GENERAL

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E01CA--

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HOW TO USE THIS MANUAL

E01BAAV

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 the separate manuals covering the engine and the transmission.

SERVICE ADJUSTMENT PROCEDURES

"Service adjustment procedures" are procedures for performing inspections and adjustments of particularly important locations with regard to the construction and for maintenance and servicing, but other inspections (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.
A/T: Indicates the automatic transmission, or models equipped with the automatic transmission.
2WD: Indicates the front wheel-drive vehicles.
4WD: Indicates the 4 wheel-drive vehicles.
MPI: Indicates the multi-point injection, or engines equipped with the multi-point injection.

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.

Maintenance and Servicing Procedures

(1) A diagram of the component parts is provided near the front of each section in order to give the reader a better understanding of the installed condition of component parts.
(2) The numbers provided within the diagram indicate the sequence for maintenance and servicing procedures; the symbol N indicates a nonreusable part; the tightening torque is provided where applicable.

- 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.

Indicates (by symbols) where lubrication is necessary. In this example, multipurpose grease is to applied (where indicated) to the steering gear box.

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

Indicates the group number.

Indicates the page number.

Indicates the group title.

Indicates the section title.

This information is applicable for vehicles destined for Europe. This information is also applicable to vehicles (with specifications for Europe) that are shipped to General Export destinations.

37A-24 STEERING – Power Steering Gear Box

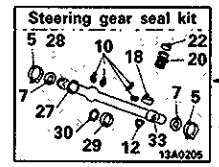
POWER STEERING GEAR BOX <VEHICLES FOR EUROPE>

REMOVAL AND INSTALLATION

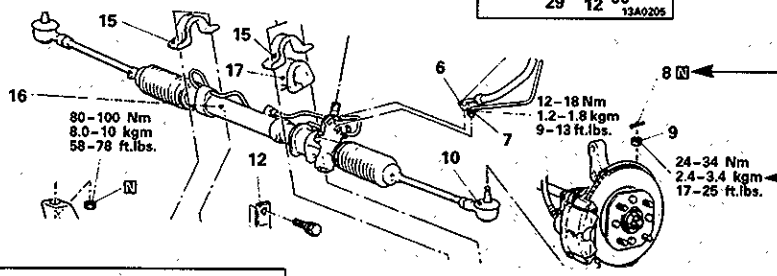
E37PA--

Pre-removal Operation
- Draining of the Power Steering Fluid
- Removal of the Air Cleaner <Vehicles with a Carburettor>

<2WD>

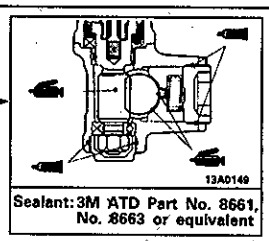


Repair kit or set parts are shown. (Only very frequently used parts are shown.)



Denotes non-reusable part.

Denotes tightening torque.

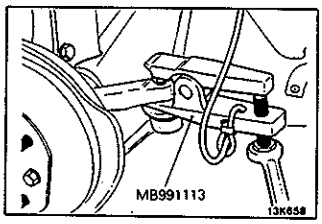


Sealant: 3M ATD Part No. 8661, No. 8663 or equivalent

Removal steps

1. Dust cover mounting bolts
5. Connection for joint assembly and gear box
6. Flare nut of return hose
7. Flare nut of pressure hose assembly
8. Split pins
9. Tie-rod end and knuckle connecting nuts
10. Tie-rod end ball joints
11. Crossmember support bracket

Operating procedures, cautions, etc. on removal, installation, disassembly and reassembly are described.



SERVICE POINTS OF REMOVAL

E37LBAF

5. DISCONNECTION OF JOINT ASSEMBLY AND GEAR BOX

Before disconnecting the joint assembly from the gear box, loosen the steering column assembly mounting bolts.

10. REMOVAL OF TIE-ROD END BALL JOINTS

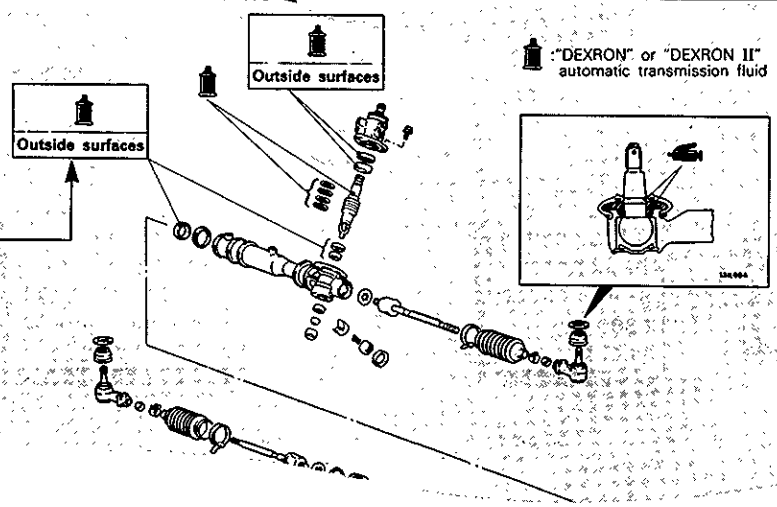
Caution
To prevent the special tool from jumping out, secure it by cord to a nearby part.

This number corresponds to the number appearing in "Removal steps", "Disassembly steps", "Installation steps" or "Reassembly steps".

37A-28 STEERING – Power Steering Gear Box

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.

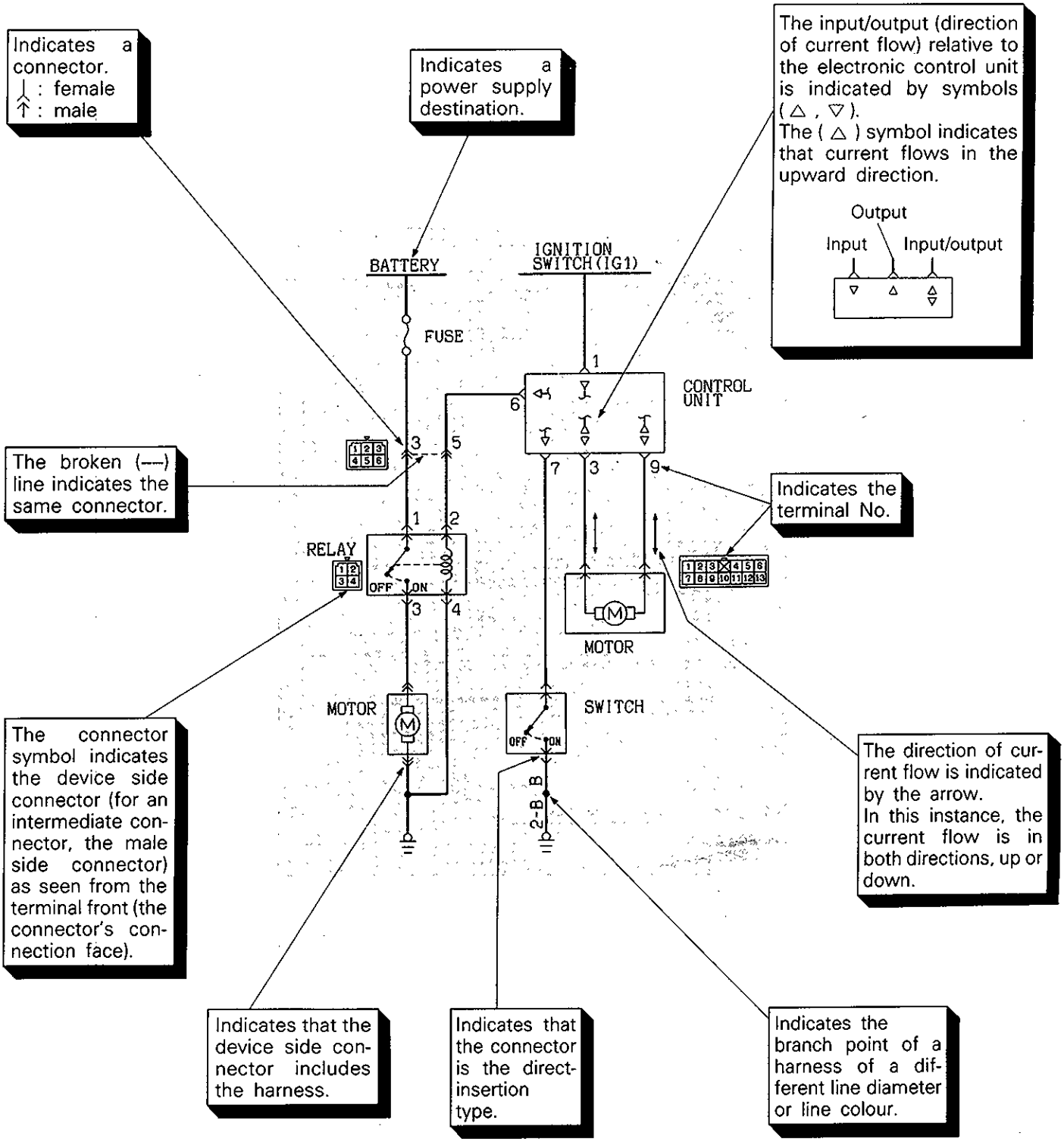
LUBRICATION AND SEALING POINTS

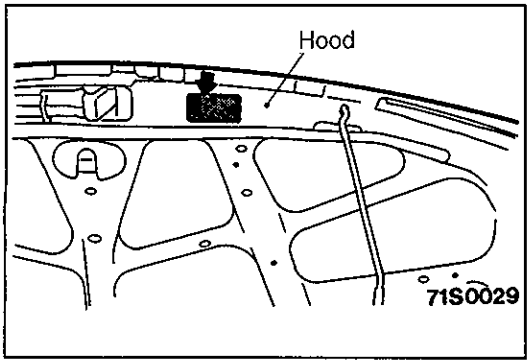


EXPLANATION OF CIRCUIT DIAGRAMS

The symbols used in circuit diagrams are used as described below.

NOTE
For detailed information concerning the reading of circuit diagrams, refer to the separate manual of "ELECTRICAL WIRING".



