

PORSCHE

Technical Manual

911 Carrera (996)

Technical Information

Repair

Contents:

Group 0

Entire vehicle – General

Foreword

The workshop documentation for the 911 Carrera (1996) model has the designation

"911 Carrera (1996)" Technical Manual

and contains **Technical Information** as well as instructions on **Repairs**.

The integration of the technical information published in the "911 Carrera (1996)" Technical Manual with the instructions on repairs provides the user with a complex reference work that combines into one book associated or cross-referenced material of relevance to workshops and originating from various information media.

The "911 Carrera (1996)" Technical Manual consists of 15 folders, subdivided into the following Groups

0	Entire vehicle – General
0	Diagnosis, part 1 (up to Repair Group 45) * ¹
0	Diagnosis, part 2 (as of Repair Group 61) * ²
1	Engine, part 1 (up to Repair Group 13) * ³
1	Engine, part 2 (as of Repair Group 15) * ⁴
2	Fuel, exhaust, engine electronics
3	Transmission, manual transmission
3	Transmission, automatic transmission
4	Running gear
5	Body
6	Body equipment, exterior
7	Body equipment, interior
8 / 9	Air conditioning / Electrics
9	Circuit diagrams, part 1 (up to and including the '99 model) * ⁵
9	Circuit diagrams, part 2 (as of the '00 model) * ⁶

*¹ The two folders with Group 0 are to be regarded as one folder; i.e. file the "Technical Information" notices only in front of the repair descriptions in the folder "Group 0 – Diagnosis, part 1" (**up to Repair Group 45**).

*² The **second folder** "Group 0 – Diagnosis, part 2" (**as of Repair Group 61**) includes the further Repair Groups belonging to Group 0.

*³ The two folders with Group 1 are to be regarded as one folder; i.e. file the "Technical Information" notices only in front of the repair descriptions in the folder "Group 1 – Engine, part 1" (**up to Repair Group 13**).

*⁴ The **second folder** "Group 1 – Engine, part 2" (**as of Repair Group 15**) includes the further Repair Groups belonging to Group 1.

- *5 The two folders with Group 9 are to be regarded as one folder; i.e. file the "Technical Information" notices only in front of the repair descriptions in the folder "Group 9 – Circuit diagrams, part 1" (**up to and including the '99 model**).
- *6 The **second folder** "Group 9 – Circuit diagrams, part 2" (**as of the '00 model**) includes the further circuit diagrams belonging to Group 9.

The "911 Carrera (996)" Technical Manual has the same structure in each folder, with the following breakdown for all Groups:

Title page: "911 Carrera (996)" Technical Manual

> Foreword

Title page: "Technical Information"

> Table of Contents, Technical information
> Technical information

Title page: "Repair"

> Repair Groups: overview
> Table of Contents, repairs
> General / technical data
> Instructions on repairs

As can be seen from the breakdown, the published Technical Information is in the front part of each folder – numbered according to the Groups. The Table of Contents assigned to each Group will be periodically updated.

Following the Technical Information, separated by a title page, the instructions on repairs – assigned according to the Groups or broken down into Repair Groups – are included in the folders.

The instructions on repairs will be extended and updated by means of supplements.

Note

Sheets that already exist in the "911 Carrera (996)" Technical Manual and are updated or revised and thereby exchanged by a supplement are designated "replacement sheet". Revisions or technical modifications on pages of these replacement sheets are identified for the user with a vertical bar at the margin.

911 Carrera (996) Technical Manual – Repair

General

The Technical Manual – Repair – describes all essential work operations requiring special instructions to ensure that repairs are performed properly. It should be in the hands of the workshop foremen and the workshop personnel, as careful compliance with the stated instructions is a precondition for maintaining the traffic and operating safety of the vehicle. In addition, of course, the generally customary basic safety rules for the repair of motor vehicles are unrestrictedly applicable.

