E01CA--

GENERAL

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NOTES

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 onvehicle 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 TERMSSTANDARD 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 ±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

- 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 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.

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

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.



ı: Grease

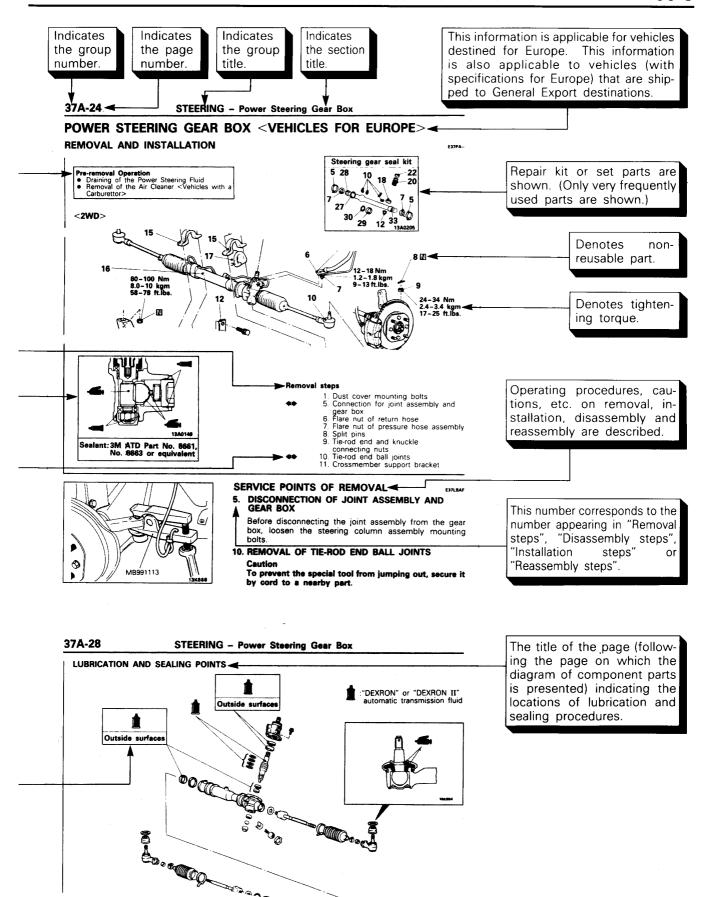
(multipurpose grease unless there is a brand or type specified)

: Sealant or adhesive

Brake fluid or automatic transmission fluid

: Engine oil, gear oil or air conditioner compressor oil

Adhesive tape or butyl rubber tape



May 1991

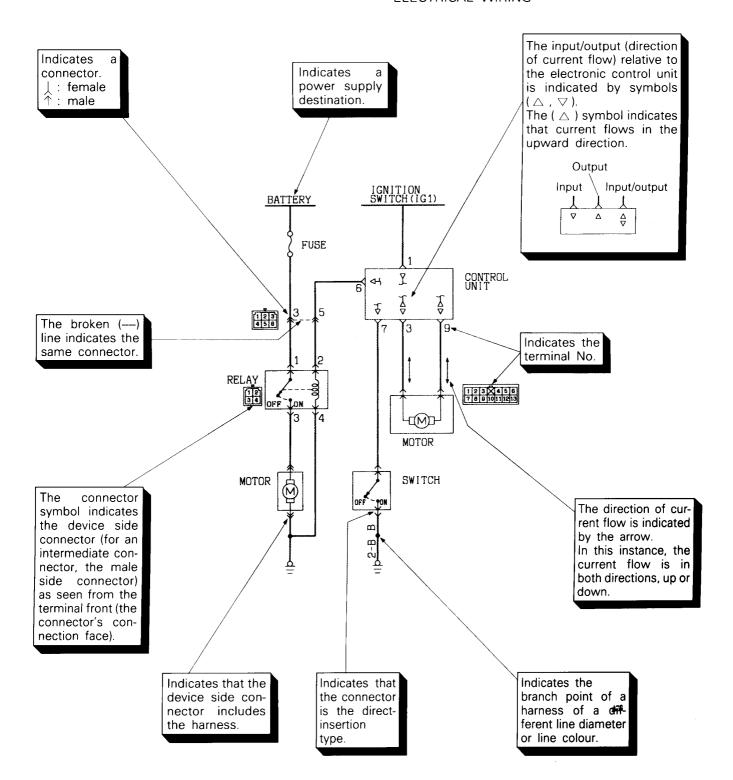
PWDE9104

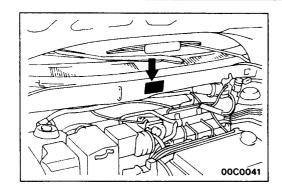
EXPLANATION OF CIRCUIT DIAGRAMS

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"





MITSUBISHI MOTORS CORPORATION MODEL ENGINE ENGINE TRANS AXLE COLOR. INT OPT ODEO042

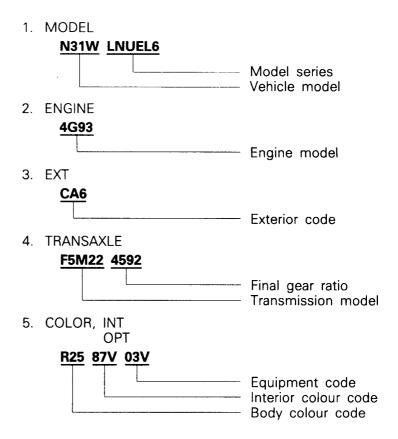
VEHICLE IDENTIFICATION VEHICLE INFORMATION CODE PLATE LOCATION

E01DD--

Vehicle information code plate is riveted on the upper frame outer panel (Centre).

