



Austin SETEN & Morris MINI-MINOR, Austin A.35, A.40, Minor 1000

ADDED PERFORMANCE CONVERSION, STAGE I.

SPECIFICATION

ALEXANDER 'ADDED PERFORMANCE' ENGINE CONVERSION

Cylinder head is modified and re-shaped to give full gas flow with modified ports and polished combustion spaces, Compression ratio is raised to 8.9: 1. Special valve springs are fitted to give higher engine r.p.m. without valve Twin 14" S.U. semi down draught carburettors are fitted on specially designed

high efficiency inlet manifolds.

An individual non-restriction air filter is fitted to each carburettor.



CENTRE PORT EXHAUST CONVERSION

Nat needed for A.7, Mini-Minor or Minor 1000 after Engine No. 9MUH/441401 The existing siamese port is machined off the manifold, and a new type full flow centre exhaust manifold port adaptor is bolted on in its place, which allows a much improved gas flow from the cylinder head.

AXLE CONVERSION A.35, A.40 & MINOR 1000 ONLY Axle ratio can be changed from 4.5:1 to 4.2:1, and these parts are supplied with a recalibrated speedometer.

PERFORMANCE FIGURES

A.35, A.40 & MINOR 1000

Performance figures for the Stage I Conversion on these models are, of course, slightly diff-

Acceleration through gears.	* Stundard	Converted.
0-30 m.p.h.	6.8 secs.	5.8 secs.
0-40 m.p.h.	11.6 secs.	8.0 secs.
0-50 m.p.h.	18.7 secs.	13:2 secs.
0-60 m.p.b.	30.1 secs.	17.8 secs.
0-70 m.p.h.		28,5 secs.
0-80 m.p.h.		39,5 secs.
Maximum in top gear.	73.2 m.p.h.	80+ m.p.h.

PERFORMANCE FIGURES

AUSTIN SETEN & MINI-MINOR

SATEST ARM PROST SHITABLE VEHICLES FOR MEDI-	an road conditions.	
Acceleration through gears.	* Standard	Converte
0-30 m.p.h.	6,2 secs.	4,9 secs
0-40 m.p.h.	10,0 secs.	6.9 socs
0-50 m.p.h.	16.9 secs.	12.9 sect
0-60 m.p.h.	26.5 secs.	18.7 secs
0-70 m.p.h.		30.5 secs.
Maximum Speed	72/7:m.p.h.	84 in.p.

STAGE II ALEXANDER CONVERSIONS

A.35, A.40 & MINOR 1000 only

The conversion consists of special pistons developed by the Alexander Engineering Company, a modified head of exceptional efficiency incorporating special valves of increased diameter and flow coefficient and special valve springs. A resonant manifold mounting twin 14" S.U. carburettor is fitted.

With standard 4.55 axle ratio a cruising speed of 80 m.p.h, can be maintained with a true 90 m.p.h. available when conditions permit. Acceleration through the operating range is vastly improved and, on long journeys, the ease with which high averages can be held is only matched by cars of considerably greater cost. In dense truffic compact dimensions and intermediate gear performance offer advantages with which few cars can compete.

Optional fitting of a 4.2 axle ratio offers the quieter highspeed running associated with an overdrive, at the same time permitting high maximum speeds in intermediate gears. Top speed, however, is reduced by 3-4 m.p.h. Long distance drivers may nevertheless prefer the lower engine noise level and slightly improved fuel economy offered by this ratio.

					75.00
Austin A.35					£69-10-0
Minor 1000					£69-10-0
Fitting Extra					75-0.0

PRICE LIST Complete set of parts for Alexander 'Added Performance' Engine Conversion	£37		00
Deposit of £10.00 is charged in addition, pending return, carriage paid, of displaced cylinder head, complete with valve guides only, carburettor, inlet manifold, and air cleaner in good condition at these Works within 30 days.			
Complete Alexander Centre Exhaust Port conversion fitted on manifold Deposit of £2/0/0 is charged in addition, pending return, carriage paid, of displaced exhaust manifold in good condition at these Works within 30 days.	£2	10	0
Complete set of parts for Alexander Centre Exhaust Port conversion	£1	10	0
Complete set of Axle parts including recalibrated speedometer	£15	0	0
Returnable packing case	£2	0	0

Fitting Extra

ALEXANDER ENGINEERING COMPANY LIMITED HADDENHAM, BUCKS, ENGLAND - Telephone HADDENHAM, BUCKINGHAMSHIRE 345/6

ALEXANDER MOTORTUNE LTD., 6 ADAM & EVE MEWS. KENSINGTON HIGH STREET, LONDON, W.8. Tel. WESTERN 1166.

