

BMC 850 c.c. MINI COMPLETE ENGINE KITS

SPEEDWELL

ENGINE KITS and PARTS

Speedwell Engine Kits are complete sets of components developed by exhaustive dynamometer and road testing to ensure a specific performance improvement. They provide the greatest possible power increase for a given financial outlay with economy and reliability. Kits are available in several stages of tune depending on the engine and road-holding characteristics of the car concerned. Each kit is complete to the last detail with comprehensive instructions for the experienced mechanic or enthusiast wishing to fit his own equipment.

For the 850 Mini range there are two stages of tune, each with a choice of three carburettor types. Every component of the kit has its function to perform, carburettors and valve springs to raise the RPM limit and exhaust silencer to reduce back pressure.

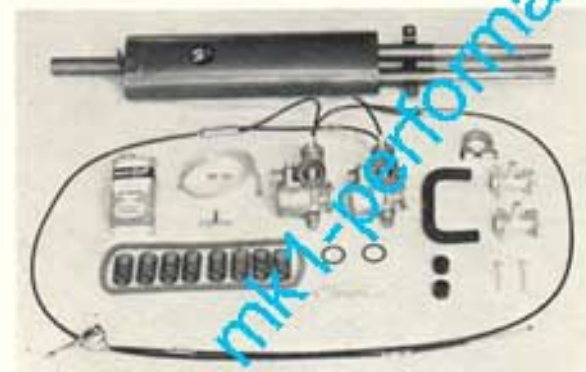
In the GT Kits, Speedwell Light-Alloy cylinder heads with 10.5 to 1 compression ratio provide high thermal efficiency and further improved mixture flow.



SU Sport Kit—Cat. No. SA.1

Contents

SU carburettor, Type HS.2	Choke cable with dashboard knob
Parts for adapting existing carb. to match	Linkages, springs, etc.
Air baffle	Supertone silencer
Valve springs, heavy duty single type	Splash plate
Inlet manifolds, Speedwell design	Moly slip
Balance pipe	Nuts and bolts, etc.
	Gaskets and badge
	Fuel pipe and clips



Amal Sport Kit—Cat. No. SA.1/A

Contents

Twin Speedwell Amals	Choke lever
Cables and couplings	Supertone silencer
Valve springs, heavy duty single type	Splash plate
Inlet manifolds, Speedwell design	Moly slip
Balance pipe	Nuts and bolts, 'O' rings, etc.
	Gaskets and badge
	Fuel pipe and clips



Weber Sport Kit—Cat. No. SA.1/W

Contents

Weber carburettor	Cable stop and spring
Air-entry flange	Supertone silencer
Valve springs, heavy duty single type	Moly slip
Inlet manifold, Cast light alloy	Nuts and bolts, etc.
	Gaskets and badge
	Fuel pipe and clips

● 12 Months Guarantee ●

P.T.O. ▶

Further tuning equipment is available in addition to the kits such as special camshafts, rocker gear and 960 c.c. pistons. These must be used with caution as the limits of mechanical reliability of the engine are approached. Speedwell will be pleased to advise on further tuning.

With " Sport " and " GT " Kits there are no exchange parts to be returned. All original parts can be retained so that the conversion may be readily changed over to a new car.



PERFORMANCE DATA

SA.1

The SU carburettor Sport kit offers extra performance at the most economical price. One extra carburettor is supplied and the existing one from the car is adapted to form a twin port.

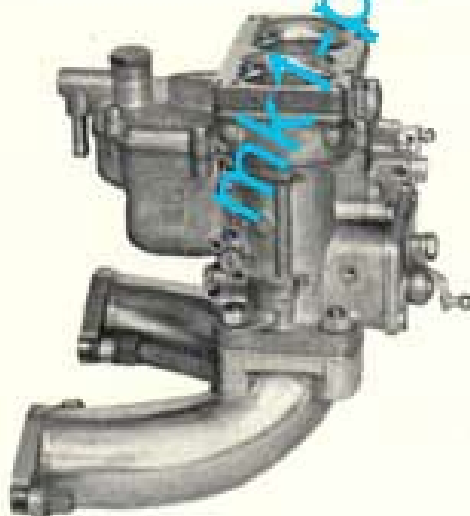
Max. speed	0-50	0-60
83 m.p.h.	14.0 secs.	19.3 secs.
Approx. fuel consumption—37 m.p.g.		



