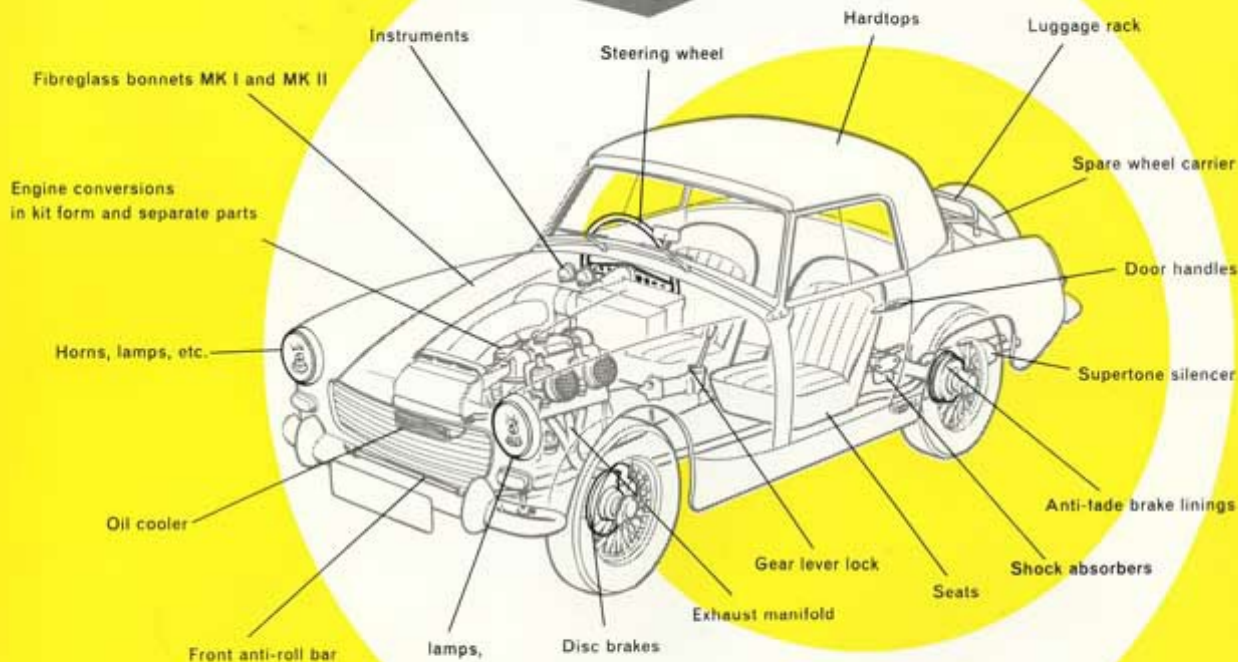


# Speedwell equipment for the austin-healey and sprite mk. I & II and MG midget



## REASONS FOR A SPEEDWELL CAR

You are a keen enthusiastic motorist. You want a car that is different. But your choice is limited unless you are willing to spend a lot of money. Probably you will decide on a mass-produced model.

How can you personalize your car—give it individuality—make it quieter—safer—faster—more comfortable and economical, or just plain different? The answer is: Have it Speedwelled.

Speedwell offer a wide range of accessories and performance equipment from which you can select the exact specification you require.

From the outside your car will look little different from any other apart from the small Speedwell Badge. But a mile behind the wheel and you will soon find out what Speedwelled means. A Speedwell engine conversion will give you the performance you want at a price you can afford.

For very little cost road holding can be improved—brakes can always be made better and there are lots of other parts, improve-

ments and accessories to make your motoring a greater pleasure than ever before. Since every Speedwell component is guaranteed for twelve months you can motor happily with fewer worries and the sure knowledge that Speedwell is ready to help whatever your problem and to back you with service and advice.

On the next page are full details of engine parts and kits with performance figures indicating the improvements of each stage. You will find it more economical to purchase complete kits rather than separate components.

On page 3 other parts are listed—suspension components, exhaust systems, braking equipment, additional instruments, etc. Separate leaflets are available providing full technical details of each item and a complete catalogue is also available covering all products, price 5/-.

Any BMC car can be supplied new fully modified to your individual specification. Further details on request.

Special parts are available for racing and rally enthusiasts. These are listed on the Racing Parts leaflet.

