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SERVICE SHEETS

BSA SERVICE SHEET No. 415

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Models C10L and C11G

USEFUL DATA

	C10L		C11G	
Cylinder bore (mm.)	63		63	
Engine stroke (mm.)	80		80	
Engine capacity (c.c.)	249		249	
Standard compression ratios	5-1		6.5-1	
Tappet clearance, 1954 type cam. Inlet .. .. .	.004 in.		.003 in.	
Exhaust .. .. .	.006 in.		.003 in.	
1955 type cam. Inlet .. .. .	.012 in.		.010 in.	
Exhaust .. .. .	.015 in.		.012 in.	
Valve timing. Inlet opens before T.D.C.	25°	33° 38'†	25°	33° 38'†
Inlet closes after B.D.C.	70°	78° 22'	70°	78° 22'
Exhaust opens before B.D.C.	70°	74° 14'	70°	74° 14'
Exhaust closes after T.D.C.	25°	37° 46'	25°	37° 46'
Piston ring gap. Compression .. .. .	.010 in.		.010 in.	
Oil control .. .. .	.010 in.		.010 in.	
Piston ring side clearance .. .. .	.002 in.		.002 in.	
Piston clearance (base of skirt) .. .. .	.0045/.0065 in.		.0035/.0055 in.	
Contact breaker gap .. .. .	.015 in.		.015 in.	
Ignition setting, Inches before T.D.C.				
Fully advanced	$\frac{5}{32}$		$\frac{1}{4}$	
Fully retarded	$\frac{1}{32}$		T.D.C.	
Plug type, Champion	N8		L10S	
Plug gap .. .. .	.018/.020 in.		.018/.020 in.	
Carburettor:				
Choke size	$\frac{35}{32}$ in.		$\frac{35}{32}$ in.	
Throttle slide	4/4	375/3 $\frac{1}{2}$	4/4	375/3 $\frac{1}{2}$
Needle position	2		3	
Needle jet .. .. .	.1055		.1065	
Main jet	90	120	80	140
Petrol tank capacity (galls.)	2 $\frac{1}{2}$		2 $\frac{1}{2}$	
Oil tank capacity (pints)	4		4	
Gearbox capacity (pints)	$\frac{1}{2}$		$\frac{1}{2}$	(Four speed: 1 pint)
Standard gear ratios. 4th .. .. .	..		..	6.2 } Four
3rd	6.6		6.2	7.6 } speed
2nd	9.8		9.25	10.1 } gear-
1st	14.5		14.1	16.15 } box
Number of teeth on:				
Engine sprocket	16		17	
Clutch sprocket	43		43	
Gearbox sprocket	19		17	
Rear wheel sprocket	47		42	

* Amal Monobloc Carb.

† With 1955 Type Cams.

B.S.A. Service Sheet No. 418 (cont.)

	C10L	C11G
Primary chain size	$\frac{1}{2}$ x .305 in.	$\frac{1}{2}$ x .305 in.
No. of links	69	69
Rear chain size	$\frac{1}{2}$ x .205 in.	$\frac{1}{2}$ x .205 in.
No. of links, Rigid		104
No. of links, Spring frame	110	107
Front fork movement	3 $\frac{3}{4}$ ins.	6 ins.
Rear suspension movement	2 ins.	2 ins.
Front fork capacity (engine oil)	Grease	$\frac{1}{4}$ pint (142 c.c.)
Front brake size	5 $\frac{1}{2}$ x 1 in.	7 x 1 $\frac{1}{8}$ in.
Rear brake size	5 x $\frac{7}{8}$ in.	5 $\frac{1}{2}$ x 1 in.
Rim sizes	W.M.1 x 19	W.M.1 x 19
Standard tyre size	2.75 x 19	3.00 x 19
Tyre pressure, Solo. lbs./sq. in. Front	18	18
.. .. . Rear	27	26
Wheelbase	52 $\frac{1}{2}$ ins.	53 $\frac{1}{2}$ ins.
Ground clearance	5 ins.	4 $\frac{1}{2}$ ins.
Saddle height	29 $\frac{1}{2}$ ins.	29 ins.
Dry weight. (Rigid frame) .. .. .	..	301 lbs.
(Spring frame)	256 lbs.	316 lbs.