01-22-NIIB-3519 B 12/11/89 pdg

Volkswagen do Brasil S.A.

ORIGINAL

São Paulo, December 27, 1988

The Administrator
National Highway Traffic
Safety Administrator
400 Seventh Street, S.W.
Washington - D.C. 20590

Attention: VIN Coordinator

3 l p.

Ref.: **49 CFR - Part 565.5 - VIN Decipherability**

Dear Gentlemen:

Volkswagen do Brasil S.A., hereby amends the information in reference conveyed to the Administrator through Volkswagen's letters dated September 19, 1986, and December 14, 1987, by adding the following new codes to be used in the future, in the VIN of incomplete vehicles to be sold in the U.S.A.

VIN Second Section — Vehicle Atrributes

Digit Position	New Codes Assigned	Meaning
4 th	(no new code)	Wheelbase
5 th	(no new code)	Engine
6 th	8	GWR (see table 2)
7th + 8 th	J0, J1, J2, J6, J7, J8	Volkswagen Model Code (see table 3)

Table 1 - Wheelbase

Code Assigned	Wheelbase (inches)
A	125
E	140
J	160
M	180
S	190
W	205

São Bernardo do Campo
Estr. Marg. da Via Anchieta, km 23,5 - SBC - SP
Endereço para Correspondência:
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09899 - S. Bernardo do Campo - SP
Endereço Telegráfico:

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Endereço Telegráfico:

Taubaté
Av. Carlos Pedroso da Silveira, 10000
12100 - Taubaté - SP
Caixa Postal 232
Endereço Telegráfico:
Volkswagen Taubaté

Divisão de Caminhões
Av. Dr. José Fornari, 715 - SBC - SP
Endereço para Correspondência:
Posto de Correio Volkswagen
09899 - S. Bernardo do Campo - SP
Endereço Telegráfico

Table 2 - GVWR (partial)

Digit Assigned	GVWR L B	GVWR KG
5	16001 - 19500	7258 - 8845
6	19501 - 26000	8846 - 11793
7	26001 - 33000	11794 - 14968
8	33001 - and above	14969 - and above

Table 3 - VW Model Code

New Codes Assigned	Meaning
J0	180 in VW/Cummins/air brake/truck
J1	190 in VW/Cummins/air brake/truck
J2	205 in VW/Cummins/air brake/truck
J6	180 in VW/Cummins/air brake/truck
J7	190 in VW/Cummins/air brake/truck
J8	105 in VW/Cummins/air brake/truck

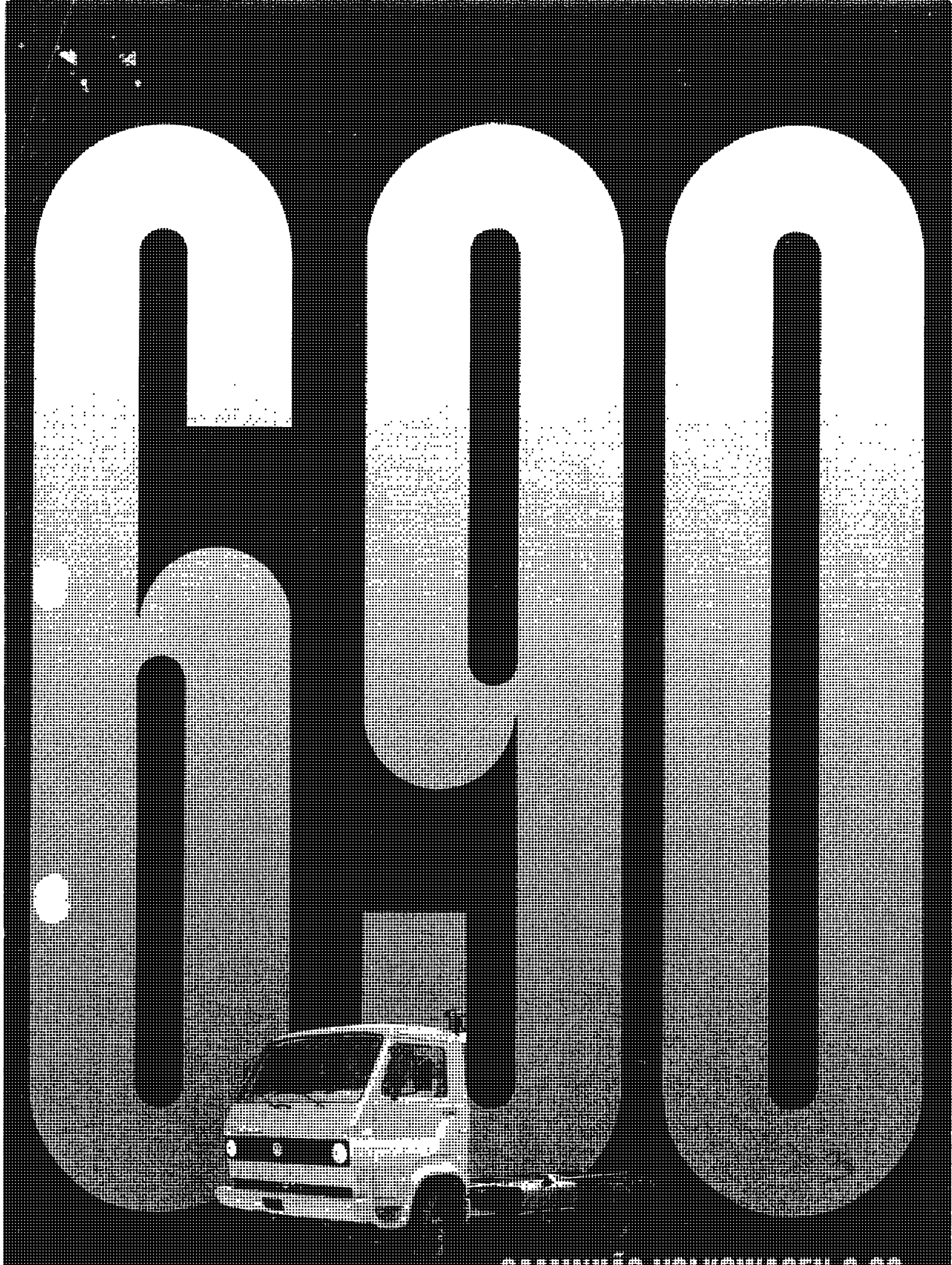
Truly Yours,

Volkswagen do Brasil S.A.

Director

Director

XVII-N-3.2.
.30/gomes/mjp



ESPECIFICAÇÕES TÉCNICAS VW 6.90

MOTOR

Modelo	MWM D-229.4
Ciclo	4 tempos, diesel
Sistema de injeção	Direta
Cilindros	4, em linha
Diâmetro dos cilindros/ curso dos êmbolos (mm)	102/120
Cilindrada (cm³)	3920
Relação de compressão	16.6:1
Potência	
DIN (cv/rpm)	91/3000
(kW/rpm)	(66,9/3000)
ABNT (cv/rpm)	88/3000
(kW/rpm)	(64,8/3000)
SAE (cv/rpm)	102/3000
(kW/rpm)	(75/3000)
Torque máximo	
DIN (mkgf/rpm)	(26,5/1600)
(Nm/rpm)	(260/1600)
ABNT (mkgf/rpm)	25,6/1600
(Nm/rpm)	(251,1/1600)
SAE (mkgf/rpm)	29,6/1600
(Nm/rpm)	(291/1600)
Filtro de ar	seco (Opc.: banho de óleo com tomada de ar acima do teto)
Lubrificação	circulação de óleo sob pressão
Arrefecimento	por água, com válvula termostática e tanque de expansão
Alimentação	Bosch
Sistema elétrico	
Alternador (A)	35
Bateria (V/Ah)	1x12/95
Motor de partida (cv/V)	4/12
Voltagem (V)	12

TRANSMISSÃO

Embreagem	
Tipo	monodisco a seco
Diâmetro do disco (mm)	280
Caixa de mudanças	
Modelo	Clark 280-V
N.º de marchas	5
Sincronizadas	2.ª à 5.ª
Reduções 1.ª	7.48:1
2.ª	4.38:1
3.ª	2.40:1
4.ª	1.48:1
5.ª	1.00:1
ré	6.99:1
Tomada de força	0,676 x rpm do motor (OPC.)
Eixo traseiro	
Modelo	Dana 70 HD - Albarus
Redução - Standard	4.56:1
Opcional	4.10:1

CHASSI

Tipo	Escada, rebitado
Módulo seccional (cm³)	108
Suspensão	
Dianteira	Molas semi-elípticas, amortecedores telescópicos e barra estabilizadora
Traseira	Molas semi-elípticas, com deflexão variável, amortecedores telescópicos e barra estabilizadora

FREIOS

De serviço	hidráulico, auxiliado a ar
área de frenagem (cm²)	2080
De estacionamento	com câmara de molas acumuladoras e válvula moduladora de pressão.

