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6-cyl **Technical Information** 1/95 Increase of engine power - engine kit 3.8 I -Rep. Gr. 1001 Vehicle Type: 911 Carrera (993) / 911 Carrera 4 (993) Engine Type: M 64.05 - Manual transmission (approval for individual countries to be noted) Model Year: '94 (R) / '95 (S) Increase of engine power - engine kit 3.8 and special "Exclusive" option no. "X 51". The increase of the engine power (retrofitting and special "Exclusive" option no. "X 51") has been approved for the following countries (for the above vehicle type): - EU member countries - Guif countries - Hong Kong - Singapore With immediate effect, the "Engine kit 3.8 I" is available for retrofiting in order to increase the power of the M 4.05 engines (manual transmission). Retrofiting can be carried out at the Customer Center of the Porsche AG in Stuttgart-Zuffenhausen (VRS department) or by any authorized Porsche Dealer. The more powerful engine is also available for new 911 Carrera (983) / 911 Carrera 4 (983) vehicles (ex works) as special "Exclusive" option no. "X 51". On these vehicles, retro-fitting will be preformed during standard production. In this case, however, not all of the parts are identical with those required for retrofitting (see list, page 2). M 64.05 S - Increase of engine power Engine type: Displacement Rated power Torque Max. engine speed Max. speed - M 64.05 S - 3746 cm³ (3.8 I) - 210 kW (285 hp) at 6000 rpm - 350 Nm at 5000 rpm - 6700 rpm - 270 km/h Fuel Valve clearance Ignition timing Compression Unleaded premium plus - RON 98 Hydraulic valve lash adjustment 1.1 mm BTDC 11.3:1 Engine type: - A capital "S" has been added to the engine type designation. Dr. Ing. h.c. F. Porsche AG Printed in Germany 10.03.1995 61015 Page 1 of 4 Service VKQ2

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	Technical Information 6-cyl 1/95	1.	1 .	6-cyl 1/95		Technical Informa	tion	
Assembly Instructions:	Power increase for 911 Carrera (993) / 911 Carrera 4 (993) engines - Retrofitting -		Retrofittin		Vorking os. No.	Job description	Flat Carrera	rates Carrera 4
	When retrofitting engines with a mileage of up to approx. 20,000 kilometers, padisassembly will usually be sufficient.				0 01 19 00 0 01 19 01	Engine removed and reinstalled: - without air conditioner - with air conditioner	840 TU 880 TU	910 TU 950 TU
	When retroffiting engines with a mileage of more than 20,000 kilometers, comp disassembly of the engine and inspection of all parts is recommended.	ete			0 80 19 00	Power unit guard removed and reinstalled	40 TU	40 TU
	Crankcase:			3	4 35 27 50	Transmission unflanged and flanged	80 TU	80 TU
	The base diameter of the 3.8 I cylinder is identical with that of standard prodicylinders, i.e. 107 mm. Therefore no rework of the crankcase in the area of the cylinder base is requ					Partial disassembly of engine, conversion to 3.8 I: Cylinder heads removed and reinstalled 6 pistons removed and reinstalled	1250 TU 120 TU	1250 TU 120 TU
	Pistons and cylinders: For the installation of the pistons and cylinders, proceed as described in the Manual.				0 01 37 50	Complete disassembly of engine, conversion to 3.8 I: Engine removed and reinstalled 1890 TU	1890 T	1890 TU
	When installing the knock sensor bridge, make sure it does not contact the c head (install washer, if required).	ylinder				Does not include: Removing and reinstalling clutch. Disassembling and reassembling intake	e	
	nshaft housing: For installation and adjustment, proceed as described in the Repair Manual.					air distributor, cylinder heads, crankshaft and alternator.		
	Belt pulley on crankshaft: Install modified belt pulley.					Other operations Test on engine test stand	app. 550 TU a	
	 single-type belt pulley on vehicles without air conditioner. double-type belt pulley on vehicles with air conditioner. 			4	4 90 03 00	Wheel alignment, rear (Adjustment of toe, camber and caster will be charged separately)	80 TU	80 TU
	Put the belt pulley into its position with an alignment pin and tighten. Tightening torque 170 Nm.							
	Cooling fan / alternator:		Warranty			cles: Warranty in accordance with the Porsche		
	The cooling fan and the alternator have to be assembled to form a rigid unit. To this aim, press out the bearing from the disassembled cooling fan. Fit the boss required for a rigid connection to the cooling fan.					g: Warranty in accordance with the repair regular anty regulations for original Porsche parts.	tions	
	Fit the boss required for a rigid commerciation to the cooling fail. Slide the boss with the cooling fail onto the alternator shaft. The small V-belt pulley for the alternator has been omitted!		Registrati	e	ntered into	al Republic of Germany, the power increase the vehicle identification documents; otherw e concerned will become void.		
	Engine assembly: For the remaining steps of the assembly, proceed as described in the Repair This also applies to the various tightening torques.	Manual.		т		we regulations of the individual countries mu	ust be observe	ed at all
	Engine type: A capital "S" has to be added to the standard engine type designation M 64.	05.	Reference	e: R	epair Manu	al "911 Carrera (993)", Vol. I.		
	Engine adjustment and test values; The adjustment and test values (e.g. exhaust values) are identical with those standard engine M 84.05.	of the						

