

M20/21 Specifications

BSA Model:	M20	M21
Engine		
Cylinder barrel	Cast Iron	Cast Iron
Bore	82mm	82mm
Stroke	94mm	112mm
Capacity	496cc	591cc
Bhp	13 @ 4200 rpm	15 @4000 rpm
Compression ratio	4.9:1	5:1
Cylinder head	Aluminium alloy	Aluminium alloy
Piston		
Piston type	Aluminium alloy	Aluminium alloy
Clearance at bottom of skirt	0.004-0.006in (0.1-0.15mm)	0.004-0.006in (0.1-0.15mm)
Piston rings		
N ^o of	2 compression, 1 oil control	2 compression, 1 oil control
End gap	0.008-0.0010in (0.20-0.25mm)	0.008-0.0010in (0.20-0.25mm)
Side clearance	0.002-0.004in (0.05-0.10mm)	0.002-0.004in (0.05-0.10mm)
Valves		
Seat angle	45°	45°
Valve timing		
Inlet opens BTDC	25°	25°
Inlet closes	65°	65°
Exhaust opens	65°	65°
Exhaust closes	25°	25°
Valve clearances (cold)		
Inlet	0.010in (0.25mm)	0.010in (0.25mm)
Exhaust	0.012 (0.30mm)	0.012 (0.30mm)
Ignition system		
Magneto		
Make	Lucas	Lucas
Type	MO1/6 (045160 or 045232)	MO1/6 (045160 or 045232)
Drive	Anticlockwise	Anticlockwise
Contact breaker gap	0.012in (0.30mm)	0.012in (0.30mm)
Spark plug	Champion L-7/L-10 Iron head Champion N10 Alloy head	Champion L-7/L-10 Iron head Champion N10 Alloy head
Ignition timing	7/16in (11.0mm) BTDC fully advanced	7/16in (11.0mm) BTDC fully advanced
Electrical system		

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Battery		
Type	Lead acid	Lead acid
Capacity	12 amp/hr	12 amp/hr
Voltage	6	6
Dynamo		
Make	Lucas	Lucas
Type	E3L	E3L
Output	60 watts	60 watts
Voltage	6	6
Regulator		
Make	Lucas	Lucas
Type	MCR 2	MCR 2
Bulbs		
Main	30/24w	30/24w
Pilot	3w	3w
Tail/Stop	6/18w	6/18w
Instrument	2.2w	2.2w