RODAS

aros	6.00 G 16
pneus	7,50 x 16 PR 10
OPC.	Pneus radiais 7,50R x 16PR12

CAPACIDADES (litros)

Cárter do motor	9,0
Filtro de óleo	0,6
Caixa de mudanças 280 V	5,0
Diferencial	4,5
Caixa de direção	0,6
Arrefecimento	19,0
Tanque de combustível	100,0

DIMENSÕES (mm)

Distância entre eixos	3500
Distância do centro do eixo dianteiro à parede frontal da carroçaria	800
Comprimento total	6093
Largura	2100
Altura	2377
Balanço dianteiro	1243
Balanço traseiro	1350
Bitola dianteira	1700
Bitola traseira	1629
Altura livre ao solo	210
Círculo base de viragem (m)	13,7

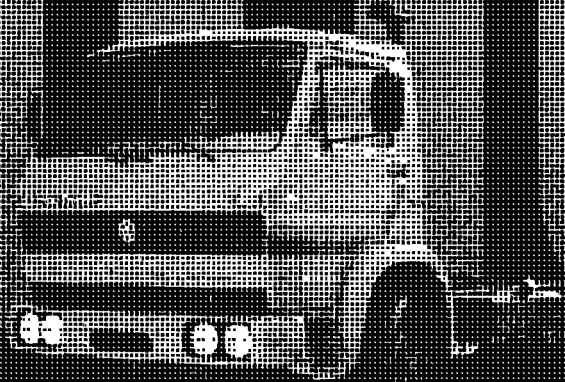
PESOS E CAPACIDADES (kg)

Peso a vazio, sem carroçaria	
eixo dianteiro	1785
eixo traseiro	850
total	2635
Capacidade do eixo dianteiro	2400
Capacidade do eixo traseiro	4420
Peso Bruto Total (PBT)	6355
Capacidade de carga + carroçaria	3720
Peso Bruto Total Combinado (PBTC)	9500

DESEMPENHO

Redução do eixo traseiro	4.56:1	4.10:1
Velocidade máxima 5.ª marcha (km/h)	96,0	106,7
Capacidade de subida de rampa, a torque máximo (%)	32,8	29,0

1010



ESPECIFICAÇÕES TÉCNICAS VW 13.130

MOTOR

Modelo	MWM D-229.6
Ciclo	4 tempos, diesel
Sistema de injeção	Direta
Cilindros	6, em linha
Diâmetro dos cilindros/ curso dos êmbolos (mm)	102/120
Cilindrada (cm³)	5883
Relação de compressão	16,6:1
Potência	
DIN cv/rpm	132/3000
(kW/rpm)	(97,8/3000)
SAE cv/rpm	148,0/3000
(kW/rpm)	(109,5/3000)
ABNT cv/rpm	130/3000
(kW/rpm)	(95,6/3000)
Torque máximo	
DIN m kgf/rpm	37,7/1600
(Nm/rpm)	(369,7/1600)
SAE m kgf/rpm	42,2/1600
(Nm/rpm)	(414,0/1600)
ABNT m kgf/rpm	36,6/1600
(Nm/rpm)	(358,9/1600)
Filtro de ar	seco (Opc.: banho de óleo)
Lubrificação	circulação de óleo sob pressão
Arrefecimento	válvula tanque de expansão
Alimentação	Bosch
Sistema elétrico	
Alternador (A)	40
Bateria (V/Ah)	1x12/150
Motor de partida (cv/V)	4/12
Voltagem (V)	12

TRANSMISSÃO

Embreagem	
Tipo	Diafragma, monodisco a seco
Diâmetro do disco (mm)	330
Caixa de mudanças	
Modelo	Clark CL 450
Nº de marchas	5
Sincronizadas	2ª, 3ª, 4ª e 5ª
Reduções 1ª Constant mesh	8.56:1
2ª	4.63:1
3ª	2.60:1
4ª	1.57:1
5ª	1:00:1
ré	8.56:1
Tomada de força (3200)	0,697 x rpm motor (OPC. 3670/4127/4686)

Eixo traseiro:	Standard	Opcional	
Modelo	LL-147	LL-147	LL-345
Tipo	1 veloc.	1 veloc.	2 veloc.
Acionam.	—	—	Pneumático
Redução-			
EE = 3670/4127/4686	6.83:1	6.17:1	6.00/8.24:1 6.65/9.13:1
EE = 3200	6.83:1	—	6.65/9.13:1

CHASSI

Tipo	Escada, rebitado
Módulo seccional (cm³)	
EE = 3200/3670 (mm)	200
EE = 4127/4686 (mm)	289
Suspensão	
Dianteira	
Standard	Molas semi-elípticas com 2ª lâmina envolvente no olhal da mola, amortecedores telescópicos e barra estabilizadora
Traseira	
Standard	Molas semi-elípticas, com deflexão variável, e molas auxiliares, sistema "Vari-Rate"
Opcional	Molas semi-elípticas longas com feixe auxiliar, dotadas de coxins antideformantes, apoiados em mancais flexíveis isentos de lubrificação, equipados com barra estabilizadora e amortecedores telescópicos
Direção	ZF 8058, hidráulica integral

FREIOS

De serviço	a ar comprimido
área de frenagem (cm²)	4224
De estacionamento	com câmara de molas acumuladoras e válvula moduladora de pressão.
comando	pneumático
adicional	freio-motor

RODAS	raiadas (fundidas)
aros	7.50 x 20
pneus	10.00 x 20 PR 14 (G)
OPC	Pneus radiais 10R x 20 PR16

CAPACIDADES (litros)

Cárter do motor	13,0
Filtro de óleo	1,0
Caixa de mudanças	5,0
Diferencial-simples/duplo	13,0/14,0
Sistema hidráulico de direção	2,0
Arrefecimento	24,5
Tanque de combustível	150

DIMENSÕES (mm)

Distância entre eixos	3200	3670	4127	4686
Distância do centro do eixo dianteiro à traseira da cabina	407	407	407	407
Distância do centro do eixo traseiro à traseira da cabina	2793	3263	3720	4279
Distância do centro do eixo dianteiro à parede frontal da carroçaria	848	800	800	800
Comprimento total	5427	6137	7026	8068
Largura	2244	2244	2244	2244
Altura	2571	2571	2571	2571
Balanço dianteiro	1350	1350	1350	1350
Balanço traseiro	876	1117	1549	2032
Bitola dianteira	1880	1880	1880	1880
Bitola traseira	1825	1825	1825	1825
Altura livre ao solo	287	287	287	287
Círculo base de viragem (m)	11,8	13,5	15,0	17,0

PESOS E CAPACIDADES (kg)

Peso a vazio, s/carroçaria				
eixo dianteiro	2570	2449	2497	2520
eixo traseiro	1350	1525	1573	1597
total	3920	3974	4070	4117
Capacidade do eixo dianteiro	4400	4400	4400	4400
Capacidade do eixo traseiro	9500	9500	9500	9500
Peso Bruto Total (PBT)	13000	13000	13000	13000
Capacidade de carga + carroçaria	9080	9026	8930	8883
Peso Bruto Total admissível com 3º eixo (diferencial simples e duplo)	—	21000	21000	21000
Peso Bruto Total Combinado (PBTC)				
diferencial simples	21000	21000	21000	21000
diferencial duplo	21650	21650	21650	21650

DESEMPENHO

Redução eixo traseiro	6.17:1	6.83:1	6.00/8.24:1	6.65/9.13:1
Velocidade máxima em 5ª marcha (km/h)	93,5	84,5	96,2	86,8
Capacidade de subida de rampa, a torque máximo (%)				
com PBT de 13.000 kg	27,0	30,6	38,3	44,0
com PBT/PBTC de 21.000 kg	15,7	17,7	21,8	24,5

*Especificações sujeitas a alteração sem prévio aviso.



Product information

Volkswagen Trucks
11-130/13-130
6-80/6-90

Volkswagen Trucks
6-80/6-90

ENGINE	
Model	4236 (Premium)
Cycle	4 stroke, diesel
Injection system	Direct
Cylinders	4 in line
Bore/piston stroke (mm)	98.4/127
Displacement (cm^3)	3860
Compression ratio	16:1
Output	
DIN HP/rpm	85/2800
(kW/rpm)	(62.6/2800)
Maximum torque	
DIN m.kgf/rpm	25.6/1600
(Nm/rpm)	(251/1600)
Air cleaner	Dry (optional: oil bath with air inlet over roof)
Lubrication	Oil circulation under pressure
Cooling system	Water, with thermostatic valve and expansion tank
Injection	CAV
Electrical system	
Alternator (A)	35
Battery (V/Ah)	1x12/95
Starter (HP/V)	4/12
Voltage (V)	12
TRANSMISSION	
Clutch	
Type	Dry single disc
Disc diameter (mm)	280
Gearbox	
Model	Clark 240 V
Number of gears	5
Synchronized	All
Gear ratio 1st	6.89:1
2nd	3.92:1
3rd	2.34:1
4th	1.53:1
5th	1.00:1
Reverse	6.99:1
Rear axle	
Model	Dana 70 HD - ALBARUS
Gear ratio - standard	4.56:1
optional	4.10:1

CHASSIS	
Type	Ladder, riveted
Section modulus (cm^3)	108
Suspension	
Front	Semi-elliptic springs, telescopic shock absorbers and stabilizer bar
Rear	Semi-elliptic springs with variable rate, telescopic shock absorbers and stabilizer bar
Steering	Gemmer Y5D, mechanical
Brakes	
Service	Hydraulic brakes, vacuum booster
Braking area (cm^2)	2080
Parking	Mechanical, over transmission
Wheels	
Rims	6.00 G16
Tyres	7.50 x 16 PR 10

CAPACITIES (liters)	
Oil sump	7.0
Oil filter	0.6
Gear box	5.0
Differential	6.0
Steering box	0.6
Cooling system	23.0
Fuel tank	100.0

DIMENSIONS (mm)	
Wheelbase	3500
Front axle center to body front	800
Overall length	6093
Width	2100
Height	2377
Front overhang	1243
Rear overhang	1350
Front wheel track	1700
Rear wheel track	1629
Ground clearance	210
Turning circle (m)	13.7

