

HINO

700 Series

FS 2844

FS 2848



* Illustration may contain item not standard to the model

ADR 80/03 Model
6 x 4 Cab Chassis

KEY FEATURES

ProShift 16 Automated Manual Transmission (AMT) option
Transmission Intarder (AMT models only)

Air Rear Suspension options

Jacob Type Engine Brake

Heated & Electrically Operated External Mirrors

Cruise Control

ISRI 6860/870 Drivers Seat with Integrated Safety Belt

Drivers SRS Airbag

ECE R29 Cab Strength Compliance

KEY SPECIFICATIONS

GVM		28,300kg
GCM	FS 2844	55,000kg
	FS 2848	72,000kg
Power	FS 2844	321kW
	FS 2848	353kW
Torque	FS 2844	2059Nm
	FS 2848	2157Nm
Transmission	ZF AS TRONIC EATON RTLO	
Wheelbase	4005mm, 4305mm	
Nominal Body Length	5590mm, 6090mm	

A Toyota Group Company

HINO
A BETTER CLASS OF TRUCK



FS 2844 FS 2848

Engine, Driveline & Chassis specifications

ENGINE

	FS 2844	FS 2848
Model	Hino E13C WB	Hino E13C VG
Max. output (ISO NET) @ 1800 RPM	321kW (437 HP)	353kW (480 HP)
Max. output (JIS GROSS) @ 1800 RPM	329kW (447 HP)	360kW (490 HP)
Max. torque (ISO NET) @ 1100 RPM	2059Nm (210 kgf/m)	2157Nm (220 kgf/m)
Max. torque (JIS GROSS) @ 1100 RPM	2099Nm (214 kgf/m)	2197Nm (224 kgf/m)
Max. engine speed	1900rpm	
Engine compliance	ADR 80/03	
Type	Diesel, turbo charged & inter-cooled, 6 cylinder in-line, overhead camshaft	
Combustion system	Direct injection type with Cooled-EGR	
Bore & stroke	137 x 146mm	
Piston displacement	12.913L	
Compression ratio	17.0:1	
Engine oil capacity	37.0L	
Engine coolant capacity	27.4L	
Fuel injection pump	Electronic control common rail	
Governor	Electric	
Air cleaner	Dual paper elements	
Air compressor	Single cylinder, water cooled	
Bore & stroke	95 x 70mm	
Exhaust	Horizontal outlet	
Emission Control System	EGR & SCR meeting ADR 80/03 using Euro 5 STD	

CLUTCH

	Manual	ProShift 16
Model	Hino CR-380	CS-430 Series
Type	Dry twin plate with damper springs	Single plate with damper springs
Control	Hydraulic with air booster	Automated & Auto adjusting
Facing material	Ceramic	Organic
Facing diameter	387mm	430mm

TRANSMISSION

	FS 2844 Manual	FS 2848 Manual	FS 2844 AMT	FS 2848 AMT
Make & Model	Eaton RTLO Road Ranger		ZF AS Tronic	
Code	RTLO 16918B	RTLO 18918B	ZF 2631 TO	
Type	18 forward & 4 reverse		16 forward & 2 reverse	
Control	Mechanical		Electronic	
Gear Ratios	Manual		AMT	
Gear Position	1st . . 14.402	12th . . 1.952	1st . . 14.120	12th . . 1.728
	2nd . . 12.287	13th . . 1.617	2nd . . 11.677	13th . . 1.428
	3rd . . 8.561	14th . . 1.379	3rd . . 9.539	14th . . 1.181
	4th . . 7.303	15th . . 1.172	4th . . 7.889	15th . . 1.000
	5th . . 6.048	16th . . 1.000	5th . . 6.521	16th . . 0.827
	6th . . 5.160	17th . . 0.855	6th . . 5.393	Rev 1 . . 13.704
	7th . . 4.384	18th . . 0.730	7th . . 4.565	Rev 2 . . 10.812
	8th . . 3.740	Rev 1 . 15.057	8th . . 3.766	
	9th . . 3.201	Rev 2 . 12.845	9th . . 3.093	
	10th . . 2.731	Rev 3 . 4.025	10th . . 2.558	
	11th . . 2.288	Rev 4 . 3.434	11th . . 2.089	