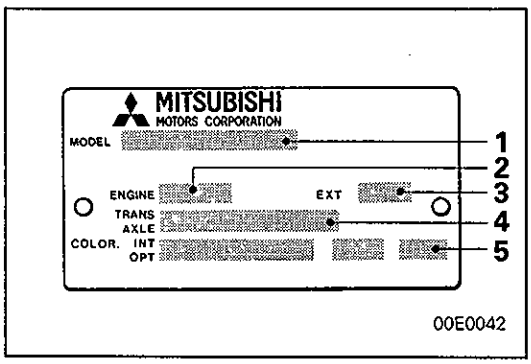


VEHICLE IDENTIFICATION

VEHICLE INFORMATION CODE PLATE E01DD--

LOCATION

Vehicle information code plate is riveted on the front end of the hood.



CODE PLATE DESCRIPTION

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

1. MODEL

CA4A MNJEQL6

- Model series
- Vehicle model

2. ENGINE

4G92

- Engine model

3. EXT

CA6

- Exterior code

4. TRANSAXLE

F5M22 4021

- Final gear ratio
- Transmission model

5. COLOR, INT
   OPT

R25 87V 03V

- Equipment code
- Interior colour code
- Body colour code

For monotone colour vehicles, the body colour code shall be indicated. For two-tone or three-way two-tone colour vehicles, each colour code only shall be indicated in series.

MODELS

E01DA--

<Hatchback> (Vehicles built up to September, 1993)

Model code		Engine model	Transmission model	Fuel supply system
CA1A	MNMEQL6	4G13 [1,229 m ℓ (79.3 cu. in.)]	F5M21 (2WD-5M/T)	MPI
	MNDEQL6/R6			
CA4A	MNDEQL6	4G92 [1,597 m ℓ (97.5 cu. in.)]	F5M22 (2WD-5M/T)	
	MRDEQL6		F4A22 (2WD-4A/T)	
	MNJEQL6/R6		F5M22 (2WD-5M/T)	
	MRJEQL6/R6		F4A22 (2WD-4A/T)	
CA5A	MNGMQL6/R6	4G93 [1,834 m ℓ (111.9 cu. in.)]	F5M22 (2WD-5M/T)	
CC4A	MNJEQL6/R6	4G92 [1,597 m ℓ (97.5 cu. in.)]	W5M31 (4WD-5M/T)	

<Hatchback> (Vehicles built from October, 1993)

Model code		Engine model	Transmission model	Fuel supply system
CA1A	MNMEQL6	4G13 [1,299 m ℓ (79.3 cu. in.)]	F5M21 (2WD-5M/T)	MPI
	MNDEQL6/R6			
CA4A	MNDEQL6	4G92 [1,597 m ℓ (97.5 cu. in.)]	F5M22 (2WD-5M/T)	
	MRDEQL6		F4A22 (2WD-4A/T)	
	MNJEQL6/R6		F5M22 (2WD-5M/T)	
	MRJEQL6/R6		F4A22 (2WD-4A/T)	
	MNJAQL6/R6		F5M22 (2WD-5M/T)	
CA5A	MNGMQL6/R6	4G93 [1,834 m ℓ (111.9 cu. in.)]	F5M22 (2WD-5M/T)	
CC4A	MNJEQL6	4G92 [1,597 m ℓ (97.5 cu. in.)]	W5M31 (4WD-5M/T)	

<Sedan> (Vehicles built up to September, 1993)

Model code		Engine model	Transmission model	Fuel supply system
CB1A	SNMEQL6	4G13 [1,299 m ℓ (79.3 cu. in.)]	F5M21 (2WD-5M/T)	MPI
	SNDEQL6/R6			
CB4A	SNDEQL6	4G92 [1,597 m ℓ (97.5 cu. in.)]	F5M21 (2WD-5M/T)	
	SRDEQL6		F4A22 (2WD-4A/T)	
	SNJEQL6/R6		F5M21 (2WD-5M/T)	
	SRJEQL6/R6		F4A22 (2WD-4A/T)	
CB5A	SNGMQL6/R6	4G93 [1,834 m ℓ (111.9 cu. in.)]	F5M22 (2WD-5M/T)	
CB8A	SNMQL6	4D68 [1,998 m ℓ (121.9 cu. in.)]		Fuel Injection Pump
	SNDQL6			
	SNJQL6			
	SNML6			
	SNDL6/R6			
	SNJL6/R6			
CD4A	SNJEQL6/R6	4G92 [1,597 m ℓ (97.5 cu. in.)]	W5M31 (4WD-5M/T)	MPI

<Sedan> (Vehicles built from October, 1993)

Model code		Engine model	Transmission model	Fuel supply system
CB1A	SNMEQL6	4G13 [1,299 m ℓ (79.3 cu. in.)]	F5M21 (2WD-5M/T)	MPI
	SNDEQL6/R6			
CB4A	SNDEQL6	4G92 [1,597 m ℓ (97.5 cu. in.)]	F5M22 (2WD-5M/T)	
	SRDEQL6		F4A22 (2WD-4A/T)	
	SNJEQL6/R6		F5M22 (2WD-5M/T)	
	SRJEQL6/R6		F4A22 (2WD-4A/T)	
	SNJAQL6		F5M22 (2WD-5M/T)	
CB5A	SNGMQL6/R6	4G93 [1,834 m ℓ (111.9 cu. in.)]	F5M22 (2WD-5M/T)	
CB8A	SNDQL6	4D68 [1,998 m ℓ (121.9 cu. in.)]		Fuel Injection Pump
	SNJQL6			
	SNML6			
	SNDL6			
	SNJL6/R6			

<Wagon> (Vehicles built up to September, 1993)

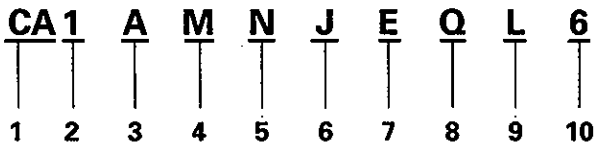
Model code		Engine model	Transmission model	Fuel supply system
CB4W	LNDEQL6/R6	4G92 [1,597 m ℓ (97.5 cu. in.)]	F5M22 (2WD-5M/T)	MPI
	LNJEQL6/R6			
	LRJEQL6/R6		F4A22 (2WD-4A/T)	
CB8W	LNDQL6	4D68 [1,998 m ℓ (121.9 cu. in.)]	F5M22 (2WD-5M/T)	Fuel Injection Pump
	LNJQL6			
	LNDL6/R6			
	LNJL6/R6			
CD4W	LNDEQL6	4G92 [1,597 m ℓ (97.5 cu. in.)]	W5M31 (4WD-5M/T)	MPI
	LNJEQL6/R6			

<Wagon> (Vehicles built from October, 1993)

Model code		Engine model	Transmission model	Fuel supply system
CB4W	LNDEQL6/R6	4G92 [1,597 m ℓ (97.5 cu. in.)]	F5M22 (2WD-5M/T)	MPI
	LNJEQL6			
	LRJEQL6/R6		F4A22 (2WD-4A/T)	
CB8W	LNDQL6	4D68 [1,998 m ℓ (121.9 cu. in.)]	F5M22 (2WD-5M/T)	Fuel Injection Pump
	LNJQL6			
	LNDL6			
	LNJL6/R6			
CD4W	LNDEQL6	4G92 [1,597 m ℓ (97.5 cu. in.)]	W5M31 (4WD-5M/T)	MPI
	LNJEQL6/R6			

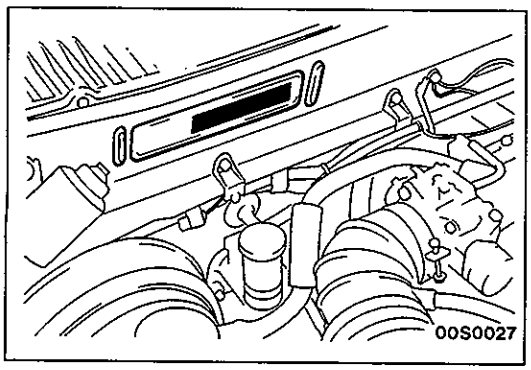
MODEL CODE

E01DB--



1. Development order (drive train)
   - CA – MITSUBISHI COLT (2WD)
   - CB – MITSUBISHI LANCER (2WD)
   - CC – MITSUBISHI COLT (Full time 4WD)
   - CD – MITSUBISHI LANCER (Full time 4WD)
2. Engine
   - 1 – 1,299 mℓ (79.3 cu. in.), gasoline
   - 4 – 1,597 mℓ (97.5 cu. in.), gasoline
   - 5 – 1,834 mℓ (111.9 cu. in.), gasoline
   - 8 – 1,998 mℓ (121.9 cu. in.), diesel
3. Sort
   - A – Passenger car
   - W – Wagon
4. Body style
   - M – 2-door hatchback
   - S – 4-door sedan
   - L – 4-door wagon
5. Transmission type
   - N – 5-speed manual transmission
   - R – 4-speed automatic transmission
6. Trim code
7. Specified engine feature
   - A – MVV (Mitsubishi Vertical Vortex)
   - E – Electronic injection (SOHC)
   - M – Electronic injection (DOHC)
8. Exhaust emission specification
   - Q – With low pollution system
9. Steering wheel location
   - L – Left hand
   - R – Right hand
10. Destination
    - 6 – For Europe

NOTES



CHASSIS NUMBER

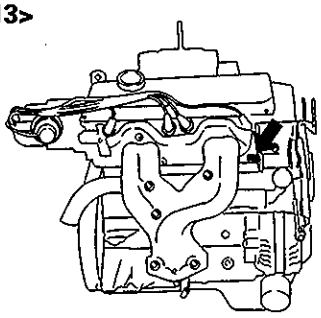
E01DCAW

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

1	2	3	4	5	6	7	8	9	10	11
J	M	B	M	N	CA	4	A	N	U	000001

1. Asia
2. Japan
3. MITSUBISHI
   - A – For Europe, right hand drive
   - B – For Europe, left hand drive
4. Body style
   - M – 2-door hatchback
   - S – 4-door sedan
   - L – 4-door station wagon
5. Transmission type
   - N – 5-speed manual transmission
   - R – 4-speed automatic transmission
6. Development order
   - CA: COLT <2WD>
   - CB: LANCER <2WD>
   - CC: COLT <4WD>
   - CD: LANCER <4WD>
7. Engine
   - 1 – 4G13: 1,299 mℓ (79.3 cu. in.)
   - 4 – 4G92: 1,597 mℓ (97.5 cu. in.)
   - 5 – 4G93: 1,834 mℓ (111.9 cu. in.)
   - 8 – 4D68: 1,998 mℓ (121.9 cu. in.)
8. Sort
   - A – Passenger car
   - W – Station wagon
9. Model year
   - N – 1992 R – 1994
   - P – 1993
10. Plant
    - U – Mizushima Motor Vehicle Works
11. Serial number