WEIGHTS AND CAPACITIES (kg)	
Tare	
Front axle	1720
Rear axle	860
Overall	2580
Front axle load	2400
Rear axle load	4420
Gross vehicle weight	6300
Payload	3720
Gross carrying weight	6500

PERFORMANCE		
Rear axle ratio	4.56:1	4.10:1
Maximum speed on 5th gear (km/h)	89.6	99.6
Gradeability at maximum torque (%)	29	25.8

ENGINE	
Model	MWM D-229.4
Cycle	4 stroke, diesel
Injection system	Direct
Cylinders	4 in line
Bore/piston stroke (mm)	102/120
Displacement (cm^3)	3920
Compression ratio	16.6:1
Output	
DIN HP/rpm	91/3000
(kW/rpm)	(66.9/3000)
Maximum torque	
DIN m.kgf/rpm	26.5/1600
(Nm/rpm)	(260/1600)
Air cleaner	Dry (optional: oil bath with air inlet over roof)
Lubrication	Oil circulation under pressure
Cooling System	Water, with thermostatic valve and expansion tank
Injection	Bosch
Electrical system	
Alternator (A)	35
Battery (V/Ah)	1x12/95
Starter (HP/V)	4/12
Voltage (V)	12
TRANSMISSION	
Clutch	
Type	Dry single disc
Disc diameter (mm)	280
Gear box	
Model	Clark 240 V
Number of gears	5
Synchronized	All
Gear ratio Ist	6.89:1
2nd	3.92:1
3rd	2.34:1
4th	1.53:1
5th	1.00:1
Reverse	6.99:1
Rear axle	
Model	Dana 70 HD - ALBARUS
Speed ratio - standard	4.56:1
optional	4.10:1

CHASSIS		
Type	Ladder, riveted	
Section modulus (cm^3)	108	
Suspension		
Front	Semi-elliptic springs, telescopic shock absorbers and stabilizer bar	
Rear	Semi-elliptic springs with variable rate, telescopic shock absorbers and stabilizer bar	
Steering	Gemmer Y5D, mechanical	
Brakes		
Service	air over hydraulic, double circuit	
Braking area (cm^2)	2080	
Parking	Spring brake	
Wheels		
Rims	6.00 G16	
Tyres	7.50 x 16 PR 10	
CAPACITIES (liters)		
Oil sump	9.0	
Oil filter	0.6	
Gear box	5.0	
Differential	6.0	
Steering box	0.6	
Cooling system	23.0	
Fuel tank	100.0	
DIMENSIONS (mm)		
Wheelbase	3500	
Front axle center to body front	800	
Overall length	6093	
Width	2100	
Height	2377	
Front overhang	1243	
Rear overhang	1350	
Front wheel track	1700	
Rear wheel track	1629	
Ground clearance	210	
Turning circle (m)	13.7	
WEIGHTS AND CAPACITIES (kg)		
Tare		
Front axle	1785	
Rear axle	850	
Overall	2635	
Front axle load	2400	
Rear axle load	4420	
Gross vehicle weight	6355	
Payload	3720	
Gross carrying weight	6500	
PERFORMANCE		
Rear axle ratio	4.56:1	4.10:1
Maximum speed on 5th gear (km/h)	96.0	106.7
Gradeability at maximum torque (%)	30.1	26.7

Vehicle's standard equipment

Vehicle equipment is most important for client's decision to acquire a truck.

The VW 6.80 and VW 6.90 trucks include following equipment in standard version:

6.80

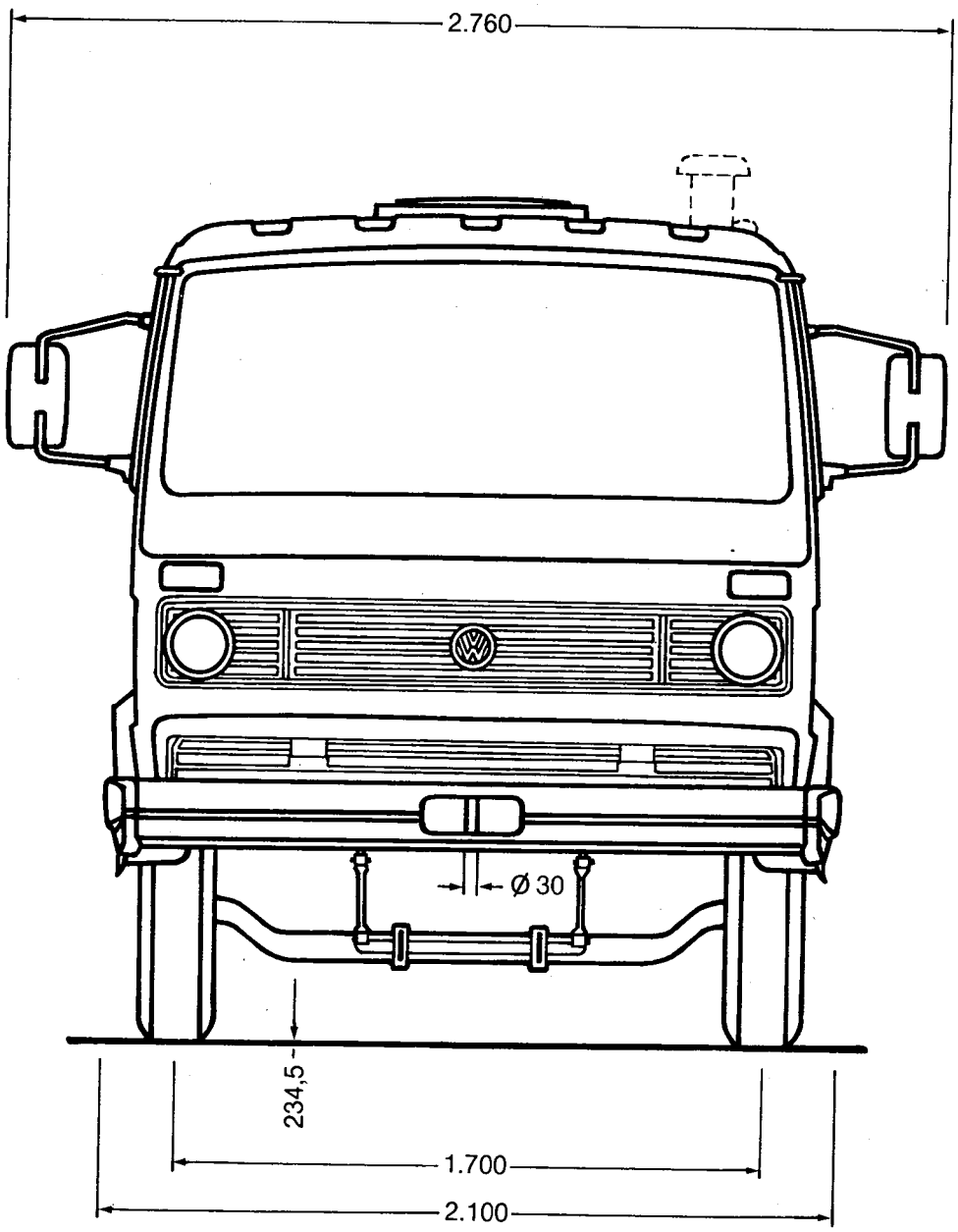
Multi-adjustable driver seat with head rest
2/3 passenger seat
Glove box door with key
Arm rest
Vent wing
Right side sun visor
Traffic lights on roof
Turning light
100 liter fuel tank
Roof hatch
Double horn
Cigarette lighter
Double outside rear-view mirror
Sound and heat proof insulation
Rear and front stabilizers
Warning lights and buzzer