Structure

Overview of repair groups

Contents

Technical data / general

Description of repairs

Breakdown of Repair Groups

Tools, special tools and materials required for repair

Exploded drawing and illustration of sequence

Legend for exploded drawing and description of sequence

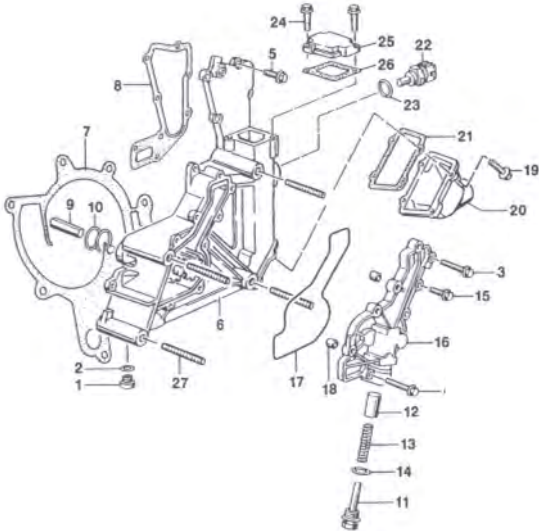
Instructions for assembly and adjustment

The Technical Manual is regularly expanded by supplements, which must be incorporated immediately to preserve the usefulness of the Manual. As verification of completeness, the record sheet should be completed.

Structure of exploded view

A 17 B Engine - Lubrication C 911 Carrera (1996)

H Removing and installing oil pump with coolant guide housing



C 911 Carrera (1996) B Engine - Lubrication A 17

H Removing and installing oil pump with coolant guide housing

No.	Designation	Qty.	Removal	K Note:	Installation
	Coolant drain plug M10 x 1				
2	Sealing ring A18 x 13.5				
3	Hexagon-head bolt M6 x 70				
4	Hexagon-head bolt M6 x 70				
5	Hexagon-head bolt M6 x 20			Tightening torque 10 Nm (7.5 ftb.)	
6	Oil pump with coolant guide housing				
7	Gasket			Always replace; insert or fit only if coolant guide housing has been put onto the crankcase	
8	Gasket			Always replace; insert or fit only if coolant guide housing has been put onto the crankcase	
9	Driver				
10	O-ring			Always replace	
11	Plug with guide pin			Tightening torque 25 (19 ftb.)	
12	Piston			Oil	
13	Spring				
14	Sealing ring			Replace	

D F 17 20 19 Removing and installing oil pump with coolant guide housing E 996171 G Printed in Germany, 1997

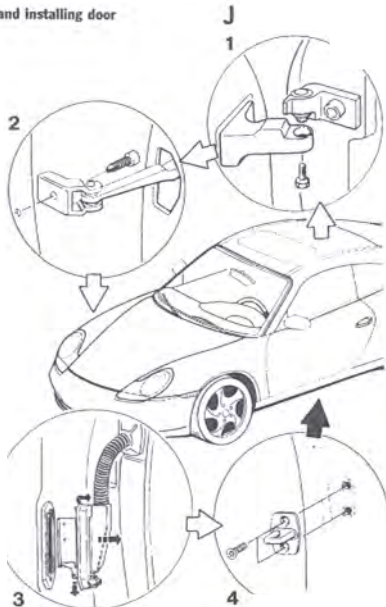
17 20 19 Removing and installing oil pump with coolant guide housing F 17 - 7 G E 996171 Printed in Germany, 1997

- A = Repair Group, numbers
- B = Repair Group, text
- C = Vehicle type
- D = Page number
- E = Internal Porsche number
- F = Work operation, consisting of "After-sales service number" and "Title"

- G = Imprint, supplement number, year of printing
- H = Title of exploded view
- J = Item number of exploded view, in disassembly sequence
- K = Special instructions to be followed during installation or removal

Structure of sequence description

A 57

B
Door front, central locking systemC
911 Carrera (1996)H
Removing and installing doorC
911 Carrera (1996)B
Door front, central locking system

A 57

H
Removing and installing door

Observe the safety instructions for handling airbag vehicles before removing the door with side airbag.

1. Remove the ignition key
2. Disconnect and cover the negative terminal of the battery
3. After disconnecting the battery, assembly work or other work must be started only after a waiting time of 1 minute.

