WORKSHOP MANUAL

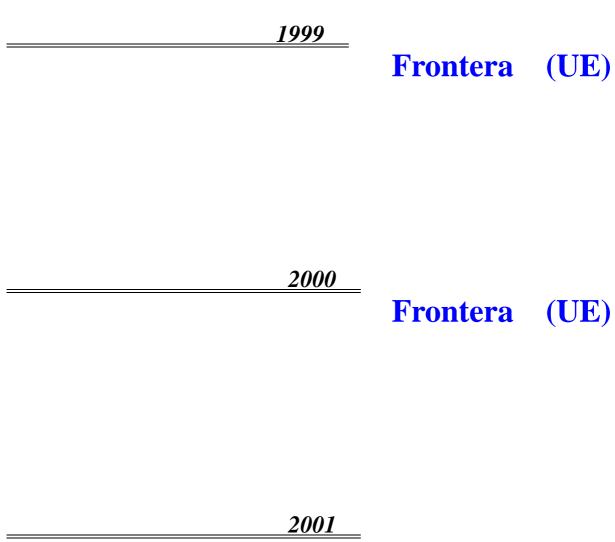
US VERSION RIGHT HAND MODEL EXP UBS

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Frontera (UE)

WORKSHOP MANUAL

FRONTERA (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.

All rights are reserved to make changes at any time without notice.

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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GENERAL INFORMATION

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GENERAL INFORMATION

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General Repair Instruction

1. 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.

- 2. Before performing service operations, disconnect ground cable from the battery to reduce the chance of cable damage and burning due to short circuiting.
- 3. Use a cover on body, seats and floor to protect them against damage and contamination.
- 4. Brake fluid and anti–freeze solution must be handled with reasonable care, as they can cause paint damage.
- 5. The use of proper tools and recommended essential and available tools, where specified, is important for efficient and reliable performance of service repairs.
- 6. 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.
- 8. 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.
- 10. Lubricate rotating and sliding faces of the parts with

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oil or grease before installation.

- 11. When necessary, use a sealer on gaskets to prevent leakage.
- 12. 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.
- 14. 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:
 - 1. "AIR BAG" warning light on the instrument cluster.
 - 2. A Code "J" for fifth digit of Vehicle Identification Number.

Illustration Arrows

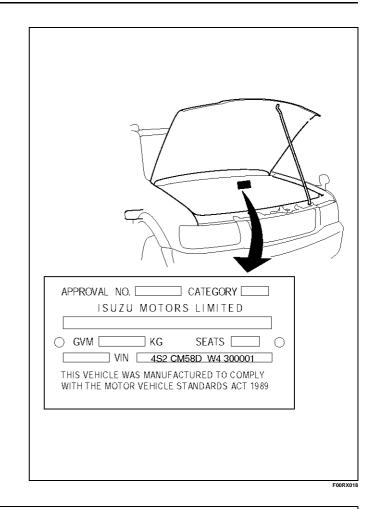
Arrows are designed for specific purposes to aid your understanding of technical illustrations.

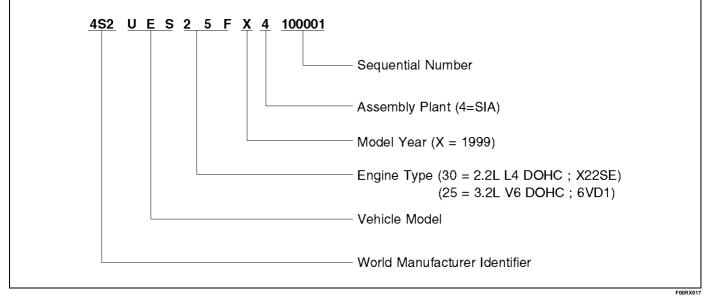
Arrow Type	Application	Arrow Type	Application
	Front of vehicle		 Ambient/Clean air flow Cool air flow
	Up Side		Gas other than ambient airHot air flow
	Task Related		 Ambient air mixed with another gas Can indicate temperature change
	View Detail		Motion or direction
A 🕨	View Angle		Lubrication point oil or fluid
	Dimension (1:2)		Lubrication point grease
	Sectioning (1:3)	₽ ♦	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.

