

# ***WORKSHOP MANUAL***

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**US VERSION  
RIGHT HAND MODEL  
EXP UBS**

# **ISUZU**

**PubNo. RV99\_02-01.E**

# ***WORKSHOP MANUAL***

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***1999***

**Trooper (UX)**  
**Rodeo (UE)**  
**Amigo (UA)**  
**Vehicross (VX)**

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***2000***

**Trooper (UX)**  
**Rodeo (UE)**  
**Amigo (UA)**  
**Vehicross (VX)**

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***2001***

**Rodeo (UE)**  
**Rodeo Sport (UA)**

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***2002***

**Axiom (UP)**  
**Trooper (UX)**  
**Rodeo (UE)**  
**Rodeo Sport (UA)**

# WORKSHOP MANUAL

## RODEO (UE)

### FOREWORD

This manual includes special notes, important points, service data, precautions, etc. that are needed for the maintenance, adjustments, service, removal and installation of vehicle components.

All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication.

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Arrangement of the material is shown in the table of contents on the right-hand side of this page. A black spot on the first page of each section can be seen on the edge of the book below each section title. These point to a more detailed table of contents preceding each section.

*This manual applies to 1999 models.*

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<b>2A</b>	<b>STEERING</b> Power-Assisted System	
<b>3C</b> <b>3D</b> <b>3E</b>	<b>SUSPENSION</b> Front Suspension Rear Suspension Wheel and Tire System	
<b>4A1</b> <b>4A2</b> <b>4B</b> <b>4C</b> <b>4D</b>	<b>DRIVELINE/AXLE</b> Differential Differential Driveline Control System Drive Shaft System Transfer Case	
<b>5A</b> <b>5B</b> <b>5C</b> <b>5D1</b> <b>5D2</b>	<b>BRAKE</b> Brake Control System Anti-Lock Brake System Power-Assisted Brake System Parking Brake System (4x4 model) Parking Brake System (4x2 model)	
<b>HEC</b> <b>6A</b> <b>6B</b> <b>6C</b> <b>6D1</b> <b>6D2</b> <b>6D3</b> <b>6E</b> <b>6F</b> <b>6G</b> <b>6H</b> <b>6J</b>	<b>6VD1</b> <b>6A</b> <b>6B</b> <b>6C</b> <b>6D1</b> <b>6D2</b> <b>6D3</b> <b>6E</b> <b>6F</b> <b>6G</b> <b>6H</b> <b>6J</b>	<b>ENGINE</b> Engine Mechanical Engine Cooling Engine Fuel Engine Electrical Ignition System Starting and Charging System Driveability and Emissions Engine Exhaust Engine Lubrication Engine Speed Control System Induction
<b>7A</b> <b>7A1</b> <b>7B</b> <b>7C</b>	<b>TRANSMISSION</b> Automatic Transmission Transmission Control System Manual Transmission Clutch	
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<b>9A</b> <b>9J</b> <b>9J1</b>	<b>RESTRAINTS</b> Seat Belt System Supplemental Restraint System (Air Bag System) Restraint Control System	
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RODEO

# GENERAL INFORMATION

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## General Information

### CONTENTS

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### General Repair Instruction

- If a floor jack is used, the following precautions are recommended.  
Park vehicle on level ground, "block" front or rear wheels, set jack against the recommended lifting points (see "Lifting Instructions" in this section), raise vehicle and support with chassis stands and then perform the service operations.
- Before performing service operations, disconnect ground cable from the battery to reduce the chance of cable damage and burning due to short circuiting.
- Use a cover on body, seats and floor to protect them against damage and contamination.
- Brake fluid and anti-freeze solution must be handled with reasonable care, as they can cause paint damage.
- The use of proper tools and recommended essential and available tools, where specified, is important for efficient and reliable performance of service repairs.
- Use genuine Isuzu parts.
- Used cotter pins, plastic clips, gaskets, O-rings, oil seals, lock washers and self-locking nuts should be discarded and new ones should be installed, as normal function of the parts cannot be maintained if these parts are reused.
- To facilitate proper and smooth reassembly operation, keep disassembled parts neatly in groups. Keeping fixing bolts and nuts separate is very important, as they vary in hardness and design depending on position of installation.
- Clean the parts before inspection or reassembly. Also clean oil ports, etc. using compressed air, and make certain they are free from restrictions.
- Lubricate rotating and sliding faces of the parts with oil or grease before installation.
- When necessary, use a sealer on gaskets to prevent leakage.
- Carefully observe all specifications for bolt and nut torques.
- When removing or replacing parts that require refrigerant to be discharged from the air conditioning system, be sure to use the Vehicle Refrigerant Recovery and Recycling Equipment (VRRRE) to recover and recycle Refrigerant-134a.
- When a service operation is completed, make a final check to be sure the service has been done properly and the problem has been corrected.

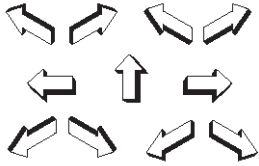






#### 15. SUPPLEMENTAL RESTRAINT SYSTEM








The vehicle is equipped with a Supplemental Restraint System (SRS) – Air Bags. This system is not to be serviced without consulting the appropriate service information. Consult Section 9J "SRS System" if work is to be done on the front of the vehicle such as bumper, sheet metal, seats, wiring, steering wheel or column. Also review SRS system information if any arc welding is to be done on the vehicle. The SRS system equipped vehicle can be identified by:

- "AIR BAG" warning light on the instrument cluster.
- A Code "J" for fifth digit of Vehicle Identification Number.

### Illustration Arrows

Arrows are designed for specific purposes to aid your understanding of technical illustrations.

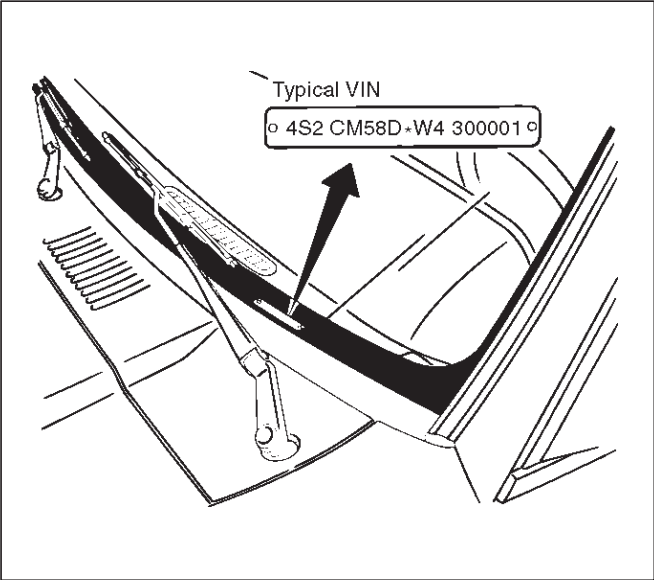
Arrow Type	Application
	Front of vehicle
	Up Side
	Task Related
	View Detail
	View Angle
	Dimension (1:2)
	Sectioning (1:3)

Arrow Type	Application
	<ul style="list-style-type: none"> <li>• Ambient/Clean air flow</li> <li>• Cool air flow</li> </ul>
	<ul style="list-style-type: none"> <li>• Gas other than ambient air</li> <li>• Hot air flow</li> </ul>
	<ul style="list-style-type: none"> <li>• Ambient air mixed with another gas</li> <li>• Can indicate temperature change</li> </ul>
	Motion or direction
	Lubrication point oil or fluid
	Lubrication point grease
	Lubrication point jelly

