
Workshop Manual

911

Carrera 4

List of Repair Groups Carrera 4

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	TI/ QI	No.	911 C2/C4	911	911 Turbo	Remarks, Model, Also refer to...	Date
1985							
- Drive Shaft seal and Guide Tube	T	1/85	●			New seal	25.03.85
- Manual Transmission / Shift	Q	1/85	●			1985 Model/reverse gear	06.09.85
- Manual Transmission /Shift Seizure	Q	2/85	●			5th gear	06.09.85
1986							
- Transmission Shift Shift Rod Clatter	Q ♦	1/86	●			1987 Model/...QI 1/87	30.12.86
1987							
- Transmission/Shift Mechanism Rattling Shift Rods	Q	1/87	●			Seal	22.05.87
- Manual Transmission "Gear Jumper"	Q	2/87	●			1987 Model/4th gear ...QI-1/88	18.06.87
- Hydraulic Clutch Release Fork	Q	3/87	●			1987 Model/noise	17.07.87
- Transmission Shifting Shift Rod Rattling	Q ⊕	1/87	●			Supporting strut	16.10.87
- Hydraulic Clutch Release Fork	Q ⊕	3/87	●			Pedal assy/adjustment	24.11.87
- Manual Transmission Drive Pinion	Q	4/87	●			1987 Model/thrust washer 2.8 mm	24.11.87
- Manual Transmission Shifting Problems	Q	5/87			●	Reverse gear operating lever	30.12.87
- Transmission Shifts Shift Rods Rattling	Q ♦	1/87	●			Rubber ring	30.12.87
1988							
- Manual Transmission "Gear Jumping"	Q	1/88	●			1st and 2nd gears	19.02.88
- Shift Lever Shift Noise	Q	2/88	●			Lubricating shift base	19.02.88
- Manual Transmission "Transmission Noise"	Q	3/88	●			Engine carrier/console	19.02.88
- RHD Models/Pedals	Q	4/88	●			5 mm Diameter Pin	30.05.88
- Manual Transmission Selector Rod Seal	Q ♦	5/88	●			New Seal	22.07.88
- Clutch Operation	Q	6/88	●		●	Olista Longtime 3 EP	22.07.88
♦ = Conversion instructions or workshop campaign V = Brochure ⊕ = Supplement or change for TI/QI							



SERVICE

Date

30.04.90

VKQPI

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	TI/ QI	No.	911 C2-C4	911	911 turbo	Remarks, Model, Also refer to...	Date
- RHD Cars Clutch Hose	Q	7/88	●			Spiral shaped line RHD	30.12.88
1989							
- Optimized Clutch Slave Cylinder	T	1/89	●			● Clutch actuated hydraulically.	03.03.89
- Modified Multi-plate Package for Transverse Lock	T	2/89				● Model 959	15.06.89
- New Transmission Carrier (Noise Uncoupled)	T	3/89	●			1987 (H) to 1989 (K)-Model	31.08.89
- Modified Release Lever Bearing	T	4/89	●			1987 (H) to 1989 (K)-Model	31.08.89
- Manual Transmission/2nd Gear/Loose Gear with Needle Roller Assembly	T	5/89	●			Loose whed with coloured dot marking.	21.11.89
1990							
- Porsche Tiptronic drive system	T ▽	1/90	●			WKD 496 920	22.02.90
- "Clutch does not disengage sufficiently"	T	2/90	●			Bleeding hydraulic-system. Testing pedal travel	24.09.90
- Assessing the Clutch and Double Mass Flywheel	T	3/90	●			from M'90 (L)	11.12.90
◆ = Conversion instructions or workshop campaign ▽ = Brochure ⊕ = Supplement or change for TI/QI							



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The workshop manual of the Carrera 4 also includes that for the Carrera 2.
The Carrera 4 acts as the basis for description of the repairs in the manual.
"Carrera 4" also appears on every page in the header line.

Deviating descriptions for repairs on the Carrera 2 follow those of the Carrera 4. These repair descriptions for both models are separated by a yellow sheet.
"Carrera 2" appears on all pages in the header line after the separating sheet. The page number starts with 200 as an additional distinction.

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Manual transmission, gears, shafts

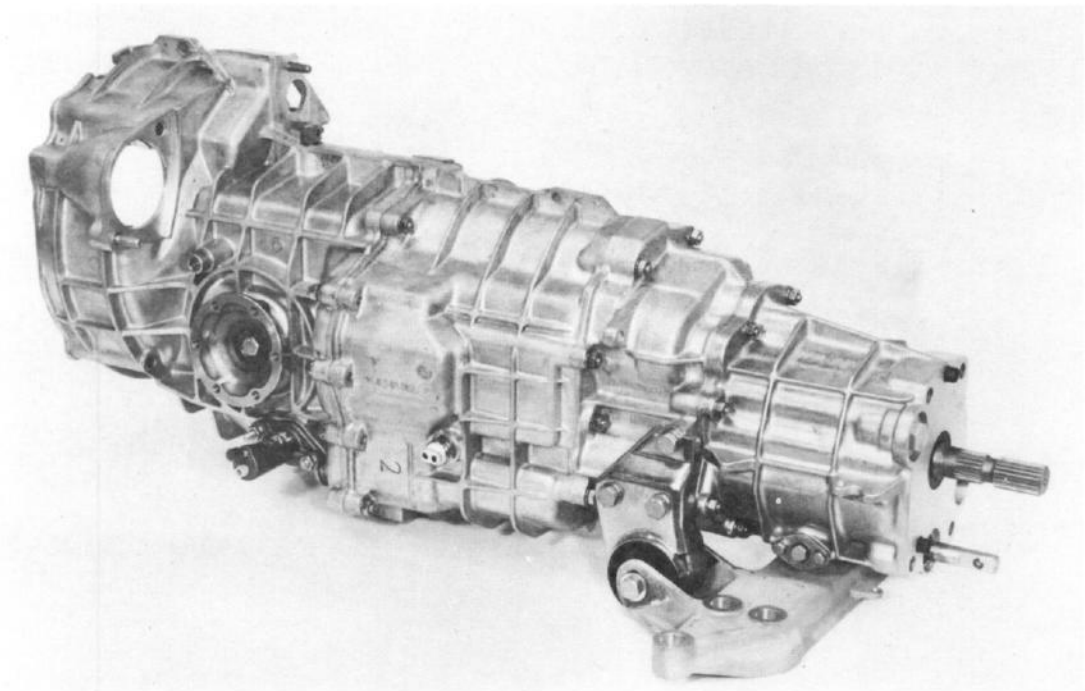
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General data

