



# Service bulletin

C. 240

THE BRITISH MOTOR CORPORATION (AUSTRALIA) PTY. LIMITED

FOR THE ATTENTION OF SERVICE AND PARTS MANAGERS.

## INTRODUCTION AUSTIN HEALEY IIA AND MORRIS 6 CWT. VAN

A further development of the ever popular 'A' series power unit is now of greater capacity (1098 c. c.) and developing more power and torque than the 948 c. c. engine which it replaces.

The following specifications are the main differences between the 948 c. c. and 1098 c. c. units.

	<u>SPRITE IIA</u>	<u>MORRIS 6 CWT.</u>
<u>ENGINE</u>	10 CG	10 AM
Bore	2.543 in.	2.543 in.
Stroke	3.296 in.	3.296 in.
Capacity	1098 c. c.	1098 c. c.
Comp. Ratio	8.9:1	8.5 or 7.5:1
B. H. P.	56 at 5750 r. p. m.	H. C. 48 at 5100 r. p. m. L. C. 45 at 5100 r. p. m.
Torque	61 lbs. /ft. at 2750 rpm	H. C. 60 lbs. /ft. at 2500 r. p. m. L. C. 57 lbs. /ft. at 3000 r. p. m.
<u>CRANKSHAFT</u>		
Main Bearing Length	1.0625 in.	1.0625 in.
Main Bearing Material	Steel backed lead bronze with lead indium faced surface.	
Big End Bearing Side Clearance	.008/.012 in.	.008/.012 in.
Big End Bearing Diametrical Clearance	.001/.0025 in.	.001/.0025 in.

Austin  
Healey  
Sprite  
Mk. IIA

Morris  
6 cwt.  
van.

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	<u>SPRITE IIA</u>	<u>MORRIS 6 CWT</u>
<u>PISTONS</u>		
Type	Solid Skirt	Solid Skirt
Clearance Bottom Skirt	.0005/.0011 in.	.0005/.0011 in.
Clearance Top Skirt	.0021/.0037 in.	.0021/.0037 in.
<u>GUDGEON PIN</u>		
Type	Fully Floating	Fully Floating
Fit	Hand Push	Hand Push
<u>PISTON RINGS</u>		
Compression Top	Internally chamfered chrome faced.	
<u>VALVES</u>		
Head Dia. Inlet	1.156 in.	1.156 in.
<u>VALVE TIMING</u>		
Inlet Valve Opens	5° B. T. D. C.) with .021 in. valve	
Inlet Valve Closes	45° A. B. D. C.) rocker clearance for	
Exhaust Opens	51° B. B. D. C.) checking purposes	
Exhaust Closes	21° A. T. D. C.) only.	
<u>VALVE SPRINGS</u>		
Free Length Inner	1.672 in.	-
Free Length Outer	1.750 in.	1.750 in.
Fitted Length Inner	1.179 in.	-
Fitted Length Outer	1.291 in.	1.291 in.
Working Coils Inner	6½	-
Working Coils Outer	4½	4½
Pressure Valve Open		
Inner	30 lbs.	-
Pressure Valve Open		
Outer	88 lbs.	88 lbs.
Pressure Valve Closed		
Inner	18 lbs.	-
Pressure Valve Closed		
Outer	52 lbs.	52 lbs.
<u>CAMSHAFT</u>		
Bearing Type	3 white metal lined steel backed	
<u>FUEL</u>		
Type	Twin HS2	Single HS2
<u>NEEDLES</u>		
Standard	GY	AN
Rich	M	H. 6
Weak	GG	EB
Spring	Blue	Red

	<u>SPRITE IIA</u>	<u>MORRIS 6 CWT</u>
<u>IGNITION</u>		
Distributor	40919 A Lucas	HC 40849 Lucas LC 40899 Lucas
<u>TIMING</u>	5° B. T. D. C.	3° B. T. D. C.
<u>CLUTCH</u>		
Diameter	7¼ in.	7¼ in.
Pressure Spring	Red	Yellow
<u>GEARBOX</u>		
Type	Baulk Ring	Baulk Ring
Ratio Top	1.0:1	1.0:1
Third	1.357:1	1.41:1
Second	1.916:1	2.172:1
First	3.2:1	3.628:1
Reverse	4.114:1	4.664:1
<u>REAR AXLE</u>		
Ratio	4.22:1	4.22:1
<u>BRAKES</u>		
Front	Disc 8¼ in.	Drum 8 x 1½ in.
Rear	Drum 7 x 1¼ in.	Drum 7 x 1¼ in.



N. PRESCOTT.  
SERVICE MANAGER.