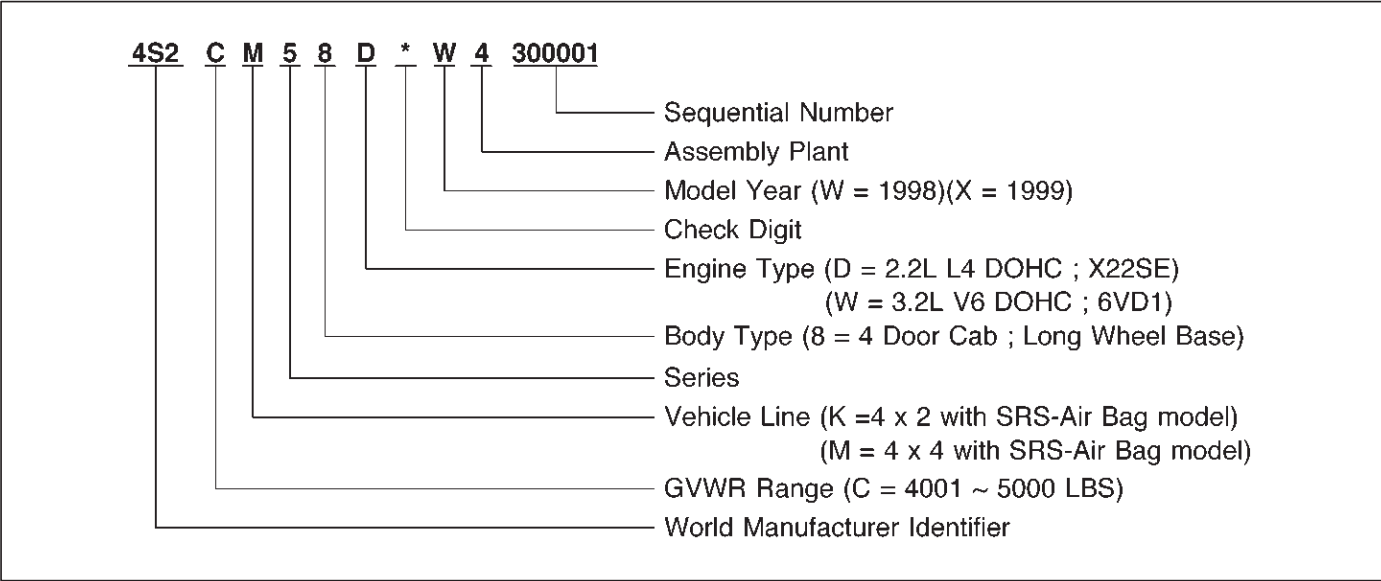
# Identification

## Vehicle Identification Number (VIN)

This is the legal identification of the vehicle. it is located on the left bottom of the windshield. It can be easily seen through the windshield from outside the vehicle.



710RW003

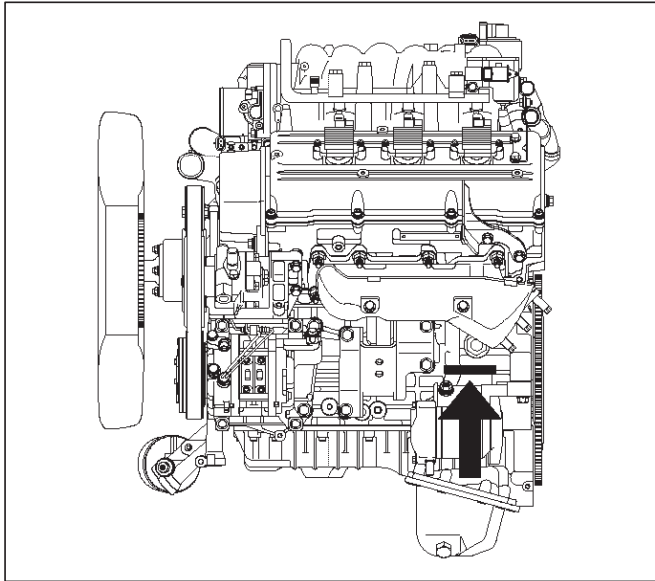


F00RX002

### Engine Serial Number

- **6VD1 Engine**

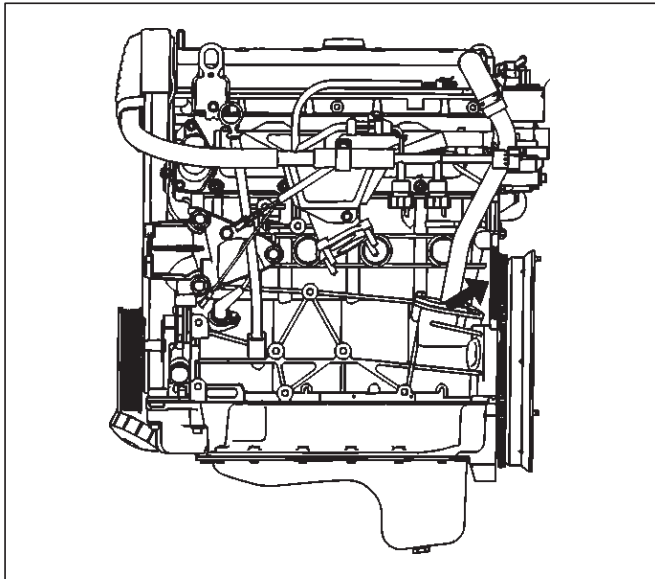
The gasoline engine serial number is stamped on the left rear lower area of the cylinder block above the starter.



F06RW001

- **X22SE Engine**

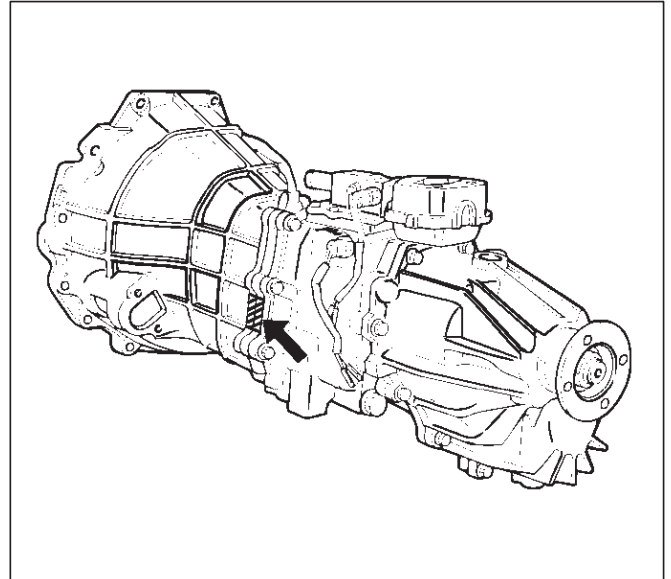
The gasoline engine serial number is stamped on the rear end raised area of the cylinder block left side.