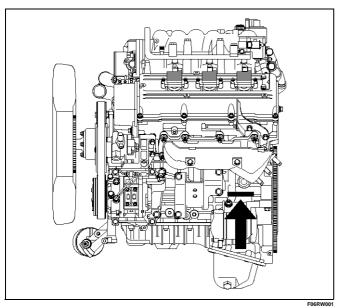




Engine Serial Number

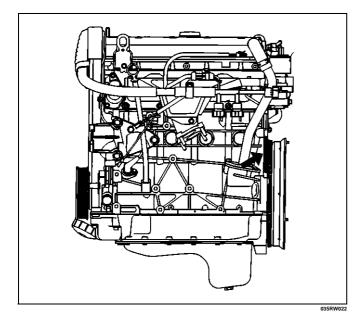
• 6VD1 Engine

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



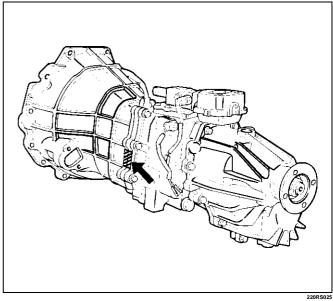
• X22SE Engine

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

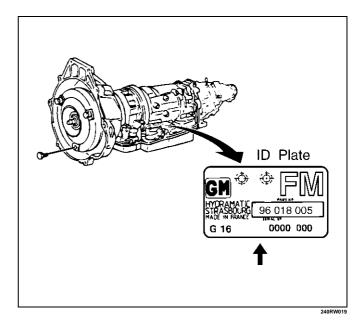


Transmission Serial Number

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



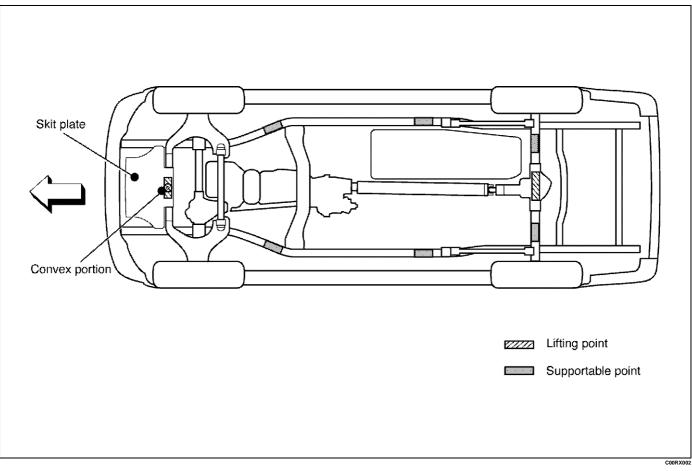
Automatic : Stamped on the identification plate, located on the left side of the transmission above the mode switch.



Lifting Instructions

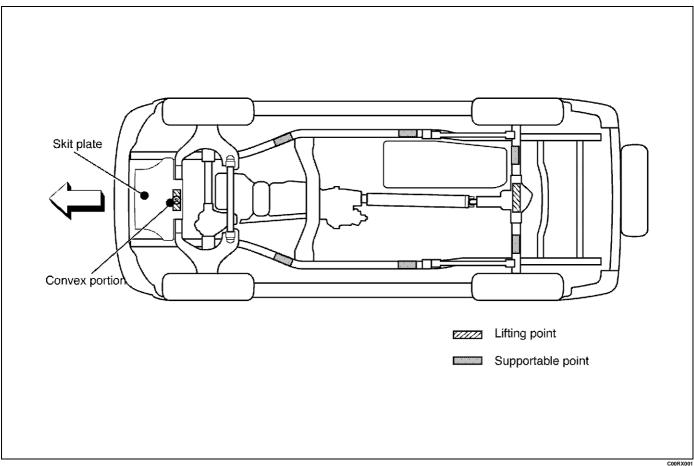
Lifting Points and Supportable Point Locations