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	Technical Informa	tion
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ting		
ing		
.903.00	Engine kit 3.8 I (without air condition	
.904.00	Engine kit 3.8 I (with air conditioner)	
ng of the follow	wing parts:	
	Designation	Qty.
915,70	Piston and cylinder - ø 102 mm	6
246.41	RH camshaft	1
247.41	LH camshaft	1.
.051.75	Boss for alternator	1
.050.40	Single-type belt pulley (w/o air co	
.050.41	Double-type belt pulley (w. air cor	nd.) 1
nads and se	als are identical with those of the stand	ard engine M 64.05.
purto una oc	all are racinotal than areas or one came	and angus manner
gine "X 51" -	modified parts:	
	Designation	Qty.
.915.70	Piston and cylinder - ø 102 mm	6
.021.70	Crankshaft with cone	1
.050.70	Vibration damper	1
.246.41	RH camshaft	1
.247.41	LH camshaft	1
.124.01	Bolt for vibration damper	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
parts and se	als are identical with those of the stand	lard engine M 64.05.
ave further, sp	pecific questions related to the "X 51" e	engine with increased pow
contact the VF	RS department:	
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Retrofitting	Working		Flat	rates		
imes:	Pos. No.	Job description	Carrera	Carrera 4		
		Engine removed and reinstalled:				
	10 01 19 00	- without air conditioner	840 TU	910 TU		
	10 01 19 01	- with air conditioner	880 TU	950 TU		
	10 80 19 00	Power unit guard removed and reinstalled	40 TU	40 TU		
	34 35 27 50	Transmission unflanged and flanged	80 TU	80 TU		
		Partial disassembly of engine, conversion to 3.8 I:				
	15 70 20 76		1250 TU	1250 TU		
	13 10 20 66	6 pistons removed and reinstalled	120 TU	120 TU		
		Complete disassembly of engine, conversion to 3.8 I:				
	10 01 37 50	Engine removed and reinstalled 1890 TU	1890 T	1890 TU		
		Does not include: Removing and reinstalling				
		clutch. Disassembling and reassembling intake air distributor, cylinder heads, crankshaft and				
		alternator.				
		Other operations				
	-	Test on engine test stand	app. 550 TU a	pp. 550 TU		
	44 90 03 00	Wheel alignment, rear	80 TU	80 TU		
		(Adjustment of toe, camber and caster will be				
		charged separately)				
Warranty:	For new vehi	cles: Warranty in accordance with the Porsche re	egulations.			
	For retrofitting	g: Warranty in accordance with the repair regulat	ions			
	and the warr	anty regulations for original Porsche parts.				
Registration:	In the Feder	al Republic of Germany, the power increase of	f the engine	has to be		
	entered into the vehicle identification documents; otherwise, the operating permit					
	of the vehic	e concerned will become void.		-		
	The respecti	ve regulations of the individual countries mu	st be observe	d at all		
	times!					
Reference:	Dennis Manu	al 2014 Camera (002)2 1/al 1				
Releielice:	repair Manu	al "911 Carrera (993)", Vol. I.				

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