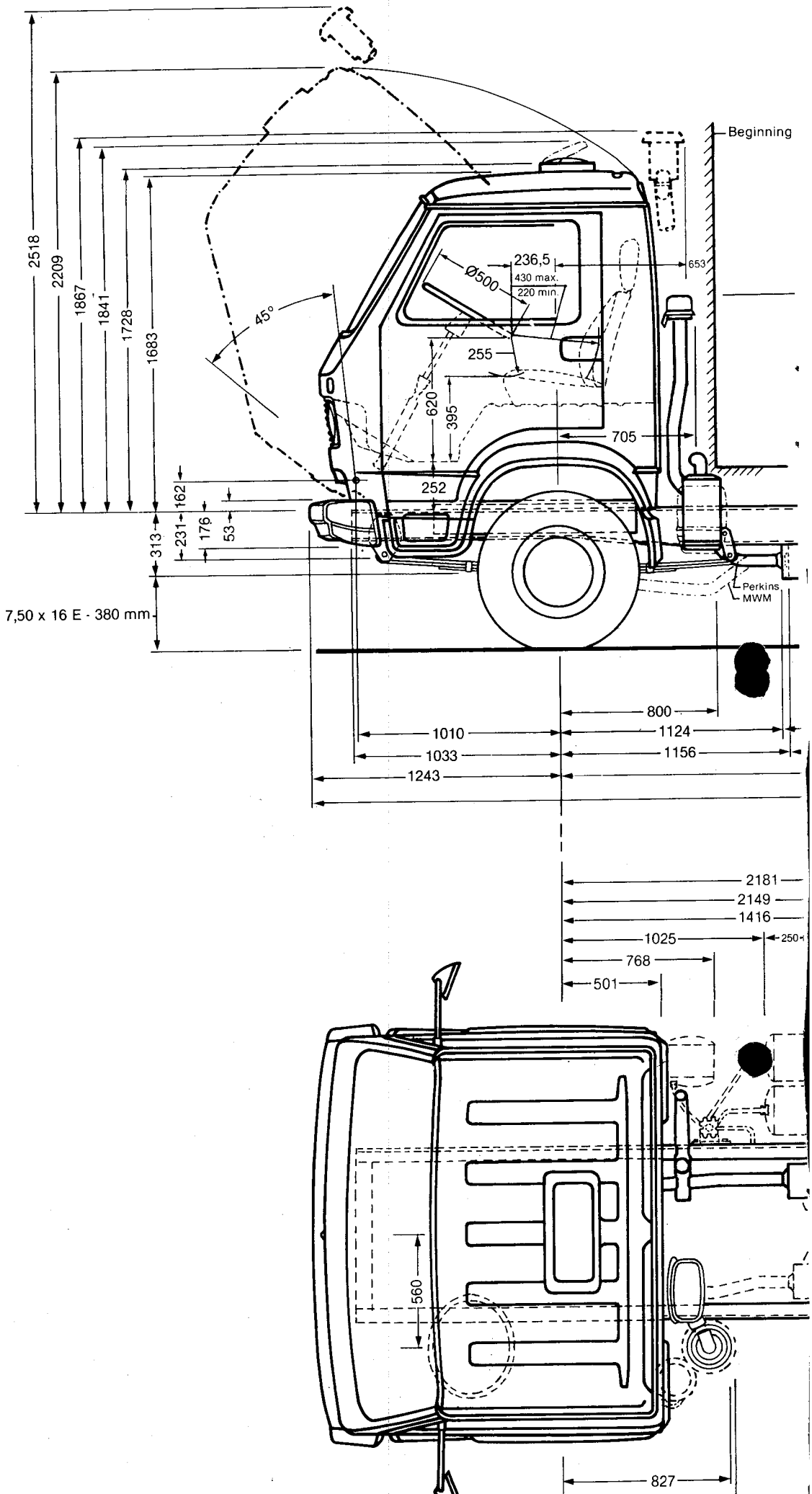
6.90

Multi-adjustable driver seat with head rest
2/3 passenger seat
Glove box door with key
Arm rest
Vent wing
Right side sun visor
Traffic lights on roof
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Roof hatch
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Warning lights and buzzer

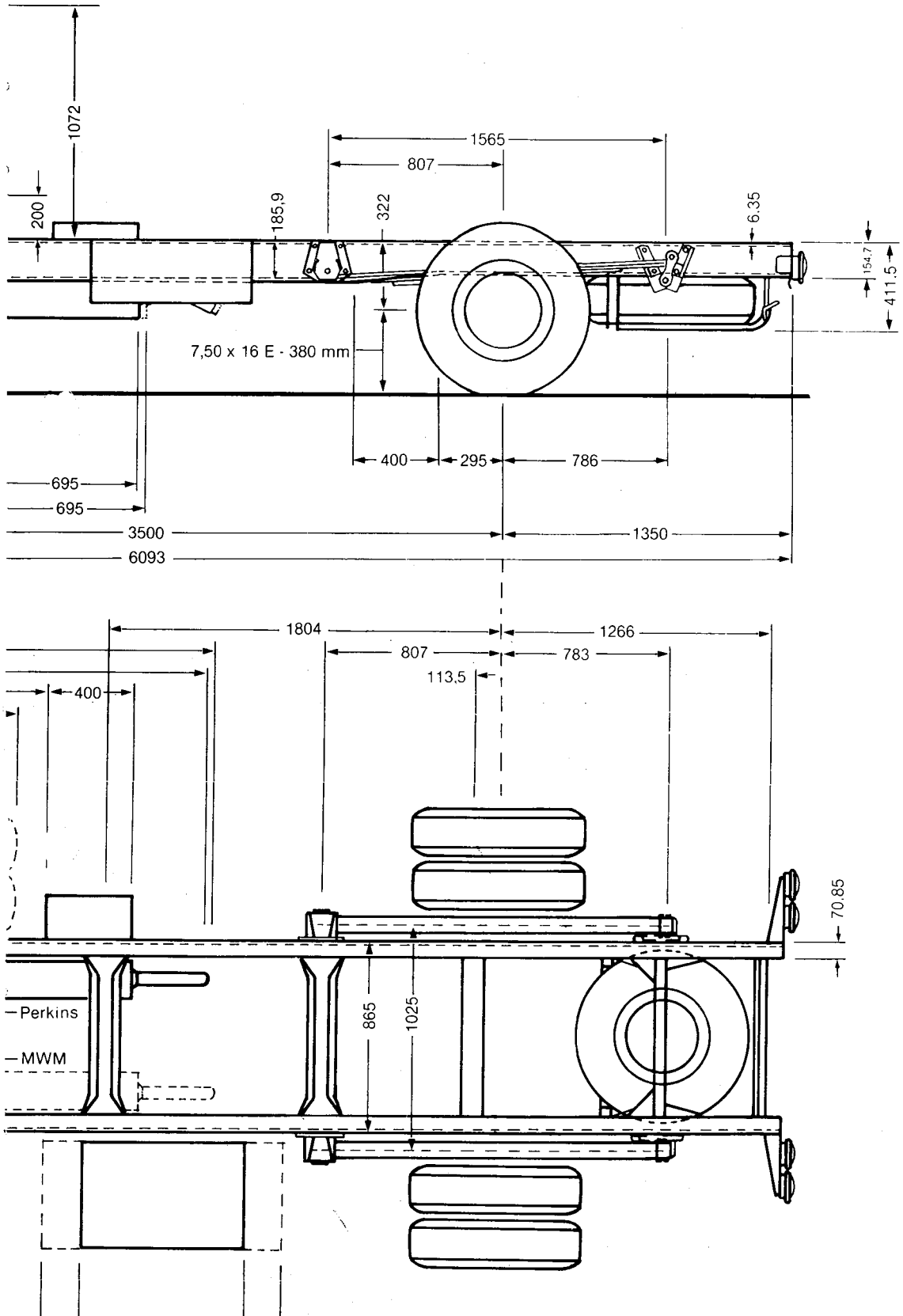
Optional equipment

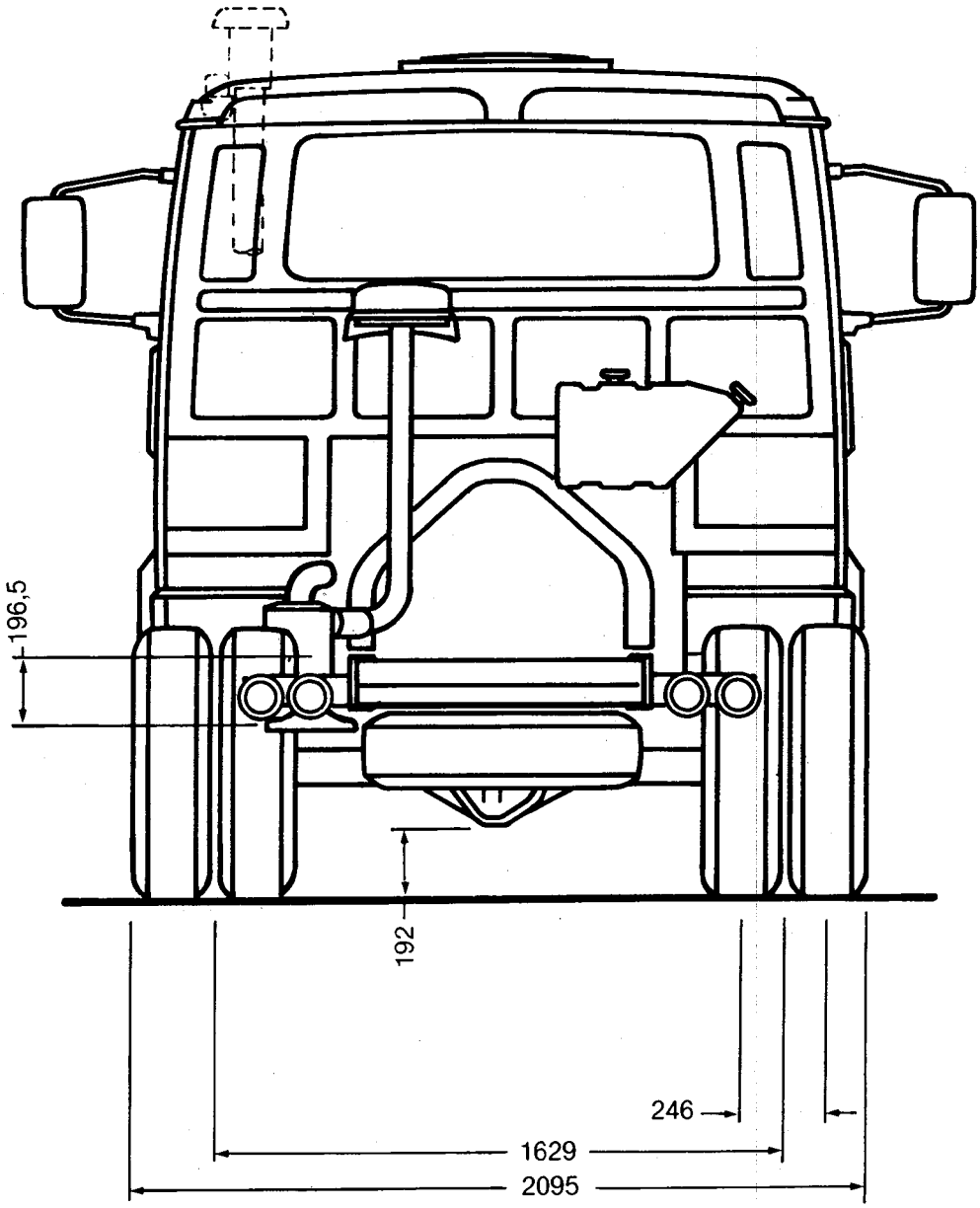
Heating system
Oil bath air cleaner
3 band radio
Bed seat (2/3)
Spare tyres
Head rest
150 liter fuel tank


2.760
Ø 30
234,5
1.700
2.100


2518
2209
1867
1841
1728
1683
162
231
176
53
313
7,50 x 16 E - 380 mm
Beginning
236,5
430 max.
220 min.
653
Ø500
45°
255
620
395
705
252
Perkins
MWM
800
1010
1124
1033
1156
1243
2181
2149
1416
1025
250
768
501
560
827

of cargo platform




196,5
192
246
1629
2095

Available versions

Chassis/Cab - Standard production			
Model	Type	Version	Description
6.80	C	0681	Equipped with 4.56:1 differential; vacuum booster hydraulic brakes.
6.90	C	0691	Equipped with 4.56:1 differential; compressed air booster hydraulic brakes.

