

TECHNICAL DATA

TYPE 356 C/1600 C, 1600 SC

Engine Type.....	1600 C	1600 SC
ENGINE		
Design Type.....	Air cooled, gasoline combustion engine; clutch, transmission and rear axle in one unit located at rear of car.	
Number of Cylinders.....	4	4
Cylinder Arrangement.....	Horizontally opposed, two cylinders per bank (pancake type)	
Bore.....	82,5 mm (3,248 in.)	82,5 mm (3,248 in.)
Stroke.....	74,0 mm (2,913 in.)	74,0 mm (2,913 in.)
Piston Displacement.....	1582 cc (96,5 cu. in.)	1582 cc (96,5 cu. in.)
Compression Ratio.....	8,5 : 1	9,5 : 1
Dry weight.....	Approx. 115 kg (254 lbs)	Approx. 115 kg (254 lbs)
Crankcase.....	Light alloy, three piece	Light alloy, three piece
Cylinders.....	Individual units	Individual units
Cylinder Metal.....	Grey cast iron	Light alloy
Cylinder Bore.....	Base metal	Ferral-coated
Cylinder Heads.....	Common light alloy cylinder head for each two cylinders	
Valve Seat Inserts.....	Shrunk-in	Shrunk-in
Valve Guides.....	Shrunk-in, special bronze	Shrunk-in, special bronze
Spark Plug Inserts.....	Helicoil	Helicoil
Crankshaft.....	Forged	Forged, with counterweights
Crankshaft Bearings.....	4 plain bearings	4 plain bearings
Main Bearing 1 and 4.....	Light alloy sleeve bearings	Light alloy sleeve bearings
Main Bearing 2 and 3.....	Tri-metal split-sleeve inserts	Tri-metal split-sleeve inserts
Connection Rods.....	Forged-steel connecting rods, H-section shank	
Connection Rod Bearings.....	Tri-metal	Tri-metal
Piston Pin Bearings.....	Pressed-in bronze bushings	Pressed-in bronze bushings
Pistons.....	Light alloy	Light alloy
Piston Rings.....	3 compression rings	3 compression rings
	1 oil scraper ring	1 oil scraper ring
Valve Timing.....	1 camshaft (below crankshaft, through pushrods and rocker arms)	
Camshaft.....	Cast, in 3 plain bearings riding on base metal of crankcase	
Camshaft Drive.....	2 helical spur gears	2 helical spur gears
Valve Arrangement.....	OHV	OHV
Valve Springs.....	1 coil spring per valve	1 coil spring per valve
Valve Clearance in Cold Engine		
Intake:	0,10 mm (.004 in.)	0,15 mm (.006 in.)
Exhaust:	0,15 mm (.006 in.)	0,10 mm (.004 in.)
Valve Timing		
(with valve clearance set to 1 mm or .040 in.)		
Intake opens before TDC	10°	17°
Intake closes after BDC	44°	53°
Exhaust opens before BDC	42°	50°
Exhaust closes after TDC	6°	14°

Engine Type	1600 C	1600 SC
Engine Cooling.....	Air cooling by blower mounted on generator shaft extension	
Blower Drive.....	Off crankshaft by V-belt	Off crankshaft by V-belt
Cooling Air Volume.....	310 ltr/sec (11 cu. ft./sec) at 2000 rpm	620 ltr/sec (22 cu. ft./sec) at 4000 rpm
Lubrication.....	Pressure lubrication through gear oil pump	
Oil Cooling.....	Oil cooler located in air stream within air blower housing	
Oil Pressure Indication.....	From pressure sensor to green control lamp on dashboard	
Ignition Type.....	Battery ignition	
Ignition Coil.....	Bosch TK 6 A 3	Bosch TK 6 A 3
Ignition Distributor.....	Bosch VJR 4 BR 18	Bosch VJR 4 BR 18
Breaker Point Gap.....	0.4 mm (.016 in.)	0.4 mm (.016 in.)
Firing Point.....	5° before TDC	3° before TDC
Firing Order.....	1 - 4 - 3 - 2	1 - 4 - 3 - 2
Spark Plugs	W 225 T 1, W 225 T 7, respectively	
Bosch.....	L 85	L 85
Champion.....	D 225/14	D 225/14
Beru	14 x 1.25 mm	14 x 1.25 mm
Spark Plug Thread.....	0.5 - 0.6 mm (.020 - .024 in.) for Bosch W 225 T1 and	
Spark Plug Gap.....	Champion L 85	
	0.6 - 0.7 mm (.024 - .028 in.) for Bosch W 225 T7	
	0.7 mm (.028 in.) for Beru D 225/14	
CLUTCH		
Design Type.....	Single plate, dry, Type A-12 (Häussermann)	
Clutch Pedal Free Travel.....	approx. 20 mm (.8 in.)	approx. 20 mm (.8 in.)
Total Clutch Lining Area.....	approx. 265 cm ² (41.1 sq. in.)	
FUEL SYSTEM		
Carburetors.....	Zenith 32 NDIX	Solex 40 PII-4
Air Cleaners.....	Induction silencer with micronic cartridge	Oil-wetted wire mesh
Fuel Pump.....	Diaphragm pump	Diaphragm pump
Fuel Pump Pressure.....	0.20 - 0.24 atm (2.94 - 353 psi)	
Fuel Valve.....	Three-position with Reserve	Three-position with Reserve
Fuel Filtering.....	Fuel screen and sediment bowl within fuel valve assembly; filter screen in fuel pump	
ELECTRICAL SYSTEM		
Electrical System.....	6 Volt	6 Volt
Battery.....	6 V/84 Ah	6 V/84 Ah
Generator.....	Bosch LJ/GEG 200/6/2600 L	Bosch LJ/GEG 200/6/2600 L
Voltage and Current Regulator.....	Bosch RS/VA 200/6/3	Bosch RS/VA 200/6/3
Ratio, Crankshaft/Generator.....	approx. 1 : 1.8	approx. 1 : 1.8