Removing door

J K
No. ProcedureL
Instructions

- | | | |
|---|-----------------------------|--|
| 1 | Loosen fastening screw. | Unscrew fastening screw from |
| 2 | Loosen door brake. | Unscrew hexagon brake. |
| | Disconnect plug connection. | Loosen Torx screw (T25), push plug up by approx. 3 mm and then pull the whole plug connection out of the Apillar. Caution: Latching lugs in the plug can break off! Pull out locking element at the bottom part of the plug connection and disconnect the plug connection. Unscrew locking screw from the door hinge and lift the door upwards out of the hinges. |
| 4 | Loosen latch striker. | Loosen Torx screw on latch striker and remove latch striker. |

D 57 - 2

E 996571

F 57 51 19 Removing and installing door
Printed in Germany, 1997

G

57 51 19 Removing and installing door
Printed in Germany, 1997

G

F

996571 E

D 57 - 3

A = Repair Group, numbers
 B = Repair Group, text
 C = Vehicle type
 D = Page number
 E = Internal Porsche number
 F = Work operation, consisting of "After-sales service number" and "Title"

G = Imprint, supplement number, year of printing
 H = Title of sequence description
 J = Sequence number in order of sequence
 K = Procedure in the sequence
 L = Description or explanation of the procedure

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0 Entire vehicle – General**0 General**

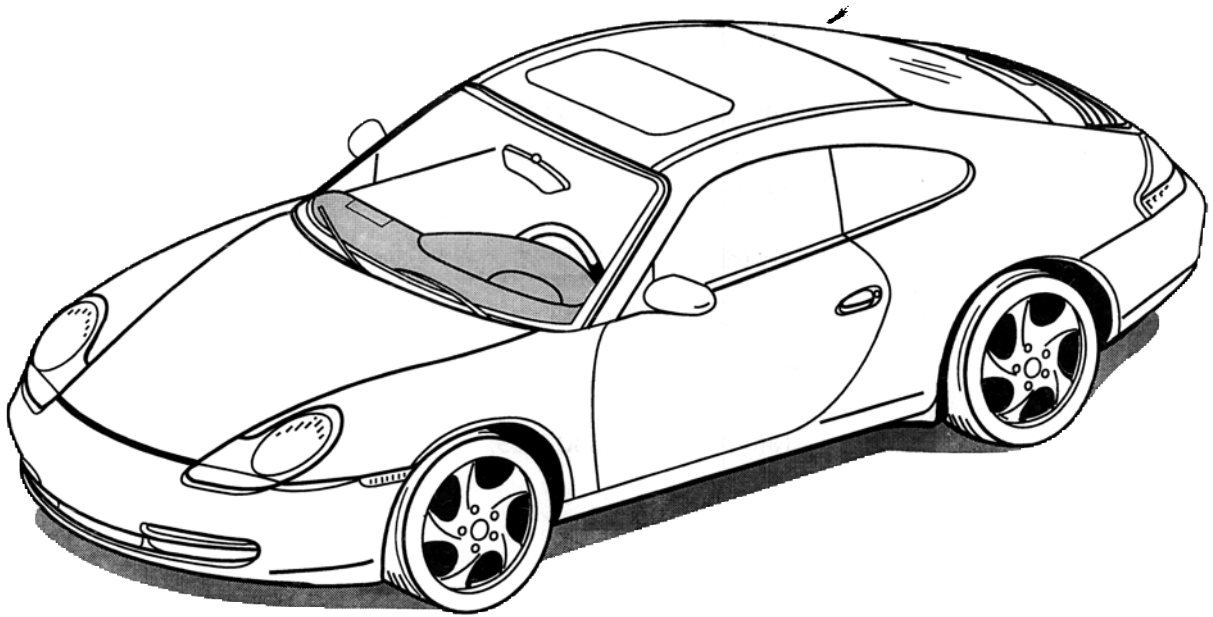
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0 Technical data**Engine**