<4G13>



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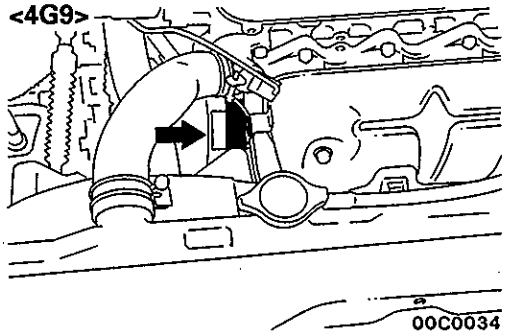

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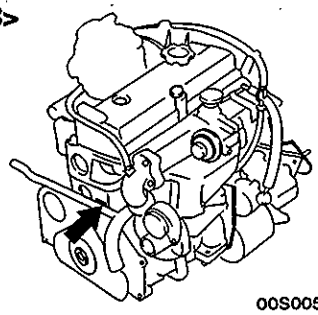
<4D68>



00S0059

ENGINE MODEL NUMBER

1. The engine number is stamped on the engine cylinder block as shown in the illustration.

Engine model	Engine displacement mℓ (cu. in.)
4G13	1,299 (79.3)
4G92	1,597 (97.5)
4G93	1,834 (111.9)
4D68	1,998 (121.9)

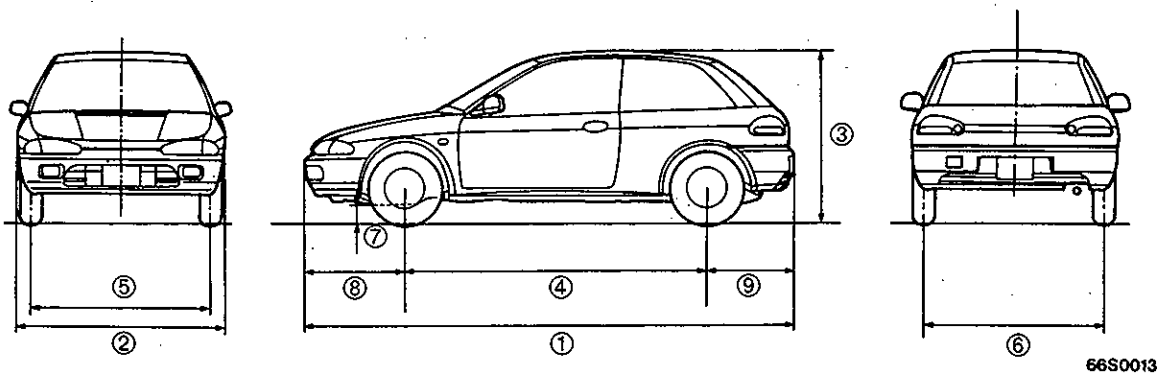
2. The engine serial number is stamped near the engine model number, and the serial number cycles, as shown belows.

Engine serial number cycling
AA0201 ----------▶ AA9999 ———— AB0001 ┐ └▶ AY9999 ———— BA0001 ----------▶ YY9999

MAJOR SPECIFICATIONS

E01FA--

Hatchback



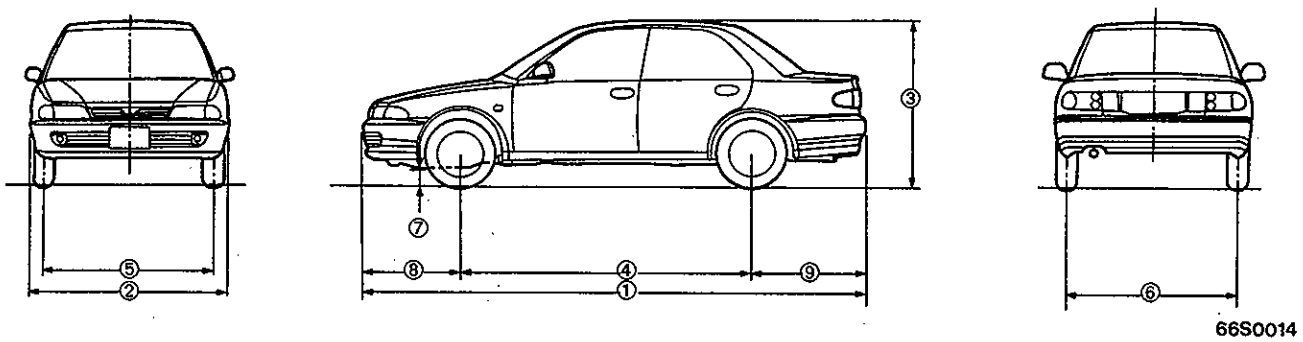
66S0013

Items \ Model	CA1A	CA4A		CA5A	CC4A
	MNMEQL6 MNDEQL6/R6	MNDEQL6 MNJEQL6/R6 MNJAQL6/QR6	MRDEQL6 MRJEQL6/R6	MNGMQL6/R6	MNJEQL6
Dimensions mm (in.)					
Overall length ①	3,955 (155.7)			3,955 (155.7)	3,955 (155.7)
Overall width ②	1,680 (66.1)*1			1,680 (66.1)*1	1,680 (66.1)*1
	1,690 (66.5)			1,690 (66.5)	1,690 (66.5)
Overall height (unladen) ③	1,365 (53.7)			1,355 (53.3)	1,375 (54.1)
Wheelbase ④	2,440 (96.1)			2,440 (96.1)	2,440 (96.1)
Track – Front ⑤	1,450 (57.1)			1,450 (57.1)	1,450 (57.1)
Track – Rear ⑥	1,460 (57.5)			1,460 (57.5)	1,460 (57.5)
Ground clearance (laden) ⑦	125 (4.9)			125 (4.9)	125 (4.9)
Overhang – Front ⑧	820 (32.3)			820 (32.3)	820 (32.3)
Overhang – Rear ⑨	695 (27.4)			695 (27.4)	695 (27.4)
Weight kg (lbs.)					
Kerb weight	890 (1,962)*2	935 (2,061)*3	955 (2,105)*4	995 (2,194)	1,040 (2,293)
	910 (2,006)	945 (2,083)	965 (2,127)		
Gross vehicle weight	1,450 (3,197)	1,500 (3,307)	1,500 (3,307)	1,550 (3,417)	1,600 (3,527)
Max. axle weight					
Front	830 (1,830)	830 (1,830)	830 (1,830)	830 (1,830)	830 (1,830)
Rear	790 (1,742)	790 (1,742)	790 (1,742)	790 (1,742)	830 (1,830)
Seating capacity	5				
Engine					
Model	4G13	4G92		4G93	4G92
Total displacement mℓ (cu. in.)	1,299 (79.3)	1,597 (97.5)		1,834 (111.9)	1,597 (97.5)
Transmission					
Model	F5M21	F5M22	F4A22	F5M22	W5M31
Type	5-speed Manual	5-speed Manual	4-speed Automatic	5-speed Manual	5-speed Manual

NOTE
*1: Vehicles without side protector moulding
*2: CA1AMNMEQL6
*3: CA4AMNDEQL6
*4: CA4AMRDEQL6

Sedan <Vehicles built up to September, 1993>

E01FA–



66S0014

<1300, 1600–4WD, 1800>

Items	CB1ASNMEQL6	CB1ASNDEQL6/ R6	CD4ASNJEQL6/ R6	CB5ASNGMQL6/ R6
Dimensions mm (in.)				
Overall length ①	4,275 (168.3)			
Overall width ②	1,680 (66.1)		1,690 (66.5)	
Overall height (unladen) ③	1,385 (54.5)		1,395 (54.9)	1,375 (54.1)
Wheelbase ④	2,500 (98.4)			
Track – Front ⑤	1,450 (57.0)			
Track – Rear ⑥	1,460 (57.5)			
Ground clearance (laden) ⑦	150 (5.9)			140 (5.5)
Overhang – Front ⑧	825 (32.5)			
Overhang – Rear ⑨	950 (37.4)			
Weight kg (lbs.)				
Kerb weight	930 (2,050)	940 (2,072)	1,100 (2,425)	1,040 (2,293)
Gross vehicle weight	1,450 (3,197)		1,600 (3,527)	1,580 (3,483)
Max. axle weight				
Front	830 (1,830)		830 (1,830)	830 (1,830)
Rear	790 (1,742)		830 (1,830)	790 (1,742)
Seating capacity	5			
Engine				
Model	4G13		4G92	4G93
Total displacement mℓ (cu. in.)	1,298 (79.2)		1,597 (97.5)	1,834 (111.9)
Transmission				
Model	F5M21		W5M31	F5M22
Type	5-speed manual		5-speed manual	5-speed manual

