

ISUZU GVR Turbo

• 4x2 Prime Mover



ENGINE ISUZU 6SD1-TC

Type: 6 cylinder, in line, overhead camshaft, direct injection, four stroke, diesel engine. Turbocharged and Air-To-Air Intercooled.
Bore x Stroke: 120 mm x 145 mm
Displacement: 9839 cc
Compression Ratio: 16.5:1
Output - Power: 199 kW @ 2200 RPM (ISO 1585)
Torque: 1,000 Nm @ 1500 RPM (ISO 1585)

COOLING SYSTEM

- 6 blade plastic cooling fan 600 mm diameter with bell-mouth fan shroud and dual drive belts.
- Bimetallic controlled, thermatic fan clutch.
- Tube and corrugated fin, pressure type radiator. Dimensions: 800 mm x 636 mm x 54 mm. Frontal area 5,088 cm².
- Coolant capacity 29.0 litres.

CLUTCH

- Hydraulic control dry single plate with cushioning springs. Coil type pressure springs.
- Clutch disc diameter: 381 mm (15").
- Pneumatic clutch release assistance.
- Asbestos free lining material. Total lining area 1,363 cm².

TRANSMISSION: EATON FS-8209

- Direct drive transmission. 8 synchronised, regular usage forward speeds. One forward crawler speed. 1 reverse speed.
- 'Repeat-H' shift pattern. Pre-selected and synchronised range change. Oil capacity 8.5 litres.
- Gear ratios (:1)

Low	1st	2nd	3rd	4th
12.64	8.81	6.55	4.77	3.55
Rev	5th	6th	7th	8th
13.21	2.48	1.85	1.34	1.00

- Maximum geared speed 107 km/h. Electronically road speed limited to 100 km/h.

REAR AXLE: ROCKWELL RS-23-160 CAPACITY 10,500 KG

- Banjo, fully floating, single reduction type. Final drive ratio 4.30:1
- Hypoid type ring gear 457 mm diameter. Oil capacity 15.0 litres.

FRONT AXLE ISUZU F063 CAPACITY 6,300 KG

- Reverse Elliot I-beam type.
- King Pin diameter 50 mm with cylindrical roller thrust bearing.
- Oil bath lubricated front wheel hubs with see-through oil level indicator.

BRAKES

- Rockwell 'Q-Plus' full air, 'S'-cam, dual circuit brake system with front and rear leading and trailing shoes. Asbestos free brake shoe lining material.
- Drum diameters (front and rear): 419 mm.
- Brake drum swept areas:
8,688 cm² total: 4,002 cm² front, 4,686 cm² rear.
- Air reservoir capacities:
Supply Tank Front Service Tank Rear Service Tank
28.5 litres 19.5 litres 19.5 litres
Parking Brake Tank
11.0 litres.
- Air Compressor 85 mm Bore x 60 mm Stroke (340 cm³ / revolution), gear driven at half engine speed, water cooled.
- Nylon brake air tubing.
- Air dryer.

- Spring park brake acting on rear wheels.
- Air controlled, butterfly type exhaust brake.
- L.S.P.V. for prime mover brakes.

AIR INTAKE SYSTEM

- Donaldson 13" diameter, dry element, two stage filter. Vertical intake stack with rain head.
- Turbocharger and Air-To-Air Intercooler. Intercooler dimensions: 540 mm x 470 mm x 53 mm. Total intercooler frontal area 2,540 cm².

ELECTRICAL SYSTEM

- Batteries: 2 x 12 Volt / 65 Amp/h, negative earth.
- Alternator: 24 Volt / 40 Amp.
- Starter Motor: 24 Volt / 5.5 kW.
- Rear stop, turn, reverse and tail lamp assemblies and licence plate lamp with long leads for variable body mounting.

EXHAUST SYSTEM

- Horizontal muffler with vertical exhaust pipe.
- Air controlled, butterfly type exhaust brake.

