

ISUZU FRR 500 FRD 500





24 hour (3 year) Isuzu Assist program standard on all new Isuzu F Series models (refer to your Isuzu Dealer for details).

AT A GLANCE GVM 10,400 kg GCM 13,600 - 16,000 kg Engine Type Isuzu SiTEC 190 Displacement 7.8 L Power 141 kW @ 2,400 rpm Torque 582 Nm @ 1,500 rpm Wheelbase 4,250 - 5,150 mm

DRIVELINE & CHASSIS SPECIFICATIONS

ENGINE: SITEC 190 (ISUZU 6HK1-TCN)

Type: 6 cylinder, 4 stroke, 24 valve, SOHC, direct injection diesel. Turbocharged and air-to-air intercooled. Adjustable roller type rocker arms.

Displacement: 7,790 cc Compression Ratio: 16.8:1

Bore x Stroke: 115 x 125 mm

Max power (DIN NET): 141 kW (189 HP) @ 2,400 RPM Max torque (DIN NET): 582 Nm (429 lb.ft) @ 1,500 RPM Emissions Standard: ADP 80/00 (USEPA 1998)

- Emissions Standard: ADR 80/00 (USEPA 1998)
- Plate type oil cooler. 13.5 L oil capacity. Combined full flow main filter and bypass oil filter.

COOLING SYSTEM

- 8 blade, 640 mm diameter cooling fan with thermostatically controlled viscous clutch. Dual drive belts and thermostats.
- Radiator frontal area: 4,452 cm²
- 23 L coolant capacity.

AIR INTAKE SYSTEM

- Vertical air intake mounted on back of cab. Two stage Donaldson air cleaner with 280 x 380 mm main element and 160 x 350 mm secondary element.
- 540 x 580 mm air-to-air intercooler. **FUEL SYSTEM**
- Denso common rail fuel injection. Separate fuel filter and water separator.
- 180 L steel tank.

CLUTCH

- · Air assisted hydraulic control. Single plate 352 mm
- Asbestos free lining material.
- Total lining area: 1,164 cm²

TRANSMISSION

ISUZU MLD-6Q 6 Speed manual (Medium/Long)

- 6 forward speeds including overdrive.
- Syncromesh on gears 2-6. Air assisted gearshift.
- 6.5 L oil capacity.
- PTO provision on LHS of transmission case. PTO drive from counter gear.
- Gear ratios (: 1)
- 1st 2nd 3rd 4th 5th 6th Rev 6.720 4.244 2.580 1.540 1.000 0.763 6.823

ALLISON AT545 4 Speed automatic (Auto model)

- 4 forward speeds. Direct drive.
- 18.5 L oil capacity.
- PTO provision on RHS of transmission case.
- Gear ratios (: 1)
- 1st 2nd 3rd 4th Rev
- 3.454 2.254 1.407 1.000 5.025

AXLES

FRONT: ISUZU F036

- Reverse Elliot I-beam. 3,600 kg capacity.
 REAR: ISUZU R077
- Full floating Banjo type. 7,700 kg capacity.
- Drive ratio: 4.875:1 (All except FRR 500 Auto), 3.909:1 (FRR 500 Auto)

SUSPENSION

FRONT

• Single stage, alloy steel, taper leaf springs. Fully wrapped eye with greasable shackles.



• Nominal size: 1,350 x 70 mm

SiTEC 190

Power : 141 kW / 2,400 RPM

- Total spring capacity (at ground): 3,850 kg
- Double acting hydraulic shock absorbers. Stabiliser bar.

REAR FRR 500

- Two stage, alloy steel, multi-leaf springs. Fully wrapped eye with greasable shackles.
- Nominal size: 1,300 x 70 mm
- Total spring capacity (at ground): 7,330 kg REAR FRD 500
- Isuzu 4-bag air suspension.
- Total spring capacity (at ground): 7,330 kg
- · Double acting shock absorbers. Stabiliser bar.
- In cab adjustable height control unit available at extra cost.

<u>BRAKES</u>

- Dual circuit air over hydraulic brakes
- Front drum diameter: 320 mm
- Rear drum diameter: 320 mm
- Swept area: 5,127 cm²
- Asbestos free lining material.
- Spring type parking brake acting on rear wheels (FRR 500 spring park brake models and auto).
 216 mm diameter drum park brake mounted on rear of transmission (FRR 500 standard models and FRD).
- Air controlled exhaust brake (manual models only).
- Total air reservoir capacity: 21 L, 36 L (with spring park brake).
- Air dryer.

