



TECHNICAL SPECIFICATION

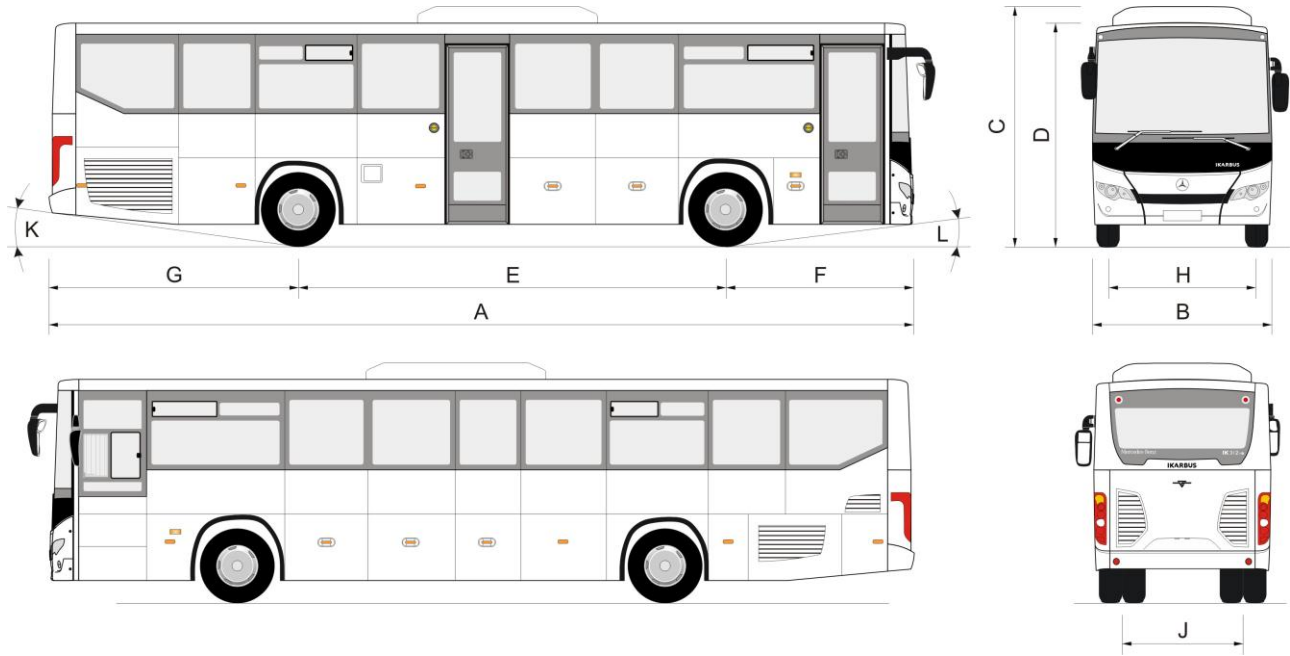
IK 3 | 2 MB

MB OM 936 (E6)

MB GO 190 (manual)

2018.

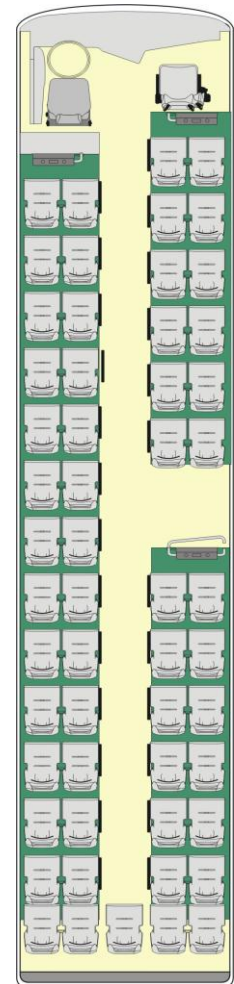
Technical specification – IK 312MB (E6)



| A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | F [mm] | G [mm] | H [mm] | J [mm] | K [°] | L [°] |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 12300 | 2535 | 3380 | 3140 | 6100 | 2655 | 3545 | 2088 | 1803 | 7 | 7 |

This seating arrangement is an example.