035RW022

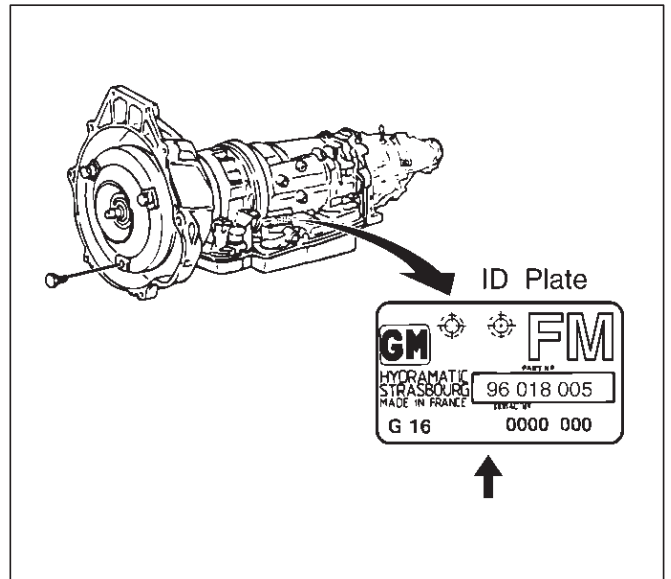
### Transmission Serial Number

Manual : Stamped on the left side of the transmission intermediate plate.



220RS025




Automatic : Stamped on the identification plate, located on the left side of the transmission above the mode switch.



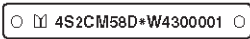



240RW019

### Theft Prevention Standard

The 11 major components listed below will be marked with 17 digit VIN at the stage of production. In addition its service parts will be marked with manufacturer’s trade mark, “R” mark and “DOT” mark.

Reference Figure No.	COMPONENT		INDICATION	
			PRODUCTION	SERVICE PARTS
0A-10	ENGINE	1– 6VD1 – X22SE	VIN plate	
0A-11	TRANSMISSION	2– Manual transmission – Automatic transmission	VIN plate	
0A-11	BODY	3– Engine hood 4– Front door 5– Rear door 6– Fender 7– Rear Quarter panel 8– Front bumper 9– Back door left side 10– Back door right side 11– Rear bumper	VIN label	

### Anti Theft Stamping/Plate/Label

	STAMPING/PLATE	LABEL
PRODUCTION	Example 	Example 
SERVICE PARTS		



## 0A-6 GENERAL INFORMATION

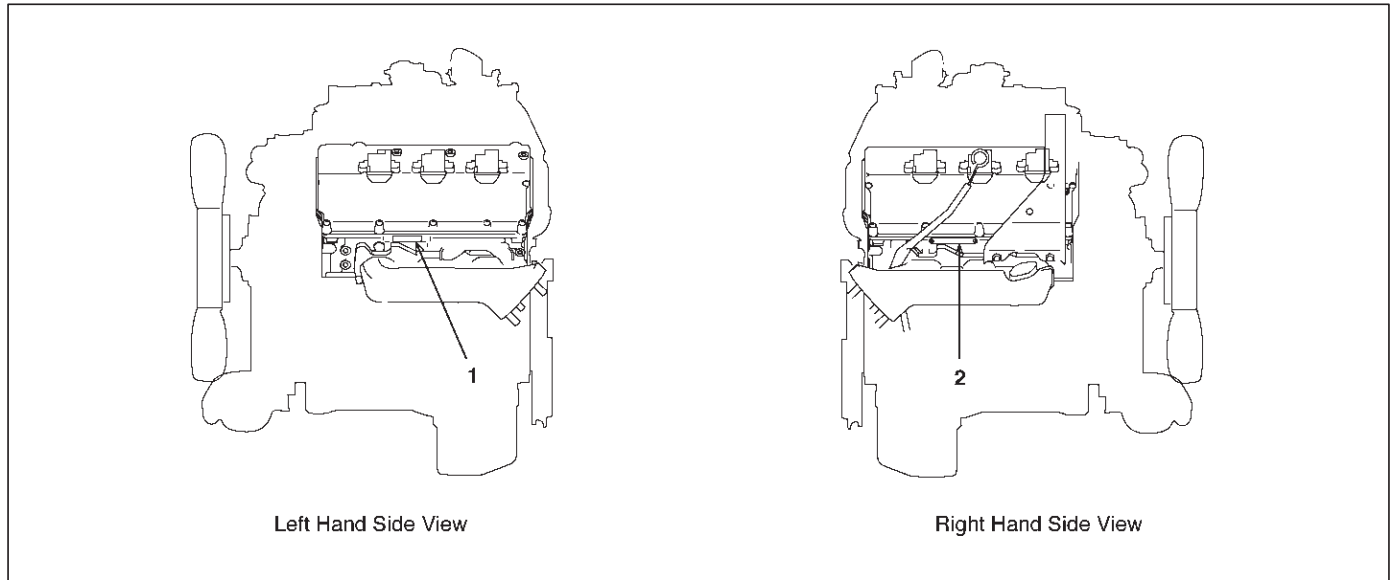
### Anti Theft Stamping/Label/Plate Location

The stamping, label and plate locations are indicated by arrows in the illustration below.

#### NOTE:

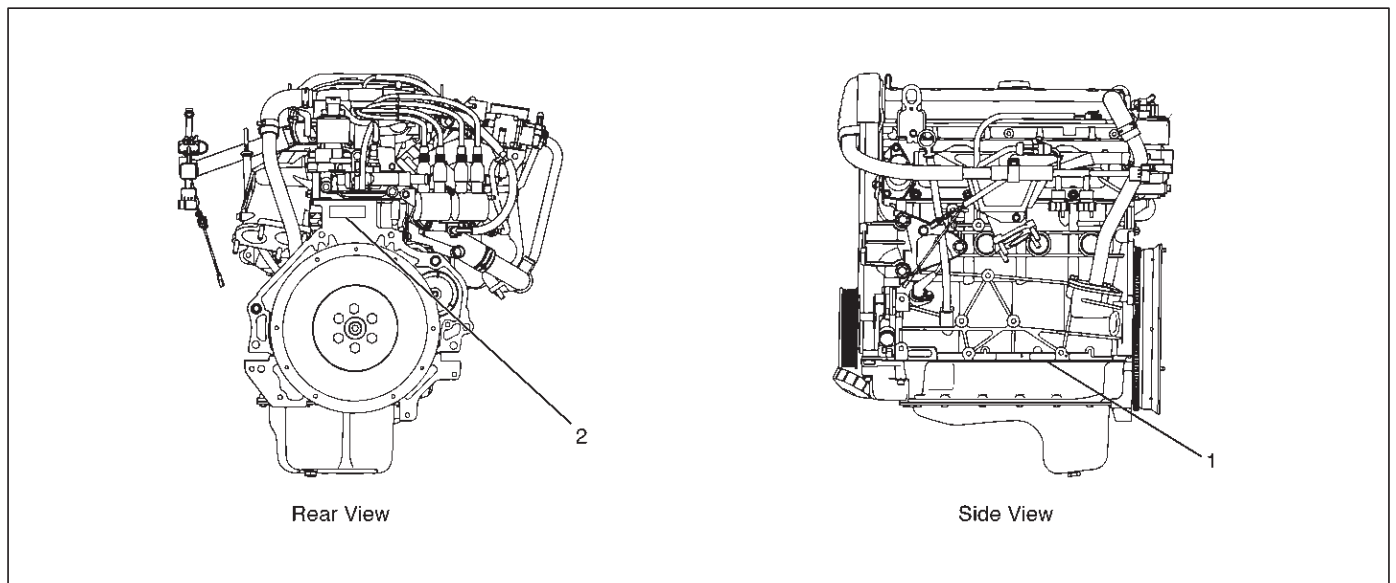
1. VIN plate locations for production.
2. Stamping locations for service parts.