**Speedwell Equipment is sold all over the world and guaranteed for 12 months.**

# SPEEDWELL ENGINE EQUIPMENT

## How to tune your car with Speedwell

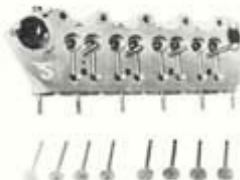
Speedwell engine equipment is available in complete kits with all necessary parts required to improve engine performance to a specific stage of tune. Alternatively, all parts are obtainable separately and a parts list is available on request. However, complete kits are more economical to buy and they are designed to give a specific increase in power for a given outlay. As a general guide, and to help you choose your equipment, we list the recommended order of fitting, indicating the parts included in complete kits, thus\*:

- \*Supertone silencer
- \*Valve springs
- \*Full-flow exhaust manifold
- \*Camshaft



By replacing the standard silencer with the straight-through Supertone exhaust back pressure is relieved. Speedwell single valve springs are satisfactory up to 7,000 r.p.m. Fitting a three-branch full-flow exhaust manifold ensures maximum scavenging and lower combustion chamber temperatures. The Speedwell high speed CS2 cam permits the use of higher r.p.m. with better acceleration and maximum speed due to higher power output at the cost of slightly less flexibility below 3,000. The high torque CS4 cam gives terrific acceleration and flexibility up to 6,000 r.p.m. and allows the use of a higher axle ratio for effortless fast cruising.

- \*Light Alloy Cylinder head
- \*Oversize inlet valves
- \*Rocker gear



The Speedwell light alloy cylinder head is an outstanding new design which provides 20% increase in power, exceptional flexibility and fuel economy. Excellent heat dissipation allows the use of a reliable 10:1 compression ratio. Unusually short flame travel results in a cool sparking plug even under continuous hard driving. Austenitic iron valve seats ensure long life. The extra power produced by the cylinder head calls for improved valves. Speedwell racing valves are world famous for quality and design. Oversize inlet valves are made of EN 52 steel and exhaust valves in KE965.

As an alternative, a completely re-machined cast-iron BMC head with redesigned ports and combustion chambers is available on exchange at a slightly higher cost. The Speedwell rocker gear has an effect similar to fitting a high lift camshaft maintaining the characteristics of the standard cam but with accelerated opening and closing rates. The rockers are even more effective and will produce still more power when fitted in conjunction with a Speedwell cam. The complete set comprises 8 rockers and 4 pillars with adjusting screws which are fitted to the original rocker shaft and studs.

- \*Twin Amals or Weber carburettors & inlet manifolds
- \*Oil cooler
- \*Increased engine capacity
- \*Oversize flat top pistons
- \*Balance crankshaft
- \*Lightened flywheel
- \*Clutch springs



Twin Amals give better acceleration and top speed with slightly less flexibility and higher fuel consumption. The twin choke Weber combines flexibility and economy with outstanding acceleration and maximum speed but involves a higher initial cost. Increasing the capacity is the simplest way of improving engine torque. Special solid skirt pistons increase the capacity to 980 c.c. Boring the block is a precision engineering job which should only be undertaken by a qualified machine shop. The Speedwell guarantee in this case applies only to cars modified by us. Balancing the crankshaft and a lightened flywheel ensure a smooth revving engine and fitting Speedwell clutch springs will take care of the additional power to be transmitted to the gearbox.

## COMPLETE ENGINE KITS

GT Kit



## CLUBMAN ALLOY HEAD

To take full advantage of the improved Mark II engine, a Clubman version of the light alloy cylinder head is now available. The specification includes pentagonal combustion chambers developed from Speedwell cast-iron racing heads; 1.25" inlet and 1.125" exhaust valves both in KE 965 steel with stellite tips. These are assembled on double valve springs. The total cost of this high performance cylinder head is £49 10 0.

## GRAND TOURING KIT

This kit is designed to give a maximum all-round performance improvement for a specific outlay, giving a 20% increase in power with brisk acceleration, over 90 m.p.h. and outstanding flexibility. All kits for MK II and Midget include Clubman alloy head.