<1600-2WD>

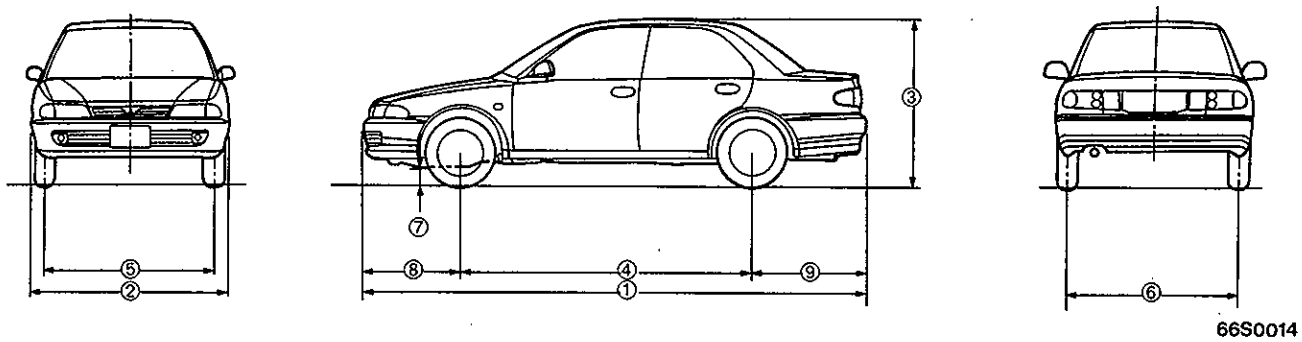
Items	CB4ASNDEQL6	CB4ASRDEQL6	CB4ASN-JEQL6/R6	CB4ASRJEQL6/R6
Dimensions mm (in.)				
Overall length ①	4,275 (168.3)			
Overall width ②	1,690 (66.5)			
Overall height (unladen) ③	1,385 (54.5)			
Wheelbase ④	2,500 (98.4)			
Track – Front ⑤	1,450 (57.0)			
Track – Rear ⑥	1,460 (57.5)			
Ground clearance (laden) ⑦	150 (5.9)			
Overhang – Front ⑧	825 (32.5)			
Overhang – Rear ⑨	950 (37.4)			
Weight kg (lbs.)				
Kerb weight	980 (2,161)	1,000 (2,205)	995 (2,194)	1,015 (2,238)
Gross vehicle weight	1,550 (3,417)			
Max. axle weight				
Front	830 (1,830)			
Rear	790 (1,742)			
Seating capacity	5			
Engine				
Model	4G92			
Total displacement m ℓ (cu. in.)	1,597 (97.5)			
Transmission Model	F5M22	F4A22	F5M22	F4A22
Type	5-speed manual	4-speed automatic	5-speed manual	4-speed automatic

<2000D>

Items	CB8ASNMQL6/ ASNML6	CB8ASNDQL6/ ASNDL6/R6	CB8ASNJQL6/ ASNJL6/R6
Dimensions mm (in.)			
Overall length ①	4,275 (168.3)		
Overall width ②	1,680 (66.1)	1,690 (66.5)	
Overall height (unladen) ③	1,385 (54.5)		
Wheelbase ④	2,500 (98.4)		
Track – Front ⑤	1,450 (57.0)		
Track – Rear ⑥	1,460 (57.5)		
Ground clearance (laden) ⑦	150 (5.9)		
Overhang – Front ⑧	825 (32.5)		
Overhang – Rear ⑨	950 (37.4)		
Weight kg (lbs.)			
Kerb weight	1,025 (2,260)	1,035 (2,282)	1,050 (2,315)
Gross vehicle weight	1,580 (3,483)		
Max. axle weight			
Front	830 (1,830)		
Rear	790 (1,742)		
Seating capacity	5		
Engine			
Model	4D68		
Total displacement m ℓ (cu. in.)	1,998 (121.9)		
Transmission Model	F5M22		
Type	5-speed manual		

Sedan <Vehicles built from October, 1993>

E01FA–



66S0014

<1300, 1800>

Items	CB1ASNMEQL6	CB1ASNDEQL6/R6	CB5ASNGMQL6/R6
Dimensions mm (in.)			
Overall length ①	4,275 (168.3)		
Overall width ②	1,680 (66.1)		
Overall height (unladen) ③	1,385 (54.5), 1,375 (54.1)*		
Wheelbase ④	2,500 (98.4)		
Track – Front ⑤	1,450 (57.0)		
Track – Rear ⑥	1,460 (57.5)		
Ground clearance (laden) ⑦	125 (4.9)		
Overhang – Front ⑧	825 (32.5)		
Overhang – Rear ⑨	950 (37.4)		
Weight kg (lbs.)			
Kerb weight	930 (2,050)	940 (2,072)	1,040 (2,293)
Gross vehicle weight	1,450 (3,197)		1,580 (3,483)
Max. axle weight			
Front	830 (1,830)		830 (1,830)
Rear	790 (1,742)		790 (1,742)
Seating capacity	5		
Engine			
Model	4G13		4G93
Total displacement mℓ (cu. in.)	1,298 (79.2)		1,834 (111.9)
Transmission			
Model	F5M21		F5M22
Type	5-speed manual		5-speed manual

NOTE
* : CB5ASNGMQL6/R6

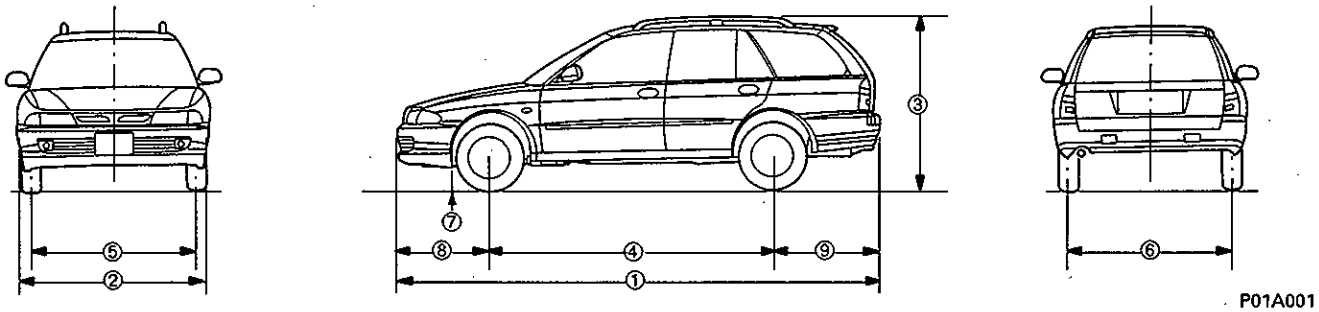
<1600-2WD>

Items	CB4ASNDEQL6	CB4ASRDEQL6	CB4ASN-JEQL6/R6 SNJAQL6	CB4ASRJEQL6/R6
Dimensions mm (in.)				
Overall length ①	4,275 (168.3)			
Overall width ②	1,690 (66.5)			
Overall height (unladen) ③	1,385 (54.5)			
Wheelbase ④	2,500 (98.4)			
Track – Front ⑤	1,450 (57.0)			
Track – Rear ⑥	1,460 (57.5)			
Ground clearance (laden) ⑦	125 (4.9)			
Overhang – Front ⑧	825 (32.5)			
Overhang – Rear ⑨	950 (37.4)			
Weight kg (lbs.)				
Kerb weight	980 (2,161)	1,000 (2,205)	995 (2,194)	1,015 (2,238)
Gross vehicle weight	1,550 (3,417)			
Max. axle weight				
Front	830 (1,830)			
Rear	790 (1,742)			
Seating capacity	5			
Engine				
Model	4G92			
Total displacement mℓ (cu. in.)	1,597 (97.5)			
Transmission Model	F5M22	F4A22	F5M22	F4A22
Type	5-speed manual	4-speed automatic	5-speed manual	4-speed automatic

<2000D>

Items	CB8ASNMQL6/ ASNML6	CB8ASNDQL6/ ASNDL6/R6	CB8ASNJQL6/ ASNJL6/R6
Dimensions mm (in.)			
Overall length ①	4,275 (168.3)		
Overall width ②	1,680 (66.1)	1,690 (66.5)	
Overall height (unladen) ③	1,385 (54.5)		
Wheelbase ④	2,500 (98.4)		
Track – Front ⑤	1,450 (57.0)		
Track – Rear ⑥	1,460 (57.5)		
Ground clearance (laden) ⑦	150 (5.9)		
Overhang – Front ⑧	825 (32.5)		
Overhang – Rear ⑨	950 (37.4)		
Weight kg (lbs.)			
Kerb weight	1,025 (2,260)	1,035 (2,282)	1,050 (2,315)
Gross vehicle weight	1,580 (3,483)		
Max. axle weight			
Front	830 (1,830)		
Rear	790 (1,742)		
Seating capacity	5		
Engine			
Model	4D68		
Total displacement mℓ (cu. in.)	1,998 (121.9)		
Transmission Model	F5M22		
Type	5-speed manual		

Wagon



P01A001

Items		2WD			4WD
		1600		2000D	1600
		M/T	A/T	M/T	M/T
Dimensions	mm (in.)				
Overall length	①	4,275 (168.3)			4,275 (168.3)
Overall width	②	1,690 (66.5)			1,690 (66.5)
Overall height	③	1,420 (55.9) or 1,470 (57.9)*1			1,465 (57.7) or 1,515 (59.6)*1
Wheelbase	④	2,500 (98.4)			2,505 (98.6)
Track – Front	⑤	1,450 (57.0)			1,465 (57.7)
Track – Rear	⑥	1,420 (55.9)			1,430 (56.3)
Ground clearance (laden)	⑦	125 (4.9)			160 (6.3)
Overhang – Front	⑧	825 (32.5)			820 (32.3)
Overhang – Rear	⑨	950 (37.4)			950 (37.4)
Weight	kg (lbs.)				
Kerb weight		1,030 (2,282)*2 1,040 (2,293)*3	1,060 (2,337)	1,085 (2,392)*4 1,090 (2,403)*5	1,150 (2,535)*2 1,155 (2,546)*3
Gross vehicle weight		1,600 (3,527)		1,620 (3,571)	1,680 (3,704)
Max. axle weight					
Front		830 (1,830)			830 (1,830)
Rear		900 (1,984)			925 (2,039)
Seating capacity		5			
Engine					
Model		4G92		4D68	4G92
Total displacement	mℓ (cu. in.)	1,597 (97.5)		1,998 (121.9)	1,597 (97.5)
Transmission					
Model		F5M22	F4A22	F5M22	W5M31
Type		5-speed manual	4-speed automatic	5-speed manual	5-speed manual

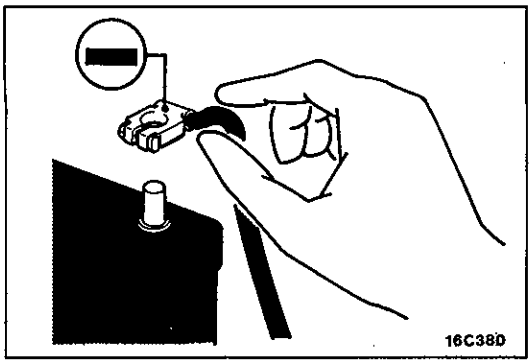
NOTES
*1: Vehicles with roof rails
*2: GLI
*3: GLXI
*4: GL
*5: GLX

PRECAUTIONS BEFORE SERVICE

E01GA--

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 diagnosis 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.
      - Hood
      - Sun visor
      - Glove box
      - SRS diagnosis unit
      - Steering wheel
      - Air bag module
      - Clock spring
      - Steering gear and linkage clamp
   (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 (200°F), 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 E01GA-

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.)