ALEXANDER CONVERSIONS LTD., off ST. PAUL'S SOUARE, In CAROLINE STREET, BIRMINGHAM, 3 Tel. CENTRAL 0665



B.M.C. "A" Type Engines

ALEXANDER

ADDED PERFORMANCE CONVERSIONS









MINI MINOR DE-LUXE & SUPER AUSTIN MINI DE-LUXE & SUPER RILEY ELF WOLSELEY HORNET



MINI DE-LUXE & SUPER
AUSTIN MINI DE-LUXE & SUPER
WOLSELEY HORNET
RILEY ELF



STAGE 1 SPECIFICATION

The cylinder head is extensively modified, completely reshaped and highly polished. The ports are also modified, gas flowed and highly polished. The compression ratio is raised to 9:1. Two 1½" semi down draught S.U. carburettors are fitted on to a specially designed and air flowed manifold. These are fitted with all necessary fuel pipes, throttle and mixture linkages and two non-restriction air filters. The whole of the induction system is completely assembled ready for fitting and the kit of parts is supplied complete with a new set of gaskets.

Performance Figures

Acceleration through gears	*Standard	Converted
0-30 m.p.h.	6.2 secs-	4.9 secs.
0-40 m.p.h.	10.0 secs.	6.9 secs-
0-50 m.p.h.	16.9 secs.	12.9 secs.
0-60 m.p.h.	26.5 secs.	18.7 secs.
0-70 m-p.h.	-	30.5 secs.
Max. Speed	72.7 m.p.h.	84 m.p.h.

WHAT IT WILL COST

Complete set of parts for 'ALEXANDER' added performance engine conversion. £45 0 0
The above conversion is the basic conversion for the Mini range and has been specially designed by Alexander to give really lively acceleration and increased performance. Alexander have however, designed two extra conversions which give even greater performance to these superb cars

STAGE 1A

As Stage 1 but with the addition of a specially designed camshaft giving excellent flexibility, greater acceleration and higher cruising speed.

STAGE 1B

As Stage Ia but for the enthusiast who looks for still greater performance without sacrificing smoothness and flexibility. ALEXANDER have designed a complete free flow exhaust system including a 3 branch exhaust manifold.

£72 10 0

FITTING EXTRA

A deposit of £12,10.0 is charged in addition pending return carriage paid of

ror those contemplating higher degrees of tune at a later date we recommend starting with a Stage II Conversion

disp and day	placed cylinder head, complete with valve guides of exhaust manifold and air cleaner in good cones. owance against return of displaced camshaft in	nly, ca lition	at or	ettor, in	ks with	iifold in 21	£2	0	0
ST	AGE 1 is available in unassembled component pa	rts.		1910	534	***			
*	Modified cylinder head with rocker piller shims (nge)			222	£17	10	0
*	Property of the second	***	(999)	981	***	***	£ 1	10	0
*	Complete set of gaskets,			***	444	***		13	-0
*	Cast alloy inlet manifold with integral balance p			1 S.U.	carbure	ttors.	10000		100
	heat insulators, fuel pipes, throttle and mixture			***	***	***	£19	10	0
*	Modified exhaust manifold, permitting the	fitting	, of	twin	carbure	ttors.			
	(exchange)				***	237	£1	0	0
*	Pair of specially developed air filters for this c	onver	sion	***	***	111	£2	1000	0
*	Soundproof speedometer appature blanking plate	asser	nbly	011	0.10	200	-	10	0
*	Ratchet type choke control	***	111			222	£1		0
*	Breather pipe-Rocker cover to air filter	***	***	***	***	444		10	0

BUY YOUR NEW CONVERTED '1

Ready to drive away complete with Heater, Washers, Plates, Deli

MINI STAGE TWO

MINI DE-LUXE & SUPER AUSTIN MINI DE-LUXE & SUPER WOLSELEY HORNET RILEY ELF



STAGE 2 SPECIFICATION

This brand new conversion using entirely differently designed cast iron cylinder head is supplied with larger inlet and exhaust valves fitted with formula junior valve springs. Completely modified, inlet and exhaust ports and combustion spaces which are highly polished and air flowed for maximum efficiency comp. ratio. 9.3:1. Two 14" S.U. carburettors are mounted on a specially designed fully airflowed light alloy inlet manifold. Individual non restriction pancake type air filters are fitted. The cylinder head is supplied completely assembled ready for fitting as is the whole of the induction system. A complete decoke set of gaskets is included.

WHAT IT WILL COST

Complete set of parts for Alexander Stage II Conversion	()		CER 3	***	£56 10 0
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STAGE II A

As stage 2 but with the addition of a sp	pecially designed	camshaft	giving	excellent		
flexibility, greater acceleration and hishe	r cruising speed	***	60 5		£70 (0

STAGE IIR

For the connoisseur	who looks for	r the ultimate	in Road Pe.	rformance without
sacrificing flexibility	or smoothness	ALEXANDER	R have added	a completely new
free flow exhaust syste				

		- 0

STAGE	II.B	Performance	Figures

M.P.H.	Standard	Converted
0-30	6.2 secs.	4.0 secs.
0-40	10.0 secs.	6.4 secs.
0-50	16.9 secs.	10.0 secs.
0-60	26.5 secs.	14.1 secs.
0-70	_	20.0 secs.
0-80	-	34.4 secs.

