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°