Engine type:		M 96/01
Number of cylinders	6	
Bore	mm (in.)	96 (3.78)
Stroke	mm (in.)	78 (3.07)
Displacement	cm ³ (cu. in.)	3387 (206.67)
Compression ratio	11.3 : 1	
Max. engine power as per 80/1269/EWG	kW (HP)	220 (300)
at engine speed	rpm	6800
Max. torque as per 80/1269/EWG	Nm (ftlb.)	350 (259)
at engine speed	rpm	4750
Max. litre output	kW/l (HP/l)	63.8 (86.8)
Rpm limitation by fuel supply interruption at	rpm	7300
Idle speed	rpm	700
Automatic transmission	rpm	700
Engine weight as per DIN 70020 A kg (lbs)	Manual trans. 190* (418.86)	Automatic transmission 179 (394.60)

* including ZMS (dual-mass flywheel)

Engine design

Type	6-cylinder aluminium opposed-cylinder engine, water cooled
Radiators	Two in the front end (+ 3rd radiator in Tiptronic vehicle)
Crankcase	Vertically split light alloy cylinder housing with separate crankshaft bearing housing
Crankshaft	Forged, supported by 7 bearings
Crankshaft bearings	Plain bearings
Connecting rods	Forged
Con-rod bearings	Plain bearings
Pistons	Light alloy, pressed
Cylinders	Lokasil cylinder lining
Cylinder head	3-part light alloy head
Valve guide	Pressed in
Valve arrangement	2 inlet valves suspended in parallel V arrangement 2 exhaust valves suspended in parallel V arrangement
Valve control	Via flat-based tappets
Camshaft	From the crankshaft via a double chain to the intermediate shaft, and from there to the exhaust camshafts via one double chain each. Inlet camshaft coupled with exhaust camshaft via a single chain.

Camshaft adjustment	Porsche VarioCam with 25° adjustment								
Valve clearance	Hydraulic valve clearance compensation								
Valve timing with 1 mm valve travel and zero clearance	<table> <tr> <td>Inlet opens</td> <td>15° after TDC</td> </tr> <tr> <td>Inlet closes</td> <td>59° after BDC</td> </tr> <tr> <td>Outlet opens</td> <td>39° before BDC</td> </tr> <tr> <td>Outlet closes</td> <td>7° before TDC</td> </tr> </table>	Inlet opens	15° after TDC	Inlet closes	59° after BDC	Outlet opens	39° before BDC	Outlet closes	7° before TDC
Inlet opens	15° after TDC								
Inlet closes	59° after BDC								
Outlet opens	39° before BDC								
Outlet closes	7° before TDC								
Intake system	2-stage tuned-intake system (plastic)								
Engine cooling	Water cooling; two radiators ahead of the front wheels. (Additional radiator for Tiptronic vehicles) Two electric fans, controlled in two stages								
Engine lubrication									
Type	Integrated dry sump								
Oil cooling	Via oil-water heat exchanger								
Oil filter	On pressure side behind oil pump								
Oil pressure at $n = 5000$ rpm	Approx. 0.5 bar at 90 °C								
Oil pressure indication	Oil pressure indicator light								
Oil consumption	Approx. 1.0 l/1000 km								

Exhaust system		2-pipe system with one 3-way catalytic converter per pipe, 2 rear mufflers
Emission control		Oxygen sensor closed-loop control and 3-way catalytic converter (metallic substrate) USA - additional electrical secondary-air pump
Heating		Via water heat exchanger, closed loop-controlled on air side
Fuel system		
Fuel injection		DME (Digitale - Motor - Elektronik – engine control module ECM) Injection valves controlled sequentially
Fuel supply		1 electrical internal gear pump
Fuel quality (RON)		98 unleaded
Electrical system		
Radio interference suppression		ECE - R 10 and 72/245/EWG
Rated voltage	V	12
Battery capacity	Ah/A	70/340
Rated generator output	W	1680 (alternator)