Chassis/Cab - Made to order			
Model	Type	Version	Description
6.80	C	0682	Equiped with 4.10:1 differential; vacuum booster hydraulic brakes.
6.90	C	0692	Equipped with 4.10:1 differential; compressed air booster hydraulic brakes.

C = Chassis/Cab for conventional use

Recommended types of improvements

	6.80	6.90
WOODEN BODY (Dry load)		
External measurements		
Length (mm)	4450	4450
Width (mm)	2200	2200
Height (mm)	500 to 650	500 to 650
Approximate body weight (kg)	890	890
Chassis weight (kg)	2580	2635
Tare (kg)	3470	3525
Weight of load (kg)	2830	2830
ALUMINUM VAN		
External measurements		
Length (mm)	4450	4450
Width (mm)	2200	2200
Height (mm)	2200	2200
Internal volume (m^3)	18.45	18.45
Approximate van weight (kg)	1000	1000
Chassis weight (kg)	2580	2635
Tare (kg)	3580	3635
Weight of load (kg)	2720	2720
ISOTHERMIC VAN (Aluminum)		
External measurements		
Length (mm)	4450	4450
Width (mm)	2200	2200
Height (mm)	2200	2200
Internal volume (m^3)	18.00	18.00
Chassis weight (kg)	2580	2635
Approximate van weight (kg)	1535	1535
Tare (kg)	4115	4170
Weight of load (kg)	2185	2185

REMARKS:

Manufacturer reserves the right to modify design and specifications and/or introduce additional parts or make product improvements without liability to install them on previously produced vehicles.

Volkswagen Trucks
11-130/13-130

ENGINE

Model	MWM D-229.6
Cycle	4 stroke, diesel
Injection system	Direct
Cylinders	6 in line
Bore/piston stroke (mm)	102/120
Displacement (cm^3)	5883
Compression ratio	16.6:1
Output	
DIN HP/rpm	132/3000
(kW/rpm)	(97,1/3000)
ABNT HP/rpm	130/3000
(kW/rpm)	(95,6/3000)
Maximum torque	
DIN m.kgf/rpm	37,7/1600
(Nm/rpm)	(369,7/1600)
ABNT m.kgf/rpm	36,6/1600
(Nm/rpm)	(358,9/1600)
Air cleaner	Dry (optional: oil bath)
Lubrication	Oil circulation under pressure
Cooling system	Water, with thermostatic valve and expansion tank
Injection	Bosch
Electrical system	
Alternator (A)	40
Battery (V/Ah)	1x12/150
Starter (HP/V)	4/12
Voltage (V)	12

TRANSMISSION

Clutch			
Type	Dry single disc		
Disc diameter (mm)	305 (optional: 330 with air and engine brake)		
Gear box			
Model	Clark 280 VHD		
Number of gears	5		
Synchronized	2nd, 3rd, 4th and 5th		
Gear ratio Ist	8.58:1		
2nd	4.84:1		
3rd	2.65:1		
4th	1.63:1		
5th	1.00:1		
Reverse	7.10:1		
Power take off (CB)	0.676 x engine rpm		
Rear axle	Standard	Optional	
Model	HL-145	HL-145	HH-340
Type	1 speed	1 speed	2 speed
Speed ratio - Wheelbase = 3670/4127/4686	6.17:1	6.83:1	6.16/8.48:1
- Wheelbase = 3200	6.83:1	—	6.61/9.09:1

CHASSIS

Type	Ladder, riveted
Section modulus (cm^3)	
Wheelbase = 3200/3670/4127 mm	200
Wheelbase = 4686 mm	289

Suspension	Standard	Optional
Front	Semi-elliptic springs with 2nd involving leaf on spring eyelet and telescopic shock absorber	Semi-elliptic springs with 2nd involving leaf on spring eyelet, telescopic shock absorber and stabilizer bar

Rear	Semi-elliptic springs with variable rate and "Variant" system auxiliary springs		Long semi-elliptic springs with auxiliary leaf spring, equipped with anti-deforming pads supported on free of lubrication flexible bearings, equipped with stabilizer bar and telescopic shock absorbers	
Steering	Gemmer 6D, mechanical			
Optional	ZF 8058 power steering (standard wheelbase = 4686 mm)			
Brakes				
Service	Hydraulic brakes, vacuum booster			
Braking area (cm^2)	3679			
Optional brake	Compressed air			
Braking area (cm^2)	4224			
Parking	Mechanical over transmission			
Operation	Mechanical			
Optional	Spring brake			
Operation	Pneumatic			
Additional	Optional engine brake (with air brake)			
Wheels	Pressed steel disc			
Rims	7.00 x 20			
Tyres	9.00 x 20 PR 12(F)			
CAPACITIES (liters)				
Oil sump	13.0			
Oil filter	1.0			
Gear box	5.0			
Rear axle - single/double	13.0/14.0			
Mechanical steering box	0.75			
Optional power steering box	2.0			
Cooling system	24.5			
Fuel tank	150			
DIMENSIONS (mm)				
Wheelbase	3200	3670	4127	4686
Front axle center to cab rear	407	407	407	407
Rear axle centre to cab rear	2793	3263	3720	4279
Front axle centre to body front wall	925	800	800	800
Overall length	5427	6137	7026	8068
Width	2244	2244	2244	2244
Height	2554	2554	2554	2554
Front overhang	1350	1350	1350	1350
Rear overhang	876	1117	1549	2032
Front wheel track	1880	1880	1880	1880
Rear wheel track	1765	1765	1765	1765
Ground clearance	266	266	266	266
Turning circle (m)	11.8	13.5	15.0	17.0
WEIGHTS AND CAPACITIES (kg)				
Tare (DIN 70020)				
Front axle	2320	2350	2360	2470
Rear axle	1138	1300	1313	1450
Overall	3458	3650	3673	3920
Front axle load	3500	3500	3500	3800
Rear axle load	8200	8200	8200	8200
Gross vehicle weight	11000	11000	11000	11000
Payload	7542	7350	7327	7880
Gross vehicle weight allowable with 3rd axle				
Single speed rear axle	-	19000	19000	19000
Double speed rear axle	-	19500	19500	19500
Gross carrying weight				
Single speed rear axle	19000	19000	19000	19000
Double speed rear axle	19500	19500	19500	19500
PERFORMANCE				
Rear axle ratio	6.17:1	6.83:1	6.16/8.48:1	6.61/9.09:1
Maximum speed on 5th gear (km/h)	90.2	81.5	90.4	84.2
Gradeability at maximum torque (%)				
with Gross vehicle weight 11,000 kg	32.9	37.1	48.4	53.0
11,800kg	29.4	33.0	42.7	—
with Gross vehicle weight/Gross carrying weight 19,000 kg	17.7	19.9	—	—
with Gross vehicle weight/Gross carrying weight 19,500 kg	—	—	24.6	26.6

ENGINE

Model	MWM D-229.6
Cycle	4 stroke, diesel
Injection system	Direct
Cylinders	6 in line
Bore/piston stroke (mm)	102/120
Displacement (cm^3)	5883
Compression ratio	16.6:1
Output	
DIN HP/rpm	132/3000
(kW/rpm)	(97.8/3000)
ABNT HP/rpm	130/3000
(kW/rpm)	(95.6/3000)
Maximum torque	
DIN m.kgf/rpm	37.7/1600
(Nm/rpm)	(369.7/1600)
ABNT m.kgf/rpm	36.6/1600
(Nm/rpm)	(358.9/1600)
Air cleaner	Dry (optional: oil bath)
Lubrication	Oil circulation under pressure
Cooling system	Water, with thermostatic valve and expansion tank
Injection	Bosch
Electrical system	
Alternator (A)	40
Battery (V/Ah)	1x12/150
Starter (HP/V)	4/12
Voltage (V)	12

TRANSMISSION

Clutch			
Type	Dry single disc		
Disc diameter (mm)	330 mm		
Gear box			
Model	Clark 280 VHD		
Number of gears	5		
Synchronized	2nd, 3rd, 4th and 5th		
Gear ratio 1st	8.58:1		
2nd	4.84:1		
3rd	2.65:1		
4th	1.63:1		
5th	1.00:1		
Reverse	7.10:1		
Power take off (CB)	0.676 x engine rpm		
Rear axle	Standard	Optional	
Model	LL-145	LL-145	LL-345
Type	1 speed	1 speed	2 speed
Gear ratio - wheelbase = 3670/4127/4686	6.83:1	6.17:1	6.00/8.24:1 6.65/9.13:1
wheelbase = 3200	6.83:1	—	6.65/9.13:1