#### Engine (6VD1)



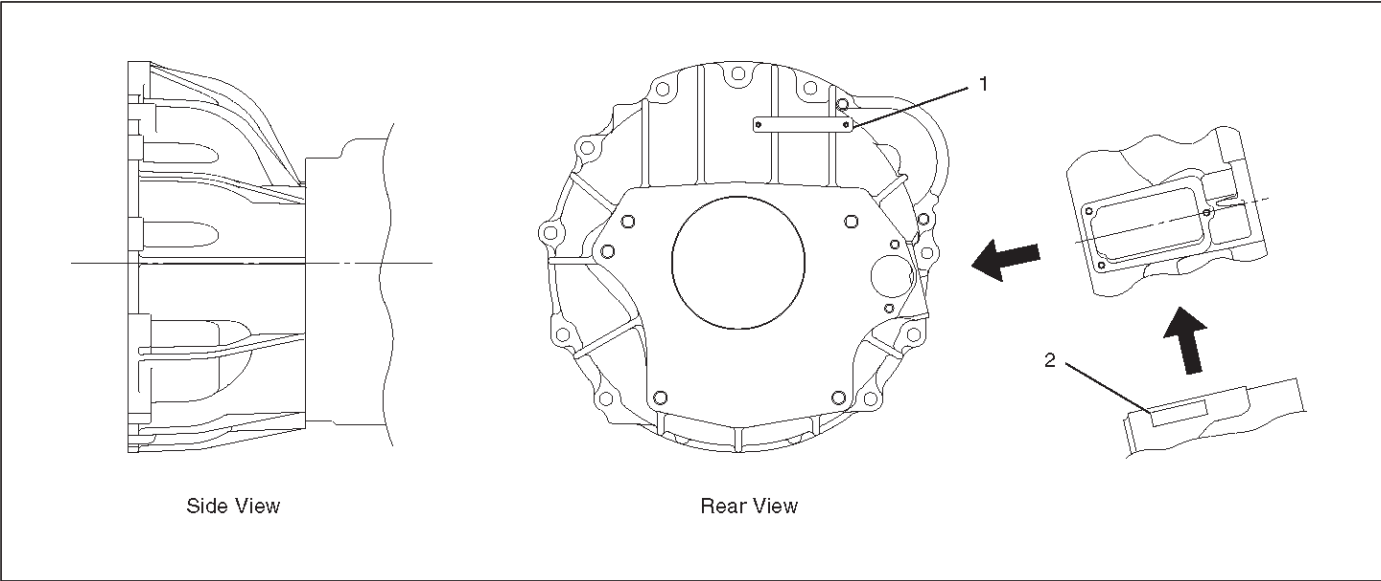
901RW080

#### Engine (X22SE)

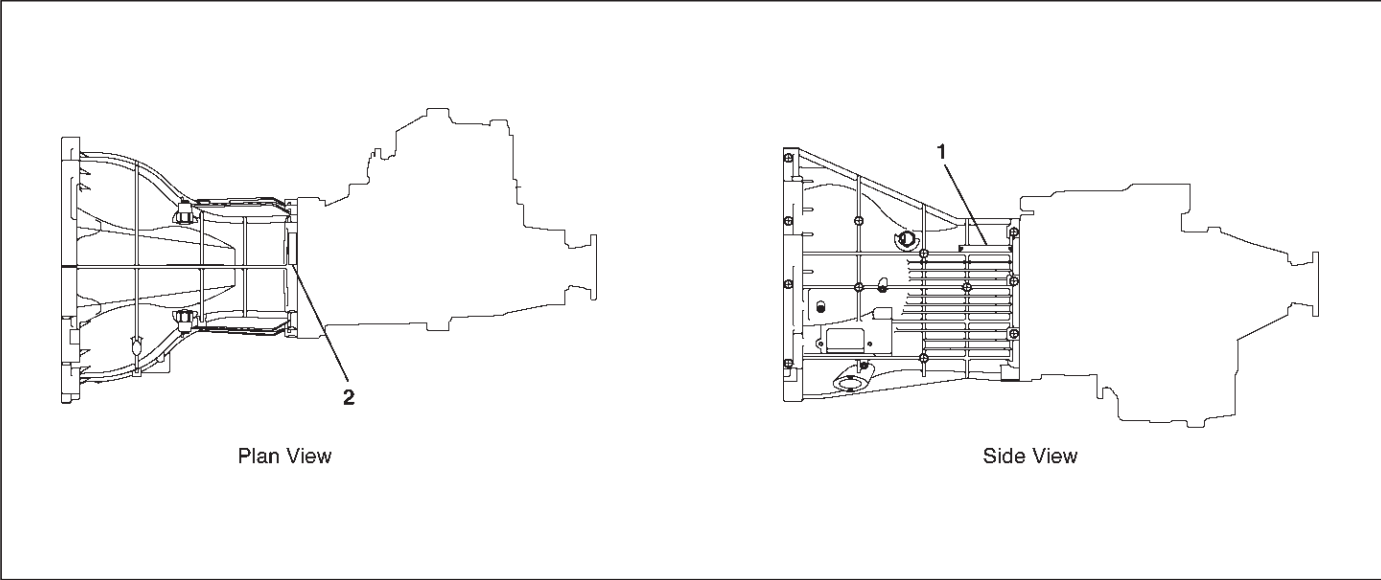


035RW025

Manual Transmission (TREMEC T5)

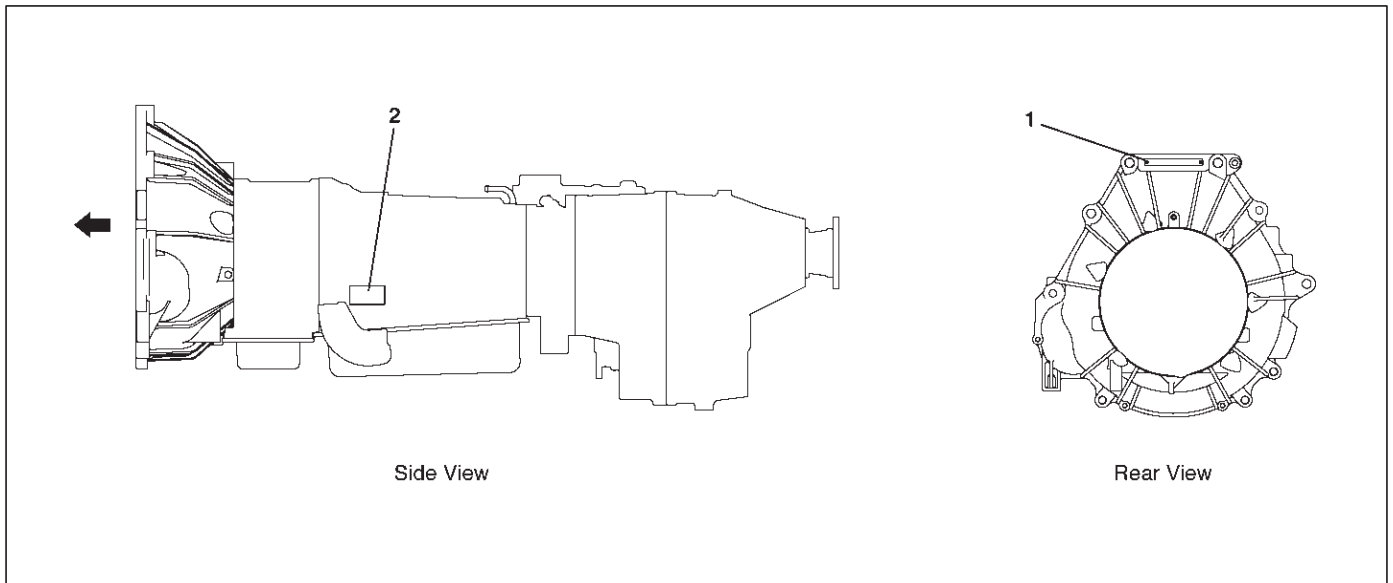


Manual Transmission (MUA)