PERFORMANCE

	FS 2844 Manual	FS 2844 AMT	FS 2848 Manual	FS 2848 AMT
Calculation based on GCM with 11R22.5 drive tyres	55,000	55,000	72,000	72,000
Final drive ratio	4.555 to 1	3.9 to 1	4.555 to 1	3.9 to 1
Engine RPM @ 100km/h	1750	1693	1750	1693
Max theoretical speed (km/h)	108	112	108	112
All models electronically speed limited to 100km/h				
Gradeability Tan θ (%) @ GCM	49.9	40.2	38.0	31.0

BRAKES

Type		Full air, dual circuit, "S" cam type, leading & trailing shoes for front & rear with auto slack adjuster
Size	Front	406.4 x 152mm
	Rear	406.4 x 216mm
Air drier		Equipped
Anti-lock Brake System (ABS)		Equipped
Trailer brake control		Hand control on dash
Park brake		Spring brake acting on 1st and 2nd axles
Engine brake		Engine compression brake equipped
Transmission brake		ZF Intarder (AMT models only)

AXLE, SUSPENSION & LOAD LIMITS

FRONT	Front Axle Model	MF 781 series	
	Type	Reverse Elliot I-Beam	
	Suspension	Semi-elliptic taper leaf springs with shock absorbers & stabiliser	
	Spring Dimensions	1700 x 90mm	
	Number of Leafs	4	
	Spring Rate	49.9 kgf/mm	
	Axle Limit (including suspension)	7500 kg	
REAR	Tyre Limit	7100 kg	
	Rear Axle Model	THD 18 Tandem Axle	
	Type	Bogie drive with inter-axle differential lock, fully floating single reduction by Hypoid gears	
	Rear Rear Cross Lock	Fitted	
	Models	V Rod Leaf Rear	HAS Air Rear
	Suspension	Semi-elliptic multi leaf with V Rod stabiliser & shock absorbers	Hendrickson HAS 460 airbag with double acting shock absorbers
	Spring Dimensions	1625 x 80mm	Road Friendly Suspension Rating N/o RF2005
	Number of Leafs	11	
	Spring Rates	251 kgf/mm	
	Axle Limit (including suspension)	21,800 kg	21,000 kg
	Tyre Limit	23,200 kg	23,200 kg

WHEELS & TYRES

Wheel type	10 stud disc wheels (ISO 335 PCD)
Rim size	22.5 x 8.25- offset 165mm
Tyre size	Front: 295/80R22.5 152/148 Rear: 11R22.5-148/145
Number of tyres.	11 (including spare)
Tools included	Wheelbrace and jack
Spare tyre carrier	Equipped

FUEL TANK

Type	Square aluminium
Volume	390L
Fuel pre-filter & sedimenter	Equipped
Locking fuel cap	Equipped
AdBlue® tank capacity	28L



FS 2844
FS 2848

Cab equipment & Instrumentation

CAB DETAILS

Type	Forward control, all steel welded construction, full-floating air-suspension cab with electrical tilting mechanism
Grill colour.	Chrome (FS 2848) Grey (FS 2844)
Driver SRS Airbag	Equipped
Front Underrun Protection	Equipped
Seating capacity	3
Driver's seat	ISRI 6860/870 Urethane foam pads, high-back, lumbar support, Multi adjustable, air suspended, with integrated Safety Belt
Passenger seat	Urethane foam pads, high back & reclining seat with fabric cover
Centre console	Equipped
Seat belts	3-point type on driver's & side passenger seats 2-point type for centre seat
Rear view mirrors	2 external electrically controlled, flat type mirrors with heaters and spotters and kerb view
Windshield wipers	Electric, triple-arm, with intermittent & 2 speed control
Sun visor & overhead console.	Equipped
Centre overhead console	Equipped
Cigarette lighter (24 volt)	Equipped
Electrical converter.	12V (harness type)
Ventilator	Forced type with electric blower
Heater & defroster	Equipped
Air conditioner	Equipped
Sleeper berth.	Single, with blackout curtains (ADR Compliant)
Audio	DAB+ AM/FM radio/CD & DVD player with Bluetooth
Speakers	Driver, passenger & centre
Floor mat	Vinyl mat
Front air spoiler	Equipped
Cab step	Equipped
Trim	Full trim type / side roof back
Electric power windows	Both sides
Electric door lock	Remote control keyless entry
Cab pockets	Both door sides & passenger seat
Cruise Control	Equipped