CHASSIS

Type	Ladder, riveted
Section modulus (cm^3)	
Wheelbase = 3200/3670 mm	200
Wheelbase = 4127/4686 mm	289

Suspension	Standard	Optional
Front	Semi-elliptic springs with 2nd involving leaf on spring eyelet and telescopic shock absorber	Semi-elliptic springs with 2nd involving leaf on spring eyelet, telescopic shock absorber and stabilizer bar

Rear	Semi-elliptic springs with variable rate and "Variant" system auxiliary springs	Long semi-elliptic springs with auxiliary leaf spring, equipped with anti-deforming pads supported on free of lubrication flexible bearings, equipped with stabilizer bar and telescopic shock absorbers

Steering	ZF 8058, power steering
Brakes	
Service	Compressed air brakes
braking area (cm^2)	4224
Parking	Spring brake
operation	Pneumatic
Additional	Optional engine brake
Wheels	Cast spoke
Rims	7.50 x 20
Tyres	10.00 x 20 PR-14(G)

CAPACITIES (liters)	
Oil sump	13.0
Oil filter	1.0
Gear box	5.0
Rear axle - single/double	13.0/14.0
Power steering system	2.0
Cooling system	24.5
Fuel tank	150

DIMENSIONS (mm)				
Wheelbase	3200	3670	4127	4686
Front axle centre to cab rear	407	407	407	407
Rear axle centre to cab rear	2793	3263	3720	4279
Front axle centre to body front wall	848	800	800	800
Overall length	5427	6137	7026	8068
Width	2244	2244	2244	2244
Height	2571	2571	2571	2571
Front overhang	1350	1350	1350	1350
Rear overhang	876	1117	1549	2032
Front wheel track	1880	1880	1880	1880
Rear wheel track	1825	1825	1825	1825
Ground clearance	287	287	287	287
Turning circle (m)	11.8	13.5	15.0	17.0

WEIGHTS AND CAPACITIES (kg)				
Tare				
Front axle	2570	2449	2497	2520
Rear axle	1350	1525	1573	1597
Overall	3920	3974	4070	4117
Front axle load	4100	4100	4100	4100
Rear axle load	9500	9500	9500	9500
Gross vehicle weight	13000	13000	13000	13000
Payload	9080	9026	8930	8883
Gross vehicle weight allowable with 3rd axle				
Single and double speed rear axle		21000	21000	21000
Gross carrying weight				
Single speed rear axle	21000	21000	21000	21000
Double speed rear axle	21650	21650	21650	21650

PERFORMANCE				
Rear axle ratio	6.17:1	6.83:1	6.00/8.24:1	6.65/9.13:1
Maximum speed on 5th gear (km/h)	93.5	84.5	96.2	86.8
Gradeability at maximum torque (%)				
with Gross vehicle weight 13,000 kg	26.1	29.3	36.5	41.2
Gross vehicle weight/Gross carrying weight 21,000 kg	15.2	17.1	21.1	23.6
Gross carrying weight 21,650 kg	—	—	20.4	22.8

Vehicle's standard equipment

Vehicle equipment is most important for client's decision to acquire a truck.

The VW 11-130 and VW 13-130 trucks include following equipment in standard version:

11-130

Multi-adjustable driver seat with head rest
2/3 passenger seat
Glove box door with key
Arm rest
Vent wing
Right side sun visor
Traffic lights on roof
Turning light
150 liter fuel tank
Roof hatch
Front towing hook
9.00 x 20-12 ply front tyres
Double horn
Cigarette lighter
Double outside rear-view mirror
Sound and heat proof insulation
Air filter intake above roof
Warning lights and buzzer
Power steering (4686 mm wheelbase only)
Power take off (CB type only), operated on instrument panel

13-130

Multi-adjustable driver seat with head rest
2/3 passenger seat
Glove box door with key
Arm rest
Vent wing
Right side sun visor
Traffic lights on roof
Turning light
150 liter fuel tank
Roof hatch
Front towing hook
10.00 x 20-14 ply front tyres
Double horn
Cigarette lighter
Double outside rear-view mirror
Sound and heat proof insulation
Air filter intake above roof
Warning lights and buzzer
Power steering
Engine brake
Pneumatic service brake
Parking spring brake
Cast spoke wheels
Power take of (CB type only), operated on instrument panel

Optional equipment

Power steering (for 11-130) with 3670 mm and 4127 mm wheelbase
Oil bath air cleaner
3 band radio with antenna
Bed seat (2/3)
Solid-rubber tyre
Spare tyre
Heating system

Available versions

Volkswagen Caminhões Ltda. offers several versions of these models aiming to meet each truck particular job. As a result we have several transmission and brake combination alternatives:

11-130

Model 11-130 - Chassis/Conventional cab - Standard Production		
Type	Version	Description
C	1133	Equipped with 6.17:1 single speed rear axle; pneumatic brakes with spring brake and engine brake
C	1136	Equipped with 6.16/8.48:1 double speed rear axle; pneumatic brakes with spring brake and engine brake

Model 11-130 - Chassis/Conventional cab - Made to order		
Type	Version	Description
C	1131	Equipped with 6.17:1 single speed rear axle and vacuum booster hydraulic brake
C	1132	Equipped with 6.83:1 single speed rear axle and vacuum booster hydraulic brake
C	1134	Equipped with 6.83:1 single speed rear axle; pneumatic brakes with spring brake and engine brake

Model 11-130 - Chassis/Cab with power take off - Standard Production		
Type	Version	Description
CB	1134	Equipped with 6.83:1 single speed rear axle; pneumatic brakes with spring brake and engine brake

Model 11-130 - Chassis/Conventional cab - Made to order		
Type	Version	Description
CB	1132	Equipped with 6.83:1 single speed rear axle and vacuum booster hydraulic brake
CB	1137	Equipped with 6.61/9.09:1 double speed rear axle; pneumatic brakes with spring brake and engine brake

13-130

Model 13-130 - Chassis/Conventional cab - Standard Production		
Type	Version	Description
C	1332	Equipped with 6.83:1 single speed rear axle
C	1334	Equipped with 6.65/9.13:1 double speed rear axle

Model 13-130 - Chassis/Conventional cab - Made to order		
Type	Version	Description
C	1331	Equipped with 6.17:1 single speed rear axle
C	1333	Equipped with 6.00/8.24:1 double speed rear axle

Model 13-130 - Chassis/Cab with power take off - Standard Production		
Type	Version	Description
CB	1334	Equipped with 6.65/9.13:1 double speed rear axle

Model 13-130 - Chassis/Cab with power take off - Made to order		
Type	Version	Description
CB	1332	Equipped with 6.83:1 single speed rear axle

NOTE: Types: C = Chassis/Cab for general purposes
CB = Chassis for dump bodies

11-130 - Application 4x2			
Transport sector	Type of load	Wheelbase (mm)	Type of body
Earth-moving, paving and similar work	Asphalt Earth, sand, gravel, etc.	3670 3200	Sprinkling tank 4 m³ dump body
Liquid load	Water	3670	6,000 liters tank with motor pump
Service work	Refuse collection	3200	Special refuse collector/compactor body
Auxiliary and support unit for convoys	Compressors, tools	4127	Special body
Transport of voluminous or load density loads	Furniture, electro-domestic appliances, super-market deliveries	4686	Conventional van (wooden body)
Drink and bottled gas transport	Cylinders, bottles, liters	—	* Lowered platform

* Bodywork subject to guidance and approval by Technical Assistance Department of VWCL.

13-130

13-130 - Application 4 x 2			
Transport sector	Type of load	Wheelbase (mm)	Type of body
Fuel and by-products	Petrol, alcohol, Diesel, etc.	3670 4127	8,865 to 9,640 liters tank
Drink and bottled gas transport	Cylinders, bottles, liters	—	* Lowered platform
Earth-moving, paving and similar work	Asphalt, earth, sand, gravel, etc.	3670 3200	Sprinkling tank 5m³ dump body
Liquid load	Water	3670	7,190 liters tank with motor pump
Service work	Refuse collection	3200	Special refuse collector/compactor body
Cattle raising	Steers on the hoof, medium size animals	4686	* Special body

13-130 - Application 6x2 (3rd. axle adaptation by 3rd parties)			
Transport sector	Type of load	Wheelbase (mm)	Type of body
Fuel and by-products	Petrol, alcohol, Diesel, etc.	3670 + 1300 4127 + 1300	15,576 to 16,500 liters tank
Earth-moving, paving and similar work	Earth, sand, gravel, etc.	3670 + 1300	7 m² dump body
Liquid load	Water	3670 + 1300	12,800 liters tank with motor pump
Cattle raising	Steers on the hoof	—	Cattle body