FITTING EXTRA

A deposit of £12.10.0 is charged in addition, pending the return, carriage paid of displaced cylinder head, complete with valves etc., carburettor, inlet manifold, and air cleaner in good condition at our works within 21 days.

Allowance against return of displaced camshaft in good condition, carriage paid.

£ 2 0 0

COMPETITION EXTRAS

For the enthusiasts who wish for even greater performance than the stages shown on this leaflet the items and specialist work quoted below will be of special interest. However should you wish to take advantage of these items to own a really SUPER MINI do let us know your specific requirements and we should be only too pleased to quote, and advise you.

1	Balance engine components—Crankshaft, flywheel, clutch, con rods, pistor Extra charge for stripping and rebuilding engine, any faulty parts will		£15	0	0
-	renewed and charged at maker's normal price		£12 1		
3	Extra charge for removing engine from car and refitting Line Bore cylinder block and fit camshaft bearings, if carried out who	en en	£ 5 1	10	0
T	engine is stripped		£ 8 1		
5	Sports camshaft Three branch exhaust system, manifold complete with silencer and pip	***	£13	100	100
7	Oil cooler kit complete	111	£12	-	
8	Cossial anti-fada linings for No. 9		£13	0.000	1000
10	Special racing valve springs (set)		£ 2	0/08/	200

MINI' "THE ALEXANDER WAY"

ALEXANDER APPROVED EXTRAS

*	Bucket seats trimmed to match inter	rior-e	ach		1444	111	1444	£12	10	0
*	Silent Travel complete kit gives perfect	et sour	nd proc	ofing f	itted			£ 6	5	0
*	Rev. Counters. Electronic, fitted with					his figu	re is			
	reached a green warning light comes	on	444		***	***	***	£18	18	.0
*	Remote control gear change-from					***	***	£7	10	0
*	Chrome guttering strip		100	-			444	£ 2	0	0
*	Wood rim steering wheels-from	144			100		***	£ 5	19	6
*	Roof Racks. Rigid enamelled-from	11444		711				£ 4	10	6
	Continental Type-from				***		111	£ 5	12	6
*	Typoid Link Mats. Full set including l				***	144		£ 6	10	1
	Front set only including Purchase T							£ 4	0	1
*	Wind Horns. Mixo Junior Horns, High		rating	Note		1111	***	£ 3	15	0
*	Remote control interior door handles				t of do	or (per	pair)	£ 2	5	0
*	Mud Flaps			***				£ 1	15	0
*	Fresh Air Heater as fitted on export of			1000	0.000	100	220	£18	18	0
*		444	1444					£ 6	8	0
*	Competition wheels for early models-							£ 2	5	0
*	Interior sun visors		***			1444	110		7	6
*	Safety belts B.M.C.—each		322	***	-	***		£.5	0	0
*	Safety belts other types						-	Pric	ce o	n
*	De Luxe Type Remote control Gear			2000				appli	cati	on
*	Radiator mufflers	***	344		***	200	***	£ 2	2	0
*	Locking petrol cap							£ 1	3	4
*	Fire extinguishers B.M.C		***		1000	1000	***	£ 1	19	6
*	Chrome tail pipe extensions		1444		211	-0.0	444		11	6
*	Deflector tail pipe chrome extensions						114		15	6
*	12 volt Rear Window demister, chrom		***		0.00		444	£ 1	19	6
*	Chrome Badge Bar			111	-	***	212	£ 1	12	6
*	Long Range petrol tanks -each						449	£ 9	17	6
							10000			
	THE FOLLOWING ITEMS ARE AVA	MLAB	LE FC	OR RA	ACING	ONLY				
1	Alloy crossflow head with inlet manifold			Carbu	rettors	111	244	£90	0	0
2	Pair of 14" S.U. Carburettors with lin	kages	etc.	***			444	£25	15	0
3	A new type bonnet is required if 11" 5	S.U. ca	rburett	ors ar	e used	(unpair	nted)	£13	10	0
4	Road racing camshaft				1444	177	***	A 100 (100 (100 (100 (100 (100 (100 (100	10	0
5	Special distributor for item 4 above		1000					£ 8	14	0

ALEXTRACTER A MUST FOR YOUR MINI

More engine power available
Maximum extraction of exhaust gases
Improves fuel consumption

59/6

When ordering conversions or set of parts, customers are requested to give the car registration number, date of registration, engine and chassis numbers. All prices are quoted ex works, packing and carriage extra. The Company reserve the right to alter prices and specification without prior notice.

ALEXANDER ENGINEERING CO. LTD. HADDENHAM, BUCKINGHAMSHIRE, ENGLAND Tel.: HADDENHAM, BUCKINGHAMSHIRE 345/6

ALEXANDER-MOTORTUNE LTD.

6 ADAM & EVE MEWS.

KENSINGTON HIGH STREET,

LONDON, W.8. Tel. WESTERN 1166

ALEXANDER CONVERSIONS LTD.,

la CAROLINE STREET.

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