



RANGER-PRO 5Z SHORT

• RATINGS (kg)

4 x 4 Truck Chassis

	GVM	GCM
Ratings	10,000	14,500

DIMENSIONS (mm): All dimensions are to standard specification and unladen chassis

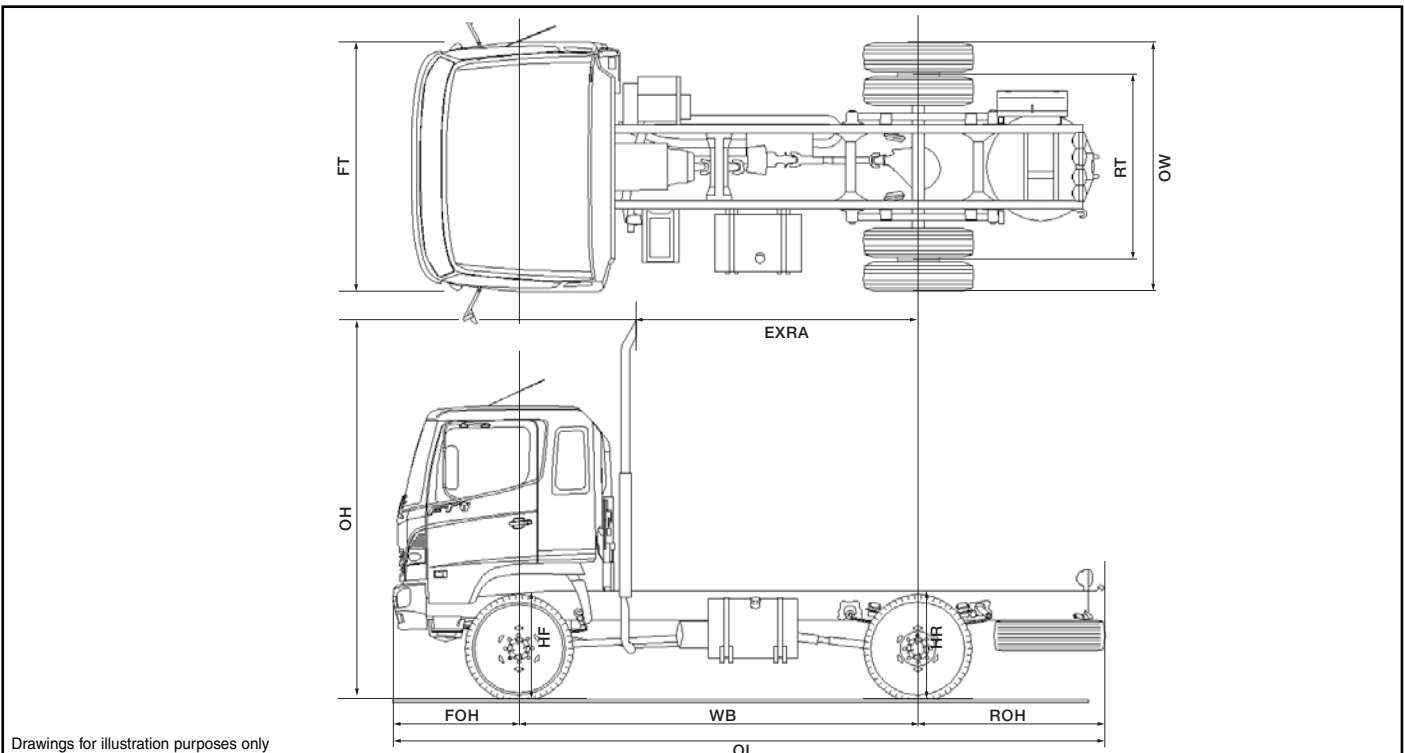
Model	Short	
Model Ordering Code	FT1JGPA	
Wheelbase	WB	3,750
Overall Length	OL	6,680
Overall Width	OW	2,355
Overall Height	OH	3,570
Cab Height		2,760
Exhaust to Rear Axle Centre	EXRA	2,695
Front Overhang	FOH	1,185
Rear Overhang	ROH	1,600
Frpnt Chassis Height	HF	1,020
Rear Chassis Height	HR	1,090
Front Track	FT	1,855
Rear Track	RT	1,680
Road clearance (at diff. Case)		275
Turning Radius (kerb to kerb)		8,100
Turning Radius (Swept)		8,825

• **CHASSIS MASS (kg):** Chassis mass quoted is to standard specification with full tank of fuel but without spare tyre and tool kit

Chassis Mass (kg)	Total	4,375
	Front	2,775
	Rear	1,600

• **PERFORMANCE:** Calculations based on Engine 2,900 r/min at rated GVM and standard specification