Recommended types of improvements

	Wheelbase = 3670 mm		Wheelbase = 4127 mm		Wheelbase = 4686 mm	
	(4x2)	(6x2)	(4x2)	(6x2)	(4x2)	(6x2)
WOODEN BODY (Dry load)						
External measurements						
Length (mm)	4,700	6,650	5,390	7,300	6,230	8,100
Width (mm)	2,600	2,600	2,600	2,600	2,600	2,600
Height (mm)	600	600	600	600	600	600
Aproximate body weight (kg)	950	1,330	1,074	1,460	1,220	1,620
Chassis weight (kg)	3,650	3,650	3,673	3,673	3,920	3,920
3rd axle weight (kg)	—	1,500	—	1,500	—	1,500
Tare (kg)	4,600	6,480	4,747	6,633	5,140	7,040
Weight of load (kg)	6,400	12,520	6,253	12,367	6,660	11,960
ALUMINUM VAN						
External measurements						
Length (mm)	4,700	6,650	5,390	7,300	6,230	8,100
Width (mm)	2,600	2,600	2,600	2,600	2,600	2,600
Height (mm)	2,600	2,600	2,600	2,600	2,600	2,600
Internal volume (m^3)	27.99	40.41	32.67	44.42	37.90	48.60
Approximate van weight (kg)	1,055	1,529	1,235	1,679	1,403	1,840
Chassis weight (kg)	3,650	3,650	3,673	3,673	3,920	3,920
3rd axle weight (kg)	—	1,500	—	1,500	—	1,500
Tare (kg)	4,705	6,619	4,908	6,852	5,323	7,260
Weight of load (kg)	6,295	12,321	6.092	12,148	6,477	11,740
ISOTHERMIC VAN (Aluminum)						
External measurements						
Length (mm)	4,700	6,650	5,390	7,300		
Width (mm)	2,400	2,400	2,400	2,400		
Height (mm)	2,200	2,200	2,200	2,200		
Internal volume (m^3)	19.43	28.09	22.68	30.84		
Approximate chassis weight (kg)	3,650	3,650	3,673	3,673		
Approximate van weight (kg)	1,500	2,300	1,850	2,500		
3rd axle weight (kg)	—	1,500	—	1,500		
Tare (kg)	5,150	7,450	5,523	7,673		
Weight of load (kg)	5,850	11,550	5,477	11,327		

TANKS	Water with motor pump		Fuel (gasoline)	
Capacity (liters)	6,000	11,340	7,550	13,400
Weight (kg)	6,000	11,340	5,660	10,720
Approximate tank weight (kg)	1,225	1,960	1,750	2,668
Chassis weight (kg)	3,650	3,650	3,673	3,673
3rd axle weight (kg)	—	1,500	—	1,500
Motor pump weight (kg)	400	400	—	—
Gross vehicle weight (kg)	11,275	18,850	11,083	18,561

TANKS	Fuel (diesel)	
Capacity (liters)	6,950	13,420
Diesel oil weight (kg)	5,907	11,480
Approximate tank weight (kg)	1,470	2,450
Chassis weight (kg)	3,650	3,650
3rd axle weight (kg)	—	1,500
Gross vehicle weight (kg)	11,027	19,080

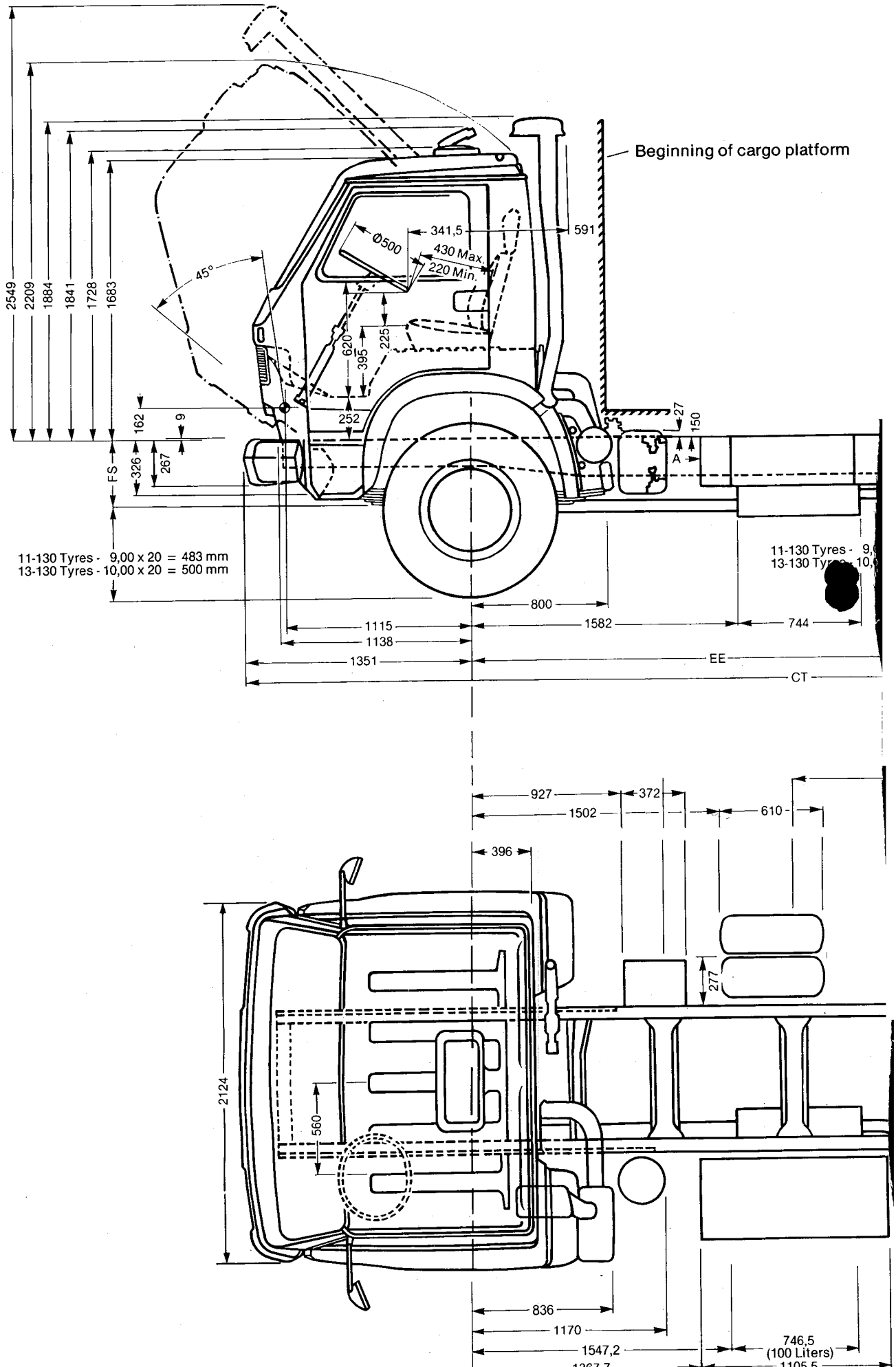
Remark: Same tanks for carrying gasoline or alcohol

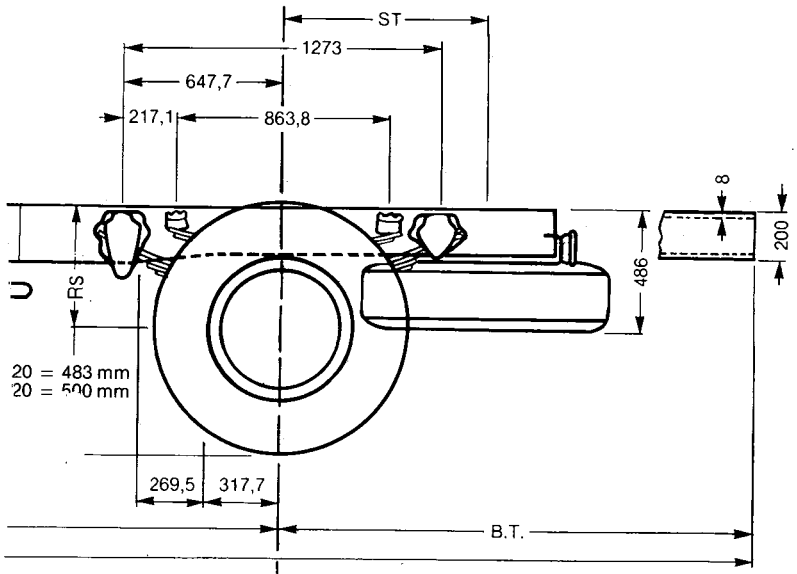
AUXILIARY 3rd AXLE

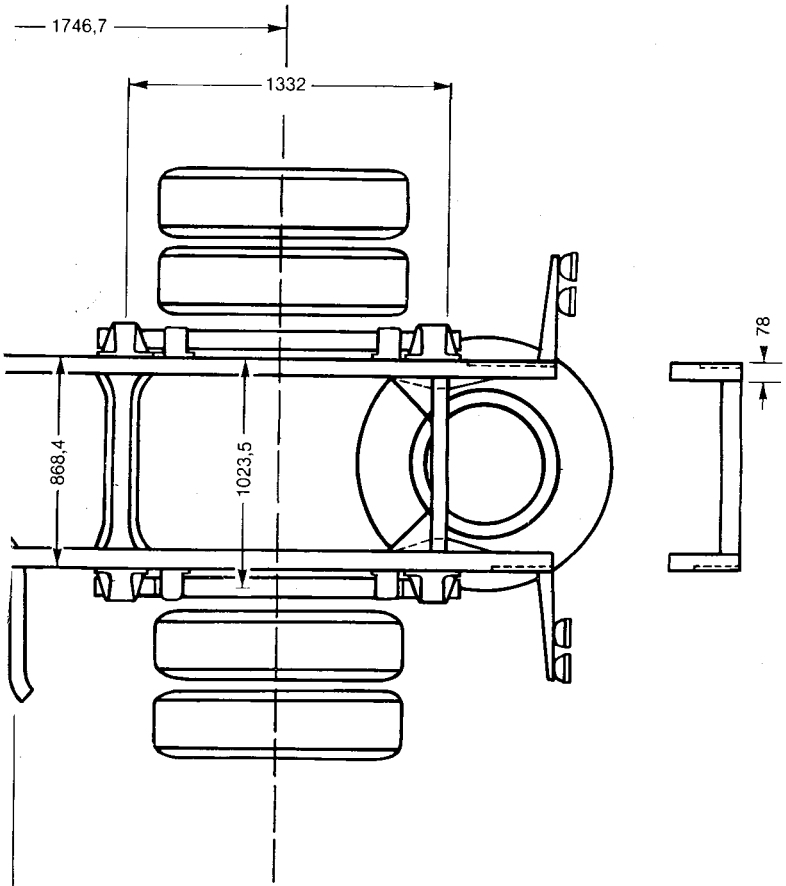
Auxiliary 3rd axle (6x2) installation on vehicles equiped with vacuum booster hydraulic brakes is not recommended.