4 Door Model



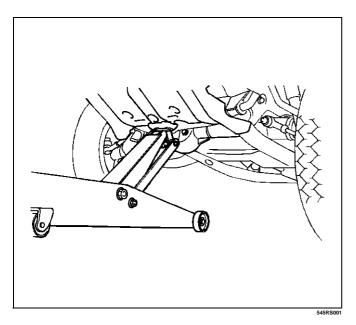
0A–6 GENERAL INFORMATION

2 Door Model



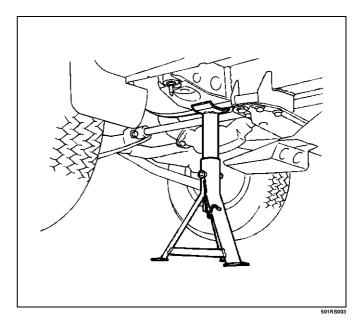
Lifting Point: Front

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



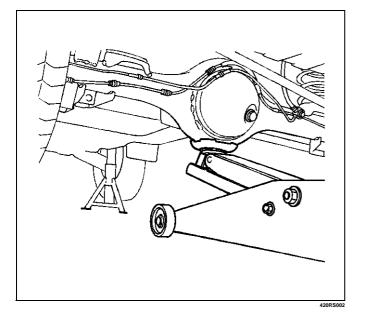
Supportable Point: Front

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



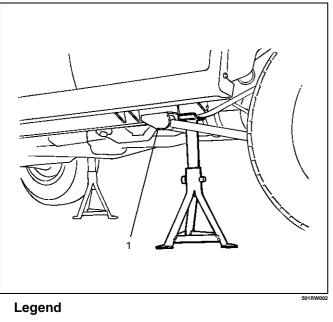
Lifting Point: Rear

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



Supportable Point: Rear

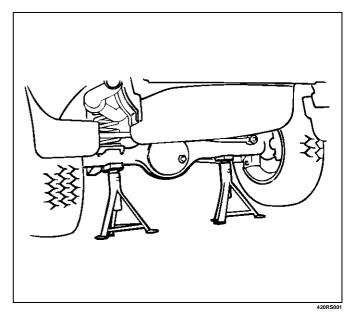
• Position the chassis stands at the bottom of the frame sidemember, just behind the trailing link bracket.



