



B12M

DEBB

VOLVO

SIDERAL

58

DEBB
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WHERE IT COUNTS,

SPECIFICATION

Chassis Dimensions (mm)

A Wheelbase	6200
G Overall chassis length	10007
I Front overhang	2049
J Rear overhang	1758

Weights (kg)

Chassis weight, front axle	2735
Chassis weight, rear axle	3425
Chassis weight, total	6160
Max. front axle load	7500
Max. rear axle load	12000
Max. GVW	18000kg (19000kg where permitted)

Chassis weights include ZF5HP602 gearbox, water, oil, 70 litre fuel, complete tyre equipment 315/80R22.5".

Weights can vary $\pm 1,5\%$.

ENGINE

6-cylinder, 4-stroke turbo-charged diesel with overhead valves and direct injection.

Bore	131 mm
Stroke	150 mm
Displacement	12.1 litres
Compression ratio	18.5:1

DH12D340

Output hp (kW) ISO 1585	340 (250)
at rpm	1800
Torque Nm ISO 1585	1700
at rpm	1200

DH12D380

Output hp (kW) ISO 1585	380 (279)
at rpm	1800
Torque Nm ISO 1585	1850
at rpm	1200

DH12D420

Output hp (kW) ISO 1585	420 (309)
at rpm	1800
Torque Nm ISO 1585	2000
at rpm	1200

DRIVER'S POSITION AND INSTRUMENTATION

Adjustable steering wheel, both height and tilt, with (as an option) the instrument panel following. Self-cancelling turn indicators.

Dashboard, mid module: Tachometer, tachograph. Indicator lamps for door brake, parking brake, turn indicator, full headlights, differential lock, kneeling, ABS failure, rear fog lights, seat belt.

Dashboard, left module: Gauges for oil pressure, coolant temperature, turbo pressure. Drivers Information Centre indicating fault conditions and pre-trip check to confirm to the driver that all systems are serviceable before the bus sets off. Indicator lamps for engine preheat, attention and stop. Data log and fuel consumption meter.

Dashboard, right module: Gauges for brake pressure front and rear, fuel. Indicators for next stop, pram, central warning.

Emergency stop and service controls: These controls enable the engine to be run and controlled from the side of the vehicle during service work, etc.

ELECTRICAL EQUIPMENT

Number of batteries	2
Voltage	24V
Battery capacity	220 Ah
Alternators	2x140 A
Emergency cut off switch (complies with ECE R36).	

CLUTCH

Volvo G8-EGS/ZF 6S-1600

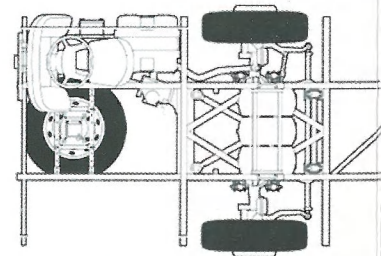
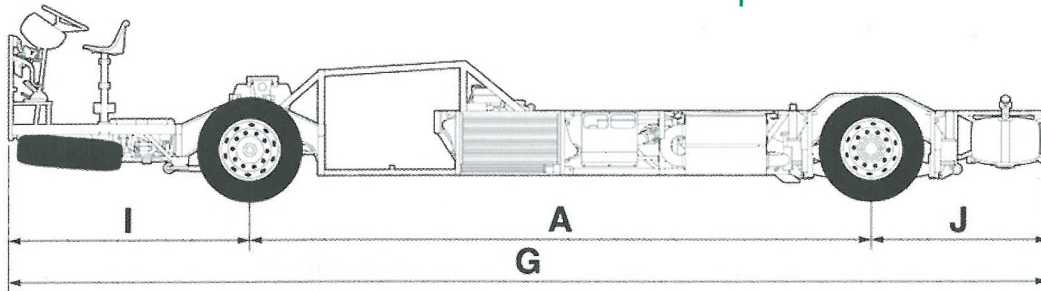
Pull-type single dry disc (KFD 117E)	430 mm
Total friction area	2000 sq.cm

GEARBOXES

ZF 6S-1600. Mechanical 6 speed fully synchronized with servoshift gearshift assistance and hydraulic retarder.

Volvo EGS-VR. (Easy gear shift) Mechanical 8 speed fully synchronised with retarder.

ZF 5HP602. Fully automatic 5-speed stage with integral retarder.



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Ratios:	ZF	Volvo
	6S-1600	EGS-V/VR
1st gear	7.72:1	9.13:1
2nd gear	4.42:1	6.42:1
3rd gear	2.66:1	4.77:1
4th gear	1.79:1	3.75:1
5th gear	1.28:1	2.44:1
6th gear	1.00:1	1.71:1
7th gear	-	1.27:1
8th gear	-	1.00:1
Reverse	7.10:1	13.69:1

Ratios:	ZF
	5HP602 Auto
Torque converter	1.83:1
1st gear	2.81:1
2nd gear	1.84:1
3rd gear	1.36:1
4th gear	1.00:1
5th gear	0.80:1
Reverse	3.97:1



FINAL DRIVE

Single reduction of hypoid type.
Max. geared speed km/h with 315/80R22.5" tyres

Ratios:	3.70:1	3.36:1
ZF 6S-1600, Volvo EGS-V		109
ZF 5HP602	109	

BRAKING SYSTEM

Service brakes: Air brakes complying with EEC regulations with separate circuits for front and rear wheels. EBS electrically controlled brakes with ABS and ASR (Traction Control), Airdrier. Automatic brake adjustment. Asbestos free brake linings.

