

HINO

500

Series

FC 1022 ProShift 6

FC 1022 Manual



ADR 80/03 Model
4 x 2 Cab Chassis

* Illustration may contain item not standard to the model

KEY FEATURES

ProShift 6 Automated Manual Transmission Options
Manual Transmission Options
Cruise Control
Anti-lock Brake System (ABS)
Anti Slip Regulator (ASR) Traction Control (TC)
Easy Start (ES) – Take-off Assist
Brake Lock System
Drivers SRS Airbag
Heated & Electrically Operated External Mirrors
Front Underrun Protection (FUP) (ADR 84/00 Complied)
ISRI 6860/870 Driver seat with integrated Safety Belt
ECE R-29 Cab Strength Certified

KEY SPECIFICATIONS

GVM 10,400kg
. Optional derate to 8,000kg

GCM 16,000kg

Power 162kW @ 2400 RPM

Torque 647Nm @ 1500 RPM

Transmission Six-speed Over Drive Automated Manual
. Six-speed Over Drive Manual

Wheelbase . 3420mm, 3850mm, 4350mm, 4650mm, 4990mm

Nominal Body

Length 4240mm, 5450mm, 6250mm, 6730mm, 7274mm



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Engine & Driveline specifications

ENGINE

	ProShift 6	Manual
Model	Hino J07E-TR	
Max. output (ISO NET)	162kW (220 HP) at 2400 RPM	
Max. output (JIS GROSS)	165kW (225 HP) at 2400 RPM	
Max. torque (ISO NET)	647Nm (66kgf/m) at 1500 RPM	
Max. torque (JIS GROSS)	667Nm (68kgf/m) at 1500 RPM	
Max. engine speed	2700 RPM	2400 RPM
Engine compliance	ADR 80/03	
Type	Diesel, turbocharged & intercooled, five-cylinder in-line, overhead camshaft & water-cooled	
Combustion system	Direct injection with EGR	
Bore & stroke	112 x 130mm	
Piston displacement	6.403L	
Compression ratio	17.0:1	
Engine oil capacity	12.5L	
Coolant capacity	25L	
Fuel injection pump	Electronic control common-rail type	
Intake system	Stack-type air intake	
Air cleaner	Dual paper elements	
Air compressor	Single cylinder, water-cooled	
Bore & stroke	70 x 40mm	
Fan clutch	Equipped	
Exhaust	Horizontal outlet	
Emission Control System	EGR & DPR meeting ADR 80/03 using EURO V Std	

CLUTCH

	ProShift 6	Manual
Model	CS-350 series	
Type	Dry single plate with damper springs	
Facing material	Moulded (non-asbestos)	
Facing outside diameter	350mm	
Control	Controlled by transmission	Hydraulic with air booster

TRANSMISSION & GEAR RATIOS

	ProShift 6	Manual
Type	Automated Manual Transmission	Manual
Model	LX06S Overdrive	
Type	Six forward and one reverse speeds, synchromesh on 2nd to 6th	
Control	Electronic	Cable with Power Shift
Rear axle gear ratio	4.625:1	4.33:1

1st	6.098	5th	1.000
2nd	3.858	6th (ProShift 6) . . .	0.744
3rd	2.340	(Manual)	0.761
4th	1.422	Rev.	5.672

PERFORMANCE

	ProShift 6	Manual
Calculations based on 10.4 ton GVM, 9.5R17.5 tyre		
Engine RPM @ 100km/h	2240	2150
Max theoretical speed (km/h)	121	112
Gradeability tan Θ (%) @ GVM	43.2	39.9

BRAKES

Type	Hydraulic system with two leading shoes for front and rear acting on all wheels
Control	Air over hydraulic, dual circuits
Drum diameter x lining width	Front: 320 x 110mm Rear: 320 x 145mm
Air dryer	Equipped with heater
Antilock Brake System (ABS)	Equipped
ASR (Anti Slip Regulator)	Equipped
Brake lock system	Equipped
Parking brake	Mechanical, internal, expanding acting on transmission output shaft
Exhaust brake	Electric-pneumatic with valve in exhaust pipe
Easy Start (ES)	Equipped

AXLE, SUSPENSION, TYRES & LOAD LIMITS

	Front Axle Model & Type	LF 366, Reverse Elliot I-Beam	
FRONT	Suspension	Tapered leaf springs with shock absorbers & stabiliser	
	Spring Dimensions	1300 x 70mm	
	Spring Rate	23kgf/mm	
	Axle Limit (including suspension) (kg)	3600	
	Tyre Limit (kg)	3700	
REAR	Rear Axle Model & Type	SH13, fully floating, single reduction, single speed by Hypoid gears	
	Suspension	Steel suspension Tapered leaf springs with shock absorbers	
	Spring Dimensions	Main	Auxiliary
		1300 x 70mm	900 x 70mm
	Spring Rates	25kgf/mm	73.9kgf/mm
	Axle Limit (including suspension) (kg)	7000	
Tyre Limit (kg)	7000		