Contents		
Silencer	£4 9 6	
Cylinder head and guides	£32 10 0	
Valve springs	£2 18 0	
Inlet valves EN 52	£2 14 0	
Exhaust valves KE 965	£3 18 0	
Special gasket set	£1 17 6	
Plated rocker cover	£2 5 0	
Sparking plugs	£1 10 0	
Carb. Air bells	£1 17 6	
Nuts, bolts and badge	12 6	
Total cost of separate items	£54 12 0	

GT Kit Price List		Fitting
Sprite MK I	GT.AS £47 10 0	£12 10
Sprite MK II & Midget	GT.AS(II) £55 0 0	

Performance Figures			
	0-50	0-60	Max.
STD. Sprite (Mk. I)	13.7 secs.	20.9 secs.	80 m.p.h.
GT.AS	11.6	17.6	85

## CLUBMAN KIT

This kit contains all GRAND TOURING parts plus camshaft, hi-lift rockers and twin Amal or DCOE Weber carb. Here is a kit for the serious minded with ultra plus performance. Really dazzling acceleration and well over 95 m.p.h. A 3-branch full-flow manifold should always be fitted together with this specification.

Contents		
GT kit less air bells	£52 14 6	
Rockers	£15 10 0	
Camshaft CS2	£11 0 0	
Twin Amal carb.	£16 10 0	
Inlet manifolds	£5 0 0	
Balance pipe, "O" rings, etc.	15 0	
Total cost of separate items	£101 9 6	

Clubman Kit Price List		Fitting
MK I Amal	CM.AS/A	£88 10 0
MK II, etc., Amal	CM.AS/IIA	£96 0 0
MK I Weber	CM.AS/W	£105 0 0
MK II, etc., Weber	CM.AS/IIW	£112 10 0

Performance Figures			
	0-50	0-60	Max.
CM.AS/A	9.8 sec.	14.2 sec.	90 m.p.h.
CM.AS/W	9.0	13.9	90

## FURTHER CLUBMAN TUNING

These items are not available in kit form but may be purchased individually (see also separate Parts List). It is obviously more economical to have all modifications involving an engine strip down done at the same time. MK I Sprite fully modified to this specification should be fitted with Clubman alloy head.

		Fitting
980 c.c. Pistons	£12 10 0	£27 10 0*
Boring block	£10 0 0	
New balanced crankshaft	£18 10 0	
Balanced lightened flywheel	£10 10 0	
Balancing existing crankshaft assembly	£7 10 0	
Lighten existing flywheel	£3 10 0	
Set clutch springs	£1 10 0	
Oil Cooler	£12 0 0	
Modifying GT alloy head to Clubman spec.	£20 0 0	
	£8 10 0*	

\*No extra labour charge if GT or Clubman kit is fitted at the same time.

Performance Figures			
	0-50	0-60	Max.
Complete spec.			
980 c.c. Clubman	8.5 sec.	12.5 sec.	98 m.p.h.



# SPEEDWELL EQUIPMENT FOR SPRITE AND MIDGET

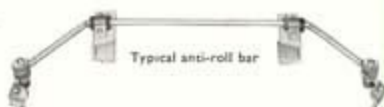
## Suspension

### Front Anti-roll bar

By fitting an anti-roll bar body roll is corrected. Wheel lift under hard cornering is practically eliminated. Manufactured from high grade steel and supplied complete with brackets, bushes, etc.

### Rear Panhard Rod

Prevents rear axle sway under hard cornering by positive location of rear axle housing to the chassis.



Typical anti-roll bar

	Cat. No.	Price	Fitting
Anti-roll bar	AR.5	£7 0 0	£3 0 0
Panhard rod	PR.AS	£7 0 0	£5 0 0

## Exhaust systems

### Supertone Silencer

Normal baffle-type silencers hinder the flow of exhaust gases and reduce the efficiency of the engine. The Supertone silencer with straight-through absorption allows these gases to escape freely. The twin chrome tail pipes are plated to British Standard for severe exposure and the body is stove enamelled in Red hammer finish.

### Three-Branch Full-Flow Manifold

These tubular manifolds extract residue combustion chamber gases and assist scavenging. The result is no back pressure and maximum engine efficiency.



Supertone	XS.5	£4 9 6	£1 10 0
Manifold	XM.5	£8 15 0	£2 10 0

## Brakes and Wheels

### Anti-fade brake linings

Fast cars need good brakes. These linings will stand repeated application without fading. Though required pedal pressure is somewhat higher it is by no means excessive. Supplied in complete sets mounted on shoes. Linings are concentrically ground.

### Servo Unit

Vacuum operated Servo unit takes most of the effort out of pedal pressure for those who like a light pedal.