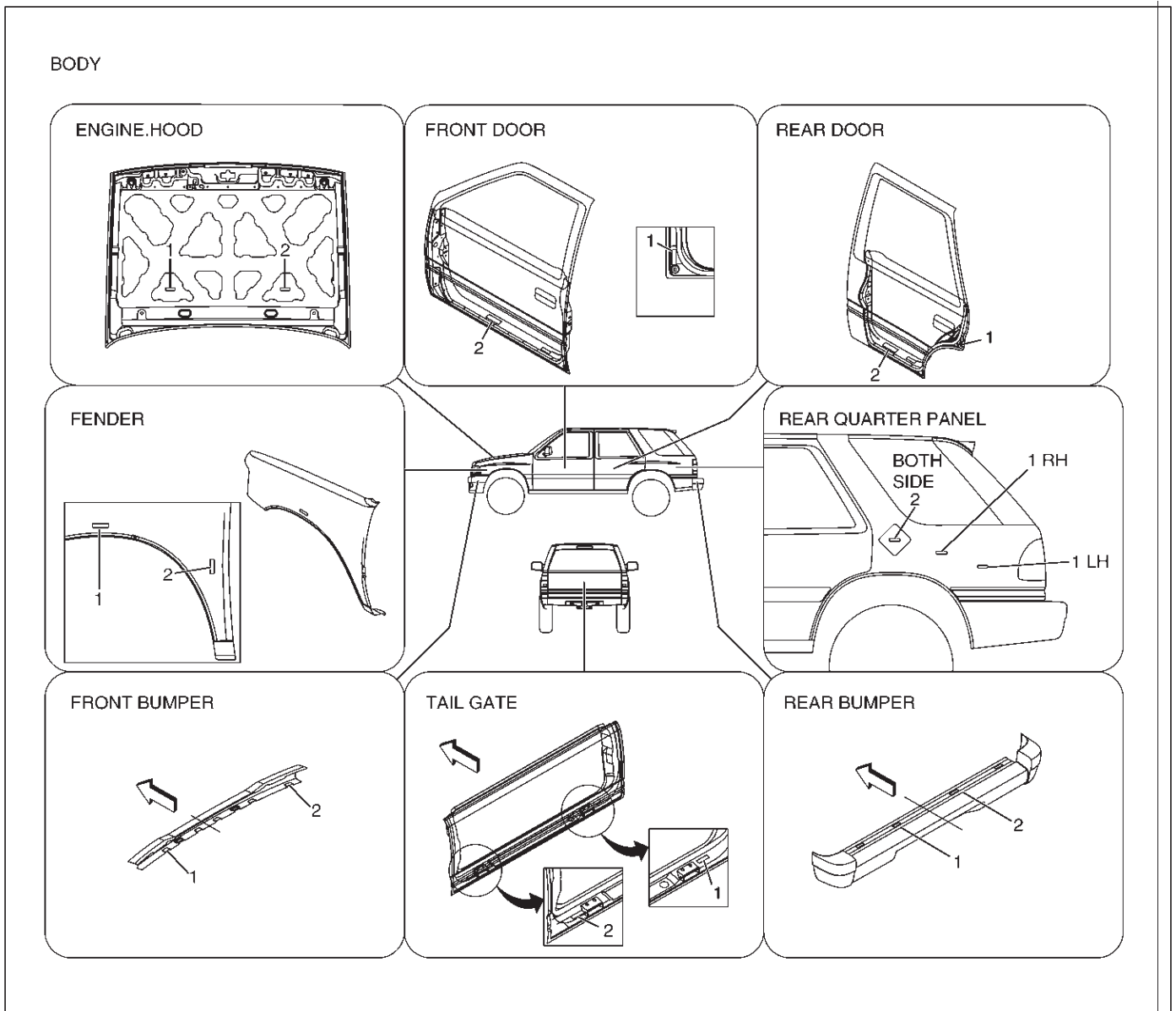


0A-8 GENERAL INFORMATION

Automatic Transmission (THM)



Body

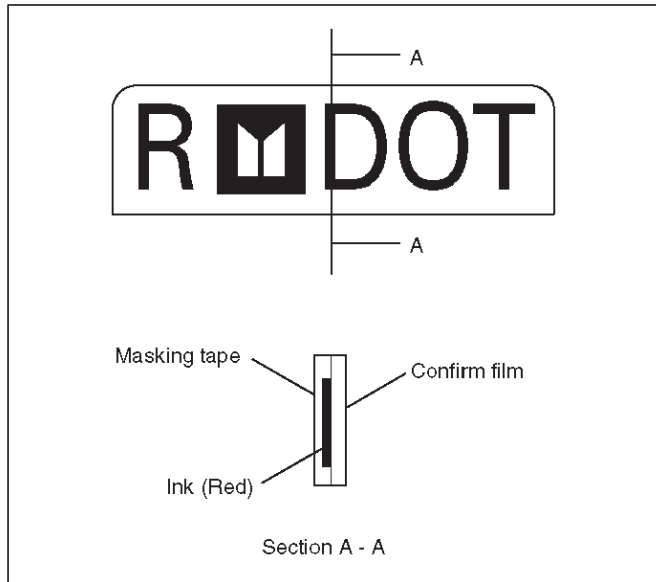


## Body Label Instructions

Do not peel off the masking tape until completion of paint work when replacing these parts, as the tape is affixed on the label attached to service parts for body of the anti-theft component.

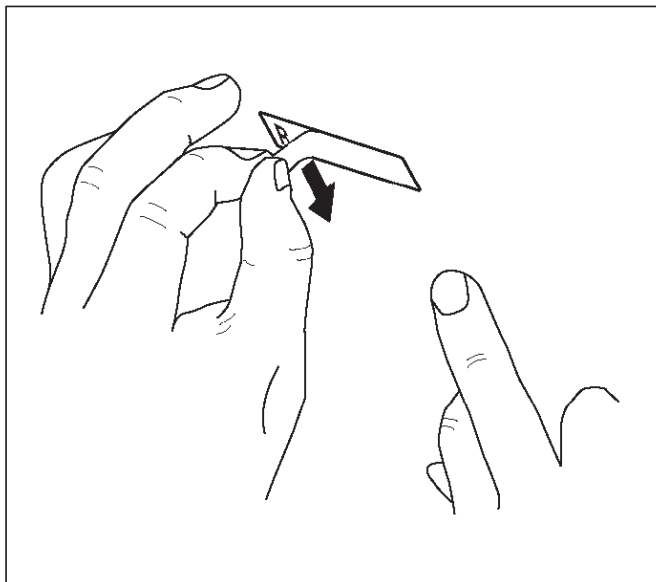
NOTE: Be sure to pull off the masking tape after paint work has been completed.

Do not attempt to remove this label for any reason.



## Precautions in pulling off the masking tape

1. Use only your finger nail or a similar blunt instrument to peel off the masking tape. Use of a sharp object will damage the underlying anti-theft label.
2. Be careful not to damage the paint around the label.

