiring harness→Front impact sensor (L.H.)	Sensor cable* installation procedures (Refer to P.52B-38.)
13		Body wiring harness → Junction block (fuse No.2)	Correct or replace each wiring harness.
14		Body wiring harness → Junction block (fuse No.4)	willing harriess.
15		Body wiring harness → SRS warning lamp	
16		-	_
18, 19		Body wiring harness → Front wiring harness→Front impact sensor (R.H.)	Sensor cable* installation procedures (Refer to P.52B-38.)
20		Body wiring harness → Earth	Correct or replace body wiring harness.
21			wiring namess.

NOTE

- *: The sensor cable is available as service part.
- 6. SRS components should not be subjected to heat over 93°C, so remove the SRS-ECU, air bag module, clock spring and front impact sensors before drying or baking the vehicle after painting.
- 7. Whenever you finish servicing the SRS, check warning lamp operation to make sure that the system functions properly. (Refer to GROUP 52B.)
- 8. Make certain that the ignition switch is OFF when the MUT-II is connected or disconnected.
- 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

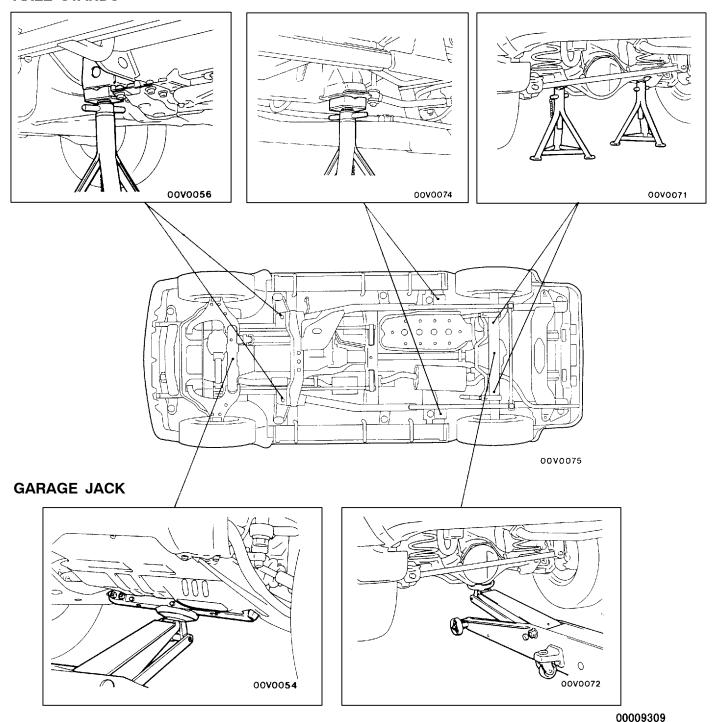
00100070096

Caution

Do not support the vehicles at locations other than specified supporting points. If do so, this will cause damage, etc.

SUPPORT POSITIONS FOR A GARAGE JACK AND AXLE STANDS

AXLE STANDS

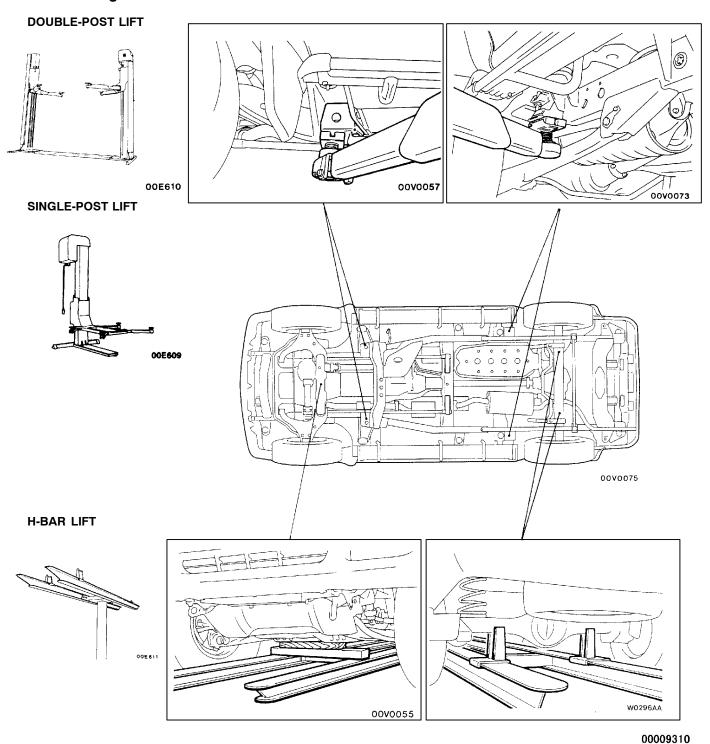


SUPPORT POSITIONS FOR A SINGLE-POST LIFT OR DOUBLE-POST LIFT AND H-BAR LIFT

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.



STANDARD PARTS-TIGHTENING-TORQUE TABLE

00100110033

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	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	