

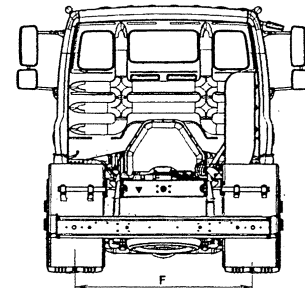
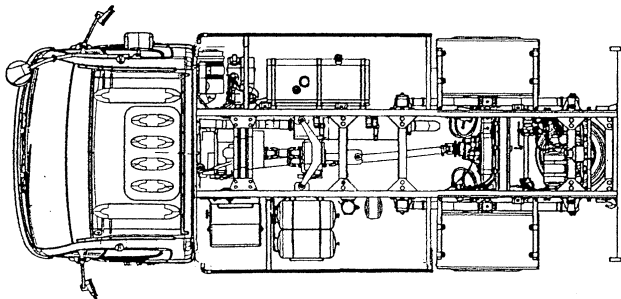
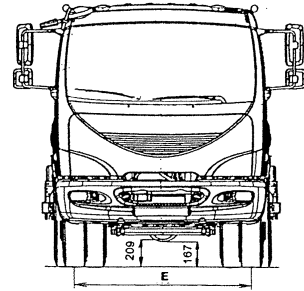
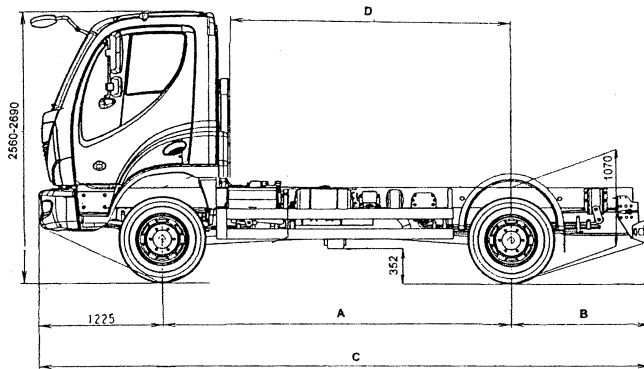
# AVIA D120-4x4

EURO 4

11990 kg GVW

D1204x4 -160

D120 4x4-185



D 60/120 4x4  
Euro 4

## Dimensions

Wheelbase	A	B	C	D	E	F
N	3400	1365	5990	4100	1900,	1740
L	3900	1620	6745	4900		

Heights and clearance height increase 12mm with 265/70R19.5 tyres

Maximum body width 2550mm (2600mm fridge), width chassis increases to 2297mm with optional 265/70R19.5 tyres

## Weights (kg)

Wheelbase	weights			Front axle		Rear Axle	
	GVW	chassis	payload	max load	Load from chassis	max load	Load from chassis
N	11990	3950	8040	4200	2480	8200	1470
L		4000	7990		2535		1465

Maximum permissible gross combination weight: 12740 (unbraked) 15490kg (inertia brakes)

## Grade ability –(road gear 1:1 ,tyres 245/70R19.5 )

	Max theoretical grade ability %*		
Rear axle ratio	4,10:1	4.56:1	(5.13:1)**
185hp (160 hp)	28%	32%	36,%

\*\* ratio 5,13 :1 only after agreement with producer

## Grade ability –( off road gear 1:1,93,tyres 245/70R19.5 )

	Max theoretical grade ability%*		
Rear axle ratio	4,10:1	4.56:1	(5.13:1)**
185 hp (160 hp)	63,5 %	74,5%	91%

\*Limited by traction

## Speeds –(road gear 1:1, tyres 245/70R19.5)

	Rear axle ratio
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**AVIA ASHOK LEYLAND**

SPEC D120-4x4 E4  
19.12.2007

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Speed km/h at	4.10 :1	4.56 :1	(5.13 :1)
1. step at 1000 rpm	5.6	5.0	4,4
6.step at 2500 rpm	118	106	95

Speeds – (off road gear 1:1,93, tyres 245/70R19.5)			
	Rear axle ratio		
Speed km/h at	4.10 :1	4.56 :1	(5.13 :1)
1. step at 1000 rpm	2.8	2.4	2.2
6.step at 2500 rpm	61	55	49

Engine rpm at 85 km/h –( tyres 245/70R17.5", road gear )			
Rear axle ratio	4,10:1	4.56:1	(5.13.1)**
Engines rpm	1794	1995	(2245)

Overhang angle–(tyres 245/70R19.5)		
	Front	Rear
	26°	15-17° (depends on overhang)

