



SERVICE SHEET No. 707

April 1950
Reprinted December 1958.

Gold Star and Competition Models

USEFUL DATA

Engine Stroke	...	...	...	88mm.			
Engine Bore	...	...	...	132	71mm.	134	85mm.
Engine Capacity	...	...	...	132	348c.c.	134	499c.c.
Oil Tank Capacity	...	...	...	5	pints.		
Gearbox Capacity	...	...	...	1	pint.		
Front Fork Capacity (each leg)	...	...	...	$\frac{3}{8}$	pint (212c.c.)		
Tappet Clearances (cold engine) :							
Cam.	65-2420	...	...	.003in.	Inlet and Exhaust.		
Cams.	65-2434 to 65-2440	...	...	.001in.	Inlet and Exhaust.		
Cams.	65-2442 to 65-2452	...	...	.008in.	Inlet .010in. Exhaust.		
1954 onwards (Clubmans Models)	...	...	...	.006in.	Inlet and Exhaust.		
Piston Ring Gap	...	...	...	Top .012in.	2nd and Scraper .010in.		
Piston Ring Side Clearance	...	...	...	.0015in.			
Piston Clearance (bottom of skirt)	...	...	...	.0025in.	- .0045in.		
Contact Breaker Gap	...	...	...	.012in.			
Ignition Setting B.T.D.C. (fully advanced)							
				350c.c. Touring, Trials and Scrambles,	$\frac{1}{16}$ in.		
				500c.c. Touring and Trials,	$\frac{1}{16}$ in.	Scrambles,	$\frac{1}{16}$ in.
Racing (Clubmans)	...	...	...	$\frac{3}{32}$ in.			
Racing (Alcohol)	...	...	...	350c.c., $\frac{3}{16}$ in.	500c.c., $\frac{1}{8}$ in.		
Racing (Petrol Benzol)	...	...	...	350c.c., $\frac{3}{32}$ in.	500c.c., $\frac{1}{16}$ in.		
Sparking Plug	Touring and Trials	...	...	Champion NA8.			
	Scrambles	...	...	Champion NA10 or NA12.			
	Racing	...	...	Champion NA14.			
Carburettor	Trials - Standard	...	...	Touring - Standard or T.T.10.			
	Scrambles - T.T.10	...	...	Racing - T.T.10; T.T.10 R.N. or G.P.			
Engine Sprockets available	...	...	...	16, 17, 18, 19, 20 Teeth.			
Gearbox Sprockets available	...	...	...	16, 19 Teeth.			
Clutch Sprocket	...	...	...	43 Teeth (44 Teeth to Special Order).			
Chainwheel Sprocket	...	...	...	42 Teeth.			
Internal Gear Ratios:							
Plunger Frame Models,	Extra Close...			Marked.	Top.	3rd.	2nd.
	Close	...	...	(Ex. Close)	1.0	1.1	1.31
	Standard	...	...	(Close)	1.0	1.32	1.72
	Swinging Arm Frame,	Extra Close...			1.0	1.32	2.05
	Close	...	...	(R R)	1.0	1.099	1.326
	Scrambles	...	...	(Day)	1.0	1.101	1.460
	Standard	...	...	(Sc)	1.0	1.325	1.754
	Wide Ratio...	...	...	(Std)	1.0	1.210	1.758
				(Fri)	1.0	1.549	2.339
							3.167
Chain Sizes (Front)	...	...	...	$\frac{1}{8}$ in. x .305in.			
(Rear)	...	...	...	$\frac{3}{8}$ in. x .250in.			
Tyre Sizes (Front)	...	...	...	Touring and Scrambles, 3.00 x 21; Trials, 2.75 x 21			
				Racing, 3.00 x 19 or 21			
(Rear)	...	...	...	Touring and Racing, 3.25 x 19 (350c.c.); 3.50 x 19			
				(500c.c.)			
				Trials and Scrambles, 4.00 x 19.			

B.S.A. MOTOR CYCLES LTD.
Service Dept., Birmingham, 11
Printed in England.