FUEL SYSTEM

- In line plunger, Bosch 'AP' type fuel injection pump with 'RLD' mechanical all-speed governor.
- Electronic road speed limiter.
- In line, paper element filter. See-through water separator with drain cock.
- Single 400 litre rectangular aluminium fuel tank.

STEERING

- Fully integral power assisted recirculating ball and nut type. Gear ratio 22.4:1. Turns lock to lock: 4.5.
- Gear driven, vane type oil pump. See-through oil reservoir.
- Oil capacity 2.5 litres (including reservoir).

SUSPENSION

FRONT

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

Length	x	Width	x	Thickness	x	No. leaves
1,470 mm	x	80 mm	x	12 mm	x	2
		80 mm	x	13 mm	x	5
		80 mm	x	11 mm	x	2

- Stabiliser bar.
- Hydraulic, double acting, telescopic shock absorbers.

REAR

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

	Length	x	Width	x	Thickness	x	No. leaves
Main:	1,420 mm	x	100 mm	x	12 mm	x	8
Aux:	980 mm	x	100 mm	x	10 mm	x	2
			100 mm	x	11 mm	x	4

- Stabiliser bar.
- Hydraulic double acting telescopic shock absorbers.

WHEELS AND TYRES

WHEELS

- 8.25 x 22.5 - 10 stud ISO standard (hub piloted) disc wheels. Stud size: 22 mm. Offset: 165 mm.

TYRES

- 11R22.5-16 Ply Rating Goodyear G391 tubeless radial tyres front and rear.
- Number of wheels and tyres: 7 (including spare and tyre. Note: Spare wheel carrier not supplied).

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CHASSIS FRAME

- Parallel rail, ladder type, channel section, cold riveted.
- Straight frame for easy body mounting. 850 mm frame width.
- Rear crossmember and spring hanger brackets bolted to frame allowing easy wheelbase modification.
- Frame side member dimensions: 254 mm x 85 mm x 8 mm.
- Frame reinforcement angle section: 224 x 85 x 4.5 mm.
- Frame material: SAPH440 weldable mild steel.
- Cut and tapered rear frame.
- Trailer air and electrical connectors to rear of cab.

LUBRICATION SYSTEM

- Pressure feed lubrication system. Gear driven, gear type oil pump.
- Full-flow and partial-flow bypass oil filter canisters.
- Plate type oil cooler in engine water jacket.
- Oil capacity 28.5 litres (including filters).

PROPELLER SHAFT

- 2-piece, 114.3 mm diameter propeller shaft with centre support bearing assembly.
- 1st Section Length: 717 mm
- 2nd Section Length: 794 mm

CABIN EXTERIOR

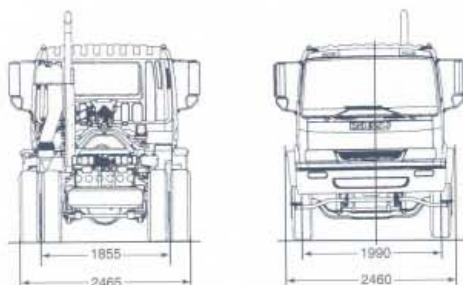
- All steel cab with welded strengthening ribs and side door impact beams. Torsion bar assisted cabin tilt to 45°.
- Four point cabin suspension utilising silicone filled rubber isolators.
- Cation electrodeposition primer.
- Heavy duty bumper bar with step holes and footplate.
- Halogen headlamps, hinged for easy bulb replacement.
- Park lamps and cabin clearance lamps.
- Turn signal lamps in front bumper and over wheel arches.
- 2 speed wiperscreen wiper / washer system with variable intermittent mode. Triple washer jets mounted on wiper arms.
- Tinted and laminated windscreen. Tinted and toughened side and rear glass.
- 'West Coast' type rear view mirrors.
- Alloy, non-slip cabin entry steps.
- Lift-up front panel for access to clutch and windscreen washer fluids without tilting the cabin. Engine fluid check points at rear of cabin.

