



Model: FRR 500
GVM: 10,400kg
GCM: 14,890kg (std)
Engine type: Isuzu SiTEC 175
Displacement: 8226cc
Power: 129kW @ 2800rpm
Torque: 490Nm @ 1700rpm

FRR 500

Cab/Chassis specification as at January 1999.

RGS/IGM2699

CABIN SPECIFICATIONS AND APPOINTMENTS

CAB EXTERIOR

- All steel cab with welded strengthening ribs and side door impact beams. Torsion bar assisted manual tilt to 45°.
- 4 silicone filled rubber cab isolators.
- Cation electrodeposition primer.
- Bumper bar with step holes and footplate.
- Halogen headlamps, hinged for easy bulb replacement. Park lamps and cab clearance lamps.
- Turn signal lamps in front bumper and doors.
- 2 speed wiper/washer with variable intermittent mode. Triple washer jets mounted on wiper arms.
- Tinted, laminated windscreen; tinted, toughened side and rear glass.
- West Coast type rear-view mirrors.
- Alloy non-slip cab entry steps.
- Lift up front access panel for clutch and windscreen washer fluids, cab air filter screen.
- Engine and brake fluid check points at rear of cab.

CAB INTERIOR

- Fully trimmed cab interior with cloth seat facings, formed roof lining. Overhead storage lockers. Driver and passenger sun visors.
- Pull out drinks holder in centre fascia, cigarette lighter with ashtrays in doors.

- Driver's seat with mechanical suspension and 3 way lumbar support. Adjustment for seat back recline, seat slide and weight control.
- Outboard reclining passenger seat with under-seat storage drawer. Folding centre seat back with lockable compartment and tray.
- Outboard lap/sash seat belts with emergency locking retractors, centre lap seat-belt.
- Tilt/telescopic adjustable steering column, soft feel urethane steering-wheel.
- Easy entry grab handles on 'A' pillars.
- Heater demister with 4 speed fan, 4 outlet vents to screen, 5 fascia outlets, 5 foot outlets, demister ducts to door glass.
- Eurovox AM/FM radio cassette with digital clock, dash mounted. Remote seek/volume and mute switch located on dash to right of steering wheel.
- DIN standard aperture in dash for CB radio.
- 12 Volt /100W cigarette lighter type electrical socket located in centre console.
- 24 Volt - 2 pin accessory plug in centre console.
- Park brake activation lever at left side of driver's seat.
- Rear vision mirror.
- Passenger side assist grip.
- Driver's left foot rest.
- Cab exhaust vents rear/upper cab.
- Business card clip. Coat hook at rear of cab.
- Elastic mesh pocket on driver's door.

CONTROLS

- Left side combination stalk switch for exhaust brake, windscreen wipers and washers, hazard lamps.
- Right side combination stalk switch for headlamps, high beam and turn signals.
- Engine idle speed adjust control.
- Key operation for engine start and stop, external engine crank switch for service when cab is tilted.
- 3 way switch for interior lamp activated by driver and passenger doors.

INSTRUMENTATION

- GAUGES: Speedometer, odometer, tripmeter and tachometer. Gauges for coolant temperature, fuel level and brake air pressure.
- INDICATOR LAMPS: Turn signals, parking brake on, high beam on, exhaust brake engaged. Reversing lamp and beeper.
- WARNING LAMPS: With warning bulb check switch. Battery charge, oil pressure, low air pressure, brake system, stop and tail light failure.

TOOLS

- Lockable tool box. 7000kg capacity jack and wheel changing tools, tool kit.

ISUZU NEW TRUCK WARRANTIES

12 MONTHS	24 MONTHS	36 MONTHS
	24 MONTH NEW VEHICLE WARRANTY	TRUCKPOWER EXTENDED NEW VEHICLE WARRANTY*
	36 MONTH POWERTRAIN WARRANTY	
	36 MONTH CAB CORROSION WARRANTY	

*36 months or 150,000kms whichever occurs first.

12 MONTHS	24 MONTHS	36 MONTHS	48 MONTHS
	24 MONTH NEW VEHICLE WARRANTY	TRUCKPOWER EXTENDED NEW VEHICLE WARRANTY*	
	36 MONTH POWERTRAIN WARRANTY		
	36 MONTH CAB CORROSION WARRANTY		

*48 months or 200,000kms whichever occurs first.

12 MONTHS	24 MONTHS	36 MONTHS	48 MONTHS	60 MONTHS
	24 MONTH NEW VEHICLE WARRANTY	TRUCKPOWER EXTENDED NEW VEHICLE WARRANTY*		
	36 MONTH POWERTRAIN WARRANTY			
	36 MONTH CAB CORROSION WARRANTY			

*60 months or 250,000kms whichever occurs first.