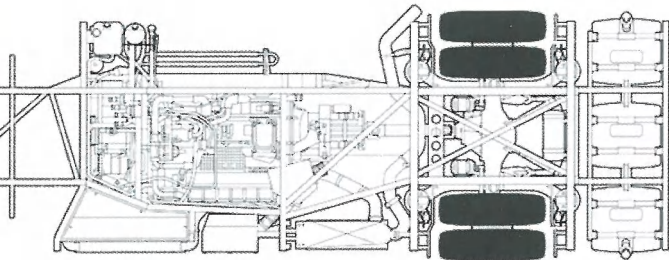
Brake disc diameter:	Front 434mm	Rear 434mm
Air tanks standard	Primary	30dm ³ (l)
	Front circuit	30dm ³ (l)
	Rear circuit	30dm ³ (l)
	Park circuit	15dm ³ (l)

Compressed air system can easily be filled from external circuit.

Handbrake: Air operated spring brake acting directly on the rear wheels. Application is infinitely variable by means of a control on the fascia.

STEERING GEAR

Power steering of ball and nut type with built-in servo unit.
Steering wheel diameter 450 mm
Optional steering damper (optional 500 mm)



FRAME

The frame is made of 3CR12 stainless steel.

SUSPENSION

Number	Front	Rear
Air bellows	2	4
Levelling valves	2	2

Stabilizers both front and rear.
Shock absorbers: Double-acting, hydraulic telescopic shock absorbers, four front, four rear.
Kneeling front axle suspension.
Ferry lift and lowering.

WHEELS AND TYRES

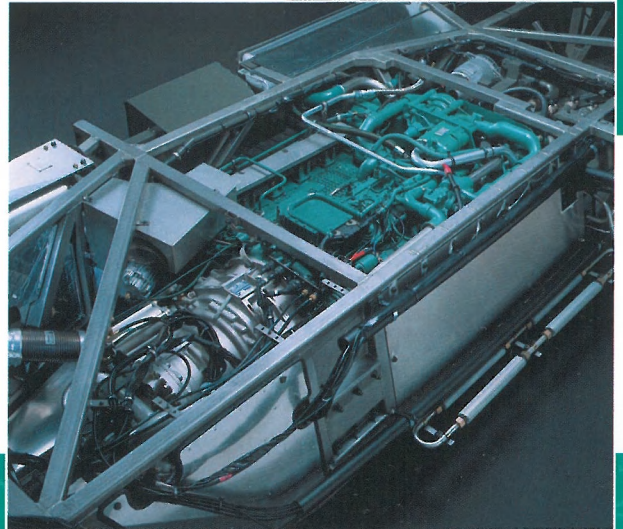
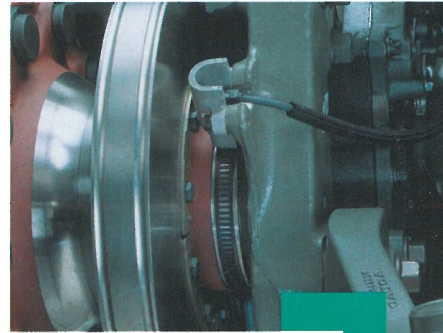
10-stud steel or aluminium disc wheels. Dual driving axle wheels.
Rims 9.00x22.5"
Tyres 315/80-22.5"

FUEL TANKS

Mounted behind the rear axle 3x150 l
Transport tank (for bodybuilder supplied tank) 50 l

OPTIONS

Ammeter
Outdoor/indoor temp meter
Oxidizing catalyst
Volvo exhaust filter (CRT)
Aluminium Wheels
295/80-22.5" tyres
Common Ignition Key
Diff Lock



B12M

The Volvo B12M, the innovative replacement to the legendary B10M, has been developed specifically to meet the ever increasing demands for economy, performance, safety and minimum impact on the environment, whilst at the same time retaining the highly popular mid-engine chassis layout. The B12M is a part of Volvo's TX Platform.

The Volvo B12M is available with six main body options, Jonckheere, Berkhof, Sunsundegui, Plaxton, Salvador Caetano and Van Hool - giving a selection which is without parallel in the UK and Irish coach market.

Some of the highlights of the comprehensive B12M chassis specification include:-

- The powerful 12 litre Volvo DH12D horizontal engine.
- A 'space frame' chassis, manufactured from 3CR12 stainless steel with built-in through luggage locker behind the front axle.
- The Volvo BEA (Bus Electronic Architecture) electrical system for powerful performance, diagnostics and data logging.
- Driver's area incorporates a menu-driven information panel, including fuel consumption readout, control setting options and diagnostic data.
- Disc brakes all round with Electronic Control (EBS) for rapid response, including ABS and Traction Control as standard.



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