CODE PLATE DESCRIPTION

The plate shows model code, engine model, transmisson model, and 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 < Vehicles built up to May, 1992>

E01DA--

<SPACE RUNNER>

Model Code		Engine model	Transmission model	Fuel supply system
SNJEL6/R6 SNUEL6/R6 N11W SNUEBR6 SRUEL6/R6 SRUEBR6				
		F5M22 (2WD-5M/T)	MADI	
	4G93			
	SRUEL6/R6	[1,834 cm³ (111.9 cu.in.)]	E4400 (0)4/D 44/F)	MPI
		F4A22 (2WD-4A/T)		
N21W	21W SNUEL6/R6		W5M31 (4WD-5M/T)	

<SPACE WAGON>

Model Code		Engine model	Transmission model	Fuel supply system	
	LNUEL6/R6		FENANO (ONAID FNAIT)		
N31W LR	LNUEBL6/R6	4G93	F5M22 (2WD-5M/T)	MPI	
	LRUEL6/R6	[1,834 cm³ (111.9 cu.in.)]	E4460 (0)4(D 44 F)		
	LRUEBL6/R6		F4A22 (2WD-4A/T)		
N35W	LNUTL6/R6	4D65 with a turbocharger [1,795 cm³ (109.5 cu.in.)]	F5M31 (2WD-5M/T)	Injection	
LNUEL6/R6		4G93	W5M31 (4WD-5M/T)	MDI	
N41W	LRUEL6/R6	[1,834 cm³ (111.9 cu.in.)]	W4A32 (4WD-4A/T)	→ MPI	

MODELS < Vehicles built from June, 1992> < SPACE RUNNER>

E01DA--

Model Code E		Engine model	Transmission model	Fuel supply system	
SNJEL6/R6 4G93 N11W SNUEL6/R6 11.834 c			F5M22 (2WD-5M/T)	MPI	
		4G93 [1,834 cm³ (111.9 cu.in.)]	1 310122 (2000-3101/1)		
11	SRUEL6/R6		F4A22 (2WD-4A/T)		
N18W	SNJTL6/R6	4D68 with a turbocharger [1,998 cm³ (121.9 cu.in.)]	F5M31 (2WD-5M/T)	Fuel Injection Pump	
N21W	SNUEL6/R6	4G93 [1,834 cm³ (111.9 cu.in.)]	W5M31 (4WD-5M/T)	MPI	

<SPACE WAGON>

Model Code		Engine model	Transmission model	Fuel supply system	
	LNUEL6/R6		F5M22 (2WD-5M/T)		
N33W	LRUEL6/R6	4G63	F4A22 (2WD-4A/T)		
142244	LNSEL6	[1,997 cm ³ (121.9 cu.in.)]	F5M22 (2WD-5M/T)	MPI	
	LRSEL6		F4A22 (2WD-4A/T)	IVIFI	
N34W	LNUEL6	4G64	F5M31 (2WD-5M/T)		
113477	LRUEL6	[2,350 cm ³ (143.4 cu.in.)]	F4A23 (2WD-4A/T)		
N38W	LNUTL6/R6	4D68 with a turbocharger [1,998 cm³ (121.9 cu.in.)]	F5M31 (2WD-5M/T)	Fuel Injection Pump	
	LNUEL6/R6		W5M31 (4WD-5M/T)		
N43W	LRUEL6/R6	4G63	W4A32 (4WD-4A/T)	MPI	
	LNSEL6	[1,997 cm ³ (121.9 cu.in.)]	W5M31 (4WD-5M/T)	IVIFI	
	LRSEL6		W4A32 (4WD-4A/T)		

MODEL CODE E01DB-

1. Development order, driving wheels

N11 - 1,834 cm³ (111.9 cu.in.), 2WD

N18 - 1,998 cm3 (121.9 cu.in.), 2WD

N21 - 1,834 cm³ (111.9 cu.in.), 4WD

N31 - 1,834 cm³ (111.9 cu.in.), 2WD

N33 - 1,997 cm³ (121.9 cu.in.), 2WD

N34 - 2,350 cm³ (143.4 cu.in.), 2WD

N35 - 1,795 cm³ (109.5 cu.in.), 2WD

N38 - 1,998 cm³ (121.9 cu.in.), 2WD

N41 - 1,834 cm³ (111.9 cu.in.), 4WD

N43 - 1,997 cm³ (121.9 cu.in.), 4WD

- 2. Sort W Wagon
- 3. Body style

S – 3-door station wagon

L - 4-door station wagon

4. Transmission type

N – 5-speed manual transmission

R – 4-speed automatic transmission

5. Trim level

J - GL

U - GLX

S - N1

6. Specified engine feature

E - Electronic injection

T – Turbocharger

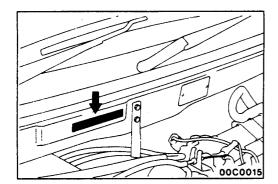
7. Steering wheel location

L, BL - Left hand

R, BR - Right hand

8. Destination

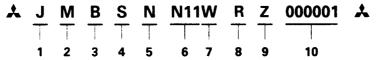
6 – For Europe



CHASSIS NUMBER

E01DCAWa

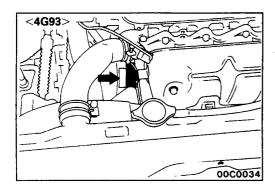
The chassis number is stamped on the toeboard inside the engine compartment.