SA.1/A

The Amal carburettor Sport kit gives the greatest increase in power possible without resort to special cylinder heads. Its reasonable cost makes it an ideal first step for the enthusiast.

Max. speed	0-50	0-60
82 m.p.h.	11.8	17.0
Approx. fuel consumption—35 m.p.g.		

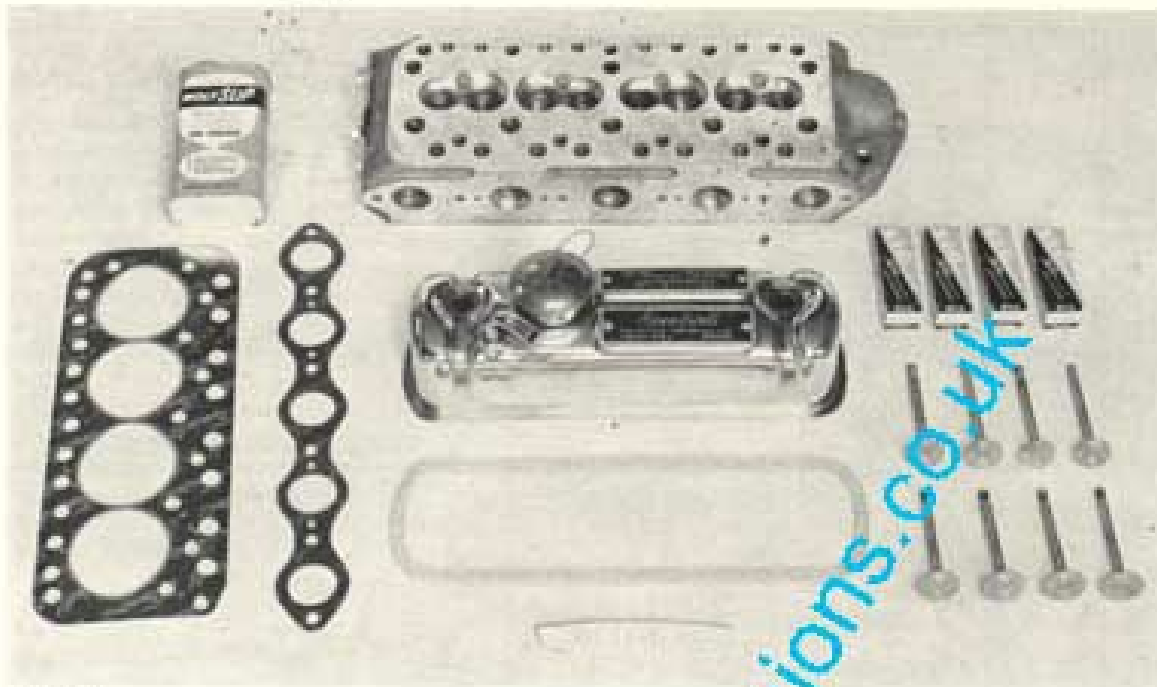


SA.1/W

The Double-choke Weber Sport kit gives a remarkable power gain with good fuel economy and retention of tune.

Max. speed	0-50	0-60
81 m.p.h.	12.0 secs.	17.5 secs.
Approx. fuel consumption—37 m.p.g.		

● 12 Months Guarantee ●



GT Kits

The GT kit consists of all the parts in the Sport kit plus the following:—

Speedwell Alloy cylinder head, Type 1GT

Valve guides (fitted)

Inlet valves in EN 52 steel

Exhaust valves in KE 905 steel

Special gasket set

Plated rocker cover and Sparking plugs



Performance Data

SU—GT kit—Cat. No. GT.A1

Combining the Speedwell alloy cylinder head with SU carburetors, this kit will equal standard Mini-Cooper performance at economical cost.

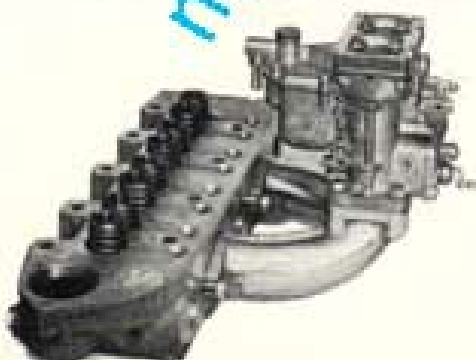
Max. speed	0-50	0-60
84 m.p.h.	11.4 secs.	16.5 secs.
Approx. fuel consumption—36 m.p.g.		