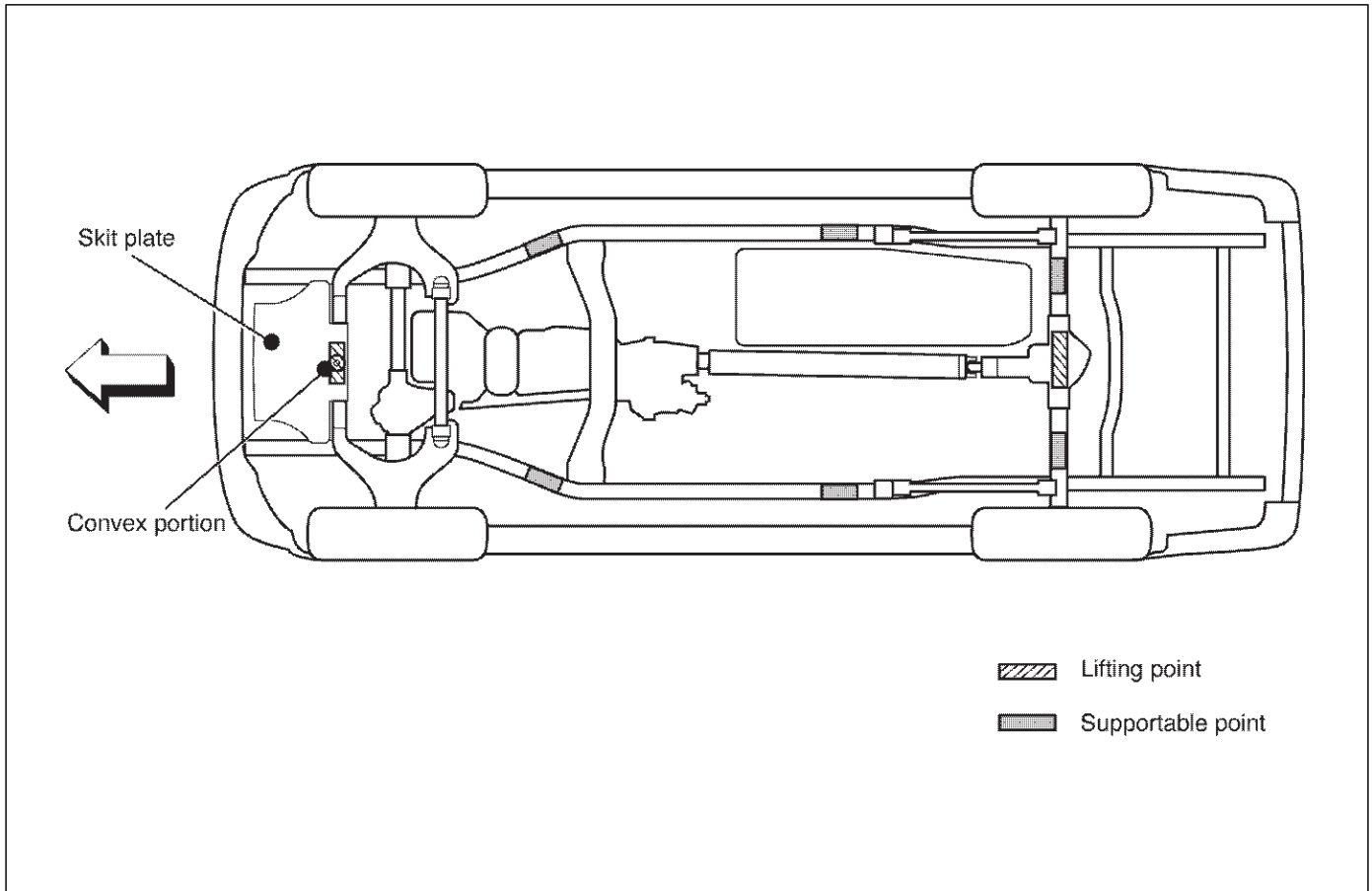


## Lifting Instructions

### CAUTION:

- If a lifting device other than the original jack is used, it is most important that the device be applied only to the correct lifting points. Raising the vehicle from any other point may result in serious damage.
- When jacking or lifting a vehicle at the frame side rail or other prescribed lift points, be certain that lift pads do not contact the catalytic converter, brake pipes or cables, or fuel lines. Such contact may result in damage or unsatisfactory vehicle performance.

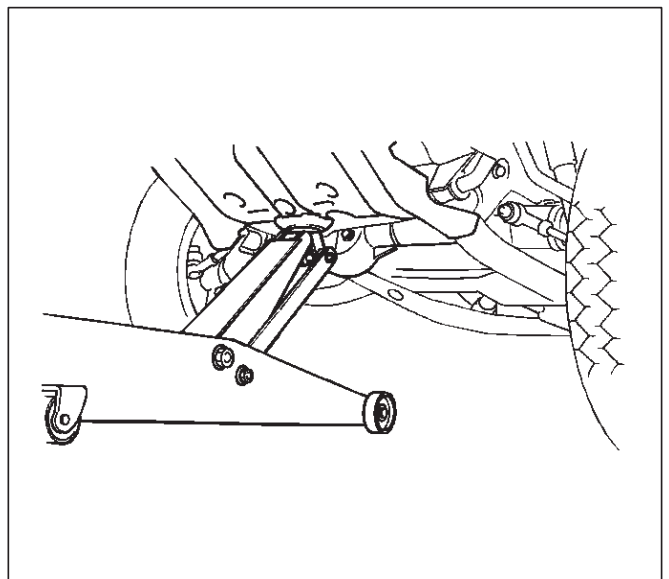
### Lifting Points and Supportable Point Locations



C00RX002

### Lifting Point: Front

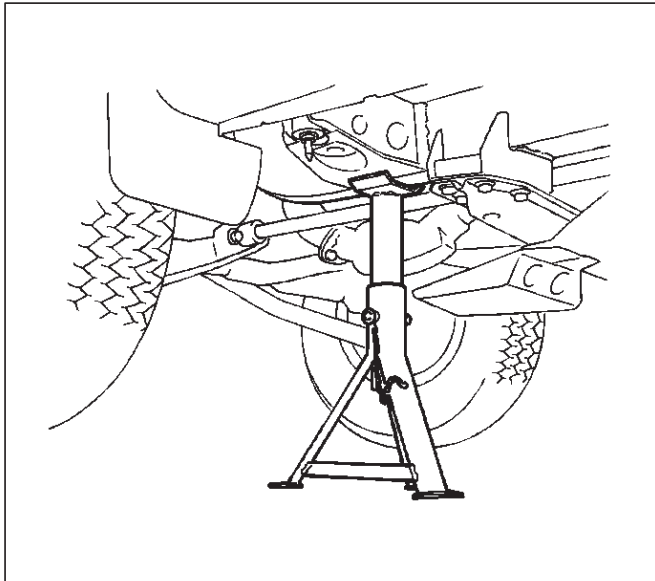
- When using a floor jack, lift on the Convex portion of the skid plate.



545RS001

**Supportable Point: Front**

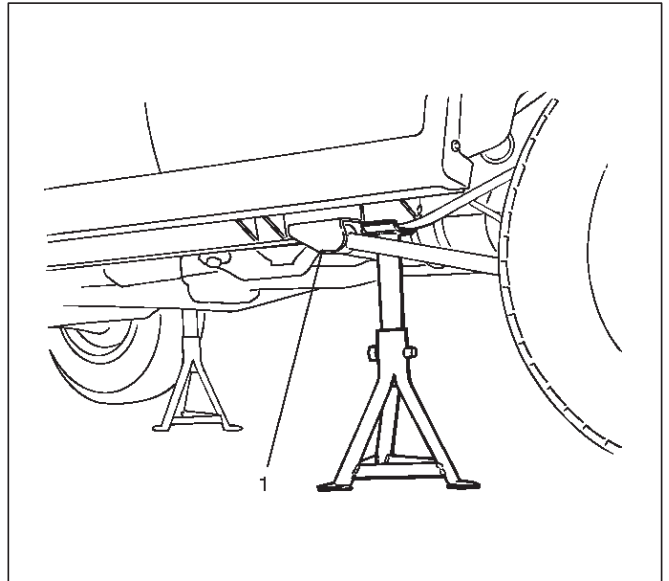
- Position the chassis stands at the bottom of the frame sidemember, behind the front wheel.