Other variants are possible.



Doors: 2 (1-1-0)
Seats: up to 55 +1+1



DIMENSIONS

- (A) Length 12300 mm
- (B) Width 2535 mm
- (C) Height (including A/C) 3380 mm
- (D) Height 3140 mm
- (E) Wheelbase 6100 mm
- (F/G) Front/Rear overhang 2655/3545 mm
- (H/I) Front/Rear track 2088/1803 mm
- Interior height 2050 mm
- Floor height 1025 mm
- First step height 320 mm
- Approach/Departure angle 7°/7°

AXLE LOADS & WEIGHTS

- Front axle load (Max. technically permissible) 7100 kg
- Rear axle load (Max. technically permissible) 11500 kg
- Gross vehicle weight (GVW) 18600 kg

CHASSIS

- Manufacturer Mercedes-Benz
- Type OC 500 RF 1930/1936

ENGINE

- Manufacturer Daimler AG (Mercedes-Benz)
- Type OM 936
- Emission standard EURO 6
- Fuel type diesel
- Construction 4-stroke engine
with turbocharger and intercooler
- Mounting position rear
- Cylinders (number, arrangement) 6, In-line
vertical (upright)
- Displacement (Swept volume) 7700 cm³
- Cylinder bore x Piston stroke 110 x 135 mm
- Compression ratio 17,0 : 1
- Rated power 220 kW (299 hp) / 2200 min⁻¹
- Maximum torque 1200 Nm / 1200-1600 min⁻¹
- Fuel injection system Common Rail
- Exhaust gas treatment SCR system
with AdBlue

TRANSMISSION

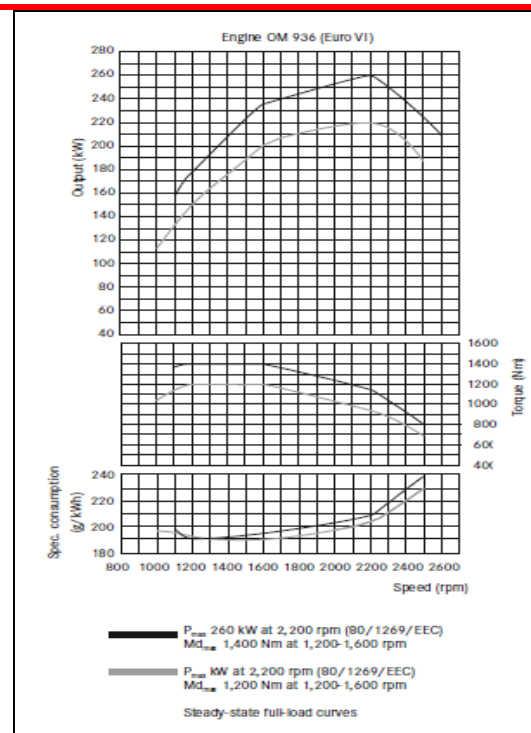
- Manufacturer Mercedes-Benz
- Type GO 190-6
- Transmission manual
with integrated retarder (VOITH)
- Number of gears 6 + 1(R)

REAR (DRIVE) AXLE

- Manufacturer Mercedes-Benz
- Type RO 440
- Ratio 3,154

FRONT AXLE

- Manufacturer ZF
- Type RL-75E
independent suspension



STEERING

- Hydraulic power-assisted steering
- ZF 8098 Servocom
- Adjustable steering column with pneumatic lock



SUSPENSION

- ECAS (*Electronically Controlled Air Suspension*)
- ENR (*Electronic Level Control*), independent of door status
- Automatic controlled body lifting
- Front axle
 - air springs (bellows) (x2)
 - shock absorbers (x2)
 - anti-roll bar
- Rear axle
 - air springs (bellows) (x4)
 - shock absorbers (x4)
 - anti-roll bar