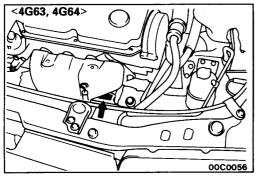


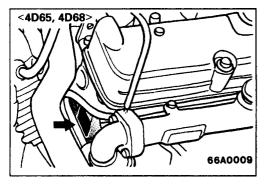
- 1. Asia
- 2. Japan
- 3. MITSUBISHI
 - A For Europe, right hand drive B - For Europe, left hand drive
- 4. Body style
 - S 3-door station wagon L 4-door station wagon
- 5. Transmission type
 - N 5-speed manual transmission
 - R 4-speed automatic transmission

- 6. Development order
 - N11 1,800 cm³ (109.8 cu.in.)
 - N18 2,000 cm³ (122.0 cu.in.), Diesel
 - N21 1,800 cm3 (109.8 cu.in.), Full Time 4WD
 - N31 1,800 cm³ (109.8 cu.in.)
 - N33 2,000 cm³ (122.0 cu.in.)
 - N34 2,400 cm³ (146.5 cu.in.)
 - N35 1,800 cm³ (109.8 cu.in.), Diesel
 - N38 2,000 cm³ (122.0 cu.in.), Diesel
 - N41 1,800 cm³ (109.8 cu.in.), Full Time 4WD
 - N43 2,000 cm3 (122.0 cu.in.), Full Time 4WD
- 7. Body style
 - W Wagon
- 8. Model year
 - N 1992
 - P 1993
 - R 1994
- 9. Plant
 - Z Okazaki Plant of Nagoya Motor Vehicle Works
- 10. Serial number

Jun. 1993







ENGINE MODEL NUMBER

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

Engine model	Engine displacement	cm³ (cu.in.)
4G93	1,834 (111.9)	
4G63	1,997 (121.9)	
4G64	2,350 (143.4)	
4D65	1,795 (109.5)	
4D68	1,998 (121.9)	

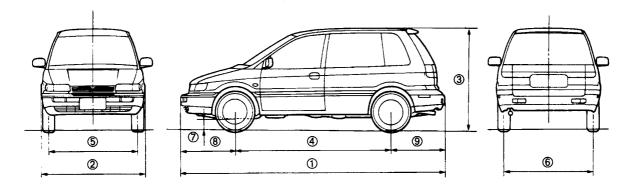
2. The engine serial number is stamped near the engine model number, and the serial number cycles, as shown belows.

E	Engine serial number cycling	9
AA0201		AB0001
L→AY9999	BA0001	>YY9999

MAJOR SPECIFICATIONS < Vehicles built up to May, 1992>

E01FA--

<SPACE RUNNER>

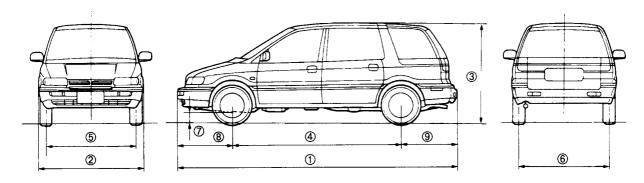


66C0031

Model		N11W			
Items	SNJEL6/R6	SNUEL6/R6 SNUEBR6	SRUEL6/R6 SRUEBR6	SNUEL6/R6	
Dimensions mm (in.) Overall length ① Overall width ② Overall height (unladen) ③ Wheelbase ④ Track – front ⑤ Track – rear ⑥ Ground clearance (laden) ⑦ Overhang – front ⑧ Overhang – rear ⑨		4,290 (168.9) 1,695 (66.7) 1,640 (64.6) or 1,680 (66.1)*1 2,520 (99.2) 1,455 (57.3) 1,460 (57.5) 120 (4.7) 895 (35.2) 875 (34.4)			
Weight kg (lbs.) Kerb weight*2 Gross vehicle weight Max. axle weight front rear	1,175-1,279 (2,590-2,820) 1,720 (3,792) 930 (2,050) 910 (2,006)	1,185 – 1,288 (2,612 – 2,840) 1,720 (3,792) 930 (2,050) 910 (2,006)	1,205 – 1,308 (2,657 – 2,884) 1,720 (3,792) 930 (2,050) 910 (2,006)	1,280 – 1,379 (2,822 – 3,040) 1,800 (3,968) 950 (2,094) 980 (2,161)	
Seating capacity		Ę	5		
Engine Model Total displacement cm³ (cu. in.)	4G93 1,834 (111.9)				
Transmission Model Type	F5M22 5-speed	manual	F4A22 4-speed automatic	W5M31 5-speed manual	