5-speed manual transmission G 64

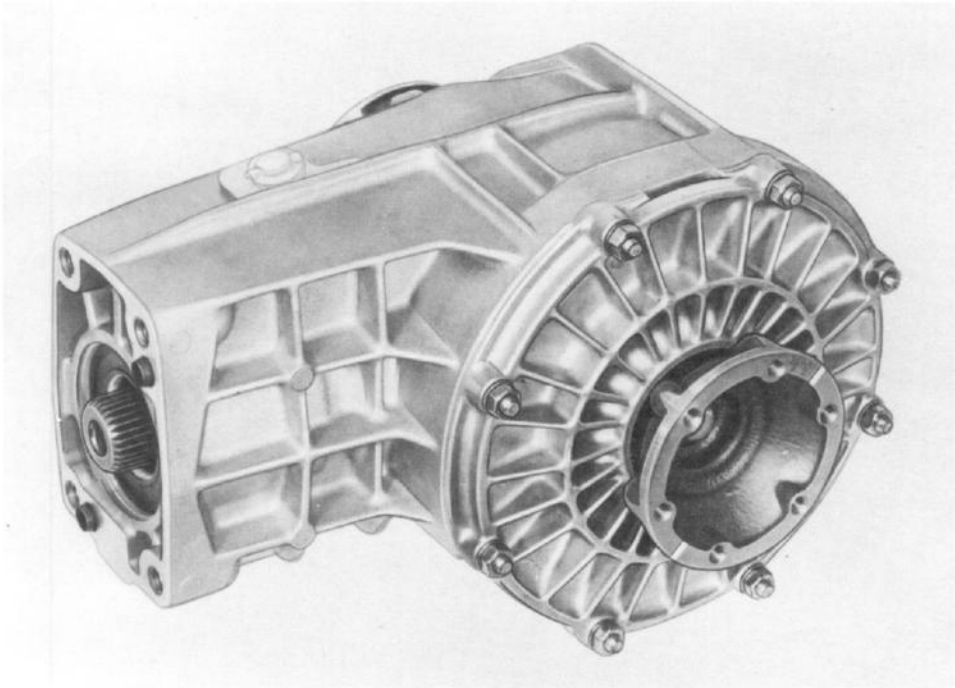


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Model	Code letter	Equipment	Installed in	Model year
G64/00	-	5 speed	911 Carrera 4 worldwide	Model 1989 onward
G64/01	-	5 speed	911 Carrera 4 Switzerland	Model 1989 onward

General data

Front axle final drive Z64



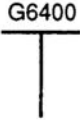
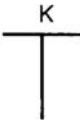
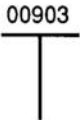
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Model	Code letter	Equipment	Installed in	Model year
Z64/00	-	-	911 Carrera 4 worldwide	Model 1989 onward

General data	Front axle final drive Z64/00
Transmission ratio Final drive ($Z_2 : Z_1 = i$)	31 : 9 = 3.444
Final drive	Hypoid bevel-gear drive with 10 mm offset
Filling capacity	approx. 1.2 liter hypoid oil 75 W 90 of API classification GL 5 (or MIL-L 2105 B)

General data

Structure of transmission numbers

			
Transmission Type	Index for variants within the assembly number	Model Year	Serial number
	1 = normal differential 3 = limited-slip differential	K = 1989 L = 1990 M = 1991	z.B. 00903

Note

The model letter is omitted as of MY '92.

General data

General data	Manual transmission G64/00 - G64/01	
Transmission ratios $Z_2:Z_1 = i$	G64/00	G64/01
1st gear	42:12 = 3.500	41 : 13 = 3.154
2nd gear	36:17 = 2.118	36 : 19 = 1.895
3rd gear	39:27 = 1.444	36 : 27 = 1.333
4th gear	38:35 = 1.086	36 : 35 = 1.029
5th gear	33:38 = 0.868	33 : 38 = 0.868
Rev. gear	40:14 = 2.857	40 : 14 = 2.857
Final drive	Hypoid bevel-gear drive with 16 mm offset	
Transmission ratio Final drive	31:9 = 3.444	31:9 = 3.444
Filling capacity	approx. 3.8 liter hypoid oil SAE 75 W 90 of API classification GL 5 (or MIL-L 2105 B)	