Engine		
Model	Cummins ISB <sup>e4</sup> 160 EURO 4	Cummins ISB <sup>e4</sup> 185 EURO 4
Description	High performance direct injection diesel engine. Turbocharged and intercooled. Electronically controlled common rail injection system EURO 4 SCR technology – Ad Blue tank capacity 30 litre	
Cylinders	4 in-line	
Valves	4 per cylinder	
Capacity	4.5 litres	
Bore x stroke	107 x 124 mm	
Max power	160 hp (117kW) at 2500 rev/min	185 hp (136kW) at 2500 rev/min
Max torque	602 Nm at 1200 -1700 rev/min	700 Nm at 1200-1700 rev/min

<b>Clutch</b>	Single dry plate, ZF-Sachs. Disc dia. 362 mm, hydraulic operation – air assisted						
<b>Gearbox</b>	ZF 6S850 6 speed all synchromesh						
Type	ZF 6S850 6 speed all synchromesh						
Ratios	1°	2°	3°	4°	5°	6°	R
	6.72:1	3.68:1	2.15	1.41	1.00	0.79	6.03
PTO	With PTO mounting facility (hand throttle fitted as standard) , ratio 1,88 or 1,47						
<b>Transfer case</b>							
Type	Praga 2 P 150						
Ratios	Road 1:1			Off road 1: 1,93			
<b>Rear Axle</b>	Albion 8.20 banjo type axle. Hypoid crown wheel and pinion, differential lock. 8 disc wheel screw						
Ratios	4,10:1, 4.56:1, ( 5.13:1)**						
<b>Front axle</b>	Steering live axle ,design Excalibur Army, 8 disc wheel screw fixing						
<b>Suspension</b>	Front axle	80mm wide 2 leaf parabolic springs with 40mm Ø transverse torsion bar stabiliser. Hydraulic double acting shock absorbers					
	Rear axle	80mm wide 3 leaf parabolic springs with 40mm Ø transverse torsion bar stabiliser. Hydraulic double acting shock absorbers					
<b>Steering</b>	ZF 8090 - Hydraulic, power assisted, monoblock type						
<b>Brakes</b>	Full air system. ABS system. Brake air dryer.						
	Front brakes	Disc brakes (330 mm dia)					
	Rear brakes	Disc brakes (330 mm dia) with load sensing device					
	Parking brakes	Fail safe spring operated park brakes acting on rear axle					
	Exhaust brake	Butterfly valve type, with steering column 4 position electric control					
<b>Frame</b>	Ladder-type, cold riveted and bolted construction with U section side members and open profile cross-members. Side member section 203 x 62 x 6.5 mm						

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EURO 4

<b>Fuel tank</b>	Steel tank with 120 litre capacity – signalling the minimum reserve of 16 litres. Locking cap
<b>Wheel and tyres</b>	245/70R19,5 tyres on 19,5 x 6.75 steel rims. 8 wheel screw fixing. Spare wheel and carrier
<b>Electrical system</b>	24 volt negative earth system. Batteries 2 x 12v 88Ah capacity. Battery isolation switch Alternator 28V / 80A. Starter 24V / 4Kw.
<b>Cab</b>	All steel, forward control, two door cab with hydraulic tilt. 2150mm wide across wings. Widespread use of double zinc coated pressed steel panels and wax injected cavities. Plastic cladding panels on front. Noise and thermal isolation
<b>Cab Suspension</b>	Front mounting points on rubber bushes Two point rear cab suspension system with coil springs and hydraulic shock absorbers and automatic hydraulic lock-down device
<b>Exterior</b>	Streamlined design with standard front corner spoilers. Front access panel to daily service checks Low level door windows. Tinted cab glass. Heated rear mirrors to suit 2.60m wide body. . Headlamps adjustable from inside cab. Roof marker lights.
<b>Interior</b>	Adjustable driver seat, dual passenger seat. Inertia reel seat belts. Storage shelf above windscreen. Storage bin on rear wall. Door pockets. Hinge out document bin Cup holder. Cruise control 24 v socket / cigar lighter. 12v transformer and socket.
<b>Instrumentation</b>	Tachograph, tachometer, fuel, temperature and air gauges. Full warning light module
<b>Colours</b>	Signal White RAL9003, Traffic Red RAL3020, Red RAL 3005, Gentian Blue RAL5010, , YellowGreenRAL6018, Green 6016. Full immersion cathaphoretic water based process
<b>Options</b>	Cab varianty including electrically operated windows S, central locking. Air conditioning and power mirror pack. Isri suspension driver's seat. Front foglamps. Digital clock. Side under- run and rear mudguards. Other RAL colours, metallic silver. 200 litre fuel tank. ASR system. 140 Ah batteries. Drawbar package - rear trailer brake connections and trailer air tank. Differential lock. Adjustable roof spoiler and side fender set Tyres: 265/70R19.5

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