Subject to the conditions outlined in the I-GM New Vehicle Warranty, the Isuzu FRR models carry a standard factory warranty which covers the owner: (i) for the entire vehicle, for the first 24 months or 100,000km (whichever comes first) (ii) for the powertrain, which runs concurrently for 36 months or 150,000km (whichever comes first) (iii) against cab corrosion, for 36 months and unlimited kilometres.

A TruckPower Extended Warranty as illustrated is available by purchase to cover the owner against the failure of original components, but excludes some components and expendable items such as oil, filters, etc. Please consult with your Isuzu Dealer for full details obtainable from a dedicated brochure available to customers.

ISUZU
RELIABILITY IS EVERYTHING

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DRIVELINE SPECIFICATIONS

ENGINE: ISUZU SITEC 175

Isuzu 6HH1-N 6 cylinder, overhead camshaft, four stroke, direct injection, diesel.

BORE X STROKE: 115 mm x 132 mm.

DISPLACEMENT: 8226 cc.

COMPRESSION RATIO: 18.5 : 1.

POWER: 129 kW @ 2800 RPM. (ISO 1585)

TORQUE: 490 Nm @ 1700RPM. (ISO 1585)

COOLING SYSTEM

- 6 blade plastic cooling fan 500mm diameter with thermatic fan clutch. Corrugated fin radiator with fan shroud. Frontal area 3820 cm². Coolant capacity 23.3 litres.

AIR INTAKE SYSTEM

- Donaldson 11" two stage with vertical air intake stack and rain head.

EXHAUST SYSTEM

- Horizontal exhaust muffler with vertical exhaust stack.
- Exhaust brake, air controlled.

FUEL SYSTEM

- In line plunger, Bosch 'AD' type fuel injection pump with mechanical all speed governor. In line filter, see through water separator with drain cock.
- Single fuel tank, capacity 180 litres.

CLUTCH

- Hydraulic control dry single plate. 355 mm (14") diameter.
- Asbestos free lining material. Total lining area (both sides) 966 cm².

TRANSMISSIONS

ISUZU MBJ5J 5 speed direct drive

- Constant mesh with synchromesh on gears 2-5. Oil capacity 4.4 litres.

- Gear ratios to 1:

1st	2nd	3rd	4th	5th	Rev
6.378	3.627	2.307	1.452	1.000	6.595

- Maximum geared speed 108 km/h.

ALLISON AT545

4 speed automatic (Optional transmission only available on Medium/4250mm wheelbase)

- Oil capacity: 18.5 litres

- Gear ratios to 1:

1st	2nd	3rd	4th	Rev
3.454	2.254	1.407	1.000	5.025

- Maximum geared speed 108 km/h.

ISUZU MBJ6T WITH FLYWHEEL PTO

6 speed overdrive (Optional transmission only available on Medium/4250mm wheelbase)

- Constant mesh with synchromesh on gears 2-6. Oil capacity 5.3 litres

- Gear ratios to 1:

1st	2nd	3rd	4th	5th	6th	Rev
6.378	3.627	2.307	1.452	1.000	0.787	6.595

- Maximum geared speed 116 km/h.

Flywheel Power Take Off.

- Drive ratio (PTO/Engine RPM): 0.7:1.
- Maximum Output Torque: 353Nm.
- Output flange rotates in same direction as engine.

FRONT AXLE

ISUZU F036 CAPACITY 3600KG

- Reverse Elliot I-beam type. King Pin diameter 35 mm with cylindrical roller thrust bearing.

REAR AXLE

ISUZU R077 CAPACITY 7700KG

- Banjo type, fully floating, single reduction.
- Hypoid type ring gear, 343 mm diameter. Oil capacity 5.5 litres.
- Rear Axle Ratio: 1

Short	Med	Long	Auto	PTO
	4.333			5.125

CHASSIS SPECIFICATIONS

CHASSIS FRAME

- Parallel rail, ladder type channel section, cold rivetted.
- Straight frame for easy body mounting. Frame width 840 mm.
- Side member dimensions 225mm x 70mm x 6mm.
- Frame reinforcement angle section 203mm x 64mm x 4.5mm at back of cab.
- Material HT540A high tensile, weldable steel.

SUSPENSION

Semi-elliptical, alloy steel tapered multi-leaf springs. Fully wrapped eye with greasable shackles.

FRONT

- 1200mm x 70mm x 10mm x 8 leaves.
- Hydraulic, double acting, telescopic shock absorbers.

