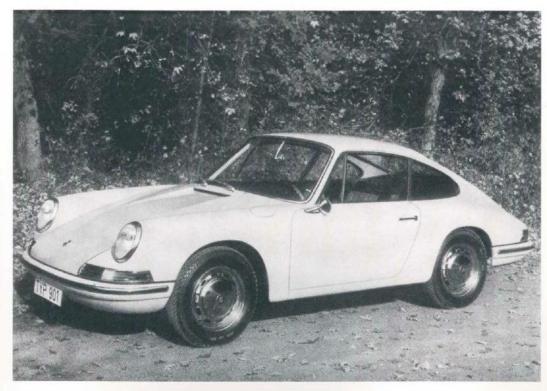




With the introduction of the Type 901, the Porsche Company has added another car to round off the upper end of their current program of fast and economical automobiles. The new model was designed in the best of Porsche tradition, combining the virtues of the well proven Type 356 models with ideas and experience gathered by the technical staff of designers and development engineers over a period of many years. Being equal to the Carrera 2000 GS in weight and temperament, and even excelling it in top speed, the Type 901 will again demonstrate that in a Porsche driving is at its best. This car will provide unequalled driving comfort, handling, and safety — qualities which the demanding Porsche owner has enjoyed ever since the introduction of the first Porsche.

The engine is an air cooled, opposed six cylinder unit with one camshaft for each bank of cylinders (ohc). Applied in this design are concepts conceived and proven in the course of development of Grand Prix engines and high performance sports car engines. The crankshaft is mounted in eight main bearings. Component parts are, to



a large degree, of light alloy. This engine was designed with due consideration towards its adaptability for competition use in appropriate stages of development. The two camshafts are chain-driven, a feature applied in Porsches for the first time. A new transmission has been designed for this car. Although similar to the previous units in mechanical operation, the new transmission has five forward speeds to cope with the extended speed range.

The front wheel suspension consists of the shockabsorbers and low positioned transverse control arms, with springing effected by longitudinal torsion bars. Suspension of the rear wheels is by longitudinal control arms with transverse torsion bars. Power is transmitted to the rear wheels by twin-joint half-axles.

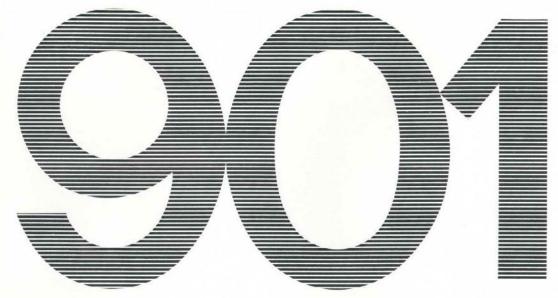
The rack-and-pinion steering is positioned in the forward center of the vehicle. Owing to this arrangement, which necessiated the utilization of relay shafts in place of a solid steering rod, the aspect of interior safety has been greatly enhanced. The car is equipped with disc brakes on all four wheels.



In view of considerations given to body dimensions, it became necessary to consolidate the new components into a compact unit. The inside space has been enlarged while keeping the outside dimensions down – here exceeding the overall length of the Type 356 by only 120 mm, yet reducing the overall width by 70 mm. At the same time larger window areas have been provided, to satisfy the demands of today.

Despite of the reduced overall width, it was possible to widen the forward passenger space. Retained basically unchanged is the seating arrangement which provides utmost comfort on long distance trips. Leg room behind the forward seats has been extended by approximately 6 cm. Both front fenders have been made detachable to simplify repairs.

A special effort was made to provide an adequate solution to interior ventilation. The spacious luggage compartment under the front hood of the car provides adequate space for the accomodation of suitcases and other luggage.



Technical Data

Engine

Number of cylinders

Bore Stroke

Piston displacement, actual

Compression ratio Horsepower rating Maximum torque

Horsepower per liter

Engine Design Data

Engine type

Cooling system

Crankcase

Cylinders

Cylinder heads

Number of valves per cylinder

Valve arrangement

Camshafts

Valve timing

Camshaft drive

Crankshaft

Connecting rod bearings

Blower drive

Lubrication system

Fuel supply

Electrical system

Radio interference suppression

6

80 mm (3.15 in.)