(1) Trailing Link Bracket

Supportable Point: Rear

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



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
Strength Class		Refined	Non-Refined	
Bolt	4	(\odot)	$(\underline{\otimes})$	(\mathcal{I})
Identification	No mark			
Bolt Diameter × Pitch (mm)				
M 6X1.0	4 – 8 N⋅m (3 – 6 lb ft)		m (4 – 7 lb ft)	-
M 8X1.25	8 - 18 N·m (6 - 13 lb ft)		m (9 – 17 lb ft)	17 - 30 N·m ($12 - 22$ lb ft)
M 10X1.25 * M10X1.5	21 – 34 N⋅m (15 – 25 lb ft) 20 – 33 N⋅m (14 – 25 lb ft)		n (20 – 34 lb ft) n (20 – 33 lb ft)	37 – 63 N⋅m (27 – 46 lb ft) 36 – 60 N⋅m (27 – 44 lb ft)
M12X1.25	49 - 74 N·m ($36 - 54$ lb ft)		n (45 – 67 lb ft)	76 - 114 N·m ($56 - 84$ lb ft)
* M12X1.25	45 - 69 N·m (33 - 51 lb ft)		n (42 – 62 lb ft)	$72 - 107 \text{ N} \cdot \text{m} (53 - 79 \text{ lb ft})$
M14X1.5	77 – 115 N⋅m (56 – 85 lb ft)		n (69 – 103 lb ft)	114 – 171 N⋅m (84 – 126 lb ft)
* M14X2.0	., 72 – 107 N⋅m (53 – 79 lb ft)		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∙r	n (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)		n (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∙r	n (199 – 299 lb ft)	317 – 476 N⋅m (234 – 351 lb ft)
M22X1.5	251 – 414 N⋅m (185 – 305 lb ft)		n (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∙r	n (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) ABS — Antilock Brake System AC — Alternating Current A/C — Air Conditioning ACCEL — Accelerator ACC — Accessory ACL — Air Cleaner Adj — Adjust A/F — Air Fuel Ratio AIR — Secondary Air Injection System Alt — Altitude AMP — Ampere(s) ANT — Antenna ASM — Assembly A/T — Automatic Transmission/Transaxle ATDC — After Top Dead Center ATF — Automatic Transmission Fluid Auth — Authority Auto — Automatic BARO — Barometric Pressure Bat - Battery B+ — Battery Positive Voltage Bbl - Barrel BHP — Brake Horsepower BPT — Backpressure Transducer BTDC — Before Top Dead Center ° C — Degrees Celsius CAC — Charge Air Cooler Calif — California cc — Cubic Centimeter CID — Cubic Inch Displacement CKP — Crankshaft Position CL - Closed Loop CLCC — Closed Loop Carburetor Control CMP — Camshaft Position CO — Carbon Monoxide Coax — Coaxial Conn — Connector Conv — Converter Crank — Crankshaft Cu. In. — Cubic Inch CV — Constant Velocity Cyl - Cylinder(s) DI — Distributor Ignition Diff - Differential Dist — Distributor DLC — Data Link Connector DOHC — Double Overhead Camshaft DTC — Diagnostic Trouble Code DTM — Diagnostic Test Mode DTT — Diagnostic Test Terminal DVM — Digital Voltmeter (10 meg.) DVOM — Digital Volt Ohmmeter EBCM — Electronic Brake Control Module ECM — Engine Control Module ECT — Engine Coolant Temperature

EEPROM — Electronically Erasable Programmable Read Only Memory EGR — Exhaust Gas Recirculation EI — Electronic Ignition ETR — Electronically Tuned Receiver EVAP — Evaporation Emission Exh — Exhaust ° F — Degrees Fahrenheit Fed — Federal (All States Except Calif.) FF — Front Drive Front Engine FL — Fusible Link FLW — Fusible Link Wire FP — Fuel Pump FRT — Front ft — Foot FWD — Front Wheel Drive 4WD — Four Wheel Drive 4 x 4 — Four Wheel Drive 4 A/T — Four Speed Automatic Transmission/Transaxle Gal — Gallon GEN — Generator GND — Ground Gov — Governor g — Gram Harn — Harness HC — Hydrocarbons HD — Heavy Duty Hg — Hydrargyrum (Mercury) HiAlt — High Altitude HO2S — Heated Oxygen Sensor HVAC — Heater-Vent-Air-Conditioning IAC — Idle Air Control IAT — Intake Air Temperature IC — Integrated Circuit / Ignition Control ID — Identification / Inside Diameter IGN - Ignition INJ — Injection IP — Instrument Panel IPC — Instrument Panel Cluster Int - Intake ISC — Idle Speed Control J/B — Junction Block kg — Kilograms km — Kilometers km/h - Kilometer per Hour kpa — Kilopascals kV — Kilovolts (thousands of volts) kW - Kilowatts KS — Knock Sensor L — Liter lb ft — Foot Pounds lb in — Inch Pounds LF — Left Front LH — Left Hand LR — Left Rear LS — Left Side LWB — Long Wheel Base L-4 — In-Line Four Cylinder Engine MAF — Mass Air Flow MAN — Manual