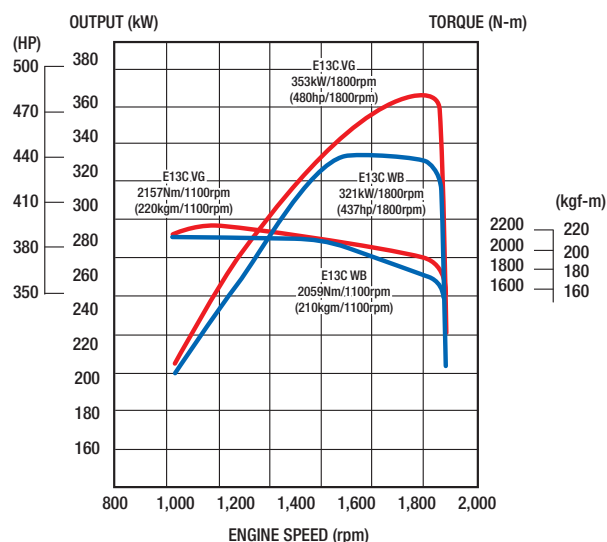
ELECTRICAL

Type	24 volts, negative earth
Batteries	12V x 2 series connection
Capacity	150Ah at 20 hour rate
Alternator	Brushless type 24V, 90A with built-in rectifier & voltage regulator
Starter	24V, 6.0kW
Lamps	Headlamps, fog lamps, cornering lamps, room lamp (fluorescent lamp), map lamp

STEERING

Steering column.	Telescopic & tilt with locking device
Steering box	Recirculating ball with Integral Power Steering
Gear ratio	25.2:1
Steering angle	Inside 49° Outside 35°

POWER & TORQUE CHART (ISO NET) E13C WB & VG



INSTRUMENTS

1. Meters and gauges

Speedometer with trip meter
Odometer
Fuel gauge
Tachometer
Coolant temperature gauge
Air pressure gauge x 2

2. Switches

Lights
Indicators, dimmer & passing
Wiper & washer
Hazard lamp
Fog lamp
Room lamp
Warning lamp check
Map lamp
Inter axle lock
Rear differential cross lock
Mirror heating
Economy running
Engine brake
Cruise Control

3. Warning, pilot lamps and buzzers

Engine oil pressure warning lamp & buzzer
Air pressure warning lamp & buzzer
High beam indicator lamp
Turn signal indicator lamp
Parking brake indicator lamp
Coolant level warning lamp & buzzer
Differential lock indicator lamp
Engine over-run warning buzzer
Battery charging indicator lamp
Fuel filter water level warning lamp
Transmission range (Eaton only)
ABS warning lamp
Trailer brake indicator lamp

4. Others

One key starting-stopping
Horn button
Idle up control knob
Gear display (ProShift 16 only)

CHASSIS FRAME

	Leaf rear suspension	Air rear suspension
Type	Ladder-shaped channel section side rails	
Chassis width (at rear)	840mm	
Main section in mm (depth x flange x thickness)	300 x 90 x 8.0mm	
Main section tensile strength	620 N/mm ² (63 kgf/mm ²)	
Inner section in mm (depth x flange x thickness)	275 x 80 x 7.0mm	Not fitted
Tensile strength	540 N/mm ² (55 kgf/mm ²)	
Tow hook (front)	Supplied	
Front underrun protection	Equipped	