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

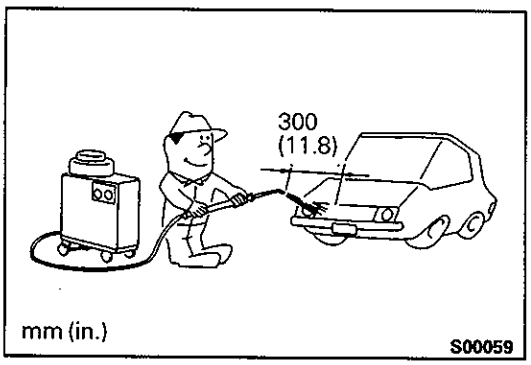
Prolonged and repeated contact with mineral oil will result in the removal of natural fats from the skin, leading to dryness, irritation and dermatitis. In addition, used engine oil contains potentially harmful contaminants which may cause skin cancer. Adequate means of skin protection and washing facilities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

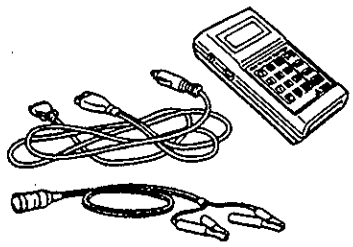


VEHICLE WASHING E01GA–

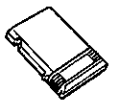
If high-pressure car-washing equipment or steam car-washing equipment is used to wash the vehicle, be sure to note the following information in order to avoid damage to plastic components, etc.

- Spray nozzle distance: 300 mm (11.8 in.) or more
- Spray pressure: 4 MPa (40 kg/cm², 569 psi) or less
- Spray temperature: 82°C (180°F) or less
- Time of concentrated spray to one point: within 30 sec.

Multi-use tester sub assembly



ROM pack



MULTI-USE TESTER (MUT) <Up to 1993 models>

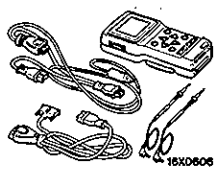
(1) To operate the MUT, refer to the "Multi-use Tester Operation Instructions".

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

(2) Always use a ROM pack that is appropriate for the vehicle.

ROM pack	Applicable models
MB991419	1992 models
MB991481	1992, 1993 models

MUT-II sub-assembly



ROM pack

16X0607

MUT-II <All models>

Refer to the MUT-II OPERATING INSTRUCTIONS for instructions on handling the MUT-II.

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

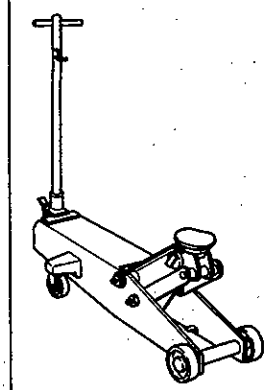
SUPPORT LOCATIONS FOR LIFTING AND JACKING

E01LB--

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

<Hatchback, Sedan>



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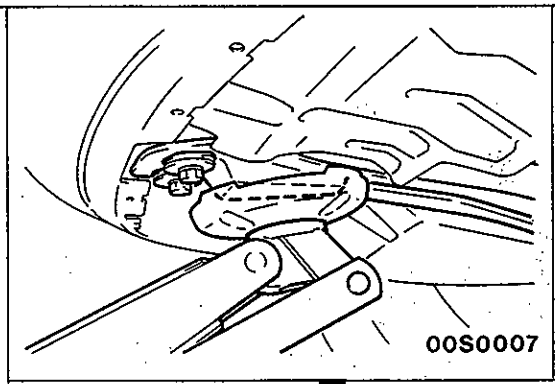

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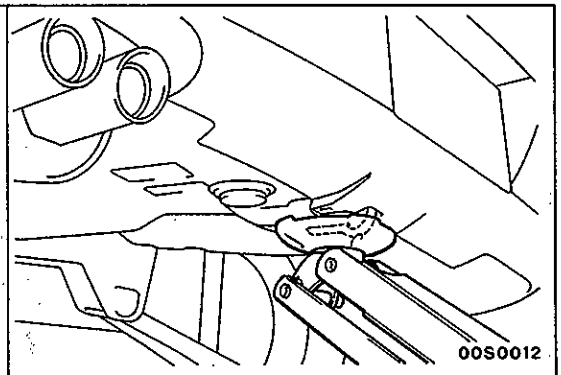

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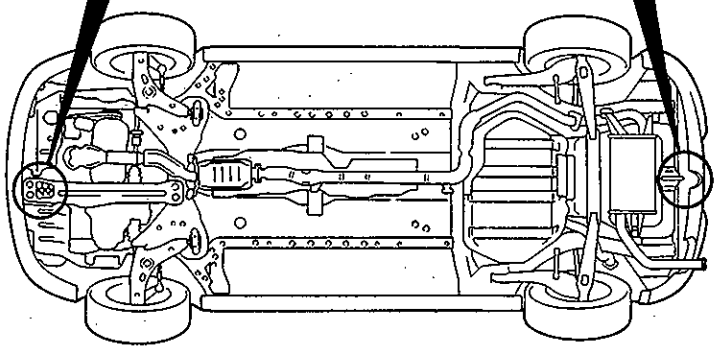
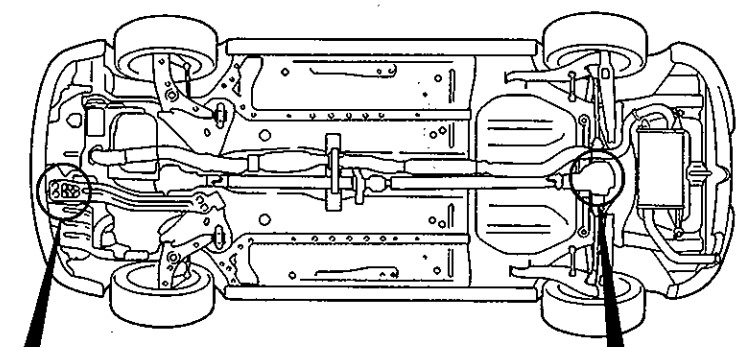
2WD



30S0087

4WD



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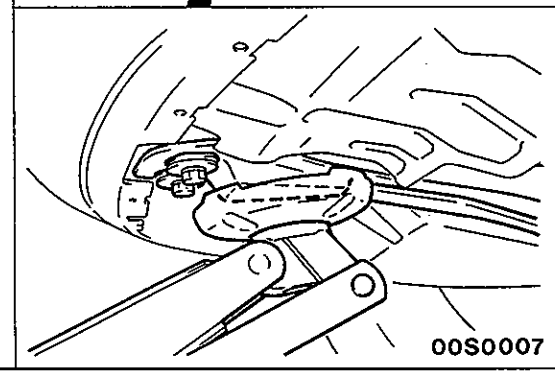

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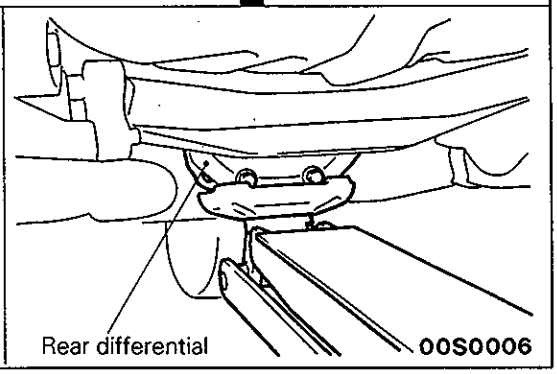
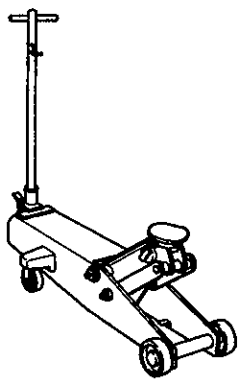


00S0006

<Wagon>



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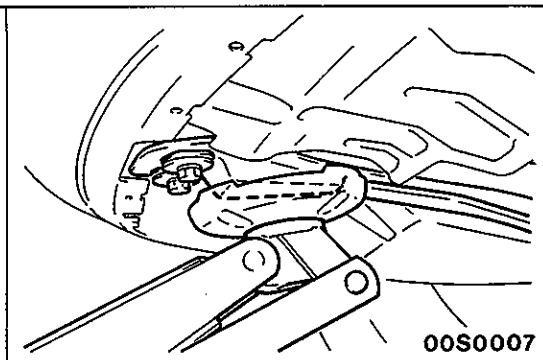

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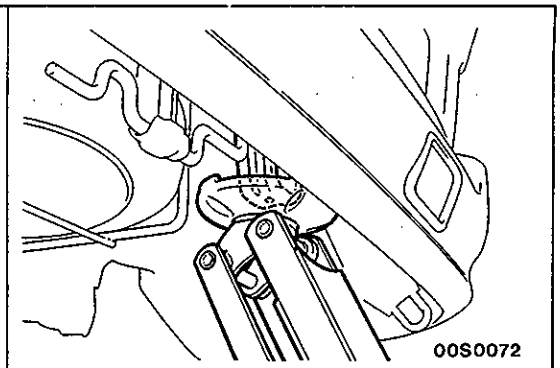
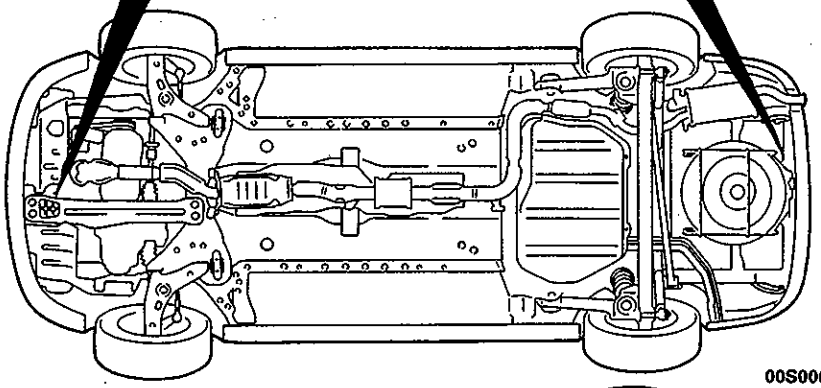


