

Porsche 911 Turbo Reference Handbook

911 Turbo S - Lightweight 1993

Vehicle Type: 911 Turbo S - Lightweight
Model Year: 1993 S (P)
Concerns: Vehicle description - Porsche 911 Turbo S - Lightweight



Introduction: The Porsche 911 Turbo S - lightweight can not only be driven in normal road traffic but is also extremely well-suited for sports activities. The handling and the performance of the vehicle are particularly impressive in competition use.

Designation:

Name:	911 turbo S - Lightweight
Vehicle Ident. No:	from WPO ZZZ 96 Z PS 47 9001
Engine type:	M 30/69 SL
Transmission type:	G 50/52 - without double-mass flywheel (ZMS)
Body:	Two-seater coupe (without rear seats)

Comparisons in the following description refer to the standard models 911 Turbo model year '92/N and 911 Carrera RS (basic version).

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Vehicle Description - Porsche 911 Turbo S - Lightweight

Engine: Engine type - M 30/69 SL
Displacement - 3299 cm³ (3.3 l)
Engine power - 280 kW (381 PS) at 6000 rpm

Scope of modifications:

- camshafts
- injection valves
- no servo pump (left-hand drive only)
- no A/C compressor - possible with Z order 1555 (A/C system as special equipment)
- single fan motor
- polished fan ring and fan wheel
- air filter housing and intercooler frame painted red
- fan tensioner belt coated black

Transmission: G 50/52 5-speed manual transmission as in standard vehicle, without double-mass flywheel (ZMS)

Scope of Modifications:

- selected thrust plate (for correct pressure)
- clutch operation as in 911 Carrera RS
- flywheel - special part
- longer guide tube for clutch release bearing

Running Gear:

Scope of Modifications

- chassis lowered by 40mm. spring strut adjustment as for 911 Carrera RS
- Turbo S sports suspension (see list of parts)
- brake system with red calipers
- brake piston diameter, mm: front 36 + 44, rear 28 + 30
- 928 GTS mounting screws for front brake calipers (70mm)
- front brake disks - dia. 322mm
- brake pads: front Textar T 4045 (as in 928 GTS), rear Textar T 428
- brake pad wear indicator - special Turbo S part
- anti-lock brake system as before, but with screw-in regul. 965.355.305.01 on hydr.unit
- steering without power assistance (left-hand drive only)
- rubber joints between tie rods and steering rack
- steering angle stop - 4 mm disk
- clamping screw with washer between spring strut and pivot bearing bearing 901.333.143.01, tightening torque 150 Nm
- rubber bearings for front axle control arm turned as for 911 Carrera RS
- control mount for rear axle trailing arm pressed in offset position (7 °)
- engine mount as in 911 Carrera RS
- 115 mm long screw for engine mount
- no gearbox support
- light alloy front suspension brace.

Wheels and Tires:

- Three-part light alloy wheels (Cup design)
- front axle: 235/40 ZR 18 tires on wheels 8 J x 18 h2, ET 52•
- rear axle: 265/35 ZR 18 tires on wheels 10 J x 18 H2, ET 61•
- polished wheel rims and hub caps

• ET = rim offset, in mm

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- Body:**
- Scope of modifications
- reinforced bodyshell
 - 911 Carrera RS centre part of rear end
 - 911 Carrera RS bumper brackets
 - carbon-fibre-reinforced plastic luggage compartment lid
 - carbon-fibre-reinforced plastic rear spoiler
 - front air inlet for oil cooler and brake ventilation
 - air inlets on left and right rear side panel
 - thin glass windows
 - 91 l fuel tank on left-hand drive vehicles, 77 l on right-hand drive vehicles
 - luggage compartment carpet with Turbo S logo
 - polished luggage compartment lid support
 - second oil cooler at front of vehicle instead of A/C condenser (except with Z order 1555 - A/C system)
 - no insulation on side and back panels in rear
 - no PVC underseal
 - no A/C system - poss. with Z order 1555 (air conditioning system as spec. equipment)
- Interior Equipment:**
- Scope of Modifications:
- no airbag equipment - possible with Z order 1556
 - door trim panels as in 911 Carrera RS with leather cover and grip and coloured handle for opening
 - leather bucket seat with different-coloured centre strip, seat bucket painted
 - 3-point coloured seat belt on driver's and passenger side
 - F-ATI II steering wheel (except with airbag equipment installed to special order)
 - rear wall carpet with Turbo S logo
 - no rear emergency setas and rear seat belts.
 - door lock buttons without LEDs
 - all controls in leather
 - leather roof liner
- Electrical Systems:**
- Scope of Modifications
- manual outside mirrors
 - manual windows
 - no rear window wiper
 - no central locking system
 - no alarm system
 - 35 Ah battery
 - no wire harnesses for doors
 - modified front wire harness
 - small water tank for wiper system (0.70 l)
 - air inlets instead of fog lamps
 - no large horn
 - no lights in engine compartment and luggage compartment
 - interior lighting on driver's side only
 - no headlamp wiper system
 - no electrical fan for oil cooler except with Z order 1555 (A/C system)

