

190 SL

- **Model** W 121 B II
- **Description** 121.042 (roadster) 121.040 (coupè)
- **Production period:** 01.1955 / 05.1955 - 02.1963 (production start-up pre-production series / standard production - end of production)
- **Combustion principle:** four-stroke Otto cycle
- **Configuration:** front, longitudinal; vertical
- **Engine type:** M 121 B II / 121.921, from 08.1961: M 121 B IX / 121.928
- **Number of cylinders / arrangement:** 4 / in line
- **Bore x Stroke:** 85 x 83.6 mm
- **Total displacement:** 1897 cc (tax classification: 1882 cc)
- **Compression ratio:** 8.5; from 09.1959: 8.8
- **Crankshaft bearings:** 3
- **Rated output:** 105 hp at 5700 rpm
- **Rated torque:** 14.5 mkg at 3200 rpm
- **Number of valves / arrangement:** 1 intake, 1 exhaust / overhead
- **Valve operation:** overhead camshaft
- **Camshaft drive:** double roller chain
- **Fuel system:** 2 register-downdraft carburetors Solex 44 PHH
- **Cooling:** water cooling / pump; 10 l water
- **Lubrication:** pressure circulation lubrication / 4 l oil
- **Electric system:** 12 V
- **Battery:** 56 Ah / in the engine compartment
- **Generator:** 160 W
- **Starter:** electrical / 0.8 hp
- **Ignition:** battery ignition
- **Fuel tank: position / capacity:** in the rear / 65 l
- **Fuel supply:** diaphragm pump

- **Frame design:** floor assembly / steel unit body
- **Front-wheel suspension:** double wishbone
- **Rear-wheel suspension:** single-joint swing axle
- **Front springs:** coil springs, torsion bar stabilizer
- **Rear springs:** coil springs
- **Shock absorber front/rear:** telescopic shock absorbers
- **Steering:** recirculating-ball steering
- **Steering ratio:** 18.5:1 / 3.5 turns lock-to-lock

- **Brake system (foot brake)**hydraulic, from 05.1956 with vacuum booster, acting on front- and rear wheels; four-wheel drum brakes
- **Parking brake (hand brake):** mechanical, acting on rear wheels
- **Diameter of brake discs and/or brake drums:** brake drums front / rear: 230 mm
- **Wheels:** sheet-steel wheels
- **Wheel rims:** drop center rim 5 K x 13
- **Tires**6.40-13 sport
- **Driven wheels:** rear wheels
- **Drivetrain:** divided cardan shaft
- **Gearing:** 4-speed manual transmission (availability as standard -1st version)
- **Shifting:** central floor gear shift lever
- **Clutch:** dry single-disc clutch
- **Transmission type:** change-speed gear
- **Syncromesh gears**I - IV
- **Gear ratios:** I: 3.40; II: 2.0; III: 1.29; IV: 1.0; R: 3.29
- **Final drive ratio:** 3.70; 3.89 or 3.90
- **Maximum speed:** 170 - 180 km/h
- **Acceleration 0-100 km/h:** 14.5 s (Comments: by shifting through from 0 - 100 km/h - 2 occupants)
- **Fuel consumption** 8.6 l/100 km (by Guideline DIN 70030: consumption, determined at 3/4 of top-speed - not more than 110 km/h), plus 10 %
- **Wheelbase** 2400 mm
- **Front / rear track** 1430 / 1475 mm
- **Length:** 4290 mm
- **Width:** 1740 mm
- **Height:** 1320 mm (with cabriolet top closed)
- **Turning circle diameter:** 11.0 m
- **Kerb weight:** 1140 kg; from 1960: 1160 kg (by Guideline DIN 70020 :ready to drive, including fuel, spare wheel and tool kit)
- **Gross weight** 1400 kg; from 1960: 1440 kg
- **Gross axle weight; front** 680 kg; from 1960: 690 kg
- **Gross axle weight; rear** 720 kg; from 1960: 750 kg
- **Payload:** 260 kg; from 1960: 280 kg
- **Permissible trailer weight (braked):** 1200 kg
- **Permissible trailer weight (unbraked):** 620 kg
- **Units produced:** 25,881 roadsters and coupes
- **Prices:** 02.1955: DM 16,500.00