501RS003

**Supportable Point: Rear**

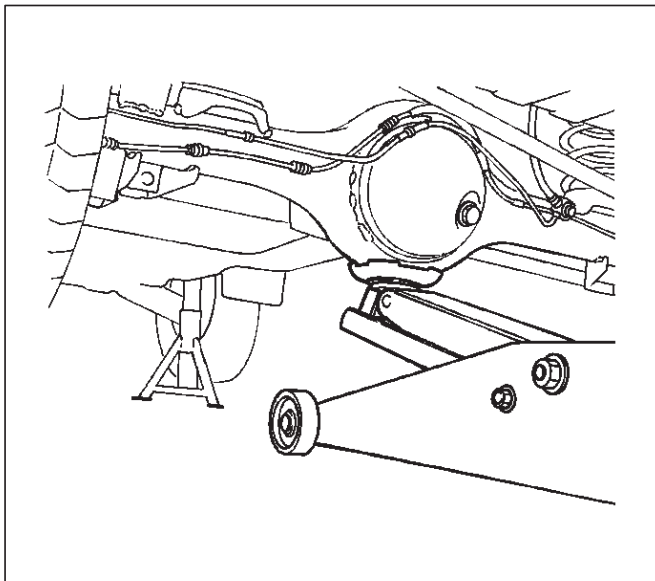
- Position the chassis stands at the bottom of the frame sidemember, just behind the trailing link bracket.



501RW002

**Lifting Point: Rear**

- Position the floor jack at the center of the rear axle case when lifting the vehicle.



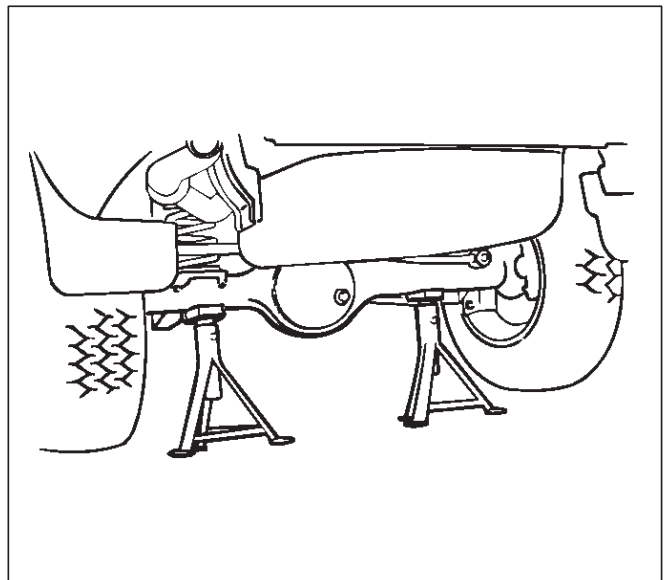
420RS002

**Legend**

- (1) Trailing Link Bracket

**Supportable Point: Rear**





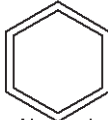



- Position the chassis stands at the bottom of the rear axle case.



420RS001

## Standard Bolts Torque Specifications

The torque values given in the following table should be applied where a particular torque is not specified.

Strength Class	4.8	8.8		9.8
		Refined	Non-Refined	
Bolt Identification				
	 No Mark			
<b>Bolt Diameter × Pitch (mm)</b>				
M 6X1.0	4 – 8 N·m (3 – 6 lb ft)	5 – 10 N·m (4 – 7 lb ft)		–
M 8X1.25	8 – 18 N·m (6 – 13 lb ft)	12 – 23 N·m (9 – 17 lb ft)		17 – 30 N·m (12 – 22 lb ft)
M 10X1.25	21 – 34 N·m (15 – 25 lb ft)	28 – 46 N·m (20 – 34 lb ft)		37 – 63 N·m (27 – 46 lb ft)
* M10X1.5	20 – 33 N·m (14 – 25 lb ft)	28 – 45 N·m (20 – 33 lb ft)		36 – 60 N·m (27 – 44 lb ft)
M12X1.25	49 – 74 N·m (36 – 54 lb ft)	61 – 91 N·m (45 – 67 lb ft)		76 – 114 N·m (56 – 84 lb ft)
* M12X1.75	45 – 69 N·m (33 – 51 lb ft)	57 – 84 N·m (42 – 62 lb ft)		72 – 107 N·m (53 – 79 lb ft)
M14X1.5	77 – 115 N·m (56 – 85 lb ft)	93 – 139 N·m (69 – 103 lb ft)		114 – 171 N·m (84 – 126 lb ft)
* M14X2.0	72 – 107 N·m (53 – 79 lb ft)	88 – 131 N·m (65 – 97 lb ft)		107 – 160 N·m (79 – 118 lb ft)
M16X1.5	104 – 157 N·m (77 – 116 lb ft)	135 – 204 N·m (100 – 150 lb ft)		160 – 240 N·m (118 – 177 lb ft)
* M16X2.0	100 – 149 N·m (74 – 110 lb ft)	130 – 194 N·m (95 – 143 lb ft)		153 – 230 N·m (113 – 169 lb ft)
M18X1.5	151 – 226 N·m (111 – 166 lb ft)	195 – 293 N·m (144 – 216 lb ft)		230 – 345 N·m (169 – 255 lb ft)
M20X1.5	206 – 310 N·m (152 – 229 lb ft)	270 – 405 N·m (199 – 299 lb ft)		317 – 476 N·m (234 – 351 lb ft)
M22X1.5	251 – 414 N·m (185 – 305 lb ft)	363 – 544 N·m (268 – 401 lb ft)		425 – 637 N·m (313 – 469 lb ft)
M24X2.0	359 – 539 N·m (265 – 398 lb ft)	431 – 711 N·m (318 – 524 lb ft)		554 – 831 N·m (409 – 613 lb ft)

The asterisk \* indicates that the bolts are used for female-threaded parts that are made of soft materials such as casting, etc.