0A–10 GENERAL INFORMATION

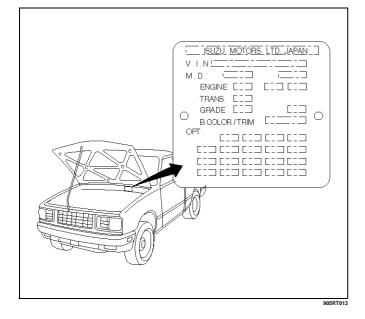
MAP — Manifold Absolute Pressure Max — Maximum MC — Mixture Control MFI — Multiport Fuel Injection MIL — Malfunction Indicator Lamp Min — Minimum mm — Millimeter MPG — Miles Per Gallon MPH — Miles Per Hour M/T — Manual Transmission/Transaxle MV — Millivolt N — Newtons NA — Natural Aspirated NC — Normally Closed N·M — Newton Meters NO — Normally Open NOX — Nitrogen, Oxides of OBD — On-Board Diagnostic OD — Outside Diameter O/D - Over Drive OHC — Overhead Camshaft OL - Open Loop O2 — Oxygen O2S — Oxygen Sensor PAIR — Pulsed Secondary Air Injection System P/B — Power Brakes PCM — Powertrain Control Module PCV — Positive Crankcase Ventilation PRESS — Pressure PROM — Programmable Read Only Memory PNP — Park/Neutral Position P/S — Power Steering PSI — Pounds per Square Inch PSP — Power Steering Pressure Pt. — Pint Pri — Primarv PWM — Pulse Width Modulate Qt. - Quart REF — Reference RF — Right Front RFI — Radio Frequency Interference RH - Right Hand RPM — Revolutions Per Minute RPM Sensor — Engine Speed Sensor **RPO** — Regular Production Option RR — Right Rear RS — Right Side RTV — Room Temperature Vulcanizing RWAL — Rear Wheel Antilock Brake RWD — Rear Wheel Drive SAE — Society of Automotive Engineers Sec — Secondary SFI — Sequential Multiport Fuel Injection SI — System International SIR — Supplemental Inflatable Restraint System SOHC — Single Overhead Camshaft Sol — Solenoid SPEC — Specification Speedo — Speedometer SRS — Supplemental Restraint System

ST — Start / Scan Tool Sw — Switch SWB — Short Wheel Base SYN — Synchronize Tach — Tachometer TB — Throttle Body TBI — Throttle Body Fuel Injection TCC — Torque Converter Clutch TCM — Transmission Control Module TDC — Top Dead Center Term — Terminal **TEMP** — Temperature TOD— Torque On Demand TP — Throttle Position TRANS — Transmission/Transaxle TURBO — Turbocharger TVRS — Television & Radio Suppression TVV — Thermal Vacuum Valve TWC — Three Way Catalytic Converter 3 A/T — Three Speed Automatic Transmission/ Transaxle 2WD — Two Wheel Drive 4 x 2 — Two Wheel Drive U-joint - Universal Joint V — Volt(s) VAC — Vacuum VIN — Vehicle Identification Number VRRRE — Vehicle Refrigerant Recovery and Recycling Equipment V-ref — ECM Reference Voltage VSS — Vehicle Speed Sensor VSV — Vacuum Switch Valve V-6 — Six Cylinder "V" Engine V-8 — Eight Cylinder "V" Engine W — Watt(s) w/ — With w/b — Wheel Base w/o — Without WOT — Wide Open Throttle

Service Parts Identification Plate

The Vehicle Information Plate (Service Parts ID plate) is provided on all vehicle models.

It is located on the center dash wall inside the engine compartment. The plate lists the VIN (Vehicle Identification Number), paint information and all production options and special equipment on the vehicle when it was shipped from the factory.



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.

Recommended Liquid Gasket	0B -	12
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Maintenance Service Data	0B -	14

