

dimensions (mm)

A Wheelbase	4800	5400	5700
B Rear overhang	1800	2350	2350
D Overall length	8305	9455	9755
G Back of cab to end of frame	5995	7145	9445
Frame height at rear axle (unladen)	882	882	882
Ground clearance front	158	158	158
Ground clearance rear	173	173	173
Cab tilt angle	70°	70°	70°
Turning circle (wall to wall) m	19.0	20.9	21.9
Frame width at rear	757	757	757

weights (kg)

Kerb Weights

Wheelbases mm	4800	5400	5700
Front axle	4972	4972	4972
Rear axle	1889	1929	1969
Total	6861	6901	6941

Plated Weights

	UK Authorised	C&U	Design
Front axle	7100	7100	7500
Rear axle	11500	10500	11500
GVW	18000	17000	18000
GTW	40000	38000	44000

Weights and dimensions shown are for Long Distance specification with a high roof sleeper cab

Weights and dimensions are to standard specification with 20 litres of fuel, 5 litres of AdBlue, oil, water and tools.

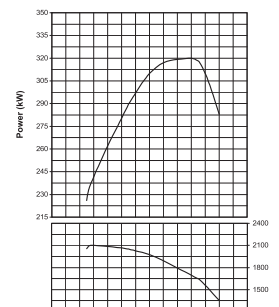
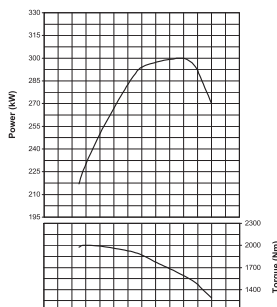
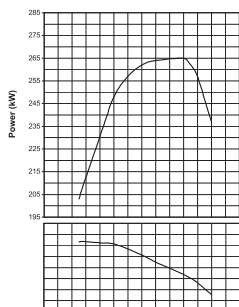
Kerb weights are subject to a manufacturing tolerance of $\pm 2\%$. The right is reserved to alter specification or equipment without notice.



engine

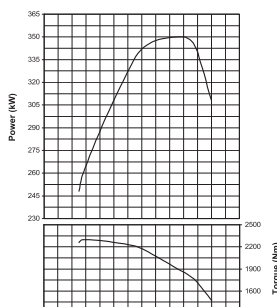
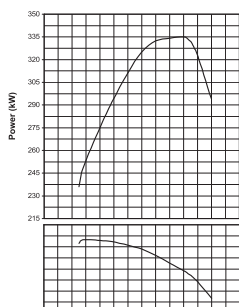
	1836LLnR	1841LLnR	1844LLnR
Type		Mercedes-Benz OM501LA 12 litre turbo-intercooled 4 valves per cylinder V6 direct injection diesel	
Max. power @ 1800 rpm	265kW 360PS	300kW 408PS	320kW 435PS
Max. torque @ 1080 rpm	1800Nm 1364lbft	2000Nm 1475lbft	2100Nm 1549lbft
Bore		130mm	
Stroke		150mm	
Capacity		11.95 litres	
Control		Telligent electronic engine management	
Fuel Injection		Direct injection via unit injectors	
Cooling		Water cooled with electromagnetic fan	
Security		Immobiliser to Thatcham H2	
Engine brake		Constant throttle & butterfly	
Exhaust		Stainless steel with SCR catalytic converter	

Performance Curves



	1846LLnR	1848LLnR
Type	Mercedes-Benz OM501LA 12 litre turbo-intercooled 4 valves per cylinder V6 direct injection diesel	
Max. power @ 1800 rpm	335kW 456PS	350kW 476PS
Max. torque @ 1080 rpm	2200Nm 1623lbft	2300Nm 1696lbft
Bore	130mm	
Stroke	150mm	
Capacity	11.95 litres	
Control	Telligent electronic engine management	
Fuel Injection	Direct injection via unit injectors	
Cooling	Water cooled with electromagnetic fan	
Security	Immobiliser to Thatcham H2	
Engine brake	Constant throttle & butterfly	
Exhaust	Stainless steel with SCR catalytic converter	

Performance Curves





transmission

Gearbox & Gearbox Ratios

Mercedes PowerShift – fully automated 12 speed constant mesh gearbox.