Engine Type.....	1600 C	1600 SC
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Starter Motor.....	Bosch EED 0, 5/6L35	Bosch EED 0, 5/6L35
2 headlamps, high and low beam, with symmetric low beam.....	each 45/40 Watt	
with asymmetric low beam.....	each 45/40 Watt	
US sealed beams.....	each 50/40 Watt	
2 parking lights, for all countries, except USA, in headlamps.....	each 4 Watt	
for USA in blinker units.....	each 4 Watt	
2 tail lights in blink/stop light assembly	each 5 Watt	
2 blinkers, front.....	each 18 Watt	
2 blink/stop lights.....	each 18 Watt	
2 license plate lights.....	each 5 Watt	
1 backup light.....	25 Watt	
Interior Light		
three lamps in Coupe.....	each 10 Watt	
one lamp in Cabriolet/Hardtop.....	10 Watt	
Tachometer Light.....	1, 2 Watt	
High-beam Indicator Light.....	1, 2 Watt	
Blinker Indicator Light.....	1, 2 Watt	
Combination Instrument Light.....	1, 2 Watt	
Generator Control Light.....	1, 2 Watt	
Oil Pressure Indicator Light.....	1, 2 Watt	
Speedometer Light.....	1, 2 Watt	
Hand Brake Control Light.....	1, 2 Watt	
TRANSMISSION and REAR AXLE		
Design Type.....	Differential and four-speed transmission in single unit	
Transmission.....	Four forward speeds with Porsche servo-thrust synchroniza- tion	
Gear Ratios, Coupe and Cabriolet		
1st Gear	11 : 34	11 : 34
2nd Gear	17 : 30	17 : 30
3rd Gear	23 : 26	23 : 26
4th Gear	27 : 22	27 : 23
Ratio for Reverse Gear.....	i = 3, 56	i = 3, 56
Gear Shift Type.....	By linkage, gear shift lever in center car	
Rear Axle Drive.....	Spiral-bevel differential gears, bevel differential pinion, swinging half-axes	
Reduction Ratio.....	i = 4, 428	
CHASSIS		
Underbody (frame).....	Welded steel-section underbody, unitized with body	
Wheel Suspension, Front.....	Independent wheel suspension, 2 trailing arms	
Wheel Suspension, Rear.....	Swinging half-axes with flexible radius arms	
Springing, Front.....	2 full length square section torsion bars built up of single leaves, transversely located	
Springing, Rear.....	1 round torsion bar on each side, transversely located	
Rear Torsion Bar Adjustment Values		
Coupe and	With compensating spring:	17°
Cabriolet	Without compensating spring:	21° 30'

Engine Type	1600 C	1600 SC
Windows		
Windshield.....	Single piece, constant radius	
Door Windows.....	Crank-down windows, quarter-panel wind wings in Coupe and Cabriolet/Hardtop	
Side Windows.....	Opening outward, with arresting latch	
Rear Window.....	Single piece, contoured shape	
Glass Type.....	Windshield of laminated safety glass, rear and side windows of tempered safety glass	
Windshield Wipers.....	Electric, 2 wiper arms moving parallel to each other	
Compartment Lids		
Front.....	Hinged at rear with automatically locking and releasing hold-open locks, theft-proof from outside, lid lock release under dashboard, lid secured by snap-bolt and safety latch	
Rear.....	Engine compartment lid opening at rear, hinges with automatically locking and releasing hold-open locks, lock release behind driver's seat	
Seats		
Seating Capacity.....	2/2	2/2
Front.....	2 fully reclining, adjustable bucket seats	
Rear.....	2 limited-accomodation seats with folding backrests which form a luggage deck	
Instrument Panel.....	Speedometer with indicators for total mileage and trip mileage, illuminated dial Tachometer with built-in control lamps for high-beam indicator, parking light and blinkers, illuminated dial Combination instrument containing fuel gauge, oil temperature gauge, generator control light, oil pressure control light, and parking brake control light, illuminated dial Windshield wiper switch (progressively variable), ignition/starter switch, light switch, cigar lighter (socket can be used as an electrical outlet), ventilation control, locking glove compartment, ashtray, and hand grip; Combination switch on steering post, controlling directional signals, high/low headlamp beams, and light-signal (headlamp flicker) Steering wheel with horn button	
Interior Fittings		
Floor.....	Covered with rubber mat	
Floor Tunnel.....	Forward part covered with rubber, rear with fabric	
Forward Side Panels.....	Covered with fabric	
Doors and Side Panels.....	Upholstered	
Headlining.....	Lined with plastic material	
Heating.....	Hot air heating with remote control, 2 defroster outlets for the windshield, 2 defroster jets for rear window, 2 hot air outlets on floor level below door posts	
Fresh Air Ventilation.....	Fresh air for heating is drawn through slits in engine compartment lid and for cold air ventilation through inlet below windshield; outlets are the defrosters and openings on floor level below door posts	
Sliding Sun Roof		
Type.....	Golde (electrically operated)	
Aperture Length.....	approx. 260 mm (10.2 in.)	
Aperture Width.....	approx. 780 mm (30.7 in.)	