### 8 in. Front Drums

Here is an economical way to further improve braking. A complete kit of parts can be supplied to modify the existing 7 in. front brakes to 8 in. Supplied with a set of front anti-fade linings mounted on shoes.

### Disc Brakes and Wire Wheels

Complete set of front disc brakes are available using original wheels. A more comprehensive kit can also be supplied including larger rear drum brakes and wire wheels. The wire wheel kit may also be purchased separately. No allowance can be made for old parts.



Anti-fade lining set	BK.A5	£6 0 0	£4 0 0
Servo unit	BKS.A5	£12 10 0	£4 0 0
8 in. Front drum brake kit	BKP.A5	£15 0 0	£4 0 0
Front disc brake kit	BKD.A5	£40 0 0	£8 0 0
Disc brake/wire wheel kit	BKDW.A5	£85 0 0	£15 0 0
Wire wheel kit only	BKW.A5	£55 0 0	£8 0 0

## Body Parts

### Hardtops

Fibreglass hardtops are available for both MK I and MK II Sprites and Midgets. Both versions are fitted with large rear screens and special attention has been paid to water sealing. Finished in old English White ready to fit.

### Bonnets

The world famous fibreglass Speedwell streamlined bonnet for the MK I Sprite is still as popular as ever. Hinges at the front for engine accessibility, accepts original electrical equipment. Supplied with hinges and all necessary parts. Total weight 32 lbs. The fibreglass bonnet for the MK II Sprite and Midget incorporates a gold air scoop with an attractive chromed grille. Weighs only 17 lbs.

### Continental Spare Wheel Carrier

This wheel carrier is specially made for the MK II Sprite and Midget, gives 20% more luggage space. Will accept ordinary as well as wire wheels. Can be supplied with a fibreglass or PVC wheel cover.



Hardtop	BP/H/A5	£37 10 0	10 0
MK I Bonnet	BP/B/A5	£49 15 0	£5 10 0*
MK II Bonnet	BP/B/A5 II	£25 10 0	£5 10 0*
Continental Wheel kit (PVC cover)	BP/WS/A5	£15 0 0	£3 10 0*
Continental Wheel kit (Fibreglass cover)	BP/WH/A5	£18 10 0	£3 10 0*

\*Painting extra



## Accessories



Gear lever lock	£4 19 6
Sanor horns	pr. £3 19 6
Cibie Headlamps	pr. £4 17 6
2-spoke steering wheel	£10 19 6
3-spoke steering wheel	£11 19 6
Luggage rack	£9 10 0
Walnut dashboard	£5 19 6
Electronic Revcounter	£21 0 0
Bucket seats	£15 10 0
Door handles	pr. £2 19 6
Oil Temp. Gauge	£3 3 0

Please remember that separate sheets are available detailing each product.

### ORDER PROCEDURE

How to order. Speedwell equipment may be purchased from Speedwell Stockists, BMC Dealers, specialized tuning shops as well as direct. When ordering always state catalogue numbers as well as vehicle details.

Unless previously arranged, no components are supplied on exchange.

Though fitting charges quoted apply to our works only, they give a good indication of approximate charges elsewhere.

Prices of engine kits and fitting charges do not cover parts that may need replacement upon dismantling and not included in kit specification.

**SPEEDWELL EQUIPMENT IS GUARANTEED FOR 12 MONTHS**

AUSTIN-HEALEY  
SPRITE MK. I & II  
MG. MIDGET



for  
BMC, 950 cc. sports cars  
OPTIONAL EQUIPMENT  
AND  
CONVERSIONS  
ENGINE

**SPEEDWELL**

**SPEEDWELL**

## the story behind the great name in SPEED EQUIPMENT

Speedwell has grown tremendously over the past few years. The ever increasing number of Speedwelled cars on the road is proof that the finest engineering and technical knowledge and the best components go into every Speedwell Product.

Each Speedwell component is tested on the road and track; gruelling tests such as these ensure freedom from trouble so that the motoring public can be sure of every Speedwell part.

Speedwell is synonymous with the best in motoring pleasure not only in Great Britain but all over the world wherever motor-cars are used.

The motorist who expects the utmost in performance, safety and efficiency is the man or woman for whom Speedwell caters. Meeting such demands has made Speedwell the leading name in this field.

**SPEEDWELL PERFORMANCE CONVERSIONS LTD.**

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