CONTROLS

- Left side combination stalk control for exhaust brake, windscreen wipers and washers and hazard lamps.
- Right side combination stalk control 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.
- Three way switch for interior lamp (Off / On / On By Driver Or Passenger Doors).
- Trailer brake controls with brake lines to rear of cab.

CAB INTERIOR

- Fully trimmed cab interior with cloth seat facings, formed roof lining and overhead storage lockers. Driver and passenger sun visors.
- Pull-out drinks holder in centre fascia. Cigarette lighter (24 Volt). Ash trays in doors.
- Driver's seat with mechanical suspension and 3-position lumbar support mechanism. Adjustment for fore-aft position, seat back recline and driver weight.
- 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 with single release lever. Soft feel urethane steering wheel with zero offset to driver's seat.



- Easy entry grab handles on 'A' and 'B' pillars.
- Heater/Demister with 4 speed fan, 4 outlet vents to screen, 5 fascia outlets, 5 foot outlets, demister ducts to door glass.
- Optional fully integrated air conditioning.
- Dash mounted AM/FM Radio Cassette with digital clock.
- DIN standard aperture in dash for CB radio.
- Park brake activation lever at left side of driver's seat.
- Combination passenger-side dash storage tray/fuse panel cover.
- Interior rear vision mirror.
- Passenger side assist grip.
- Driver's left foot rest.
- Exhaust vents at rear/upper of cabin.
- Business card clip. Coat hook at rear of cabin.
- Elastic mesh pocket on driver's door.
- 24 Volt, 2-Pin accessory plug in centre console.

INSTRUMENTATION

- GAUGES: Speedometer, Odometer, Trip Meter and Tachometer. Coolant Temperature and Fuel Level Gauges. Dual brake air pressure gauge.
- WARNING LAMPS AND ALARMS: Warning lamps for: Low Battery Charge; Low Engine Oil Pressure; Low Air Pressure; Stop And/Or Tail Lamp Failure. Warning lamp bulb check switch. Reversing Lamps and audible alarm.
- INDICATOR LAMPS: Turn Signals On; Parking Brake On; High Beam On; Exhaust Brake Enabled.

TOOLS

- Lockable tool box with 10,000 kg capacity jack. Wheel changing tools. Tool kit.

MODELS, CODES & RATINGS

MODEL	WHEELBASE	GVM	GCM	ORDERING CODE
GVR TURBO 4x2	3,400 mm	16,000 kg	32,000 kg	8FG02-685

KERB MASS* (kg)

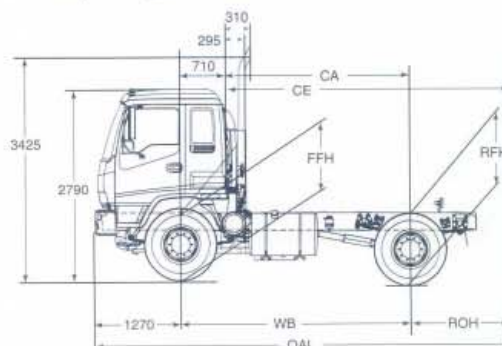
	Front	Rear	Total
GVR TURBO 4x2	2,935	1,905	4,840

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

DIMENSIONS (mm)

	TURBO 4x2
WB Wheelbase	3,400
OAL Overall Length	5,640
ROH Rear Overhang	970
CA Cab To Axle	2,690
CE Cab To End Of Frame	3,410
FFH Front Frame Height, Unladen	985
FFH Front Frame Height, Laden	935
RFH Rear Frame Height, Unladen	1,050
RFH Rear Frame Height, Laden	985
Turning Circle (Kerb To Kerb)	13.9

*Except Turning Circle: metres.



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RELIABILITY IS EVERYTHING