Ignition	DME (ECM), individual ignition coils, knock control
Firing order	1 - 6 - 2 - 4 - 3 - 5
Ignition timing control	Via DME (ECM)
Spark plugs	Bosch FR 6 LDC Beru 14 FR 6 LDU
Electrode gap mm (in)	0.8 + 0.1 (0.031 + 0.004)
Power transmission	Engine and transmission bolted together to form a power unit. Power is transferred to the rear wheels via double-jointed drive shafts.
Clutch	
Manual transmission	Single-plate dry clutch Hydraulic actuation Double-mass flywheel
Contact plate	GGG 60 (nodular cast iron)
Clutch plate \varnothing	240
Automatic transmission:	
Torque converter \varnothing mm (in)	260 (11.03) Screw center point diameter 282 (11.11) Largest outer diameter, screwed axially

Moving-off ratio		1.92
Stall speed	rpm	2450
Transmission	Manual transm.	Tiptronic
	Carrera 2	Carrera 2
	G 96.00	A 96.00
Number of gears, forward/reverse	6/1	5/1
Internal designation		
Transmission ratios (i)		
1st gear	3.82	3.66
2nd gear	2.20	2.0
3rd gear	1.52	1.41
4th gear	1.22	1.0
5th gear	1.02	0.74
6th gear	0.84	—
Reverse gear	3.55	4.10
Final drive:	Bevel gear wheel	
Final drive ratio (i)	3.444	3.676
Transmission weight (dry) kg (lbs)	60.5 (133.4)	106.82 (235.48) with torque converter 94.72 (208.8) without torque converter
Transmission weight (wet and ready for installation) kg (lbs)	62.9 (138.6)	115.62 (254.88) with torque converter 103.52 (228.21) without torque converter
Body designs	Lightweight, galvanized all-steel integral body-frame Full-size airbag for driver and passenger Coupé: Number of seats = 2 + 2	

Running gear

Front axle		Spring strut axle: Wheels individually suspended by control arms with trailing arms and spring struts (McPherson type, Porsche optimized) Springs: One truncated cone spring per wheel, with vibration damper inside spring
Vibration dampers		Double-acting hydraulic twin-tube gas-filled vibration dampers
Steering		
Steering wheel ø	mm (in)	380 (14.97)
Steering ratio		16.9 : 1 Left-hand drive vehicle 16.9 : 1 Right-hand drive vehicle
Turning circle ø	m (ft)	10.6 (34.8)
Track circle ø	m (ft)	10.2 (33.5)
Steering wheel revolutions from lock to lock		2.98 Left-hand drive vehicle 2.98 Right-hand drive vehicle
Power steering pump		Driven via poly V-belt Ratio $i = 1 : 1.18$
Rear axle		Multi-link axle
Wheel suspension		Wheels individually guided by 5 control arms
Springs		Cylindrical coil spring per wheel, with coaxial vibration damper inside spring
Vibration dampers		Double-acting hydraulic single-tube gas-filled vibration dampers

Brakes

Operating brake		Foot operated, hydraulic-mechanical boost Dual-circuit brake system, 4-piston Al monobloc brake calipers at FA and RA, distributed per axle, internally ventilated brake discs at front and rear axles, ABS standard, Traction Control (TC) optional with switch-over possibility to automatic brake differential (ABD).
Vacuum brake booster (boost factor)		3.85
Brake master cylinder \varnothing	mm (in)	23.81/23.81 (0.94/0.94)
Brake master cylinder stroke	mm (in)	18/18 (0.71/0.71)
Pressure reducer	- switching-on pressure - reducing factor	55 bar 0.46
Brake disc \varnothing	mm (in)	Front 318 (12.53) Rear 299 (11.78)
Effective brake disc \varnothing	mm (in)	Front 261.8 (10.31) Rear 247.6 (9.75)
Brake disc thickness	mm (in)	Front 28 (1.10) Rear 24 (0.95)
Effective total brake area per wheel	cm ² (sq.in)	Front 127 (19.69) Rear 98 (15.195)
Piston \varnothing in brake caliper	mm (in)	Front 36 (1.42) and 40 (1.576) Rear 28 (1.10) and 30 (1.182)
Parking brake		Drum-type parking brake

Brake drum ø	mm (in)	180 (7.092)
Brake shoe width	mm (in)	25 (0.985)
Lining area per wheel	cm ² (sq.in)	85 (13.08)