WHEELS & TYRES

Wheel type	Six-stud disc wheel (JIS type) PCD 222.25
Rim size	6.75 x 17.5 – offset 135mm
Tyre size	9.5R17.5-129/127
Number of tyres	Seven (including one spare tyre)
Spare tyre carrier	Equipped

FUEL TANK

Capacity	200L
Type	All steel rectangle
Fuel pre-filter & sedimenter	Equipped
Fuel tank cap key	Equipped



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Cab, Instrumentation & Chassis

CAB DETAILS

Type	Forward control, all-steel construction with torsion bar tilt mechanism
Drivers SRS Airbag	Equipped
Seating capacity	Three
Driver's seat	ISRI 6860/870 with urethane foam pads, high-back, lumbar support, multi adjustable, air suspended, with integrated safety belt
Side passenger's seat	Urethane foam pads, high-back & reclining seat with fabric cover & under-tray
Centre passenger's seat	Urethane foam pads & foldaway type with seat back tray, fabric cover
Seat belt	3-point type on driver's & side passenger's seat, 2-point type on centre passenger's seat
Sun visor and overhead console	For driver & passenger sides
Windshield wipers	Electric, dual, intermittent & 2-speed
Ventilator	Forced type by electric blower
Rear view mirrors	External: Electric & heated, two flat type, two convex spotters & kerb view
Cigarette lighter 24V	Equipped
Electrical converter.	12V (harness type)
Floor mat	Vinyl type
Front air spoiler	Equipped
Central locking & keyless entry	Equipped with immobiliser
Heater and defroster	Standard
Air conditioner	Standard
Trim	Full trim type (side, roof & back)
Cab pockets	Equipped on both door sides
Power windows	Equipped
Audio	DAB+ AM/FM radio with CD & DVD player and Bluetooth
Speakers	Driver & passenger sides
Foot rest	Equipped
Easy Start	Equipped
Cup holder	Equipped
Cruise Control	Equipped

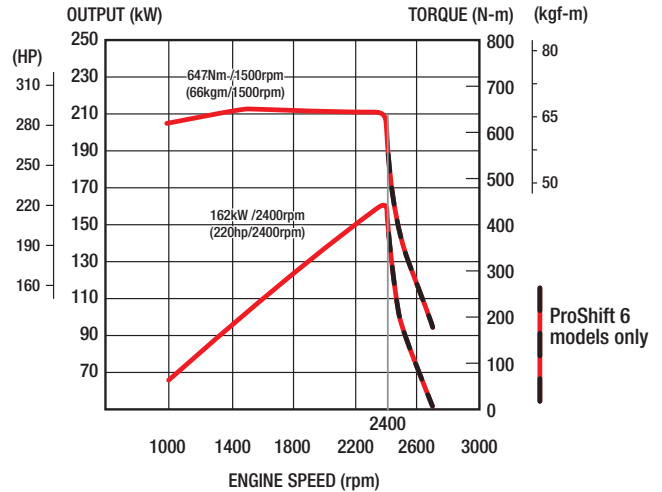
ELECTRICAL

Type	24V, negative earth
Batteries	2 x12V, series connection. Capacity 65Ah at 20-hour rate
Alternator type	Brushless with built-in rectifier and voltage regulator. Capacity 24V, 60A
Starter type	24V, 4.5kW
Headlamps	Halogen type includes fog lamps
High/low beam	Equipped
Fluorescent reading lamp	Equipped
Electric horn	Equipped

STEERING

Type	Telescopic & tilt steering column with locking device. Recirculating ball with Integral Power Steering
Gear ratio	18.6:1
Steering angle	Inside: 50-53° Outside: 39°

POWER & TORQUE CHART (ISO Net) J07E-TR



INSTRUMENTS

- Meters & gauges**
 - Speedometer
 - Odometer with trip meter
 - Tachometer
 - Fuel gauge
 - Coolant temperature gauge
 - Air pressure gauges
- Switches**
 - One-key starting-stopping
 - Lighting
 - Directional indicator, dimmer & passing
 - Wiper and washer
 - Hazard lamp
 - Exhaust brake
 - Map lamp
 - Fog lamp
 - Easy Start
 - Cruise Control
 - DPR regeneration
 - ASR off
 - Mirror controls
 - PTO (optional)
- Warning, pilot lamps & buzzers**
 - Oil pressure warning lamp & buzzer
 - Air pressure warning lamp & buzzer
 - Engine over-run warning buzzer
 - Coolant level warning lamp & buzzer
 - Brake fluid level warning lamp & buzzer
 - Brake adjustment warning lamp & buzzer
 - High beam indicator lamp
 - Turn signal indicator lamp
 - Parking brake indicator lamp
 - Exhaust brake indicator lamp
 - Engine control system warning lamp
 - Hazard indicator lamp
 - Back-up warning buzzer
 - ABS & ASR warning lamp
- Others**
 - Idle up control knob
 - Horn button
 - 12V electric source
- Multi information display**
 - Fuel consumption
 - Service reminders
 - Warnings
 - Faults