GENUINE ACCESSORY OPTIONS

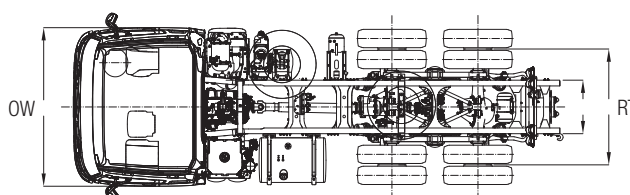
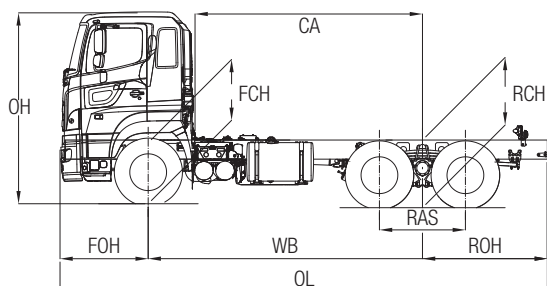
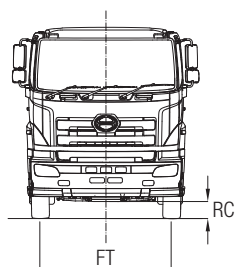
Bull bar	Stoneguard
Chrome wheel covers	Woodgrain dash panel
Sat Nav	Transmission PTO (ProShift 16 only)
Rear vision camera (up to 3)	

Please check with your dealer for price, availability & fitment for these options



FS 2844
FS 2848

Dimensions



700 Series

DIMENSIONS – mm / Capacities

Model 700 Series	FS 2844			FS 2848			
Variant	Manual	Manual Air	AMT	Manual	AMT	Short AMT Air	AMT Air
Model code	FS1ELLA-NAZ	FS1ELLG-NAZ	FS1ELLA-MXA	FS1ELLA-WAZ	FS1ELLA-VXA	FS1EKLG-VXZ	FS1ELLG-VXA
Nominal Body Length (WB x 0.6) + CA – 100	6,090			5,590			
Wheelbase (WB)	4,305			4,005			
Overall length (OL)	7,645			7,345			
Overall width (OW)	2,490			2,490			
Overall height (OH)	3,000	3,005	3,000	3,000	3,005	3,005	3,005
Cab to rear axle centre (CA)	3,595			3,295			
Front overhang (FOH)	1,380			1,380			
Rear overhang (ROH)	1,960			1,960			
Front chassis height (FCH)	995			1,000			
Rear chassis height (RCH)	1,085	1,040	1,085	1,085	1,040	1,040	1,040
Road clearance (at diff. case) (RC)	215	210	215	215	210	210	210
Front track (FT)	2,050			2,050			
Rear track (RT)	1,820	1,840	1,820	1,820	1,840	1,840	1,840
Turning circle (kerb to kerb)	15,800	16,000	15,800	15,800	15,000	15,000	16,000
Turning circle (wall to wall)	17,520	17,560	17,520	17,520	16,640	16,640	17,560
Chassis mass – kg (standard tools, 10 litres of fuel, spare tyre & subject to a ±3% variance)							
Total	8,965	8,250	8,820	8,965	8,820	8,105	8,135
Front	4,860	4,655	4,770	4,860	4,770	4,710	4,655
Rear	4,105	3,595	4,050	4,105	4,050	3,395	3,480
GVM	28,300			28,300			
GCM	55,000			72,000			

WARRANTY

New vehicle warranty period

Heavy Duty Model	Axle configuration	Standard warranty (whichever comes first)	Engine component warranty (whichever comes first)	Cab corrosion perforation
700 FS 2844 & FS 2848	6 x 4	3 years or 500,000km	60 months or 750,000km	36 months

Battery warranty – 12 months from date of delivery

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

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



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