Wheels and tyres

Summer tyres		Rim offset (mm)
Tyre size, front – on wheel	205/50 ZR 17 - 7 J x 17	55 *
Tyre size, rear – on wheel	255/40 ZR 17 - 9 J x 17	55 *
Tyre size, front – on wheel	225/40 ZR 18 - 7.5 J x 18	50 *
Tyre size, rear – on wheel	265/35 ZR 18 - 10 J x 18	65 *
Winter tyres **		Rim offset (mm)
Tyre size, front – on wheel	205/50 R 17 89T M + S - 7 J x 17	55
Tyre size, rear – on wheel	225/45 R 17 90T M + S - 8.5 J x 17	50 ***

Only if specified make is fitted.

M + S tyres with higher load rating and/or higher speed symbols can also be mounted optionally (max. "H" = max. 210 km/h).

Snow chains approved if special chains are used.

Spare wheel

High-pressure tyre		105/95 * - R 17 * bound to make	
Wheel		3.5 J x 17 rim offset 19	
Tyre pressure		17"	18"
front	bar	2.5	2.5
rear	bar	2.5	3.0
Spare wheel	bar	4.2	4.2

Dimensions

Length	mm (in)	4430 (174.54)	
Width	mm (in)	1765 (69.5)	
Height	mm (in)	1305 (51.42) at DIN empty weight	
Wheel base	mm (in)	2350 (92.59)	
Track widths		17"	18"
Front	mm (in)	1455 (57.33)	1465 (57.72)
Rear	mm (in)	1500 (59.10)	1480 (58.31)
Ground clearance	mm (in)	100 (3.94) 65 (2.56) at max. gross weight	

	Vehicle in design position *	
Ramp angle	Degrees	13.0
Overhang angle, front	Degrees	12.0
Overhang angle, rear	Degrees	14.5

* Design position according to Porsche definition:

DIN empty	+ driver	=	68 kg
	+ passenger	=	34 kg
	+ luggage	=	10 kg

Weights according to DIN 700 20

	Manual transmission	Tiptronic
Empty weights according to equipment kg (lbs.)		
Front	500 - 540	505 - 545
Rear	820 - 840	860 - 880
Total, Coupé	1320 - 1380 * (2909.9 - 3042.2)	1365 - 1425 * (3009.1 - 3141.4)

* For EU homologation plus 75 kg driver's share (35 kg at front axle, 40 kg at rear axle)

Permissible axle load

Coupé, front	775 (1708.49)	775 (1708.49)
rear	1100 (2425.06)	1100 (2425.06)

Max. gross weight	1720 (3791.74)	1765 (3791.74)
-------------------	----------------	----------------

Max. trailer load

Braked	none	none
--------	------	------

Unbraked	none	none
----------	------	------

Permissible towed weight	none	none
--------------------------	------	------

Permissible drawbar load	none	none
--------------------------	------	------

Permissible roof load, kg (lbs.)

With original Porsche Roof Transport System	75 (165)	75 (165)
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Filling capacities:

Measurement of the engine oil level by instrument or oil dipstick.
The Driver's Manual is definitive.

Engine specification

Approved:

