## DATA AND SPECIFICATIONS

## Porsche Types 356 B/1600, 1600 S, 1600 S-90

Engine Type	16 <b>6</b> 0	1600 S	1600 S-90
Engine			
Type	air-cooled four-stroke gasoline engine, integral unit with clutch transmission and rear axle, and fitted at rear of vehicle		
No. of cylinders	4		
Cylinder arrangement	in pairs, horizontally opposed (flat four)		
Bore, mm (in.)	82,5 (3.25)	82,5 (3.25)	82,5 (3.25)
Stroke, mm (in.)	74,0 (2.91)	74,0 (2.91)	74,0 (2.91)
Displacement, c. c. (cu. in.)	1582 (96.5)	1582 (96.5)	1582 (96.5)
Compression ratio	7,5 : 1	8,5 : 1	9:1
Total weight (dry), kg, (lbs) approx	110 (242,5)	110 (242,5)	110 (242,5)
Crankcase	light alloy, three-pa	ırt	
Cylinders	Separate cylinders		,
Cylinder material	grey cast	light alloy	light alloy
Cylinder liner	_	hard-chromed	Ferral liner
Cylinder head	one to each pair of cylinders, light alloy cylinder head		
Valve seat	shrunk in place		
Valve guide	shrunk in place, special bronze		
Spark plug seat	Heli-Coil insert		
Crankshaft	forged		
Crankshaft bearings	4 plain bearings		
No. 1, 3, and 4 main bearings	one-piece bearing bushings, light alloy		
No. 2 main bearing	light alloy shells		
No. 1, 2, and 3 main bearings			split, threelayer
No. 4 main bearing			bearings
			one-piece, light-
	.1.0		alloy bearing
			bushing, lead-coated
Connecting rods	forged-steel H-section shank		
Big-end bearings	three-layer bearings		
Small-end bearings	pressed-in bronze bushings		
Pistons	light alloy		
Piston rings	3 compression rings, 2 compression rings, 3 compression rings,		
3	1 oil scraper ring   1 oil scraper ring   1 oil scraper ring   1 camshaft mounted underneath crankshaft, operation trough push rods and crocker arms cast, 3 plain bearings directly in		
Valve timing			
g			
Camshaft	crankcase		
Camshaft drive	2 helical spur gears		
Valve arrangement	OHV		
Valve springs	1 coil spring for each valve		
Valve clearance, adjuste while engine is cold	, 0		
intakte mm (in.)	0,10 (.00394)	0.15 (0050)	L 0.15 (0050)
exhaust mm (in.)	0,10 (.00394)	0,15 (.0059) 0,10 (.00394)	0,15 (.0059)
exnaust mm (in.) Valve timing with 1mm (0.040 in.) valve	0,13 (.0037)	0,10 (.00394)	0,10 (.00394)
clearance			
Intake opens before TDC	7°	17∘	17°
Intake closes after BDC	45°	53°	53°
Exhaust opens before BDC	44 °	50°	50°
	ĭ		
Exhaust closes after TDC	6°	14°	14°