0B-2 MAINTENANCE AND LUBRICATION

Service and Maintenance

SERVICE AND MAINTENANCE	CE																		:
Maintenance schedule																			
I: Inspect and correct or replace as necessary A: Ao R: Replace or change T: Tighten to specified torque	cess; to sp	ary ecifie	d∙tor(A: Adjust torque	ust L:		Lubricate	e											
SERVICE INTERVAL: × 1,000 km (Use odometer reading or months whichever comes first)	2	10	15	20	25	30	35 4	40	45	20	55 6	60 6	65 7	70 7	75 8	80 8	85 90	95	100
or months	9	12	18	24	30	36	42	48	54	60	66 7	72 7	78 8	84 9	6 06	96 10	102 108	8 114	t 120
GASOLINE ENGINE *Engine oil *Ga Engine oil filter *Ga Engine oil filter Oil leakage and contamination Ga Timing belt Ga Timing belt		<u>а</u> аа –	1 1 1 1	<u>م</u> م ا –	U U U U U U U U	R R R –	every		00 km ace e	н н н н н н н н н н н н н н н н н н н		R - R - R - R - R - R - R - R - R - R -		R R R 120,000 km					асас I —
G4 Engine/Accessory drive belt G6 Fan belt tension and damage G4 Spark plugs G6 Spark plugs	I — I	I — I	111	ı — I	1	ı – ۲	1 1 1	(Repl			100,00						I — œ		
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*Marks: Under severe driving conditions, additional maintenance is required. Refer to "Maintenance schedule under severe driving conditions".	mainte vere dri	enance iving cc	is requ	uired. ns".															

Maintenance schedule																			
l: Inspect and correct or replace as necessary A: A R: Replace or change T: Tighten to specified torque	cess to sp	ary ecifie	A: ed'torq	due gue	Adjust ue L	۲ ۲	Lubricate	ate											
SERVICE INTERVAL: × 1,000 km (Use odometer reading or months whichever comes first)	പ	10	15	20	25	30	35	40	45	20	55	60	65	70	75				95 100
or months	9	12	18	24	30	36	42	48	54	60	66	72	78	84	6	96	102 1	108 1	114 120
Fuel leakage Fuel tank	-	- 1			1 1	– I	11		11	- 1	11		1 1	ı	1 1				
*Air cleaner element	ł		I		I		I	- @	I		I		I	_	I	- œ	I		
V Pre air cleaner		_		_	_	-	_	_	_		_	_	_		_		_		
Idling speed and acceleration	_	_	I		1	-, ^ζ	ı -	- (Re	– – – – (Replace every 150,000 km)	l every	- 150,(00 kr	- î		1	_	I	_	_
Lutch CLUTCH Clutch fluid						5	(Check and adjust if necessary every 96,000 km)	and ac	ljust n	. nece	ssary	every	0 996	л у С Кл	Ē	-			
Clutch pedal travel and play	ı —	ı —	I I	ı —	1 1	ı —	I I		I I	ı —	I I	ı —	1 1	ı —	1 4		1 1	ı —	· -
TRANSMISSION OR TRANSMISSION WITH TRANSFER CASE *Manual transmission with transfer case oil Oil leakage Gear control mechanisum for looseness * AT Automatic transmission fluid * AT Transfer case oil	I — I I I	с- I I с	I — I I I		I - I I I		1 — 1 1 1	ш — — — ш	ı — I I I		I — I I I			— — I I —	. —	œ – – – œ	. –		· - · · ·
PROPELLER SHAFT Loose connections *Universal joints and splines for wear Universal joints and sliding sleeve			1 1 1		1 1 1]		— — <u> </u>	1 1 1	— — <u> </u>	1 1 1		1 1 1		I I I		1 1 1		

Maintenance schedule																				
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or months whichever comes first)	9	12	18	24	30	36	42	48	54	09	99	72	78	84	06	96	102	108	114	120
FRONT AND REAR AXLE																				
*Differential gear oil (Front and rear)	I	œ	I	_	I	I	I	œ	I	I	I	_	I	ł	I	œ	I	I	ł	
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Shift on the fly system																				
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Front axle shaft rubber boot for damage Axle case for distortion or damage		1 1	I I		I I	1 1	1 1		1 1	1 1	I I		1 1	I I	1 1		1 1	I I	1 1	
Axle shafts for distortion or damage	I	I	I	_	I	I	I	_	I	I	I	_	I	I	I	_	I	I	L	
STEERING																				
Steering gear oil	I	I	I	ł	I	I	I	I	I	1	I	_	I	I	I	I	I	I	I	I
Power steering fluid	ł	ł	I	I	I	I	I	—	I	I	I	I	I	I	I	_	I	I	I	I
Oil leakage			_			_		—	_		_	_	_	_			_	_	_	—
*Steering system for looseness or damage	I		I	_	ł		I	—	1		I	_	ł	_	I	_	ł	_	I	-
Power steering hose	I		I	_	I		I	_	I	<u> </u>	t	_	I	œ	I		I	_	ł	-
Steering wheel play			_		_			—	_	_	_	_	_	_	_			_		—
Steering function		_	—	_	_	_		—	_	_			_	_		_		_		-
Right and left turning radius	I	I	1	—	ı	I	ı	—	ı	ı	I	_	I	I	ł	_	I	I	ŀ	—
Wheel alignment	I	I	T	_	I	I	I	_	I	ł	I	_	1	ł	I	_	I	I	I	
Joint ball for oil leakage or damage	1	_	1	_	1		I	_	I	_	I		I	_	I	_	I	_	I	
Joint ball rubber boot for damage	I	_	I		I	_	i	_	ł	_	I	_	I	_	I	_	I	_	I	