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Equipment:

Colours Available - Exterior:

Colour	Sales Designation	Porsche Paint No.
Standard colour:	Speed Yellow	X412 G
Alternative: guards red	G1	80 K
Grand prix white	P5	908
maritime blue	F2	38P
black	A1	741
midnight blue met.	F8	37 W

Colours Available - Interior:

Equipment cards 941 - 950.

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Engine Type M 30/69 SL

With Catalytic Converter

Number of cylinders	6
Bore	97 mm
Stroke	74.4 mm
Displacement according to 88/76/EEC	3299 cm ³
Compression ratio	7.0 : 1
Engine power in acc. with 80/1269/EEC at engine speed	280 kW (381 PS) 6000 rpm
Torque in acc. with 80/1269/EEC at engine speed	490 Nm (50 kpm) 4800 rpm
Power/volume ratio	84.4 kW/l (115.5 PS/l)
Minium octane number	RON 98 unleaded (Super Plus)

Fuel consumption in l/100 km - (80/1268/EEC or. ECE A 70)	at 90 kph	8.5
	at 120 kph	10.4
	in town	21.0

Oil consumption up to 1.5 l/1000 km

Max. permissible rpm	6800 + 100 rpm
Spark plugs	Bosch WR 4 DPO
Electrode gap	0.6 + 0.1 mm
Battery	12 V / 36 Ah
Generator	three-phase 1610 W / 115 A
Firing order	1-6-2-4-3-5
Ignition	electronic-map ignition system

Fan belt 9.5 x 776 LA (use only original fan belt approved by Porschel)

Valve clearance and cold engine intake and exhaust valves 0.10 mm

Performance* (see notes on page 18)

Maximum speed.	290 kph
Acceleration 0 - 100 kph	4.7 seconds
Acceleration 0 - 200 kph	14.2 seconds
Acceleration 0 - 250 kph	25.1 seconds
0-1000 m, standing start	22.4 seconds

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Performance

Elasticity, 5th gear	
40 - 100 kph	17.9 seconds
40 - 200 kph	35.4 seconds
100 - 200 km/h	17.5 seconds

Optimized brake system	
Braking time 100 - 0 kph	2.6 seconds

- with DIN empty weight plus half usable load, without and performance-reducing spec. equipment

Weight

Power-to-weight ratio	4.6 kg/kW 3.38 kg/PS
DIN empty weight	1290 kg
Max gross weight	1510 kg (without special equipment in accordance with the vehical description)

Fuel tank capacity	92 litres - left hand drive vehicles 77 litres - right-hand drive vehicles
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Tires, Wheels

Summer tires -	front	235/40 ZR 18 tires, 8 J x 18 H2 wheels, ET 52 mm
	rear	265/35 ZR 18 tires, 10 J x 18 H2 wheels, ET 61 mm

Warning: The retrofitting of 18" wheels is not permitted for any Porsche vehicle

Tire pressures with cold tires	front 2.3 bar gauge rear 2.7 bar gauge
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Wheel Settings

Camber	front -1° - 15°
Toe-in	front +5° + 5°
Toe difference angle	1° 4° (not adjustable)
Rear axle	camber -1° 15° + 10° Toe-in + 15° + 5° each wheel