CHASSIS FRAME

Chassis Frame Dimensions	Compact	Short	Medium	Medium-long	Long
Type	Ladder-shaped channel section side rails				
Chassis width (at rear)	820mm				
Main section in mm (depth x flange x thickness)	229.4 x 78 x 5.7	228.4 x 73 x 5.2	229.4 x 73 x 5.7	231.6 x 73 x 6.8	
Tensile strength	540N/mm ²				
Front Underrun Protection	Equipped				
Tow Hook (front and rear)	Equipped				

GENUINE ACCESSORY OPTIONS

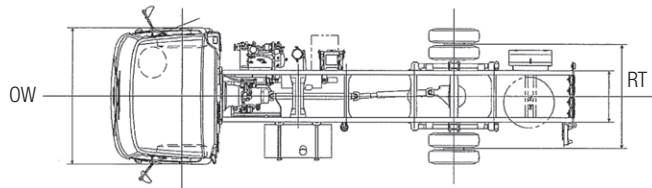
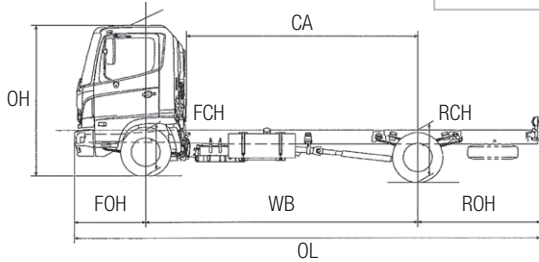
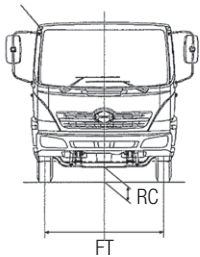
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|------------------------------|--|
| Bull bar | Stoneguard |
| Chrome wheel covers | Sunvisor |
| GPS Navigation | Engine driven PTO 1:0.72 step-down or 1:1.08 step-up |
| Rear vision camera (up to 3) | |
| LED driving lights | |
- Please check with your dealer for price, availability & fitment for these options**



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Dimensions



Drawings are for reference only to the table. For specific chassis layouts please refer to Body Mounting Manual drawings.

DIMENSIONS – mm/capacities

Model Hino FC 1022	FC 1022 ProShift 6				FC 1022 Manual				
Variants	Short	Medium	Medium-Long	Long	Compact	Short	Medium	Medium-Long	Long
Product Code	FC7JGMA-ENU	FC7JMA-ENU	FC7JKMA-ENU	FC7JLMA-ENU	FC7JEMM-ANU	FC7JGMA-ANU	FC7JJMA-ANU	FC7JKMA-ANU	FC7JLMA-ANU
Nominal Body length ((WBx.6)+CA-80)	5,450	6,250	6,730	7,274	4,240	5,420	6,230	6,710	7,250
Wheelbase (WB)	3,850	4,350	4,650	4,990	3,420	3,850	4,350	4,650	4,990
Overall Length (OL)	6,735	7,445	7,895	8,435	6,095	6,735	7,445	7,895	8,435
Overall width (OW)	2,175	2,175	2,175	2,175	2,175	2,175	2,175	2,175	2,175
Overall Height (OH)	2,450	2,450	2,450	2,450	2,450	2,450	2,450	2,450	2,450
Cab to Rear Axle centre (CA)	3,220	3,720	4,020	4,360	2,770	3,200	3,700	4,000	4,340
Front Overhang (FOH)	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145	1,145
Rear Overhang (ROH)	1,700	1,910	2,060	2,260	1,490	1,700	1,910	2,060	2,260
Front Chassis Height (FCH)	775	775	775	775	775	775	775	775	775
Rear Chassis Height (RCH)	880	880	880	880	880	880	880	880	880
Road Clearance (RC)	215	215	215	215	220	220	220	220	220
Front Track (FT)	1,770	1,770	1,770	1,770	1,770	1,770	1,770	1,770	1,770
Rear Track (RT)	1,660	1,660	1,660	1,660	1,660	1,660	1,660	1,660	1,660
Turning Circle Kerb to Kerb	12,400	13,800	14,600	15,600	11,200	12,400	13,800	14,600	15,600
Wall to Wall	13,800	15,200	16,000	17,000	12,600	13,800	15,200	16,000	17,000
Indicative Chassis Mass – kg (standard tools, 10 litres of fuel and spare tyre and subject to a ± 3% tolerance)									
Total	3,230	3,260	3,320	3,375	3,200	3,210	3,240	3,295	3,360
Front	2,220	2,240	2,270	2,290	2,175	2,190	2,210	2,235	2,260
Rear	1,010	1,020	1,050	1,085	1,025	1,020	1,030	1,060	1,100
GVM STD	10,400	10,400	10,400	10,400	10,400	10,400	10,400	10,400	10,400
GVM Opt	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000
GCM STD	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000

WARRANTY

New vehicle warranty period

Light Duty Model	Axle configuration	Standard warranty (whichever comes first)	Cab corrosion perforation
500 FC 1022	4 x 2	3 years or 150,000km	36 months

Battery warranty – 12 months from date of delivery

* For conditions, refer to the Hino Parts & Service warranty brochure

Genuine parts or accessories warranty – 3 years unlimited kilometres when fitted by an authorised Hino dealer *



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