	360, 410, 440		460, 480	
	G211	G281	G211	G281
1st	14.93	14.93	9th	2.05
2nd	11.67	11.64	10th	1.60
3rd	9.93	9.02	11th	1.28
4th	7.06	7.03	12th	1.00
5th	5.63	5.64	1st Reverse	14.93
6th	5.37	4.40	2nd Reverse	11.67
7th	3.39	3.39	3rd Reverse	3.39
8th	2.65	2.65	4th Reverse	2.65

Clutch

Type	Automatically actuated single dry plate clutch
Diameter	430mm

Axles

Front	Mercedes-Benz 'I' beam
Rear Bogie	Mercedes-Benz single reduction Cross-axle differential lock

chassis

Brakes

Front/Rear	Disc brakes
Service	Telligent electro-pneumatic braking Dual circuit air 10 bar operating pressure Load sensing Automatic brake adjustment Heated air dryer Anti-lock brakes ASR traction control Hill hold feature
Secondary Parking	Front, rear and trailer Spring brakes on drive and trailing axles Hand control operation
Trailer Exhaust brake	Two line Linked to accelerator with override

Steering

Type	Recirculating ball Variable ratio Integral power assistance Steering column adjustable for height and rake Steering column lock
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Fuel Tank

	Capacity (litres)	Position
Fuel	590 aluminium	RHS
AdBlue	95 Lockable caps	RHS

Suspension

Front axle	Front air suspension Double acting shock absorbers Stabiliser
Rear axle	Full air with electronic modulation Double acting shock absorbers Stabiliser

Rear Axles Ratios & Performance

Engine	360	410	440	460	480
Axle Ratio	2.533	2.533	2.533	2.533	2.533
Max. geared speed (mph)	77	77	77	77	77
RPM at 90kmph (56mph)	1312	1312	1312	1312	1312
% Rolling gradeability					
18 tonne	+50	+50	+50	+50	+50
40 tonne	34	36	38	40	42

Axle Ratio	2.846	2.846	2.846	2.846	2.846
Max. geared speed (mph)	68	68	68	68	68
RPM at 90kmph (56mph)	1474	1474	1474	1474	1474
% Rolling gradeability					
18 tonne	+50	+50	+50	+50	+50
40 tonne	38	40	43	45	47

Wheels & Tyres

Wheels	9.00 x 22.5
Tyres	315 / 60R 22.5

Electrical Systems

Voltage	24 volt Negative insulated return
Batteries	2 x 12 volt, 220Ah
Electrical Distribution System	Circuit breaker protection
Alternator	28 volt/80 amp

General

Rear underride guard
Reinforced rear crossmember
Trailer brake and electrical connections
Fold down step in under bumper spoiler
Front underrun protection

options

Description	Weight Adjustments		
	Front	Rear	Total
Driveline			
Speedline wheels 9.00 x 22.5	-30	-65	-95
Alcoa wheels 9.00 x 22.5	-40	-80	-120
12 speed Mercedes PowerShift gearbox (G211)	-55	-5	-60
12 speed Mercedes PowerShift gearbox (G281)	0	0	0
16 speed Mercedes PowerShift gearbox	-5	0	-5
16 speed manual gearbox	0	0	0
Brakes			
Aluminium air tanks	-20	-10	-30
Cab			
MegaSpace cab	230	0	230
Adjustable roof deflector	+26	0	+26
Adjustable roof and side deflector (FD1)	+37	0	+37

Component weights are provided as a guide but may vary according to production tolerances

NOTE:

For cab options please see the separate Actros Cab Specification Sheet CV 700