Torque : 582 Nm / 1,500 RPM 150 700 130 600 110 500 Power 1 (kV) Forque (Nm Power (90 400 70 300 50 200 500 1500 2500 Engine Speed (RPM) ISUZU SITEC 190 (6HK1-TCN) ENGINE PERFORMANCE CHART

STEERING

- · Power assisted recirculating ball steering.
- 16.1 18.8:1 gear ratio.
- 4.1 turns lock to lock.
- 51° wheel cut angle (inside wheel).

WHEELS AND TYRES

- 6.00J x 17.5 Six stud wheels.
- 9.5R17.5 129/127L Michelin XZA Tubeless tyres.
- Maximum tyre rating: 1,850 kg per tyre (single tyres). 1,750 kg per tyre (dual tyres).
- Frame mounted winch type spare wheel carrier (FRR only). Spare wheel and tyre assembly supplied.

AXLE LOAD SUMMARY

FRONT	REAR		
3,600	7,700		
3,850	7,330		
3,700	7,000		
3,600	7,000		
	3,600 3,850 3,700		

Note: Vehicle loading limit is determined by the combination of axle loading limit, GVM and GCM limit, and government regulatory requirements. Consult your lsuzu dealer to select the correct vehicle for your specific application.

CABIN SPECIFICATIONS AND APPOINTMENTS

CAB EXTERIOR

- All steel cab, side door impact protection beams. Outer body panels galvanised, corrosion resistant primer treated cab.
- Manual cab tilt to 45°. Access to fluid checkpoints without tilting cab. Front access panel for clutch, windscreen washer fluids and cab air filter screen. Four point silicone filled rubber cab mounting.
- Body coloured steel front bumper with step holes and integrated indicator and fog lamps.
- 90° opening internally reinforced door. Heavy duty aluminium non slip entry steps.
- Laminated windscreen. 2 speed windscreen wiper system, variable intermittent wipe mode, triple washer jets.
- Halogen headlamps. Park lamps and roof-mounted clearance lamps.
- Combination brake, turn, reverse and marker lamps, registration plate illumination lamps. Extended wiring harness. Reverse alarm.
- 'West Coast' type rear view mirrors. Large flat mirror glass with additional, independently adjustable convex 'spot' mirror on both sides.

CAB INTERIOR

- Driver's seat with mechanical suspension, reclining passenger bucket seat, centre seat with folding seat back.
- 3-point, lap sash seatbelts with emergency locking belt retractors in all outboard seating positions. Centre lap seatbelt.
- 'A' pillar entry assist grips. Interior lamp with On/Door/Off switch activated by either door.
- Full interior panel trim, padded roof lining, vinyl floor mats. Windscreen header storage shelf. DIN sized aperture in dash for CB.
- Tilt/Telescopic adjustable steering column, soft feel urethane steering wheel.

CHASSIS FRAME

- Cold riveted ladder frame with parallel side rails. HT540A high tensile weldable steel.
- Frame dimensions Side rail (mm): 225 x 70 x 6.0 Rear frame width (mm): 840
- Frame reinforcement angle section (Long only).
- ELECTRICAL SYSTEM
- 24 Volt electrical system.
- 24 Volt, 60 Amp alternator.
- 24 Volt, 4.5 kW starter motor.
- 2 x 75D23R (520CCA) batteries connected in series.

12 Volt, 100 Watt and 24 Volt, 2 pin accessory sockets located in centre console.

- · Electric windows.
- Central locking with remote keyless entry.
- Centre facia pullout drinks holder. Lockable compartment on centre seat back. Cigarette lighter.
- Heater/Demister with 4-speed fan and outlets for windscreen, side windows, face and floor.
- Standard fully integrated air conditioning.
 Two speaker radio/CD player with clock. CD player
- compatible with standard (WAV)/MP3/WMA music file types.Remote seek/volume and mute switch located on dash to right of steering wheel.

DRIVER CONTROLS

- Key-operated engine start/stop and steering lock. Electronic throttle control. Engine idle speed control.
- Left side combination stalk: Windscreen wipers, washers, exhaust brake (manual models) and hazard lights.
- Right side combination stalk: Turn signals and headlamps.
- T-bar gear selection (automatic model).