BRAKING SYSTEM

- Disk brakes
- Braking system.....dual-circuit, pneumatic
- AEBS (*Advanced/Autonomous Emergency Braking System*)
- EBS (*Electronic Braking System*) with integrated:
 - ABS (*Anti-lock Braking System*)
- ESP (*Electronic Stability Program*) including:
 - ASR (*Acceleration Slip Regulation/Anti-Slip Regulation*)
- BAS (*Brake Assist System*)
- Auxiliary braking.....DBI (*Retarder System Integration*)
 - retarder
 - hand and foot operated
- Bus stop brake
- Parking brake
- Air dryersingle chamber
 - with replaceable element and pressure regulator
- Oil separator
- Compressor 2-cylinder

SAFETY AND ADVANCED EQUIPMENT

- Fire suppression system for engine compartment, including:
 - automatic fire detection system
 - automatic fire extinguishing system within the engine compartment
- LDWS (*Lane Departure Warning System*)
- Tempomat (*Cruise control*)

FUEL TANK

- Capacity.....450 liters
- Made of stainless materials
- Filler cap at right-hand side
- Fuel consumption display on dashboard

WHEELS & TYRES

- Rims 8,25 x 22,5"
- Tyres 295/80 R22,5"
- Hubcaps stainless steel
- Spare wheel

ELECTRICAL EQUIPMENT



- Dashboard..... in accordance with VDV Standard
- Battery 2 x 200 Ah / 12 V
- Generator (Alternator) 3 x 150 A
- Starter 5,5 kW
- Tachograph..... digital (DTCO)
- Safety switch..... in accordance with ECE R36
- Water cooling with level sensor, buzzer and optic signal
- Engine protection with buzzer and optic signal for too low oil pressure and too high temperature
- Headlights halogen
- Front fog lights..... halogen
- Rear fog lights..... halogen
- Reversing lights..... halogen
- Stop lights..... halogen
- End-outline lamps (front and rear) halogen
- Interior lighting LED

PASSENGERS INFORMATION SYSTEM

- LCD monitor 19" (x 2)
- Audio-system + microphone

Option:

- Route and destination displays:
 - Front route number + destination
 - Right side..... route number + destination
 - Back..... route number
- Route and destination displays – color:
 - Front route number + destination
 - Right side..... route number + destination
 - Rear route number
- Route and destination displays – interior



HEATING – VENTILATION – AIR CONDITION

HEATING:

- Passenger compartment
 - convector heaters
 - roof heating (via A/C)
- Driver's compartment
 - frontbox:
 - heater mounted under driver's control desk (front pult) which also serves for demisting/defrosting the windscreen
- Autonomous heater, pre-start heating of engine

VENTILATION:

- Natural
 - roof hatches
 - slide-windows
- Forced
 - roof air conditioner
 - frontbox

AIR CONDITION:

- Passenger compartment
 - roof air conditioner
- Driver's compartment
 - frontbox

INTERIOR

- Passenger seats
 - luxurious, ergonomically shaped, upholstered
 - comfortable and appropriate for all traveling distances
 - typesingle and double
in accordance with seat arrangement
 - backrestadjustable
 - armrestfoldable
 - restraint system2-point and 3-point seat-belt
in accordance with seat arrangement
 - additional accessories optionally, by choice
- Driver's seat
 - with air suspension and automatic weight adjustment
 - height and tiltadjustable
 - headrest and backrestadjustable
- Roller blinds for
 - windscreen
 - driver's window
- Luggage racksabove seats, open
- Luggage compartment 5 m³
- Mirrors
 - exterior rear view mirrors, heated
 - interiorfor monitoring passenger compartment
and door areas

Option:

- Central lubrication system
- Automatic oil level control (replenishment) system
- CCTV

BODY STRUCTURE

- Combined steel frame tubular structure (frame/chassis)
- All cavities are protected from inside and outside
- Side panels in wheel arches area and lower side cavity made of stainless steel
- Wheel arches stainless steel
- Side panels aluminium
- Roof and sidewalls with thermal insulation

DOORS



- Door arrangement 1-1-0
 - single-panel plug door (outward)x2
- Power operated by driver
(pneumatically, with electronic control)
- Emergency door control valvesinside/outside

GLAZING

- Windscreenlaminated, 1-piece
- Side windowssingle-glazed, tempered, bonded
- Door glasses tempered, bonded