NOTE
*1: with roof rail
*2: without optional parts – with full optional parts

<SPACE WAGON>



66C0032

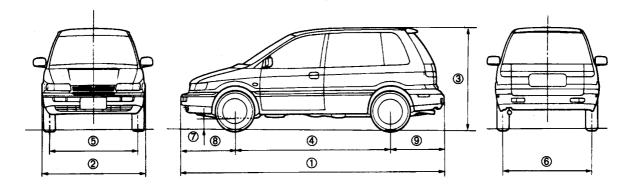
Model	N3	1W	N35W	N4	1W
Items	LNUEL6/R6 LNUEBL6/R6	LRUEL6/R6 LRUEBL6/R6	LNUTL6/R6	LNUEL6/R6	LRUEL6/R6
Dimensions mm (in.) Overall length ① Overall width ② Overall height (unladen) ③ Wheelbase ④ Track - front ⑤ Track - rear ⑥ Ground clearance (laden) ⑦ Overhang - front ③ Overhang - rear ⑨		4,515 (177.8) 1,695 (66.7) 1,580 (62.2) or 1,615 (63.6)*1 2,720 (107.1) 1,460 (57.5) 1,460 (57.5) 120 (4.7) 895 (35.2) 900 (35.4)		4,515 (1,695 (1,595 (1,630 (2,720 (1,455 (1,460 (120 (4. 895 (38 900 (38	66.7) 62.8) or 64.2)*1 107.1) 57.3) 57.5) 7)
Weight kg (lbs.) Kerb weight*2 Gross vehicle weight Max. axle weight front rear	1,245 – 1,353 (2,745 – 2,983) 1,950 (4,299) 1,010 (2,227) 1,050 (2,315)	1,265 – 1,373 (2,789 – 3,027) 1,950 (4,299) 1,010 (2,227) 1,050 (2,315)	1,285 – 1,393 (2,833 – 3,071) 1,915 (4,222) 1,010 (2,227) 1,050 (2,315)	1,330-1,438 (2,932-3,170) 2,040 (4,497) 1,020 (2,249) 1,090 (2,403)	1,360 – 1,468 (2,998 – 3,236) 2,040 (4,497) 1,020 (2,249) 1,090 (2,403)
Seating capacity			7		
Engine Model Total displacement cm³ (cu. in.)	4G93 1,834	(111.9)	4D65 with a turbocharger 1,795 (109.5)	4G93 1,834	(111.9)
Transmission Model Type	F5M22 5-speed manual	F4A22 4-speed automatic	F5M31 5-speed manual	W5M31 5-speed manual	W4A32 4-speed automatic

NOTE
*1: with roof rail
*2: without optional parts – with full optional parts

MAJOR SPECIFICATIONS < Vehicles built up to April, 1993>

E01FA--

<SPACE RUNNER>



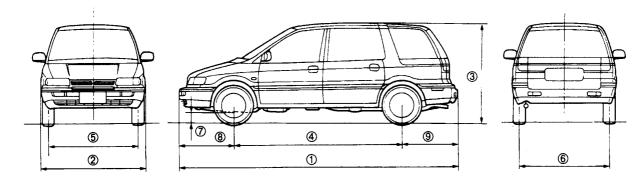
66C0031

	1	N/4/1/4/	•	NICOLAL	NOGVA
Model		N11W		N18W	N21W
Items	SNJEL6/R6	SNUEL6/R6	SRUEL6/R6	SNJTL6/R6	SNUEL6/R6
Dimensions mm (in.) Overall length ① Overall width ② Overall height (unladen)③ Wheelbase ④ Track – front ⑤ Track – rear ⑥ Ground clearance (laden) ⑦ Overhang – front ⑧		4,290 (168.9) 1,695 (66.7) 1.625 (64.0) or 1,665 (65.6)*1 2,520 (99.2) 1,460 (57.5) 1,460 (57.5) 120 (4.7) 895 (35.2) 875 (34.4)		4,265 (167.9) 1,695 (66.7) 1,625 (64.0) or 1,665 (65.6)*1 2,520 (99.2) 1,460 (57.5) 1,460 (57.5) 120 (4.7) 870 (34.3) 875 (34.4)	4,290 (168.9) 1,695 (66.7) 1,640 (64.6) or 1,680 (66.1)*1 2,520 (99.2) 1,455 (57.3) 1,460 (57.5) 120 (4.7) 895 (35.2) 875 (34.4)
Weight kg (lbs.) Kerb weight*2 Gross vehicle weight Max. axle weight front rear	1,175–1,290 (2,590–2,844) 1,720 (3,792) 930 (2,050) 910 (2,006)	1,185–1,304 (2,612 – 2,875) 1,720 (3,792) 930 (2,050) 910 (2,006)	1,205–1,324 (2,657–2,919) 1,720 (3,792) 930 (2,050) 910 (2,006)	1,250–1,350 (2,756–2,976) 1,760 (3,880) 970 (2,138) 910 (2,006)	1,245–1,395 (2,745–3,075) 1,800 (3,968) 950 (2,094) 980 (2,161)
Seating capacity			5		
Engine Model Total displacement cm³ (cu. in.)		4G93 1,834 (111.9)		4D68 with a turbocharger 1,998 (121.9)	4G93 1,834 (111.9)
Transmission Model Type	F5M22 5-speed	l manual	F4A22 4-speed automatic	F5M31 5-speed manual	W5M31 5-speed manual