Recommended types of improvements

	Wheelbase = 3670 mm		Wheelbase = 4127 mm		Wheelbase = 4686 mm	
	(4x2)	(6x2)	(4x2)	(6x2)	(4x2)	(6x2)
WOODEN BODY (Dry load)						
External measurements						
Length (mm)	4,700	6,650	5,390	7,300	6,230	8,100
Width (mm)	2,600	2,600	2,600	2,600	2,600	2,600
Height (mm)	600	600	600	600	600	600
Aproximate body weight (kg)	950	1,330	1,074	1,460	1,220	1,620
Chassis weight (kg)	3,974	3,074	4,070	4,070	4,117	4,117
3rd axle weight (kg)	—	1,500	—	1,500	—	1,500
Tare (kg)	4,924	6,804	5,144	7,030	5,337	7,237
Weight of load (kg)	8,076	14,196	7,856	13,970	7,663	13,763
ALUMINUM VAN						
External measurements						
Length (mm)	4,700	6,650	5,390	7,300	6,230	8,100
Width (mm)	2,600	2,600	2,600	2,600	2,600	2,600
Height (mm)	2,600	2,600	2,600	2,600	2,600	2,600
Internal volume (m^3)	28.60	42.30	32.79	44.41	37.90	48.60
Approximate van weight (kg)	1,055	1,529	1,235	1,679	1,403	1,840
Chassis weight (kg)	3,974	3,974	4,070	4,070	4,117	4,117
3rd axle weight (kg)	—	1,500	—	1,500	—	1,500
Tare (kg)	5,029	7,003	5,305	7,249	5,520	7,457
Weight of load (kg)	7,971	13,997	7,695	13,751	7,480	13,543
ISOTHERMIC VAN (Aluminum)						
External measurements						
Length (mm)	4,700	6,230	5,390	7,100		
Width (mm)	2,400	2,400	2,400	2,400		
Height (mm)	2,200	2,200	2,200	2,200		
Internal volume (m^3)	19.85	28.00	22.77	30.84		
Approximate van weight (kg)	1,623	2,280	1,858	2,518		
Chassis weight (kg)	3,974	3,974	4,070	4,070		
3rd axle weight (kg)	—	1,500	—	1,500		
Tare (kg)	5,597	7,874	5,928	8,088		
Weight of load (kg)	7,403	13,126	7,072	12,912		
TANKS	Water with motor pump					
Capacity (liters)	7,190	12,800				
Weight (kg)	7,190	12,800				
Approximate tank weight (kg)	1,277	2,170				
Chassis weight (kg)	3,974	3,974				
3rd axle weight (kg)	—	1,500				
Motor pump weight (kg)	400	400				
Gross vehicle weight (kg)	12,841	20,844				
FUEL	Diesel Oil		Gasoline			
Capacity (liters)	8,865	15,576	9,640	16,500		
Fuel weight (kg)	7,535	13,239	7,230	12,375		
Approximate tank weight (kg)	1,575	2,310	1,785	2,555		
Chassis weight (kg)	3,974	3,974	4,070	4,070		
3rd axle weight (kg)	—	1,500	—	1,500		
Gross vehicle weight (kg)	13,084	21,023	13,085	20,500		


Beginning of cargo platform
2549
2209
1884
1841
1728
1683
45°
Ø500
341,5
591
430 Max.
220 Min.
620
395
225
252
162
9
326
267
FS
27
150
A
11-130 Tyres - 9,00 x 20 = 483 mm
13-130 Tyres - 10,00 x 20 = 500 mm
800
1115
1582
744
1138
1351
EE
CT
927
372
1502
610
396
277
2124
560
836
1170
1547,2
746,5
(100 Liters)



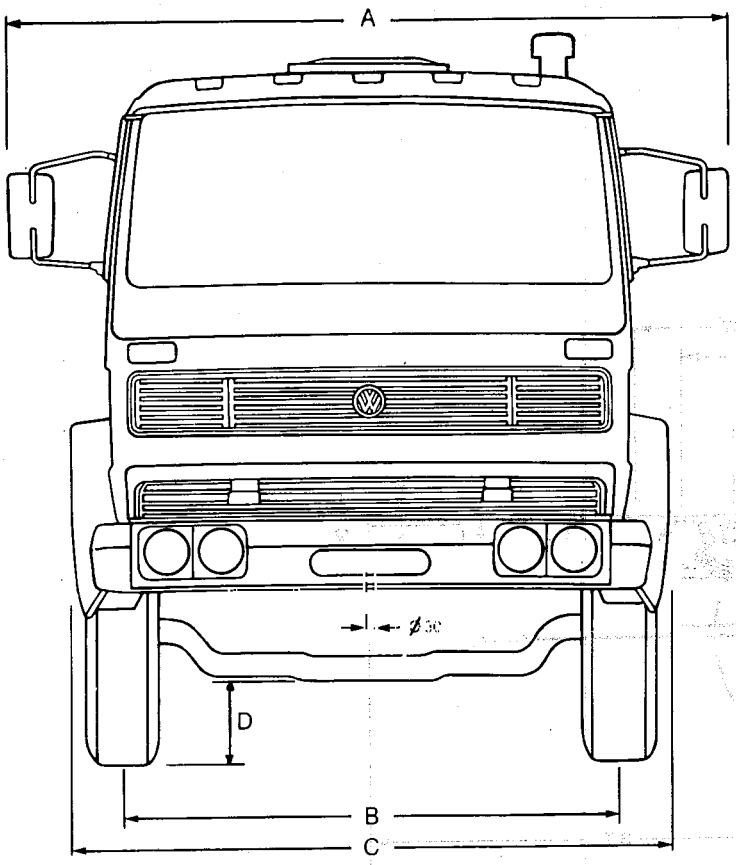


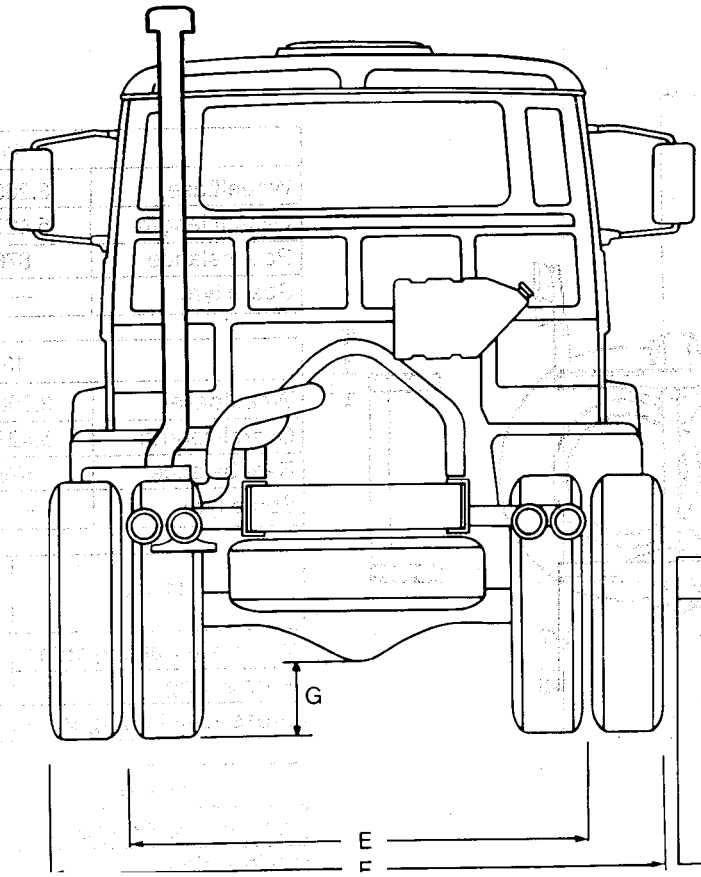
11.130				
Wheelbase	3.200	3.670	4.127	4.686
Overall length	5.427	6.137	7.026	8.068
Rear balance	876	1.117	1.549	2.032
Spare tyre	—	864,2	864,2	864,2

13.130				
Wheelbase	3.200	3.670	4.127	4.686
Overall length	5.427	6.137	7.026	8.068
Rear balance	876	1.117	1.549	2.032
Spare tyre	—	864,2	864,2	864,2

11.130	Front Suspension	Rear Suspension
Vehicle in walking order	400	471
Plain spring	343	356
Gross vehicle weight	367	378

13.130		
Vehicle in walking order	420	492
Plain spring	343	356
Gross vehicle weight	378	000





	11/130	13/130
A	2.760	2.760
B	1.880	1.880
C	2.244	2.244
D	266,6	292,6
E	1.765	1.825
F	2.445	2.467
G	270,5	287,5