REAR

- Main: 1300 x 70mm x 11mm x 8 leaves
- Aux: 850 x 70mm x 10mm x 3 leaves
- 850 x 70mm x 11mm x 4 leaves

BRAKES

- Air over hydraulic, dual circuit, front two leading, rear dual two leading. Drum diameter front and rear 320 mm. Total swept area 5127 cm².
- Air dryer.
- Nylon brake air tubing.
- Asbestos free lining material.
- Park Brake: Mechanical, internal expanding at rear of transmission.
- FRR 500 Short/Medium/Long:** Spring type, acting on rear wheels.
- FRR Auto/PTO:** Spring type, acting on rear wheels.

STEERING

- Fully integral power assisted recirculating ball type.
- Gear ratio 16.1 ~ 18.8 : 1. Turns lock to lock 4.1.
- Gear driven vane type oil pump. Oil capacity 1.5 litres.

WHEELS AND TYRES

WHEELS

- 6.00 x 17.5, 6 stud disc wheels.
- Number of wheels and tyres 7, including spare. Winch type spare wheel carrier.

TYRES

- 225/90R17.5 128/126L tubeless radial tyres front and rear
- Type: Yokohama RY058.
- Load and speed ratings per tyre: 1800 kg (single) / 1700 kg (dual) / 120 km/h.

ELECTRICAL SYSTEM

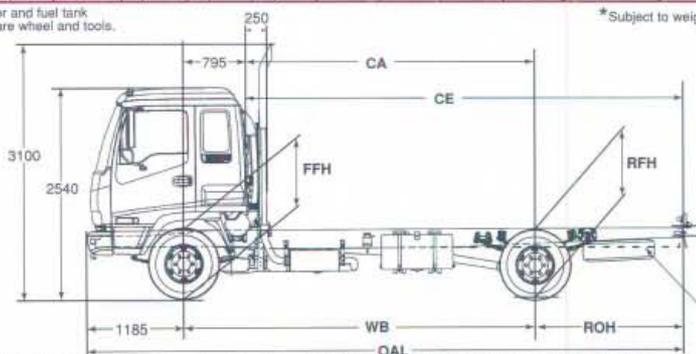
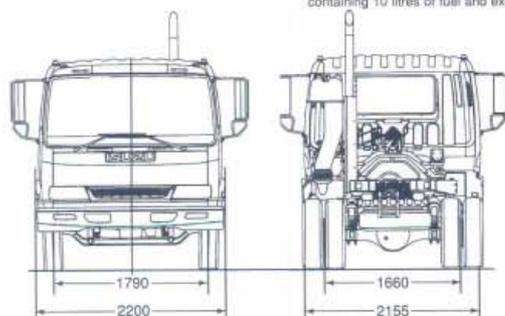
- Batteries - 2 x 12 volt / 65 amp/h, negative earth.
- Alternator - 24 volt / 40 amp.
- Starter motor - 24 volt / 4.5 kW.
- Rear stop and tail lamps and licence plate lamp with long leads for variable body mounting.

MODEL RATINGS AND DIMENSIONS

MODELS	RATINGS		TARE MASS*			DIMENSIONS (mm)								TURNING CIRCLE	NOMINAL MAX BODY LENGTH*	
	GVM	GCM	TOTAL	FRONT	REAR	WB	OAL	ROH	CA	CE	FFH UNLADEN	FFH LADEN	RFH UNLADEN			RFH LADEN
FRR 500 SHORT	10,400kg	14,890kg	3,040kg	2,100kg	940kg	3,780	6,570	1,605	2,985	4,590	800	770	875	809	12.2m	4,850
FRR 500 MEDIUM	10,400kg	14,890kg	3,080kg	2,090kg	990kg	4,250	7,220	1,785	3,455	5,240	800	770	875	809	13.4m	5,600
FRR 500 LONG	10,400kg	14,890kg	3,135kg	2,125kg	1,010kg	4,850	8,170	2,135	4,055	6,190	795	770	910	845	14.9m	6,560
FRR 500 AUTO	10,400kg	13,600kg	3,120kg	2,100kg	1,020kg	4,250	7,220	1,785	3,455	5,240	790	761	865	800	13.4m	5,600
FRR 500 PTO	10,400kg	16,000kg	3,160kg	2,130kg	1,030kg	4,250	7,220	1,785	3,455	5,240	790	761	865	800	13.4m	5,600

* Estimated mass of cab/chassis with oil, water and fuel tank containing 10 litres of fuel and excluding spare wheel and tools.

* Subject to weight distribution



For further information regarding Cab/Chassis dimensions your Isuzu Dealer can access detailed Body Builders diagrams from the Isuzu Truck Data Manual.