NOTE

^{*1:} with roof rail
*2: without optional parts – with full optional parts

<SPACE WAGON>



66C0032

Model		N33W				34W
Items	LNUEL6/R6	LRUEL6/R6	LNSEL6	LRSEL6	LNUEL6	LRUEL6
Dimensions mm (in.) Overall length ① Overall width ② Overall height (unladen) Wheelbase ④ Track – front ⑤ Track – rear ⑥ Ground clearance (laden) ⑦ Overhang – front ⑥	4,515 (177.8) 1,695 (66.7) 1,580 (62.2) or 1,615 (63.6)*1 2,720 (107.1) 1,460 (57.5) 1,460 (57.5) 120 (4.7) 895 (35.2) 900 (35.4)					
Weight kg (lbs.) Kerb weight*2 Gross vehicle weight Max. axle weight front rear	1,295–1,396 (2,855–3,078) 1,980 (4,365) 1,975 (4,354)*3 1,010 (2,227) 1,050 (2,315)	1,315-1,416 (2,899-3,122) 1,980 (4,365) 1,975 (4,354)*3 1,010 (2,227) 1,050 (2,315)	2,205 (4,861)	1,315–1,416 (2,899–3,122) 2,205 (4,861) 1,120 (2,469) 1,120 (2,469)	1,920 (4,233)	1,920 (4,233)
Seating capacity	1,030 (2,313)	1,000 (2,010)		7	1,050 (2,315)	1,050 (2,315)
Engine Model Total displacement cm³ (cu. in.)	4G63 1,997 (121.9) 4G64 2,350 (143.4)					
Transmission Model Type	F5M22 5-speed manual	F4A22 4-speed automatic	F5M22 5-speed manual	F4A22 4-speed automatic	F5M31 5-speed manual	F4A23 4-speed automatic

NOTE
*1: with roof rail
*2: without optional parts – with full optional parts
*3: vehicles for Denmark.

Model	N38W		N4	3W	
Items	LNUTL6/R6	LNUEL6/R6	LRUEL6/R6	LNSEL6	LRSEL6
Dimensions mm (in.) Overall length ① Overall width ② Overall height (unladen)③ Wheelbase ④ Track – front ⑤ Track – rear ⑥ Ground clearance (laden) ①	4,490 (176.8) 1,695 (66.7) 1.580 (62.2) or 1,615 (63.6)*1 2,720 (107.1) 1,460 (57.5) 1,460 (57.5)	4,515 (177.8) 1,695 (66.7) 1,595 (62.8) or 1,630 (64.2)*1 2,720 (107.1) 1,455 (57.3) 1,460 (57.5)			
Overhang – front ® Overhang – rear ®	870 (34.3) 900 (35.4)	895 (35.2) 900 (35.4)			
Weight kg (lbs.) Kerb weight* ² Gross vehicle weight Max. axle weight front rear	1,330–1,431 (2,932–3,155) 1,960 (4,321) 1,010 (2,227) 1,050 (2,315)	1,380–1,481 (3,042–3,265) 2,070 (4,564) 2,075 (4,575)* ³ 1,020 (2,249) 1,090 (2,403)	1,410–1,511 (3,109–3,331) 2,070 (4,564) 2,075 (4,575)* ³ 1,020 (2,249) 1,090 (2,403)	1,380–1,481 (3,042–3,265) 2,205 (4,861) 1,120 (2,469) 1,120 (2,469)	1,410–1,511 (3,109–3,331) 2,205 (4,861) 1,120 (2,469) 1,120 (2,469)
Seating capacity	1,000 (2,010)	7			1,120 (2,100)
Engine Model Total displacement cm³ (cu. in.)	4D68 with a turbocharger 1,998 (121.9)	4G63 1,997 (121.9)			
Transmission Model Type	F5M31 5-speed manual	W5M31 5-speed manual	W4A32 4-speed automatic	W5M31 5-speed manual	W4A32 4-speed automatic

NOTE

*1: with roof rail

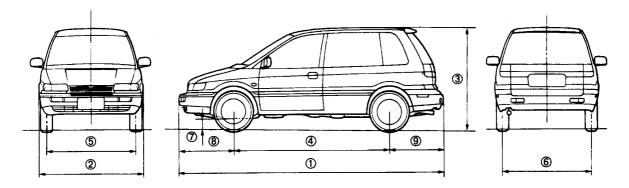
*2: without optional parts – with full optional parts

*3: vehicles for Denmark.

