

## Engine

Series:	Isuzu 4JJ1-TC Hi-Power
Description:	3.0 litre turbo-diesel, in-line 4-cylinder, DOHC, 16-valve
Maximum torque:	360 Nm @ 1800 —> 2800 rpm (manual) 333 Nm @ 1600 —> 3200 rpm (automatic)
Maximum power:	120 kW @ 3600 rpm
Bore x stroke:	95.4 mm x 104.9 mm
Displacement:	2999 cc
Compression ratio:	17.5 : 1
Cylinder head:	Isuzu-patent special aluminium alloy with double-walled water jacketing
Valve gear:	Chain-driven dual overhead camshafts, roller rockers, 4 valves/cylinder
Induction:	Electronic ultra high pressure direct fuel injection with VSS (Variable Swirl System) via common rail & intercooled VGS (Variable Geometry System) turbo
Cylinder block:	Cast iron upper w/induction-hardened cylinder bores, cast alloy lower; special pistons with nickel composite oil rings
Emission level:	Euro 4
Alternator:	90 amp

## Transmissions

Manual:	Isuzu MUX 5-speed manual with high torque capacity & output reduction. 275mm diameter clutch plate.		
Automatic:	Maximatic III electronically controlled, tri-mode with Adaptive Grade Logic Control & fuel-saving lock-up torque converter on gears 2, 3 & 4 Adaptive Grade Logic Control: holds gear 3 in varied-gradient ascents, selects 3 on steep descents to hold speed w/engine braking Power Mode (changes up at higher revs/power) & '3rd' Mode (starts in 3rd gear to avoid wheelspin on ice/snow/slippery road)		
Ratios:1:		<b>Manual</b>	<b>Automatic</b>
	1st	4.326	2.804
	2nd	2.557	1.532
	3rd	1.490	1.000
	4th	1.000	0.705
	5th	0.790	—
	Reverse	3.942	2.394
Final drive:	4x2	SX 3.416	4.100
		LS 3.727	4.100
	4x4	3.727	4.100
	Limited slip rear differential — all models. Snorkelled diff breathers to increase fording depth & reduce mud blockage		
Transfer Gearing:	4x4 low range	2.482	2.482
	4x4 high range	1.000	1.000
4x4 system:	Dash-mounted push button mode selection, including 'shift on the fly' 4H <—> 2WD selection at up to 100km/h. Ultra low 40:1 manual first gear low range with stall-saver for idle speed crawl & max engine-braking on steep descent		

## Chassis

Frame:	Separate, full-length heavy-duty truck chassis with 7 cross members (8 on 4x4 & 4x2 Hi-Ride models) including rear rails K-brace Extra-long wheelbase (3200mm) for cab/chassis
Suspension Front:	4x2 SX manual: Independent, coil springs, double-acting gas shock absorbers, upper & lower wishbones, stabilizer bar Other: Independent, hi-rise torsion bars, double-acting gas shock absorbers, upper & lower wishbones, stabilizer bar
Suspension Rear:	Alloy-steel underslung semi-elliptic leaf springs, heavy-duty on cab/chassis; High-Ride on 4x4, LS 4x2, SX 4x2 auto crew ute; gas shock absorbers

## Axles

Front:	Independent. 4x4: fully floating with outer constant velocity & inner double offset joints. Equal length driveshafts. Ratings: 4x2: 1200kg; 4x4: 1300kg
Rear:	Rigid semi-floating banjo with hypoid final drive. Limited slip differential all models. Dual tapered needle roller bearings. Rating: 1680kg

## Steering

Engine-speed-sensitive power-assisted rack & pinion system;  
3.2 turns lock-to-lock via (n/a on EX) tilt-adjustable wheel.

## Brakes

Power-assisted via tandem 9" + 8" servo unit; 280mm dia ventilated front discs with 2-pot calipers, 295mm rear drums  
ABS with EBD (Anti-skid Brake System with Electronic Brakeforce Distribution) & steep slope disabling (n/a on EX)  
Central pull up park brake (under-dash pull out type on EX/bench seat model)

## Wheels & Tyres

4x2 SX manual	15" x 6.5"	drilled silver-finish steel; 215/70 R15 LT
4x2 SX High-Ride	16" x 7"	drilled silver-finish steel; 245/70 R16 LT
4x4 EX, SX.	16" x 7"	drilled silver-finish steel; 245/70 R16 LT
LS, LS-M, LS-U	16" x 7"	alloy (including spare); 245/70 R16

## Warranty

3 years or 100,000km, which ever occurs first. Isuzu UTE Extended Warranty available at extra cost.

## Fuel use @ ADR81/02\* (litres/100km)

	Combined	Urban	Extra Urban	CO2 (g/km) Combined
4x2 SX Single Cab/chassis manual	7.9	10.4	6.5	208
4x2 SX Crew Cab Ute manual (Low-Ride)	8.1	10.0	7.0	213
4x2 SX Crew Cab Ute auto (High-Ride)	9.0	10.9	7.9	237
4x2 LS Crew Cab Ute manual	8.4	10.5	7.2	222
4x2 LS Crew Cab Ute auto	9.0	10.9	7.9	237
4x4 EX Single Cab/chassis manual	8.1	10.0	7.0	213
4x4 SX Single Cab/chassis manual	8.1	10.0	7.0	213
4x4 SX Space Cab/chassis manual	8.1	10.0	7.0	213
4x4 SX Crew Cab/chassis manual	8.4	10.5	7.2	222
4x4 SX Crew Ute manual	8.4	10.5	7.2	222
4x4 SX Crew Ute auto	9.0	10.9	7.9	237
4x4 LS-U/LS-M Crew Ute manual	8.4	10.5	7.2	222
4x4 LS-U/LS-M Crew Ute auto	9.0	10.9	7.9	237

\*ADR 81/02 is the federal government's standard laboratory based test regime. Your fuel figures will depend on driving style, conditions of usage, vehicle condition and load, and other factors.

It is intended that all technical specifications be read in conjunction with the current Isuzu D-MAX brochure.  
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