INSTRUMENTATION

- Gauges: Electronically driven speedometer, odometer, tripmeter, tachometer. Gauges for coolant temperature and brake air pressure.
- Warning lamps: Warning bulb check switch. Battery charge, brake system, engine malfunction, oil pressure, stop and tail lamp failure.
- Indicator lamps: Turn signals, parking brake, high beam, exhaust brake engaged.

FRR 500 Medium / Auto / Long FRD 500 Long

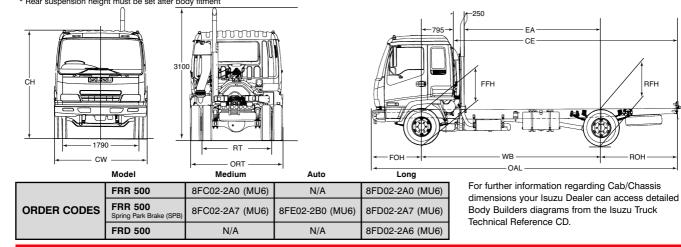
PERFORMANCE (Calculated)

	FRR 500 / FRD 500	FRR 500 AUTO					
Max Geared speed:	111 km/h @ 2,700 rpm	106 km/h @ 2,700 rpm					
Gradeability (lowest gear):	41% at 10,400 kg GVM	34% at 10,400 kg GVM					
Gradeability (top gear at 100 km/h):	1.3% (2.5 x 2.5 m van body at 10,400 kg GVM)	1.3% (2.5 x 2.5 m van body at 10,400 kg GVM)					
Engine speed (top gear at 100 km/h):	2,430 rpm	2,555 rpm					
Performance figures quoted are representative only and based on typical dimensions, body styles and weights. Please consult your lsuzu dealer for an estimation based on your specific application.							

MODEL RATINGS AND DIMENSIONS

MODELS	RATING	S (kg)	TARE	MASS [#]	#(kg) DIMENSIONS (mm)									TURN CIRCLE				
	GVM	GCM	TOTAL	FRONT	REAR	WB	OAL	FOH	ROH	EA	CE	RT	ORT	СН	CW	FFH UNLADEN		KERB TOKERB
FRR 500 Medium	10,400	16,000	3,210	2,165	1,045	4,250	7,195	1,160	1,785	3,205	5,240	1,660	2,165	2,595	2,200	725	885	13.4 m
FRR 500 Med SPB	10,400	16,000	3,255	2,170	1,085	4,250	7,195	1,160	1,785	3,205	5,240	1,660	2,165	2,595	2,200	725	885	13.4 m
FRR 500 Auto	10,400	13,600	3,190	2,120	1,070	4,250	7,195	1,160	1,785	3,205	5,240	1,660	2,165	2,595	2,200	725	885	13.4 m
FRR 500 Long	10,400	16,000	3,325	2,220	1,105	5,150	8,595	1,160	2,285	4,105	6,640	1,660	2,165	2,605	2,200	720	920	15.7 m
FRR 500 Long SPB	10,400	16,000	3,370	2,225	1,145	5,150	8,595	1,160	2,285	4,105	6,640	1,660	2,165	2,605	2,200	720	920	15.7 m
FRD 500 Long	10,400	16,000	3,425	2,240	1,185	5,150	8,595	1,160	2,285	4,105	6,640	1,660	2,165	2,605	2,200	720	770*	15.7 m

#Estimated mass of cab/chassis with oil, water and fuel tank containing 10 litres of fuel and excluding spare wheel (47 kg) and tools (30 kg).
* Rear suspension height must be set after body fitment



ISUZU NEW TRUCK WARRANTIES

STANDARD T	RUCKPOWER W	ARRANTY*	TRUCKPOWER EXTENDED WARRANTY OPTIONS						
New Vehicle	3 years	150,000 km							
Drivetrain	3 years	150,000 km	4 years 250,000 km	5 years 300,000 km	6 years 350,000 km				
Cab Corrosion	3 years	unlimited	230,000 Km	500,000 Kill	000,000 km				

* Subject to the conditions outlined in the IAL New Vehicle Warranty, the Isuzu FRR/FRD models carry a standard factory warranty which covers the owner: (i) for the entire vehicle, for the first 36 months or 150,000 km (whichever comes first). (ii) for the drivetrain, which runs concurrently, for 36 months or 150,000 km (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 obtained from a dedicated brochure available to customers.

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