MAJOR SPECIFICATIONS < Vehicles built from May, 1993>

E01FA--

<SPACE RUNNER>

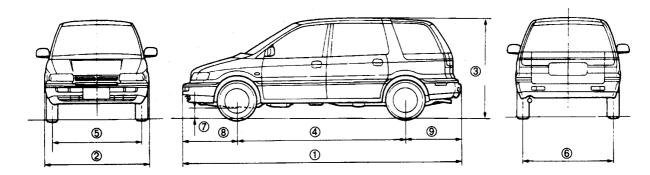


66C0031

Model		N11W		N18W	N21W
Items	SNJEL6/R6	SNUEL6/R6	SRUEL6/R6	SNJTL6/R6	SNUEL6/R6
Dimensions mm (in.) Overall length ① Overall width ② Overall height (unladen)③ Wheelbase ④ Track – front ⑤ Track – rear ⑥ Ground clearance	4,290 (168.9) 1,695 (66.7) 1,625 (64.0) or 1,665 (65.6)*1 2,520 (99.2) 1,460 (57.5) 1,460 (57.5)		4,265 (167.9) 1,695 (66.7) 1,625 (64.0) or 1,665 (65.6)*1 2,520 (99.2) 1,460 (57.5) 1,460 (57.5)	4,290 (168.9) 1,695 (66.7) 1,640 (64.6) or 1,680 (66.1)*1 2,520 (99.2) 1,455 (57.3) 1,460 (57.5)	
(laden) ⑦ Overhang – front ⑧ Overhang – rear ⑨		160 (6.3) 895 (35.2) 875 (34.4)		160 (6.3) 870 (34.3) 875 (34.4)	160 (6.3) 895 (35.2) 875 (34.4)
Weight kg (lbs.) Kerb weight*2 Gross vehicle weight Max. axle weight	1,190–1,290 (2,623–2,844) 1,720 (3,792)	1,205–1,304 (2,657–2,875) 1,720 (3,792)	1,225–1,324 (2,701–2,919) 1,720 (3,792)	1,250–1,350 (2,756–2,976) 1,760 (3,880)	1,300–1,395 (2,866–3,075) 1,800 (3,968)
front rear	930 (2,050) 910 (2,006)	930 (2,050) 910 (2,006)	930 (2,050) 910 (2,006)	970 (2,138) 910 (2,006)	950 (2,0 94) 980 (2,1 6 1)
Seating capacity			5		
Engine Model Total displacement cm³ (cu. in.)	4G93 1,834 (111.9)			4D68 with a turbocharger 1,998 (121.9)	4G93 1,834 (111.9)
Transmission Model Type	F5M22 5-speed manual		F4A22 4-speed automatic	F5M31 5-speed manual	W5M31 5-speed manual

NOTE
*1: with roof rail
*2: without optional parts – with full optional parts

<SPACE WAGON>



66C0032

Model		N3	3W		N3	4W
Items	LNUEL6/R6	LRUEL6/R6	LNSEL6	LRSEL6	LNUEL6	LRUEL6
Dimensions mm (in.) Overall length ① Overall width ② Overall height (unladen) ③ Wheelbase ④ Track – front ⑤ Track – rear ⑥ Ground clearance (laden) ⑦ Overhang – front ⑧ Overhang – rear ⑨			4,515 (177.8 1,695 (66.7) 1,580 (62.2) 1,615 (63.6) 2,720 (107.1,460 (57.5) 1,460 (57.5) 1,460 (6.3) 895 (35.2) 900 (35.4)	or *1		
Weight kg (lbs.) Kerb weight*2 Gross vehicle weight Max. axle weight front rear	1,295–1,396 (2,855–3,078) 1,980 (4,365) 1,975 (4,354)* ³ 1,010 (2,227) 1,050 (2,315)	1,315–1,416 (2,899–3,122) 1,980 (4,365) 1,975 (4,354)* ³ 1,010 (2,227) 1,050 (2,315)	1,295–1,396 (2,855–3,078) 2,205 (4,861) 1,120 (2,469) 1,120 (2,469)	2,205 (4,861)		1,325–1,426 (2,921–3,144) 1,980 (4,365) 1,010 (2,227) 1,050 (2,315)
Seating capacity				7		
Engine Model Total displacement cm³ (cu. in.)	ement 1,997 (121.9) 2,35			4G64 2,350	(143.4)	
Transmission Model Type	F5M22 5-speed manual	F4A22 4-speed automatic	F5M22 5-speed manual	F4A22 4-speed automatic	F5M31 5-speed manual	F4A23 4-speed automatic

- NOTE
 *1: with roof rail
 *2: without optional parts with full optional parts
 *3: vehicles for Denmark.

Model	N38W		N4	3W	
Items	LNUTL6/R6	LNUEL6/R6	LRUEL6/R6	LNSEL6	LRSEL6
Dimensions mm (in.) Overall length ① Overall width ② Overall height (unladen)③ Wheelbase ④ Track – front ⑤ Track – rear ⑥ Ground clearance	4,490 (176.8) 1,695 (66.7) 1.580 (62.2) or 1,615 (63.6)*1 2,720 (107.1) 1,460 (57.5) 1,460 (57.5)	4,515 (177.8) 1,695 (66.7) 1,595 (62.8) or 1,630 (64.2)*1 2,720 (107.1) 1,455 (57.3) 1,460 (57.5)			
(laden) ⑦ Overhang – front ⑧ Overhang – rear ⑨	160 (6.3) 870 (34.3) 900 (35.4)	160 (6.3) 895 (35.2) 900 (35.4)			
Weight kg (lbs.) Kerb weight*2 Gross vehicle weight Max. axle weight	1,330–1,431 (2,932–3,155) 1,960 (4,321)	1,380–1,481 (3,042–3,265) 2,070 (4,564) 2,075 (4,575)* ³	1,410–1,511 (3,109–3,331) 2,070 (4,564) 2,075 (4,575)*3	1,380–1,481 (3,042–3,265) 2,205 (4,861)	1,410–1,511 (3,109–3,331) 2,205 (4,861)
front rear	1,010 (2,227) 1,050 (2,315)	1,020 (2,249) 1,090 (2,403)	1,020 (2,249) 1,090 (2,403)	1,120 (2,469) 1,120 (2,469)	1,120 (2,469) 1,120 (2,469)
Seating capacity			7	7	
Engine Model Total displacement cm³ (cu. in.)	4D68 with a turbocharger 1,998 (121.9)		4G63 1,997	' (121.9)	
Transmission Model Type	F5M31 5-speed manual	W5M31 5-speed manual	W4A32 4-speed automatic	W5M31 5-speed manual	W4A32 4-speed automatic

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NOTE

*1: with roof rail

*2: without optional parts – with full optional parts

*3: vehicles for Denmark.

