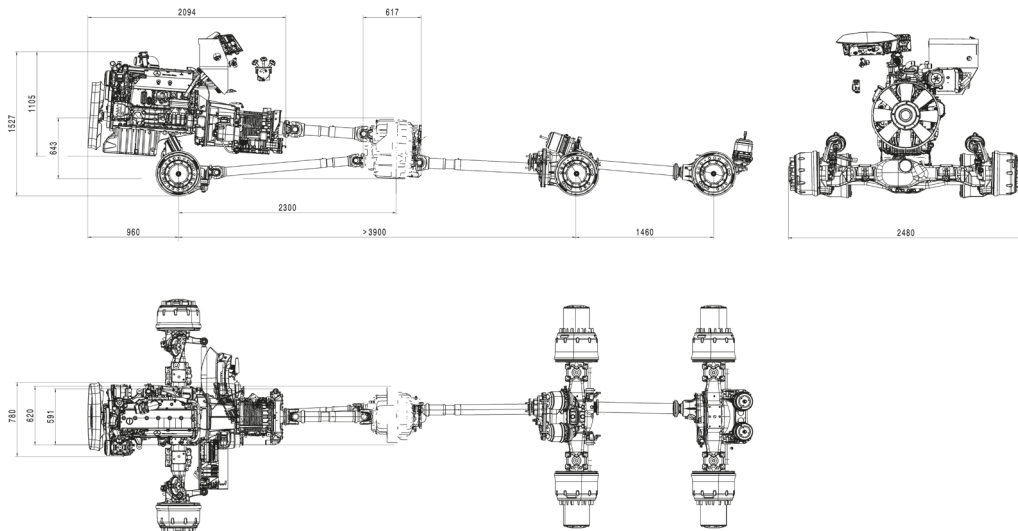


# Mercedes-Benz Special Chassis

## Technical Data – FGA Component Set



Weights	4x4 Version	6x6 Version
Total weight of component-kit, approx.	2,610 kg	3,330 kg
Engine, approx.		530 kg
Transmission, approx.		300 kg
Transfer case, approx.		340 kg
Axle (each), approx.		720 kg
FA load, max.		9,000 kg
RA load, max.	10,500 kg (single) 13,000 kg (twin)	21,000 kg

### General features

#### Axles and suspension

- Permanent All-Wheel drive (4x4/6x6)
- Planetary axles with differential locks front and rear, inter-axle locks and transverse locks.
- Parabolic leaf springs, telescopic shock-absorbers and stabilisers front and rear (optional)
- Optional:
  - Central tyre inflation system (CTIS)

#### Steering

- Hydraulic power-assisted steering

#### Brakes

##### Service brake

- Dual-circuit drum brake system with 4 channel ABS (disengageable)
- Automatic load-controlled brake (ALB); air drier

##### Parking brake

- Rear axle parking brake
- Optional: All-wheel drive parking brake

##### Engine brake

- 2-stage (constant throttle and exhaust flap in the exhaust flow), operation via combination switch on the right side of steering column

#### Tyres

- Standard size 14.00 R 20
- Optional size: 365/85 R 20, 395/85 R 20
- Optional: run-flat system

#### Instruments

large instrument panel with LCD displays and controls for speed (km/h or mph) | engine-rpm | air pressure in braking system | cooling water temperature | fuel reserves | four wheel drive and differential locks engagement | outside temperature | air filter | maintenance | engine oil level | operating hours | mileage and trip mileage | time | driver information system (FIS) | PTO engagement | antilock-braking system (ABS) | optical and acoustic failure warning signals | tachograph (optional)

#### Lights

- Two BI-halogen headlights (low/high beam)
- Two LED multifunction modules (indicator/position/daytime running lights)
- Two additional indicator lights (filament)
- Two 5-function modules (filament)
- Two LED licence plate lights
- Optional:
  - LED lighting system
  - Scope like standard version but equipped with two BI-LED headlights (low/high beam), two additional LED indicator lights and two LED 5-function modules rear
  - LED fog lights
  - Blackout marker light
  - Blackout lighting (visible)



<b>Engine</b>	<b>240 kW</b>	
Emissions class	Euro 3	
Model	OM 926 LA	
Type	4-stroke diesel direct injection with turbocharger/intercooler	
No. of cylinders/arrangement	6, inline	
Displacement	cc	7,200
Max. output	kW	240
at rated engine speed	rpm	2,200
Max. torque	Nm	1,300
at engine speed	rpm	1,200 – 1,600
Cooling system	Water with thermostat, viscose fan drive	

**Speeds and Transmission ratios** (At rated engine speed of 2,200 rpm, axle ratio i = 6.824 tyres 14.00 R 20)

Gears	Transmission ratio		Basic gears		Off-road gears	
	Allison 3500 SP		i = 1.00		i = 1.691	
	forward	backward	Vehicle speed in km/h			
	forward	backward	forward	backward	forward	backward
1	4.59	5.00	15.6	14.4	9.6	8.8
2	2.25	-	31.9	-	19.5	-
3	1.54	-	46.7	-	28.5	-
4	1.00	-	71.9	-	43.8	-
5	0.75	-	95.9	-	58.4	-
6	0.65	-	110.7*	-	67.4	-

\*Electronically limited, max. speed at max. engine RPM: ca. 98 km / h

<b>Electrical system 24 V</b>	
· Alternator system with	105 A
· Starter motor	7.5 kW
· Trailer socket type	15-pin
· Electrical interface system with quick-change function to simply (dis-)connect body/frame	
· <b>Optional:</b>	
· Alternator system up to	400 A

<b>Transmission</b>
· Fully-automatic 6-speed gear box (Allison 3500 SP); 2-speed transfer case with permanent all-wheel drive without traction being interrupted
· 1 reverse gear
· Gradeability up to 60%

Transmission ratios: see table

<b>A/C compressor system</b>	
· A/C compressor system with	9 kW
· <b>Optional:</b>	
· A/C compressor system up to	13 or 16 kW

<b>Hydraulic system</b>
hydraulic system with or without (incl. pump, belt drive and valve block) oil reservoir

More information about the Mercedes-Benz Special Chassis are provided at [www.mercedes-benz.com/defence-vehicles](http://www.mercedes-benz.com/defence-vehicles)  
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