Amal—GT Kit—Cat. No. GT.A1/A

The most powerful engine kit for the Mini enthusiast. Amal carburetors and alloy cylinder head together will, under slightly favourable conditions, take the speedo right "off the clock."

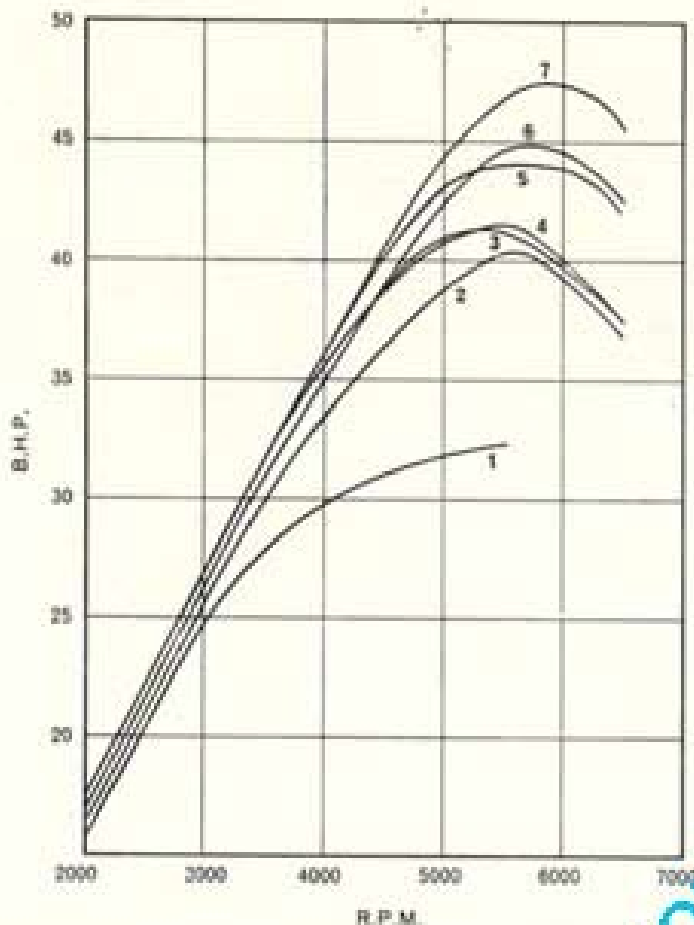
Max. speed	0-50	0-60
86 m.p.h.	10.6 secs.	15.4 secs.
Approx. fuel consumption—34 m.p.g.		



Weber—GT Kit—Cat. No. GT.A1/W

Remarkable acceleration is the feature of the neat installation provided by this kit combining the Weber carburettor and Speedwell Alloy cylinder head.

Max. speed	0-50	0-60
83 m.p.h.	11.4 secs.	16.6 secs.
Approx. fuel consumption—36 m.p.g.		



Actual brake horsepower curves taken from examples of the various Speedwell kits fitted to an 850 c.c. Mini power unit.

- 1 850 c.c. BMC Mini
- 2 With Speedwell SU Sport-kit
- 3 With Speedwell Weber Sport-kit
- 4 With Speedwell Amal Sport-kit
- 5 With Speedwell Weber GT-kit
- 6 With Speedwell SU GT-kit
- 7 With Speedwell Amal GT-kit

Fuel

90 Octane petrol available in most European countries and equivalent to British 'Premium' grades is suitable for both Sport and GT kits. For maximum performance from GT kits, however, 100 Octane is recommended.

Order Reference

Packing Data

Description	Cat. No.	Size	Gross Weight
SU Sport Kit	SA.1	36" x 12" x 5" (90 x 30 x 12.7 cm)	20 lb. (9 Kg.)
Amal Sport Kit	SA.1/A	" " " " "	24 lb. (10.8 Kg.)
Weber Sport Kit	SA.1/W	" " " " "	28 lb. (12.6 Kg.)
SU GT Kit	GT.A1	39" x 19" x 7" (100 x 48.2 x 17.8 cm)	40 lb. (18 Kg.)
Amal GT Kit	GT.A1/A	" " " " "	44 lb. (20 Kg.)
Weber GT Kit	GT.A1/W	" " " " "	48 lb. (21.8 Kg.)

NOTE:

When ordering for Mini-Traveller, Van affix letters TF to Cat. No. i.e. GT.A1/TF. For (Elf or Hornet) Letter E i.e. SA.1/E.