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.

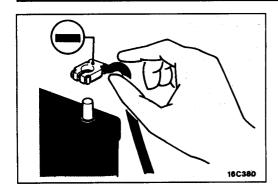
The air bag module should be stored on a flat surface and placed so that the pad surface is facing upward.

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.

NOTES



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 possiblity 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.

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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 tomporature:

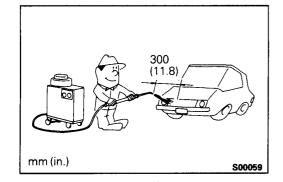
82°C (180°F) or less

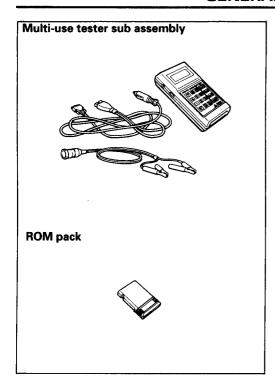
Spray temperature:

02 C (100 1 / 01 less

 Time of concentrated spray to one point:

within 30 sec.





MULTI-USE TESTER <Up to 1993 models>

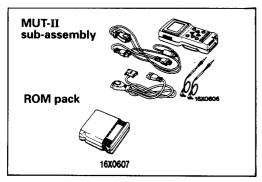
(1) To operate the MUT, refer to the "Multi-use Tester Operation Instructions".

Caution

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	1993 models



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.

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NOTES

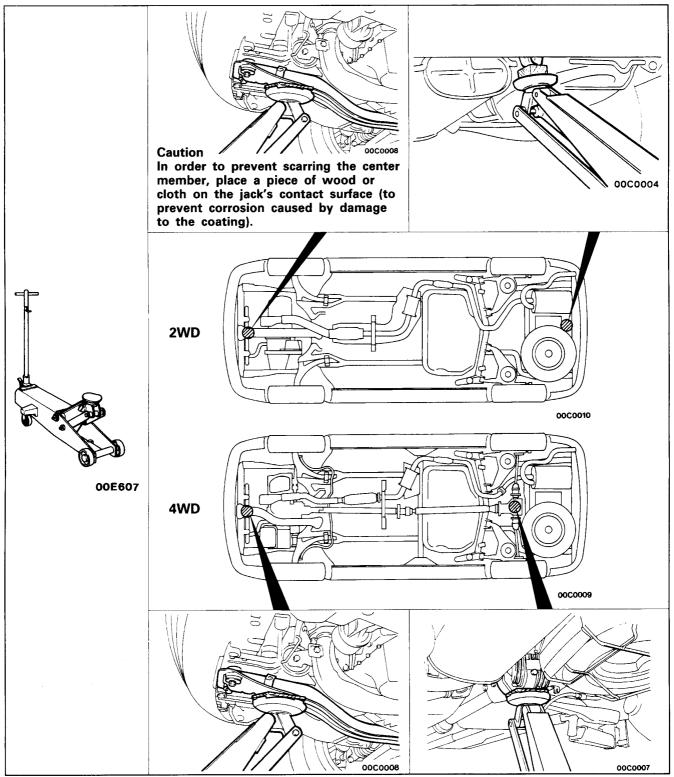
SUPPORT LOCATIONS FOR LIFTING AND JACKING

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



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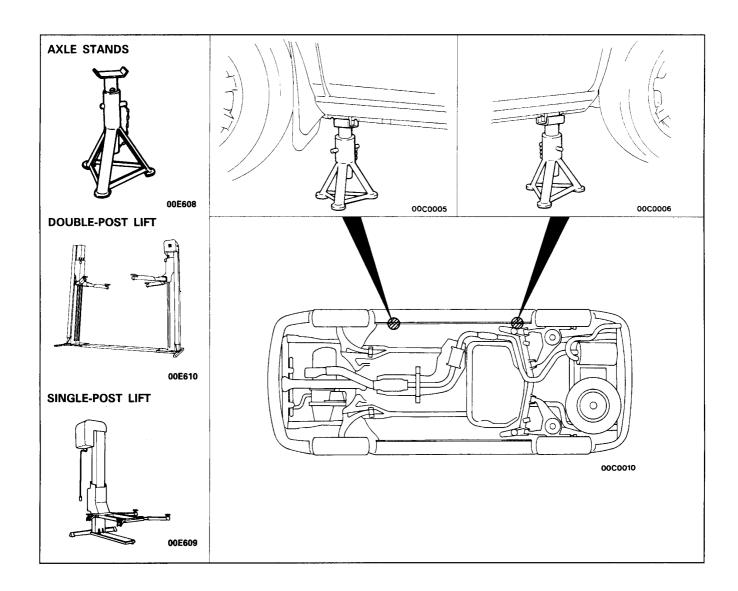
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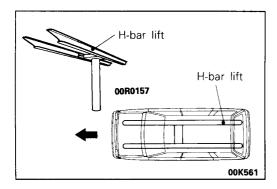
SUPPORT POSITIONS FOR AXLE STANDS, A SINGLE-POST LIFT OR DOUBLE-POST LIFT

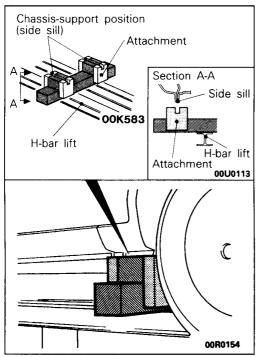
Caution

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.



