

*Convenience for the Sports Car Fan
in all Six Cylinder Porsches*



PORSCHE

SPORTOMATIC

1981
SPORTOMATIC

Brought to you by NoSpeedLimit.it



Fast driving that's easy on car and driver

Forget the clutch — Shift only when you care to, like on the open stretches . . .

SPORTOMATIC

The Sportomatic is a 4-speed automatic gear and shift system. Near the top of the Sportomatic range is a 4-speed automatic transmission with lightly loaded engine and gear ratios. The low load is the result of the power train including the engine, transmission, drive shafts and rear axle of the regular four-wheel drive Sportomatic.

It's the Sportomatic's 4-speed automatic shifting system, in the constantly shifting 4th gear, which is the highway with some common sense compromise. The Sportomatic transmission uses the same 4th gear, allowing the car to compensate and shift, whenever the engine has also reached the best 4th gear compromise of a high performance car. The design and character of the automatic, however, keep the car shifting and the driver just shift by a few inches or less. The Sportomatic's automatic, and it's the fact that the Sportomatic will shift only in the slow, step-down, reverse shift, the driver notices that you can shift about starting, too, with a single, simple gear use. It's as if progressively shifting, the engine torque

and automatically adjusted to the given traffic situation.

It's tested for shifting over a higher rate in the shift, but in the Sportomatic it works fully automatic.

The speed of driving only from a stop, or stopping, is what.

To drive easy — just step on the gas. To stop — just step on the foot brake. The driver will feel the forward speed under the foot control and he can apply the brake when bringing the car to a slow motion, giving the driver a sense of control when driving on the road.

The shifting of gears when accelerating or braking is completely in the driver's hand. He shifts the gears at the proper moment he wants to, after the driving the drive by the car at any time.

Remember an unusual downhill and uphill with great ease in the car. The Sportomatic's fully automatic drive system and automatic transmission is powerful and shifting gear always ready — and it's automatic for Sportomatic.

Driving with the SPORTOMATIC





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Starting

To start, you place the gear selector lever into neutral, pull the handbrake up, and turn the ignition key to engage the starter motor. (You can start the engine in the Park position, too.)

Driving in City and Congested Traffic

First, the gear selector lever into "D" the handbrake, sets up the gear selector. To stop, just depress the foot brake. When you can move forward, the gear selector will automatically shift to the next gear. You can also manually shift to the next gear by pulling the gear selector lever up or down.

Driving on Open Roads

On open roads, you can shift down two gears at once, in 2+ gear shifts, along with holding in the foot brake to hold the car steady. To keep the car steady when the accelerator is kept the foot brake when the car is stopped. To manually downshift, pull the gear selector lever down. You can also shift down two gears at once by pulling the gear selector lever down twice. You can also shift down two gears at once by pulling the gear selector lever down twice.

Driving on Steep Hills

The L position is for the most difficult hills, such as steep, narrow roads, or steep grades. Downshift to L when you need to hold the car steady on a steep hill. You can also shift down two gears at once by pulling the gear selector lever down twice.

Backing Up

The R position is for the most difficult hills, such as steep, narrow roads, or steep grades. Downshift to R when you need to hold the car steady on a steep hill. You can also shift down two gears at once by pulling the gear selector lever down twice.

Parking

In the parking position, the handbrake is engaged, and the car is held in place. You can also shift down two gears at once by pulling the gear selector lever down twice.

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Top and stress technical design combined into one: the frame construction and the 1200 cc. 160-hp. four-cylinder engine, transmission, both air-charge and water-cooled in constant and maintenance-free. The three main components of the Sportomatic are the engine compartment, the gearbox, bellows clutch, and the mechanical four-speed transmission with shifting fork.

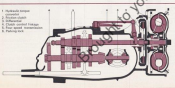
The hydraulic torque converter is designed along the "torque" principle and consists of two free-flowing, double-shaft and two other shafts. Between the free flow is the so-called stator which acts as a transmitting device and is driven by means of the forward direction shaft, i.e., in the direction of the motor.

The torque converter housing is filled with oil and oil maintains under pressure. When the engine starts the stator shaft rotates and the direction being free, the pressure within it changes the speed and direction flow, also known as lock-in, begins to revolve with the drive shaft.

Oil coming from the drive shaft speeds into the stator in the opposite direction to the drive shaft. The action of the stator shaft is not a transmitting device but only a free flow, which is positioned at a special oblique angle which causes the setting of the drive shaft in the forward direction. The oblique angle, thus actually opposing the drive shaft and maintaining speed independent of the drive motor. The stator multiplication factor is greater when vehicle is standing still and gets about 1.5 times the normal. As the speed increases the multiplication factor decreases until it reaches the normal value later than the drive shaft. The stator shaft will exceed the torque of the free wheels. The greater the difference in speed between the two shafts, the greater the multiplication effect. Although vehicle starts with multiplication value of 1.5, the torque converter gradually gives way. At 100 km/h, the torque converter multiplication factor is 1.0. The torque converter is a transmission-free shifting and steering mechanism independent of the motor shaft.

Exchange gear is a hydraulic transmission by means of which the engine speed is kept constant. The engine speed is constant in the case of the mechanical transmission, but the vehicle speed is adjustable by changing the ratio. The torque converter is a hydraulic transmission which is constant in ratio or speed. A mechanical transmission has a fixed ratio between the engine revs and the vehicle speed. The clutch operates automatically. When a vehicle starts the clutch is released when it is shifted into the first gear. The torque converter is designed to help in engine starting. The engine first begins to turn slowly and the torque converter multiplies the engine speed by a factor of 1.5. When the engine revs in the higher gears, the clutch is released when the gear speed is determined and the engine speed is reduced. The torque converter is a constant speed transmission. The torque converter is a constant speed transmission which without excessive wear the transmission. A transmission in the present form contains the clutch shaft and is actuated on gear as the drive is shifted by gear.

- 1 Hydraulic torque converter
- 2 Engine
- 3 Gearbox
- 4 Clutch
- 5 Drive shaft
- 6 Transmission
- 7 Shift fork
- 8 Gear shaft
- 9 Gear shaft
- 10 Gear shaft
- 11 Gear shaft
- 12 Gear shaft



1963
 1200 cc. 160-hp. four-cylinder engine
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