## Abbreviations Charts

### List of automotive abbreviations which may be used in this manual

A — Ampere(s)	Exh — Exhaust
ABS — Antilock Brake System	° F — Degrees Fahrenheit
AC — Alternating Current	Fed — Federal (All States Except Calif.)
A/C — Air Conditioning	FF — Front Drive Front Engine
ACCEL — Accelerator	FL — Fusible Link
ACC — Accessory	FLW — Fusible Link Wire
ACL — Air Cleaner	FP — Fuel Pump
Adj — Adjust	FRT — Front
A/F — Air Fuel Ratio	ft — Foot
AIR — Secondary Air Injection System	FWD — Front Wheel Drive
Alt — Altitude	4WD — Four Wheel Drive
AMP — Ampere(s)	4 x 4 — Four Wheel Drive
ANT — Antenna	4 A/T — Four Speed Automatic Transmission/Transaxle
ASM — Assembly	Gal — Gallon
A/T — Automatic Transmission/Transaxle	GEN — Generator
ATDC — After Top Dead Center	GND — Ground
ATF — Automatic Transmission Fluid	Gov — Governor
Auth — Authority	g — Gram
Auto — Automatic	Harn — Harness
BARO — Barometric Pressure	HC — Hydrocarbons
Bat — Battery	HD — Heavy Duty
B+ — Battery Positive Voltage	Hg — Hydrargyrum (Mercury)
Bbl — Barrel	HiAlt — High Altitude
BHP — Brake Horsepower	HO2S — Heated Oxygen Sensor
BPT — Backpressure Transducer	HVAC — Heater-Vent-Air-Conditioning
BTDC — Before Top Dead Center	IAC — Idle Air Control
° C — Degrees Celsius	IAT — Intake Air Temperature
CAC — Charge Air Cooler	IC — Integrated Circuit / Ignition Control
Calif — California	ID — Identification / Inside Diameter
cc — Cubic Centimeter	IGN — Ignition
CID — Cubic Inch Displacement	INJ — Injection
CKP — Crankshaft Position	IP — Instrument Panel
CL — Closed Loop	IPC — Instrument Panel Cluster
CLCC — Closed Loop Carburetor Control	Int — Intake
CMP — Camshaft Position	ISC — Idle Speed Control
CO — Carbon Monoxide	J/B — Junction Block
Coax — Coaxial	kg — Kilograms
Conn — Connector	km — Kilometers
Conv — Converter	km/h — Kilometer per Hour
Crank — Crankshaft	kPa — Kilopascals
Cu. In. — Cubic Inch	kV — Kilovolts (thousands of volts)
CV — Constant Velocity	kW — Kilowatts
Cyl — Cylinder(s)	KS — Knock Sensor
DI — Distributor Ignition	L — Liter
Diff — Differential	lb ft — Foot Pounds
Dist — Distributor	lb in — Inch Pounds
DLC — Data Link Connector	LF — Left Front
DOHC — Double Overhead Camshaft	LH — Left Hand
DTC — Diagnostic Trouble Code	LR — Left Rear
DTM — Diagnostic Test Mode	LS — Left Side
DTT — Diagnostic Test Terminal	LWB — Long Wheel Base
DVM — Digital Voltmeter (10 meg.)	L-4 — In-Line Four Cylinder Engine
DVOM — Digital Volt Ohmmeter	MAF — Mass Air Flow
EBCM — Electronic Brake Control Module	MAN — Manual
ECM — Engine Control Module	MAP — Manifold Absolute Pressure
ECT — Engine Coolant Temperature	Max — Maximum
EEPROM — Electronically Erasable Programmable Read Only Memory	MC — Mixture Control
EGR — Exhaust Gas Recirculation	MFI — Multiport Fuel Injection
EI — Electronic Ignition	MIL — Malfunction Indicator Lamp
ETR — Electronically Tuned Receiver	Min — Minimum
EVAP — Evaporation Emission	mm — Millimeter
	MPG — Miles Per Gallon
	MPH — Miles Per Hour
	M/T — Manual Transmission/Transaxle
	MV — Millivolt





RODEO

# GENERAL INFORMATION

## Maintenance and Lubrication

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### Maintenance Schedule List

#### Normal Vehicle Use

The maintenance instructions in this Maintenance Schedule are based on the assumption that the vehicle will be used as designed:

- to carry passengers and cargo within the limitations specified on the tire placard located on the inside of the glove compartment door;
- to be driven on reasonable road surfaces within legal operating limits;
- to be driven on a daily basis, as a general rule, for at least several miles/kilometers;
- to be driven on unleaded fuel

Unusual or severe operating conditions will require more frequent vehicle maintenance, as specified in the following sections.

#### Severe Driving Conditions

If the vehicle is usually operated under any of the severe driving conditions listed below, it is recommended that the applicable maintenance services be performed at the specified interval shown in the chart below.

##### Severe driving conditions:

- Towing a trailer, using a camper or car top carrier.
- Repeated short trips of less than 8 Km (5 miles) with outside temperature remaining below freezing.
- Extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use.
- Operating on dusty, rough, muddy or salt spread roads.

ITEMS	INTERVAL
CHANGE ENGINE OIL AND OIL FILTER	Every 3,000 miles (4,800 km) or 3 months
CHANGE AUTOMATIC TRANSMISSION FLUID	Every 20,000 miles (32,000 km)
CHANGE REAR AXLE OIL	Every 15,000 miles (24,000 km)
REPLACE TIMING BELT	Every 75,000 miles (120,000 km)
REPLACE AIR CLEANER FILTER	See explanation of service, page 0B-5
CHANGE POWER STEERING FLUID	Every 30,000 miles (48,000 km)

Mileage Only Items

**MILEAGE ONLY ITEMS**

MILEAGE ONLY ITEMS	IN THOUSANDS OF MILES (USE ODOMETER READING)														DESCRIPTION		
	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105		112.5	120
* <sup>(1)</sup> CHANGE FRONT AND REAR AXLE OIL																	
2 CHANGE MANUAL TRANSMISSION AND TRANSFER CASE OIL(4WD model)																	
3 CHECK AND ADJUST CLEARANCE(V6-3.2L engine)																	
4 REPLACE AIR CLEANER ELEMENT																	
5 REPLACE SPARK PLUGS																	
6 CHANGE ENGINE COOLANT																	
* <sup>(2)</sup> REPLACE TIMING BELT																	
8 ROTATE TIRES																	
9 REPACK FRONT WHEEL BEARINGS GREASE																	
10 CLEAN RADIATOR CORE AND A/C CONDENSER																	
11 CHECK SPARK PLUG WIRES (I4- 2.2L engine)																	

SHADED AREA INDICATES SERVICE TO BE PERFORMED.

\*<sup>(1)</sup> : Under severe driving conditions, additional maintenance is required. Refer to "Severe driving conditions".

\*<sup>(2)</sup> : Replacement of the timing belt is recommended at every 100,000 miles (160,000km)

Mileage/Months

MILEAGE/MONTHS

	MILEAGE/MONTHS whichever comes first	IN THOUSANDS OF MILES (USE ODOMETER READING)														DESCRIPTION			
		Max. Miles / Max. Months	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5		105	112.5	120
1	CHECK BATTERY FLUID LEVEL	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
2	CHECK ENGINE COOLANT LEVEL	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
3	CHECK BRAKE FLUID LEVEL	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
4	CHECK CLUTCH FLUID LEVEL	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
5	CHECK FLUID LEAKS	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
6	* (1) CHANGE ENGINE OIL	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
7	* (1) REPLACE ENGINE OIL FILTER	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
8	CHECK COOLING AND HEATER HOSES	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
9	* (2) CHECK EXHAUST SYSTEM	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
10	* (2) CHECK FUEL LINE AND FUEL TANK/CAP	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
11	CHECK ENGINE DRIVE BELTS	24	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
12	CHECK TIRES AND WHEELS	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
13	CHECK STEERING OPERATION	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
14	CHECK BRAKE LINES AND HOSES	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
15	CHECK DRUM AND DISC BRAKES	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
16	CHECK PARKING BRAKE	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded
17	* (1) CHECK AUTOMATIC TRANSMISSION FLUID	12	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded	Shaded

SHADED AREA INDICATES SERVICE TO BE PERFORMED.

\* (1) : Under severe driving conditions, additional maintenance is required. Refer to "Severe driving conditions".

\* (2) : This service is recommended for vehicles sold in California, and it is required for vehicles sold in other areas.