May 1991





SUPPORT POSITIONS AND SUPPORT METHOD FOR AN H-BAR LIFT

Caution

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

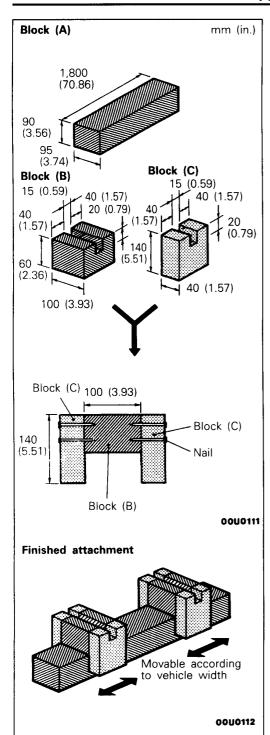
When H-bar lift is used to lift up vehicles, use of metallic attachment attached to the H-bar lift may cause damage to the suspension arm etc. Therefore, lift up the vehicle by the following procedure.

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

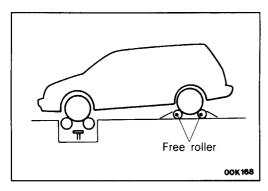
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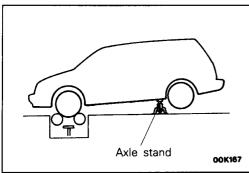
TOWING

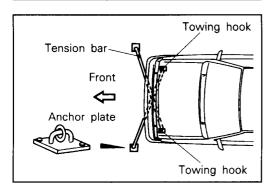
Remarks Towing methods • For 4WD models, the basic principle is If a tow truck is used that all four wheels are to be raised before Lifting method for 4 wheels - Good towing. • Move the shift lever to 1st (manual transmission) or the selector lever to the "P" position (automatic transmission). • The parking brake should be applied. 00K161 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. 00K162 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. 00K163 Rear wheels lifted - No good 00K164 • The front and rear wheels must rotate Towing by rope or cable - Good 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

00K165

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

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

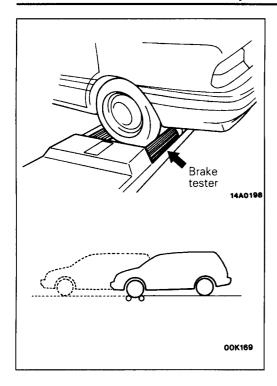
Do not operate the clutch suddenly, or increase or reduce speed suddenly during the work.

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.

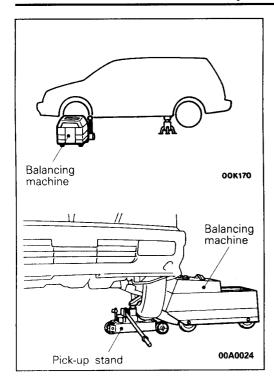
Brake force of 4WD models with VCU

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

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	ominal Ditab (mm) Torque Nm (kgm, ft.			.)
diameter (mm)	Pitch (mm)	Head mark 4	Head mark 🗍	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.Ò, 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	5:- 1 /	Torque Nm (kgm, ft.lbs.)		
diameter (mm)	Pitch (mm)	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

T	Torque Nm (kgm, ft.lbs.)			
Thread size	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
		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 engine)	MITSUBISHI GENUINE Part No. MD997110 or equivalent
2.	Se	aling between glass and atherstrip	
	(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.	•	nesion with ribbon sealer Waterproof film for door Fender panel Splash shield Mud guard Rear combination lamp	3M ATD Part No. 8625 or equivalent
4.	Adl	hesives 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
		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

		Recommended	
Appl	brand		
6. Chassis seal	6. Chassis sealant		
portions	of flange and threaded age unit packing	3M ATD Part No. 8659 or equivalent	
surfaces portions, dust cov Different packing Dust cov and linka Steering packing Steering rack sup top cove	vers for ball joint age gear box and shims gear housing uport cover and	3M ATD Part No. 8663 or equivalent	
(3) Sealing accelerate and toek	tor arm bracket	Drying sealant	
	for drum brake ld-down pin and ylinder	3M ATD Part No. 8513 or equivalent	
7. Fast bonding			
except polyprop fluorocar other ma	n of all materials polyethylene, lylene, bon resin or aterials with psorbent surface	3M ATD Part No. 8155 or equivalent	
8. Anaerobic fa			
screws Tightenir to difference Bolts for steering with low (2) Fixing of pulley ar connecti (3) Sealing		3M Stud locking Part No. 4170 or equivalent	
9. Undercoat	5 SULLACE	3M ATD Part No. 8864 or equivalent	