Maintenance schedule L: Inspect and correct or replace as necessary A: Adjust R: Replace or change T: Tighten to specified torque L: Lubricate R: Replace or change T: Tighten to specified torque L: Lubricate SERVICE INTERNAL: x1.000 km 5 10 15 26 36 40 45 50 55 60 65 75 80 85 90 96 102 108 114 120 SERVICE INTERNAL: x1.000 km 5 10 15 20 36 42 48 54 60 66 72 78 84 90 96 102 108 114 120 or months winchevicromes first 6 12 18 24 36 42 48 54 66 72 78 90 96 102 108 114 120 SERVICE Internation months 11 1 2 18 24 36 42 48 54 66 75 78 90 96 102 14 12 14

Isuzu Exp Ubs Workshop Manual Part 2

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0B–6 MAINTENANCE AND LUBRICATION

SERVICE AND MAINTENANCE	CE																		
Maintenance schedule		;																	
I: Inspect and correct or replace as necessary A: Ac R: Replace or change T: Tighten to specified torque	cessai o spe	ry cified	A: · torq	A: Adjust torque	list L:		Lubricate	⁽¹⁾											
SERVICE INTERVAL: × 1,000 km (Use odometer reading × 1,000 miles or months whichever comes first) or months	യ ന വ	10 10 10	15 9 18	20 12 24	25 15 30	30 3 18 2 36 4	35 4 21 2 47 4	40 4 24 2 48 5	45 5 27 3 54 6	50 5 30 3 60 6	55 60 33 36 66 72	5 65 5 39 78	70 70 84	75 45 90	9 48 9) 85 3 51 3 102	54 54	95 57 114	100 60 120
SUSPENSION																			
Leaf springs for damage Mount for looseness or damage			1 1		1.1	 		_ '				11		11				1 1	<u> </u>
Shock absorbers for oil leakage	I	_	ł	_	1	' 	-	1	-	1		I		I	· —	Ι	-	I	
Shock absorbers mount for looseness Rubber bushes of suspension wear or	I		I		I		_			-	-	I	-	I	_	I	-	I	-
damage	I	_	I	_	I	_	-	•	-	ı 		I	_	ł	_	I	—	I	—
spring action for loss of balance due to weakening Joint ball rubber boot for damage	11	ı —	1 1		1 1	· ·				1 1		11	ı —	1 1		I I	ı —	1 1	
WHEELS Wheel nuts Wheel disc for damage Hub bearing grease Front and rear hub bearings for looseness Tire pressure and damage Tire rotation	⊢ − । । −	⊢ – । – –	1 1 1	⊢ – I – –		⊢ – œ – <i>–</i>		· · · · · <u>·</u>	Botate as	as certain a second sec		. ~ ~	⊢ – । – –		⊢ – । – –		\vdash - \sqsubset		⊢ -
OTHERS Bolts and nuts on chassis and body Lube front free - wheeling hubs	— 1	— I	1 1	- 1	1 1	· · — _	1		1			I I	- 1	1 1	1	1 1		I I	- 1
*Marks: Under severe driving conditions, additional maintenan Refer to "Maintenance schedule under severe driving	mainter ere driv	iance i ing cor	ce is required conditions".	s".															