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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	$\frac{25}{32}$ in.	$\frac{25}{32}$ 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. 415 (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. (1954 only)
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.