00S0072

2WD



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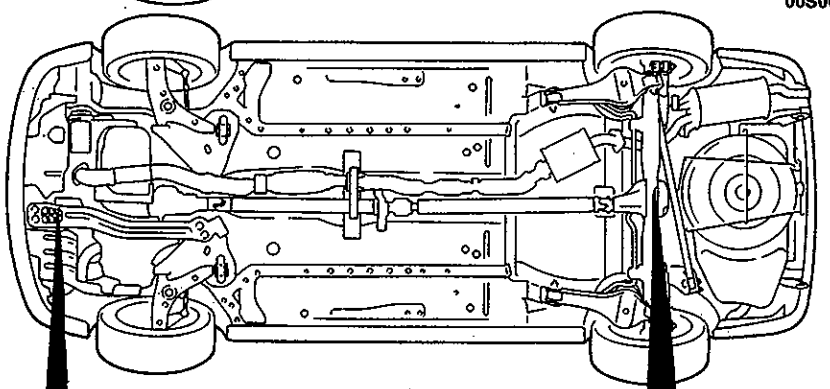
4WD



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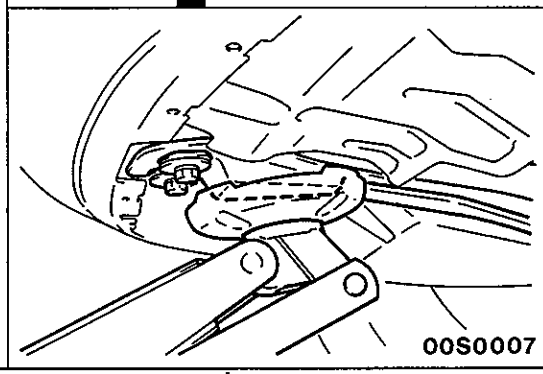

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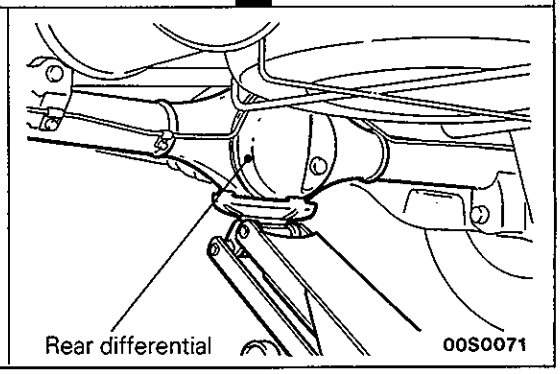


00S0071

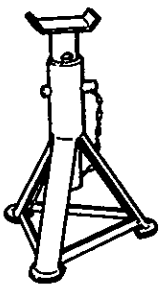
NOTES

SUPPORT POSITIONS FOR AXLE STANDS, A SINGLE-POST LIFT OR DOUBLE-POST 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.

AXLE STANDS



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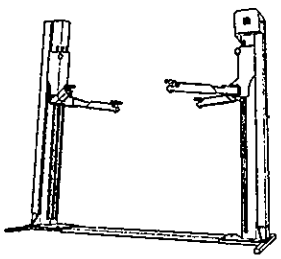
DOUBLE-POST LIFT



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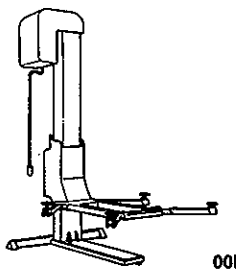
SINGLE-POST LIFT



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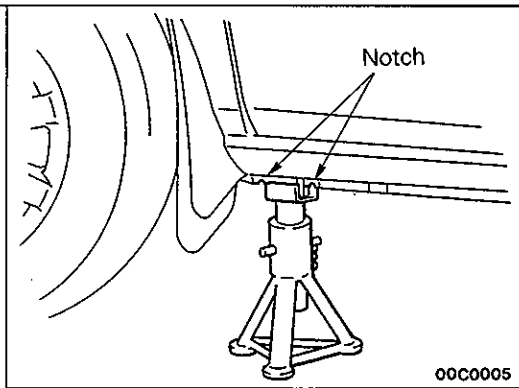

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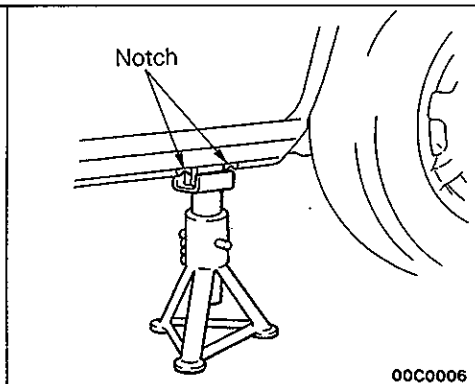

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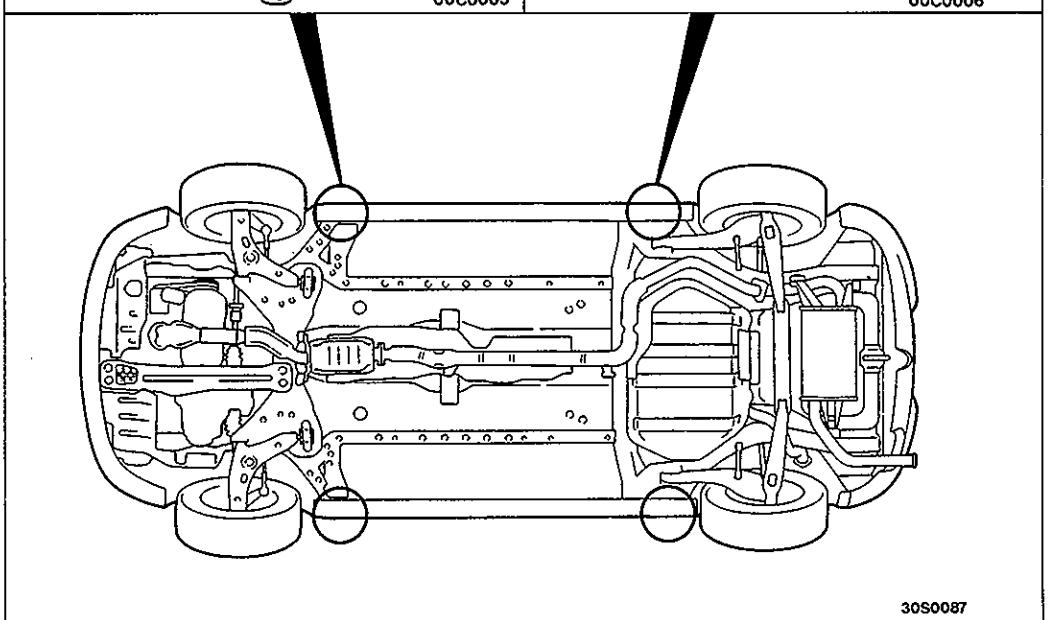

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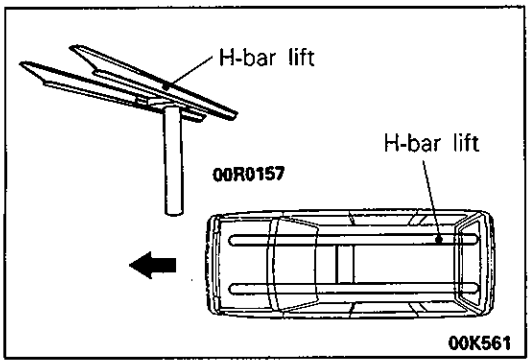
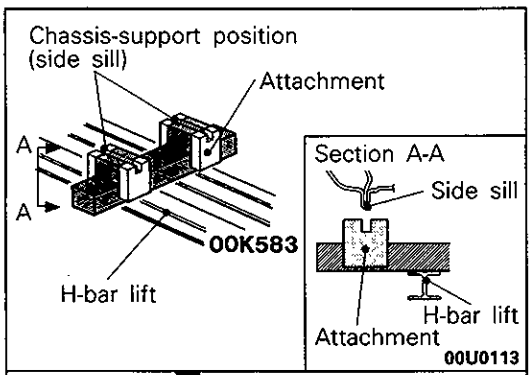
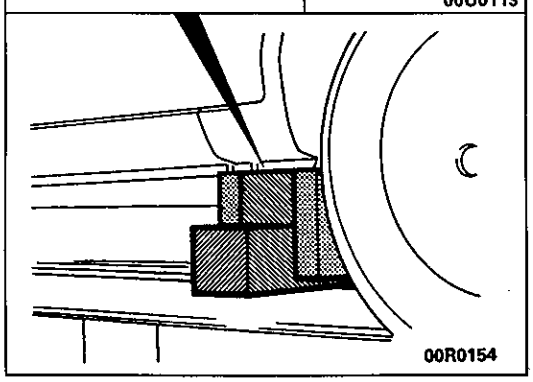






