

**ALEXANDER**  
CONVERSIONS

## AUSTIN-HEALEY SPRITE

### STAGE I

#### ALEXANDER CONVERSION

The aerodynamic values of the production open, two-seater sports cars are very similar, regardless of engine size, and the Sprite is no exception. The power required to attain 100 m.p.h. is also similar and it therefore follows that a combination of increased engine output and improved aerodynamic values, allied with the low laden weight of the Sprite, can produce a performance out of all proportion to the first cost of the motor car, providing that the necessary modifications can be carried out at reasonable cost without sacrifice of reliability.



ENGINE CONVERSION SHOWING COLD AIR BOX

With such an attractive target, the Alexander Development Department, after extensive investigation of the Sprite, now feel justified in claiming to have produced a car which is really exciting.

For every-day road use with no sacrifice whatever of flexibility or reliability, the Stage I Alexander Conversion, on normal Premium petrol, offers over 90 m.p.h. with the hood and side screens erected and over 85 m.p.h. in open trim with quite remarkable acceleration.

The addition of an Alexander Cold Air Pressure Box (fitted as an extra) adds 3 m.p.h. to this figure by liberating an extra 5—6 B.H.P. from the engine, again with no sacrifice.

#### ALEXANDER STAGE I CONVERSION SPECIFICATION

- (a) A set of specially designed Alexander high compression pistons offering improved performance on Premium fuel and reduced friction horse power.



THE ALEXANDER SPRITE

- (b) Extensively modified cylinder head of high flow efficiency giving compression ratio of 9.4:1 with the special pistons is equipped with specially designed large valves and springs. The head is now supplied complete with valves, springs, etc., fully assembled. The exhaust valves are of K.E. 965 steel and the inlet valves are of Silichrome steel.
- (c) Specially developed inlet manifold of optimum length, flexibly mounted to cylinder head to improve carburation efficiency and embodying the

latest developments in balance pipe design.

(c) Modified exhaust manifold incorporating newly developed full flow centre port adaptor.

(f) Twin S.U. 1½" carburettors.

The Alexander Cold Air Pressure Box may be fitted as an extra; this incorporates an air filter screen, cold air intake from the radiator grill and float chamber pressure balance tubes.

#### ALEXANDER SPRITE

An "Alexander Sprite" is available and this embodies special features.

The car is fitted with the basic Stage I Conversion with the addition of the Cold Air Box. The fly wheel is lightened and, together with connecting rods and crank shaft, is balanced. The "Alexander Flash" is painted on the sides and special wheel discs with Alexander emblems are fitted.

#### ALEXANDER RACING SERVICE

The Company will undertake specialised modifications and tuning for owners who wish to use their cars for racing and competitions. Each order will receive individual attention and the work carried out to the customer's special requirements.

#### STAGE I PERFORMANCE FIGURES

Standard	Standard Alexander Conversion	Alexander Conversion (Aero-screen)
Acceleration through gears		
0—30 m.p.h. 5.4 secs.	4.6 secs.	4.2 secs.
0—50 m.p.h. 13.0 secs.	10.8 secs.	9.4 secs.
0—70 m.p.h. 33.8 secs.	22.0 secs.	19.2 secs.
Standing quarter-mile		
21.0 secs.	19.6 secs.	19.2 secs.
Maximum speed		
80 m.p.h.	89 m.p.h.	98 m.p.h.
Maximum speed (one way)		
82 m.p.h.	92 m.p.h.	100 m.p.h.
Overall fuel consumption		
32 m.p.g.	29 m.p.g.	—

The above figures were taken from MOTOR RACING and published in their January, 1959, issue.

#### PRICE LIST

Stage I Sprite	... ..	£71 10 0
Fitting Charge	... ..	£15 0 0
Cold Air Box	... ..	£15 0 0
Fitting Charge	... ..	£2 10 0

(N.B. A deposit of £15/0/0 is charged in addition to the above, pending the return, carriage paid, of the displaced cylinder head, complete with valve guides only, carburettors inlet manifold, and air cleaners in good condition at these Works within 30 days).

If the Cold Air Box is supplied with the engine conversion the price is £13/10/0, plus £2/10/0 fitting charge.

Crankshaft and flywheel balancing can be carried out by special arrangement.

The H.C. pistons supplied with this kit are designed to fit standard bores. If the vehicle has exceeded 10,000 miles the possibility that the bores have worn oversize should be considered. The cylinder at the maximum dimension should not exceed 2.4806" diameter.

**ALEXANDER ENGINEERING CO. LTD.**

**HADDENHAM, BUCKINGHAMSHIRE, ENGLAND**

**Tel.: HADDENHAM, BUCKINGHAMSHIRE, 345/6.**

*Stage 1 head only £25*