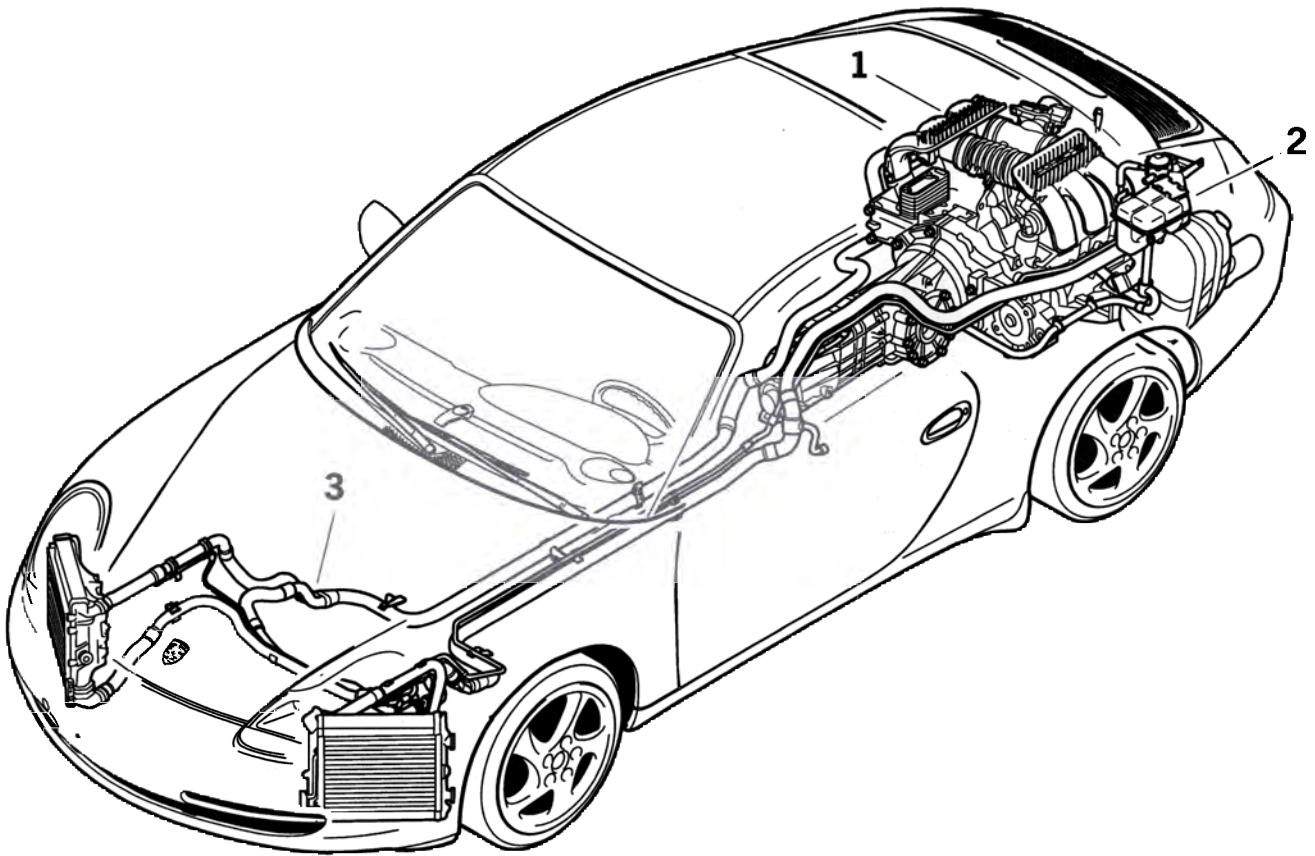
Europe - According to ACEA Specification
A4 - 96 and special Porsche requirements
(refer to Techn. Info bulletin about engine oils)

USA, RoW - According to API SG and SHn Specifications and
special Porsche requirements
(refer to Techn. Info bulletin about engine oils)

Engine oil quantity	(imp. gal.)	Approx. 10.25 (2.22) Change quantity 8.25 (1.79)	
Manual transmission with differential l	(imp. gal.)	2.7 (0.59)	
Automatic transmission with torque converter	(imp. gal.)	Approx. 9.5 (2.06)	
Differential	(imp. gal.)	0.8 (0.17)	
Transmission oil specification		Manual transmission	Tiptronic
		SAE 90 GL5	
Specification for differential transmission oil (Tiptronic)			GL5 SAE 75 W 90 or GL5 SAE 90
Fuel tank	(imp. gal.)	Approx. 65 (14.1) actual volume 10 (2.2) reserve	
		Approx. 64.0 (13.87) refill volume	
Coolant:	l (imp. gal.)	22.5 (4.88)	
Brake fluid reservoir	(imp. gal.)	Approx. 0.45 (0.097)	
Tank for windscreen washer and headlight cleaning system	(imp. gal.)	Approx. 2.5/6.5 (0.54/1.41)	
Power-assisted steering	(imp. gal.)	1.27 (0.28) Pentosin CHF 11 S	