SUPPORT POSITIONS AND SUPPORT METHOD FOR H-BAR LIFT

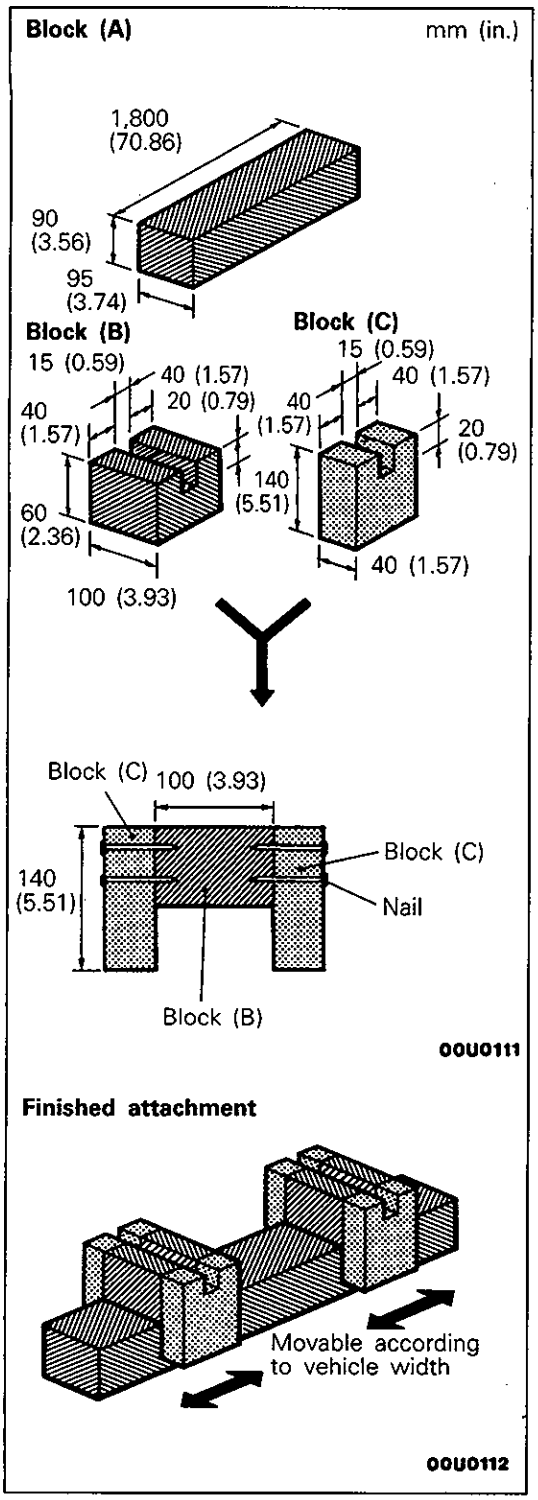
Caution
When service procedures require removing rear suspension, fuel tank, spare tyre and rear bumper, place additional weight on rear end of vehicle or anchor vehicle to hoist to prevent tipping of centre of gravity changes.

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. When making the attachments, refer to the section concerning making them.

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 (in.)	Quantity
Block (A)	90 × 95 × 1,800 (3.54 × 3.74 × 70.86)	2
Block (B)	60 × 100 × 95 (2.36 × 3.93 × 3.74)	4
Block (C)	140 × 40 × 95 (5.51 × 1.57 × 3.74)	8
Nail	70 (2.76) or more	32

Caution
The wood selected for the blocks must be hard.

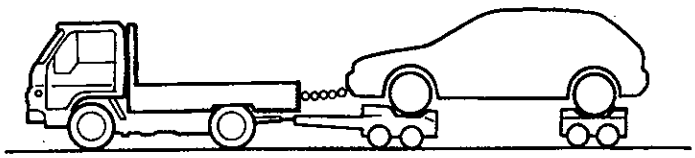
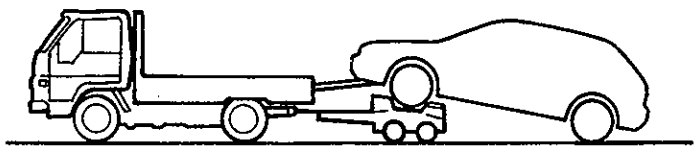
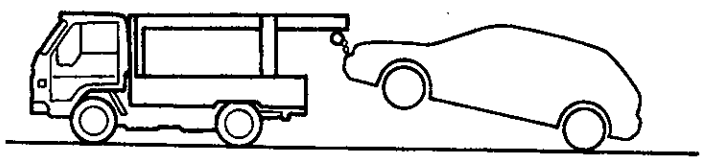
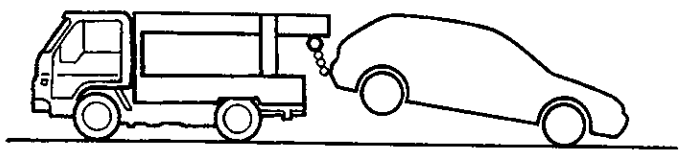
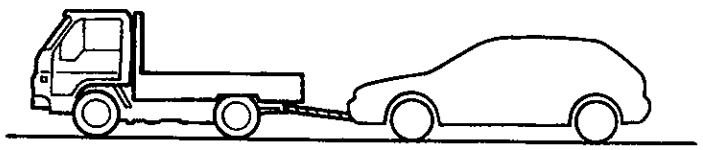
(2) For the (B) blocks and (C) blocks, use a saw and chisel or similar tool to make grooves of the dimensions shown in the figure.

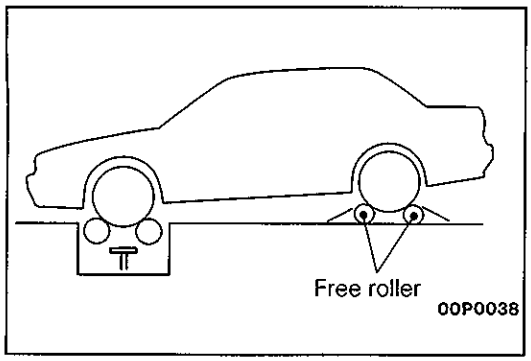
(3) Make four "ATTACHMENTS" such as shown in the figure, nailing (B) and (C) blocks so that each (B) block is sandwiched between (C) blocks.

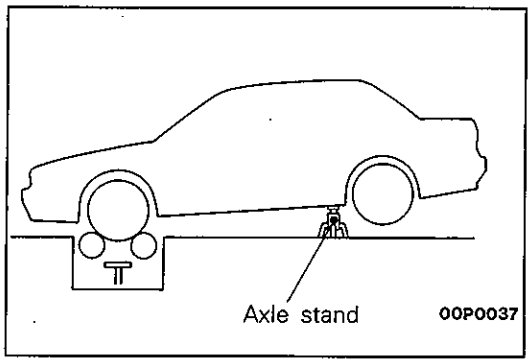
SPECIAL HANDLING INSTRUCTIONS FOR 4WD MODELS

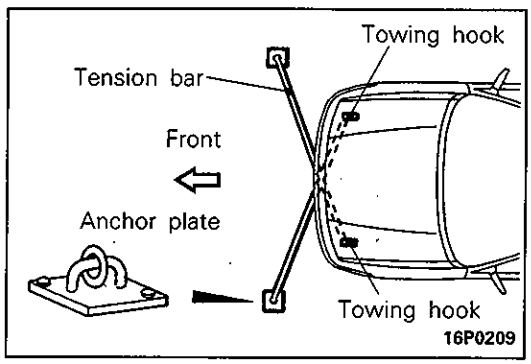
E01QAAB

TOWING

Towing methods	Remarks
If a tow truck is used Lifting method for 4 wheels – **Good** 	• For 4WD models, the basic principle is that all four wheels are to be raised before towing. • Move the shift lever to 1st (manual transmission) or the selector lever to the "P" position (automatic transmission). • The parking brake should be applied.
Front wheels lifted – **No good** 	• The vehicle must not be towed by placing only its front wheels or only the rear wheels on a rolling dolly, because to do so will result in deterioration of the viscous coupling and result in the viscous coupling causing the vehicle to jump forward suddenly.
Front wheels lifted – **No good** 	• If only the front wheels or only the rear wheels are lifted for towing, the bumper will be damaged. In addition, lifting of the rear wheels causes the oil to flow forward, and may result in heat damage to the rear bushing of the transfer, and so should never be done.
Rear wheels lifted – **No good** 	
Towing by rope or cable – **Good**  00S0054	• The front and rear wheels must rotate normaly. • The various mechanisms must function normally. • Move the shift lever to neutral (manual transmission) or the selector lever to the "N" position (automatic transmission). • The ignition key must be set to "ACC". **Caution** **The towing speed for vehicles with automatic transmission should be 50 km/h (31 mph) or less, and the towing distance should be 50 km (31 miles) or less.**







SPEEDOMETER TEST

IF A FREE ROLLER IS USED

1. Set the free roller on the floor (at the rear wheels) so that it is aligned with the vehicle's wheelbase and the rear tread.
2. Carefully move the vehicle onto the tester and free roller.
3. Set the speedometer tester in place.
4. Perform the speedometer test.
   For information concerning the measurement speed and the allowable error, refer to GROUP 54 – Meters and Gauges.

Caution
Do not operate the clutch suddenly, or increase or reduce speed suddenly during the work.

IF THE REAR WHEELS ARE JACKED UP

1. Move the vehicle onto the speedometer tester.
2. Jack up the rear wheels, and place axle stands at the designated part of the side sill.
3. Perform the speedometer test.
   For information concerning the measurement speed and the allowable error, refer to GROUP 54 – Meters and Gauges.

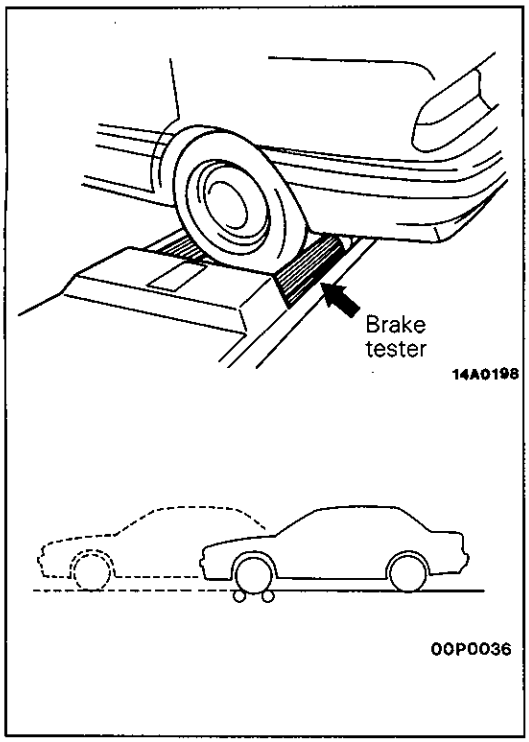
Caution
Do not operate the clutch suddenly, or increase or reduce speed suddenly during the work.

Front wheel side slip

To prevent the front wheels from moving from side to side, attach tension bars to the towing hooks, and secure both ends at anchor plates.