66 mm (2.60 in.)

1991 cc (121.5 cu. in.)

9:1

130 HP (DIN) at 6200 rpm

16.5 mkg at 4600 rpm

119.3 lbs/ft at 4600 rpm

65 HP (DIN)

Horizontally opposed six, carburetor type,

four stroke cycle

Air cooled

Light alloy

Cast iron

Light alloy

1 intake, 1 exhaust

overhead in "V", hemispherical

combustion chamber

OHC, in cylinder heads

Over rocker arms

By chain

Forged steel, 8 main bearings

Plain journal bearings

By V-belt

Dry sump (separate oil tank); full pressure; with scavenger pump; full-flow oil cooler

and oil filter

Electric fuel pump 12 volt, 45 Ah battery

Accomplished in accordance with

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Generator Ignition type

Power Train

Location of engine in vehicle Clutch Transmission Number of speeds Synchronized gears Location of gearshift lever

Final drive

Axle ratio Gear ratios

Chassis and Suspension

Frame (Underbody)

Front wheel suspension

Front wheel springing Rear wheel suspension

Rear wheel springing Shockabsorbers

Service brakes
Hand brake
Effective brake disc dia. front

rear

Brake lining area, per wheel front

rear

Total brake sweep area

360 watt, with current and voltage regulator Battery coil

At rear, behind rear axle
Single plate, dry, diaphragm type
Porsche, servo-thrust synchronization
5 forward, 1 reverse
1 through 5
On floor in center of vehicle
(besides driver's seat)
Spiral bevel gears in final drive;
conventional differential; limited-slip
bevel gear differential; limited-slip

Welded, pressed-steel sections
unitized with body
Independent wheel suspension with
transverse control arms, and guide struts
By torsion bars and rubber cushions
Independent wheel suspension with
longitudinal control arms
By torsion bars and rubber cushions
Hydraulic, double-action telescopic
shockabsorbers front and rear
Four wheel, hydraulic disc brakes
Mechanical, acting on rear wheels
227 mm (8.94 in.)

52.5 cm² (8.14 sq. in.) 40 cm² (6.20 sq. in.) 185 cm² (28.68 sq. in.)

243 mm (9.57 in.)

7:31. i = 4.428

See table below

 $\begin{array}{lll} \mbox{Hand brake drum diameter} & 180 \mbox{ mm (7.1 in.)} \\ \mbox{Total sweep area} & 194 \mbox{ cm}^2 \mbox{ (30.1 sq. in.)} \\ \mbox{Tires} & 165 \times 15, \mbox{ braced tread} \\ \mbox{Rim type} & 4^{1/2} \mbox{ J} \times 15 \\ \end{array}$

Steering Rack-and-pinion; steering damper; safety steering post (by relay)

Steering ratio 1:17

Fuel tank capacity 1:17
approx. 68 liters (18.0 US gallons or

Performance

Maximum speed
Weight/power ratio (ready to operate)
Fuel consumption

Acceleration 0-100 kmh (0-62.1 mph)

0-160 kmh (0-99.4 mph) Elapsed time for 1 km

for 400 m (1/4 mile)

approx. 210 kmh (130 mph)

15.0 Imperial gallons)

7.7 kg/HP (DIN)

11-14 liters per 100 km (17-21 miles/US gal,

or 20-26 miles/Imperial gallon)

9.1 sec. 21.9 sec.

29.9 sec. (standing start)

16.4 sec.

Dimensions

Wheelbase 2204 mm (86.77 in.) Track, front 1332 mm (52.44 in.) Track, rear 1312 mm (51.65 in.) Overall length 4135 mm (162.8 in.) Overall width 1600 mm (62.99 in.) Overall height 1273 mm (50.12 in.) 118 mm (4.65 in.) Ground clearance Turning circle 10 m (32.8 ft.)

Gear Ratios

5-speed transmission

1st gear (11:34) i = 3.09 2nd gear (18:34) i = 1.89 3rd gear (22:29) i = 1.32 4th gear (26:26) i = 1.0 5th gear (29:22) i = 0.758 Additional gear sets are available.