Max. theoretical speed km/h	105
Gradeability (theoretical, tanθ)%	60.0



Drawings for illustration purposes only

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• ENGINE		HINO J08C-UM		• FUEL TANK	
Max. output (JIS Gross)	158 kW at 2,500 rpm	Capacity	200 litres	Fuel pre-filter & sedimenter	Equipped with water separator
Max. torque (JIS Gross)	608 Nm at 1,500 rpm	• CHASSIS FRAME			
Max engine speed	2,900 rpm	Type	Parallel Chassis	Rear chassis width	820mm
Type	Diesel, turbo charged & inter-cooled, 6 cylinder in-line with 4 valves per cylinder and overhead camshaft. Mechanical Governor.	Size	233 x 78 x 7.5mm	Tensile strength	540N/mm ² {55kgf/mm ² }
	Combustion by Timed Injection-rate Control System (TICS)	Hook	Equipped for front & rear	Tool Box	Mounted on chassis
Bore and Stoke	114x 130mm	• CAB			
Displacement	7,961cc	Type	EGIS safety cab. Forward Control, all steel construction with torsion bar tilt mechanism.		
Compression Ratio	18.0:1	Seating capacity	Three		
Cooling Fan	Indirect type fitted with viscous coupling	Driver's seat	ISRI air suspension seat with automatic pressure setting according to driver's weight. Adjustable slide, height, recline, swab angle and head restraint. Urethane foam padding with fabric upholstery. Three point auto retracting lap sash belt with a height adjustable shoulder anchor.		
• CLUTCH		HINO CS-350		Side passengers seat	Reclining high back urethane padded seat with head restraint and fabric upholstery. Three point auto retracting lap sash belt.
Type	Dry single plate with damper springs	Centre passengers seat			
Control	Hydraulic with air booster	Urethane foam padded seat and backrest which folds flat into a snack bench with a storage tray, fabric upholstery. Two point lap seat belt			
Facing Material	Cerametallic	Sun Visor			
Facing outside diameter	350mm	Fitted for driver and passenger side			
• TRANSMISSION		LX06S TRANSFER MA12C		Windshield wipers	2-speed and intermittent control
Type	6 Forward & 1 Reverse speeds. Direct Drive with mechanical control. Synchromesh 2nd to 6th				
Transfer	High (1.000)	Low (2.224)			
Gear Ratio	1st	6.515	14.489	Rear view mirrors	2 x West Coast type with spotter mirror on LHS
	2nd	4.122	9.167	Over-head console	Fitted for driver and passenger side
	3rd	2.500	5.560	Audio	AM/FM radio cassette with Tape player
	4th	1.718	3.820	Air Conditioner	Fitted as standard. Ventilation is forced type by electric blower through 12 outlets.
Transfer	5th	1.261	2.804	Headlamp Adjustment	Electro-rheostat headlamp levelling adjustment
	6th	1.000	2.224	• INSTRUMENTS	
	Rev.	6.060	13.477	Meters and gauges	
• FRONT AXLE		SS12		Speedometer	Fuel gauge
Type	Full-floating, single reduction, single speed, by spiral bevel gears with constantly velocity universal joints				
Capacity	3,700kg				
• REAR AXLE		SH13-2		Odometer with 2 trip meters	Coolant Temperature Gauge
Type	Full-floating, single reduction, single speed, by spiral bevel gears with constantly velocity universal joints				
Capacity	7,000kg				
Ratio	5.142:1				
• PROPELLER SHAFT		Universal joints			
		Round bearing type			
• BRAKES		Type			
		Air over hydraulic, dual circuit system with two leading shoes for front and rear acting on all wheels			
Size - Front	400 x 120mm				
- Rear	400 x 120mm				
Effective Lining Area	4,144cm ²				
Air Dryer	Equipped				
Air Compressor	Single Cylinder water cooled type				
Park Brake	Spring Brake acting on rear wheels				
Exhaust Brake	Electric-pneumatic operation with butterfly type valve				
• STEERING		Type			
		Collapsible telescopic and tilt steering column and wheel locking device. Recirculating ball with hydraulic booster integral type			
Gear Ratio	19.05:1				
• FRONT SUSPENSION		Type			
		Semi-elliptic leaf springs with double acting shock absorbers			
Size x leaves	1,300 x 70mm leaves 10mm x 9				
• REAR SUSPENSION		Type			
		Semi-elliptic main and auxiliary springs with shock absorbers			
Main	- Size	1,300 x 70mm			
	- Leaves	11mm x 8			
Auxiliary	- Size	900 x 70mm			
	- Leaves	11mm x 5 + 10mm x 2			
• WHEEL & TYRE		Wheel type			
		8-stud disc wheel (JIS type)			
Rim size	7.00T x 20 - offset 152mm				
Tyre size	9.00R20 - 140/137				
Number of tyres	7 (including one spare tyre)				
Spare tyre carrier	Equipped with tyre inflator				
Tool Kit	Includes wheel brace and hydraulic jack				