Accident prevention procedures

(1) Attach a chain or wire to the rear traction hook. Make sure the end of the wire or chain is secured firmly.
(2) Take all other necessary precautions.



BRAKE TEST

In order to stabilize the viscous coupling's dragging force, the brake test should always be conducted after the speedometer test.

FRONT WHEEL MEASUREMENTS

1. Place the front wheels on the brake tester.
2. Perform the brake test.

   Caution
   The rear wheels should remain on the ground.

3. If the brake dragging force exceeds the specified value, jack up the vehicle and manually rotate each wheel to check the rotation condition of each wheel.

   NOTE
   If the brake dragging force exceeds the specified value, the cause may be the effect of the viscous coupling's dragging force, so jack up the front wheels and check the rotation condition of the wheels in this state for no effect by the viscous coupling's dragging force.

REAR WHEEL MEASUREMENTS

After placing the rear wheels on the brake tester, follow the same procedures as for the front wheel measurements.

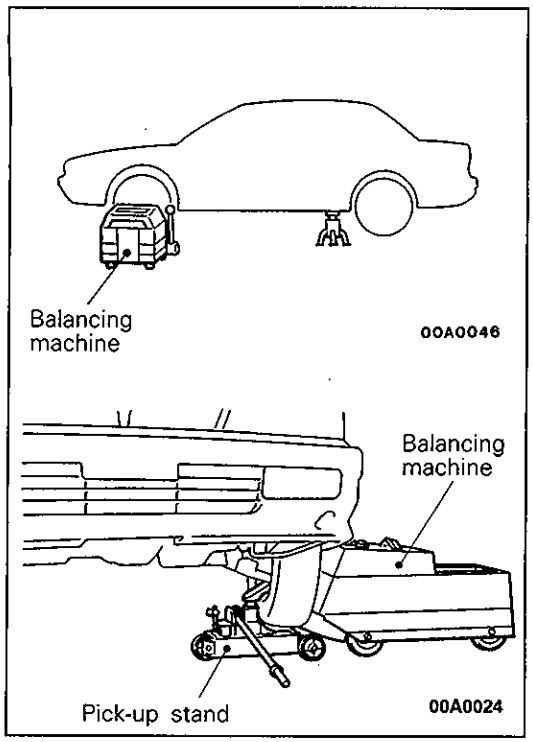
Brake force of 4WD models with VCU

If both front wheels are locked and rear wheel measurement is difficult, the measurement in this condition can be considered to comprise the total.

		Brake force	
Rear wheel	Left/right sum	At 90 kg (198 lbs.) pedal depression force	20% or more of rear axle weight
	Left/right difference	8% or less of rear axle weight	
Total		At 90 kg (198 lbs.) pedal depression force	50% or more of vehicle weight

or...

Braking-stop distance	At primary velocity of 50 km/h (31 mph) : Within 15.0 m (49.2 ft.)



WHEEL BALANCE

FRONT WHEEL MEASUREMENTS

1. Jack up the rear wheels, and place an axle stand at the designated part of the side sill.
2. Jack up the front wheels and set a pick-up stand and balancing machine in place.

   Caution
   1. **Set so that the front and rear of the vehicle are at the same height.**
   2. **Release the parking brake.**
   3. **Rotate each wheel manually and check to be sure that there is no dragging.**
3. Use the engine to drive the tyres, and then make the measurement.

   Caution
   1. **If an error is indicated in the state of engine drive, motor drive can be used concurrently.**
   2. **Do not operate the clutch suddenly, or increase or reduce speed suddenly during the work.**

REAR WHEEL MEASUREMENTS

1. Jack up the front wheels, and place an axle stand at the designated part of the side sill.
2. Jack up the rear wheels, and then, after setting a pick-up stand and balancing machine in place, follow the same procedure as for front wheel measurements.

STANDARD PARTS-TIGHTENING-TORQUE TABLE

E01MA--

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

Bolt nominal diameter (mm)	Pitch (mm)	Torque Nm (kgm, ft.lbs.)		
		Head mark ④	Head mark ⑦	Head mark ⑧
M5	0.8	2.5 (0.25, 1.8)	5 (0.5, 3.6)	6 (0.6, 4.3)
M6	1.0	5 (0.5, 3.6)	9 (0.9, 6.5)	10 (1.0, 7.2)
M8	1.25	12 (1.2, 8.7)	22 (2.2, 16)	25 (2.5, 18)
M10	1.25	24 (2.4, 17)	45 (4.5, 33)	53 (5.3, 38)
M12	1.25	42 (4.2, 30)	83 (8.3, 60)	98 (9.8, 71)
M14	1.5	73 (7.3, 53)	140 (14.0, 101)	160 (16.0, 116)
M16	1.5	113 (11.3, 82)	210 (21.0, 152)	240 (24.0, 174)
M18	1.5	170 (17.0, 123)	310 (31.0, 224)	350 (35.0, 253)
M20	1.5	230 (23.0, 166)	420 (42.0, 304)	490 (49.0, 354)
M22	1.5	310 (31.0, 224)	570 (57.0, 412)	660 (66.0, 477)
M24	1.5	400 (40.0, 289)	750 (75.0, 542)	870 (87.0, 629)

Flange bolt and nut tightening torque

Bolt nominal diameter (mm)	Pitch (mm)	Torque Nm (kgm, ft.lbs.)		
		Head mark ④	Head mark ⑦	Head mark ⑧
M6	1.0	5 (0.5, 3.6)	10 (1.0, 7.2)	12 (1.2, 8.7)
M8	1.25	13 (1.3, 9.4)	24 (2.4, 17)	28 (2.8, 20)
M10	1.25	26 (2.6, 19)	50 (5.0, 36)	58 (5.8, 42)
M10	1.5	24 (2.4, 17)	45 (4.5, 33)	55 (5.5, 40)
M12	1.25	47 (4.7, 34)	95 (9.5, 69)	105 (10.5, 76)
M12	1.75	43 (4.3, 31)	83 (8.3, 60)	98 (9.8, 71)

Taper thread tightening torque

Thread size	Torque Nm (kgm, ft.lbs.)	
	Female thread material: Light alloy	Female thread material: Steel
NPTF 1/6	7 (0.7, 5.0)	10 (1.0, 7.2)
PT 1/8	10 (1.0, 7.2)	18 (1.8, 13)
PT 1/4, NPTF 1/4	25 (2.5, 18)	40 (4.0, 29)
PT 3/8	48 (4.8, 35)	68 (6.8, 49)

NOTE: NPTF is dry seat pipe thread, while PT is pipe thread.

MAIN SEALANT AND ADHESIVE TABLE

E01RA--

Application	Recommended brand
1. Sealants for engine accessories	
(1) Sealing between rocker cover and camshaft bearing cap (4G6 DOHC and 6G7 engines only)	3M ATD Part No. 8660 or equivalent
(2) • Sealing between semi-circular packing and rocker cover and between semi-circular packing and cylinder head • Oil pressure switch (except 4G1 and 6G7 engines)	3M ATD Part No. 8660 or equivalent
(3) Engine coolant temperature switch, Engine coolant temperature sensor, Thermo valve, Thermo switch, Joints, Engine coolant temperature gauge unit (large size)	3M Nut Locking Part No. 4171 or equivalent
(4) Engine coolant temperature gauge unit (small size, MD091056 only)	3M ATD Part No. 8660 or equivalent
(5) Oil pan (except 4G5, 4G9 engine)	MITSUBISHI GENUINE Part No. MD997110 or equivalent
(6) Oil pan, Water pump, Thermostat case (4G9 engine only)	MITSUBISHI GENUINE Part No. MD970389 or equivalent
2. Sealing between glass and weatherstrip	
(1) • Sealing between tempered glass and weatherstrip	3M ATD Part No. 8513 or equivalent
• Sealing between body flange and weatherstrip	3M ATD Part No. 8509 or equivalent
(2) Sealing between laminated glass and weatherstrip	3M ATD Part No. 8509 or equivalent

Application	Recommended brand
3. Adhesion with ribbon sealer • Waterproof film for door • Fender panel • Splash shield • Mud guard • Rear combination lamp	3M ATD Part No. 8625 or equivalent
4. Adhesives for interior trim	
(1) Adhesion of polyvinyl-chloride sheet	3M Part No. EC-1368 or equivalent
(2) Adhesion of door weatherstrip to body	3M ATD Part No. 8001 or 3M ATD Part No. 8011 or equivalent
(3) Sealing between grommet or packing and metal seal	3M ATD Part No. 8513 or equivalent
(4) • Adhesion of headlining and other interior trim materials • Adhesion of fuel tank to pad	3M Part No. EC-1368 or 3M ATD Part No. 8080 or equivalent
5. Body sealant • Sealing of sheet metal, drip rail, floor, body side panel, trunk, front panel and the like joints • Sealing of tailgate hinges	3M ATD Part No. 8531 or 3M ATD Part No. 8646 or equivalent

Application	Recommended brand
6. Chassis sealant (1) ● Sealing of flange surfaces and threaded portions ● Fuel gauge unit packing	3M ATD Part No. 8082 or equivalent
(2) Sealing of flange surfaces, threaded portions, packing and dust cover ● Differential carrier packing ● Dust covers for ball joint and linkage ● Steering gear box packing and shims ● Steering gear housing rack support cover and top cover ● Mating surface of knuckle arm flange	3M ATD Part No. 8661 or equivalent
(3) Sealing between accelerator arm bracket and toeboard	Drying sealant
(4) Sealant for drum brake shoe hold-down pin and wheel cylinder	3M ATD Part No. 8513 or equivalent
7. Fast bonding adhesive Adhesion of all materials except polyethylene, polypropylene, fluorocarbon resin or other materials with highly absorbent surface	3M ATD Part No. 8121 or equivalent
8. Anaerobic fast bonding adhesives (1) Fixing of bolts and screws ● Tightening of drive gear to differential case ● Bolts for coupling tilt steering upper column with lower column (2) Fixing of bearing, fan, pulley and gear connections (3) Sealing of small recess or flange surface	3M Stud locking Part No. 4170 or equivalent
9. Undercoat	3M ATD Part No. 8864, No. 8877 or equivalent

NOTES