



SERVICE SHEETS

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BSA SERVICE SHEET No. 510

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Models D1 & D3

USEFUL DATA

Petrol tank capacity (approx.)	..	..	..	1 $\frac{1}{4}$ galls (8 litres)
"Petroil" mixture	..	..	..	2 filler cap measures per gallon petrol with 6 $\frac{1}{4}$ " filler. 2 $\frac{1}{2}$ filler cap measures per gallon petrol with 5" filler.
Gearbox capacity	..	..	..	$\frac{3}{4}$ pint (425 c.c.).
Bore	..	..	..	D1 -- 52 mm. D3 -- 57 mm.
Stroke	..	..	..	58 mm.
Capacity (swept volume)	..	..	..	D1 -- 123 c.c. D3 -- 148 c.c.
Piston ring gap	..	..	..	Max. .013 in. (.325 mm.) Min. .009 in. (.225 mm.)
Ignition timing	..	..	..	Piston distance before t.d.c. with points just opening, $\frac{5}{16}$ in. (3.75 mm.).
Plug point gap	..	..	..	.015 in. to .018 in. (.38 to .45 mm.)
Gear ratios	..	..	..	Standard Competition
				Top 7.0 to 1. 8.64 to 1.
				Second 11.7 to 1. 14.45 to 1.
	..	..	..	First 22.0 to 1. 27.1 to 1.
Tyre size, Front	..	..	..	2.75 x 19.
Rear	..	..	..	Standard 2.75 x 19; Comp., 3.25 x 19
Tyre pressures: Front	..	..	..	16 lbs. sq. in. (1.125 kg. per sq. cm.).
(Standard Model) Rear	..	..	..	20-22 lbs. sq. in. (1.55 kg. per sq. cm.).
Front chain (.375in. x .225in.)	..	..	..	50 Links
Rear chain ($\frac{1}{2}$ in. x .205in)	..	..	..	
Standard, Rigid Frame	..	..	..	116 Links
Spring Frame	..	..	..	117 Links (D3 S/Arm-121 Links)
Comp., Rigid Frame	..	..	..	122 Links
Spring Frame	..	..	..	123 Links
Standard carburetter jet	..	..	..	D1 -- 75 D3 -- 90
Jet needle position	..	..	..	2nd notch from top.

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