Performance data

Top speed		Manual transmission	Tiptronic
	km/h	280	275
	mph	173.9	170.8
Acceleration	0 - 100 km/h	5.2 s	6.0 s
Acceleration	0 - 160 km/h	11.5 s	13.0 s
Acceleration	0 - 200 km/h	18.3 s	20.4 s
Kilometre from standing start		24.2 s	25.3 s
1/4 mile from standing start		13.5 s	
Elasticity			
80 - 120 km/h	5th gear	7.1 s	6.9 s
	6th gear	8.9 s	9.7 s
100 - 200 km/h	5th gear	17.3 s	18.3 s
	6th gear	23.4 s	28.5 s
Climbing performance		1st gear	
		2nd gear	
		3rd gear	
		4th gear	
		5th gear	
		6th gear	
Specific power	kg/kW	6.0	6.3
	kg/HP	4.4	4.6
			6.2 ... 6.5
			4.6 ... 4.8

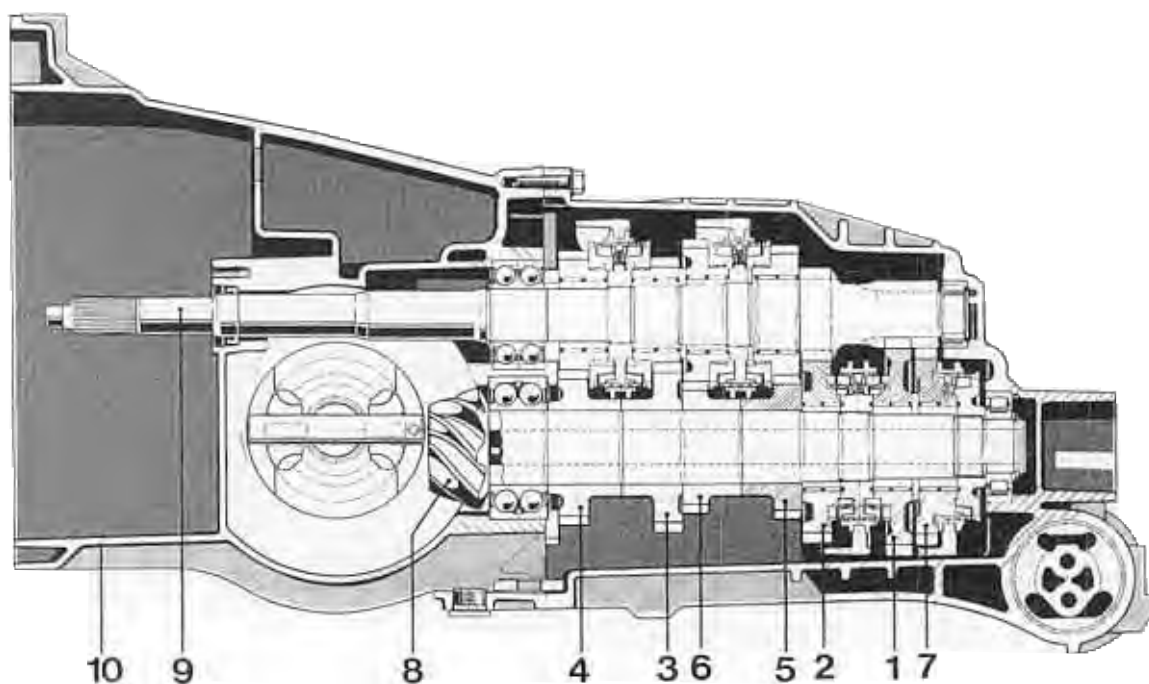
Engine-cooling diagram

392 - 97

- 1 Opposed-cylinder engine, water cooled
- 2 - Expansion tank
- 3 - Water circuit

0 Transmission – general

Manual transmission (G96)



332 - 97

- | | |
|--------------|---------------------------|
| 1st gear | 6 - 6th gear |
| 2 - 2nd gear | 7 - Reverse gear |
| 3 - 3rd gear | 8 - Output shaft |
| 4 - 4th gear | 9 - Input shaft |
| 5 - 5th gear | 10 - Transmission housing |