

BARWELL MOTORS LIMITED
LEATHERHEAD ROAD, CHESSINGTON, SURREY
::: EPSOM 5353 :::

- BARWELL MOTORS CONVERSIONS -

- for -

B.M.C. A - Type Engines .

A 35, A 40, A.H. Sprite, Minor 1000

Stage 1. Cylinder Head Modification. Modified and polished combustion chambers. Compression ratio raised to 9.0:1. Standard valves modified. Port throats enlarged: Cost: £12. 10. 0.

Fitting costs, including gaskets and tuning:-
A 35 - £7; A 40 - £7; Sprite - £8; Morris 1000 - £7.

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Stage 2. Cylinder head modified: Enlarged, reshaped and highly polished inlet ports, exhaust ports and combustion chambers. Valve throats enlarged. Special large inlet valves fitted. Compression ratio raised 9.5:1. Induction manifold modified to match ports. Special valve springs fitted. Cost: £26. 10. 0.

Fitting costs, including gaskets and tuning:-
A 35 - £7; A 40 - £7; Sprite - £8; Morris 1000 - £7.

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Stage 3. Cylinder head as Stage 2. together with special combined inlet-exhaust manifold designed for maximum gas flow and extraction. Twin H2 S.U. carbs. fitted complete with pipes and connections.

Cost: £56. 10. 0.

Fitting costs including gaskets and tuning -
A 35 - £12; A 40 - £12; Sprite - £12; Morris 1000 - £12.

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Stage 4. As stage 3. but with H 4 - S.U. carbs. and special exhaust system and silencer. Engine removed and dismantled. Flywheel lightened. Push rod and valve gear lightened. Crank shaft balanced. Special H.C. pistons fitted, rods and pistons balanced, special high lift camshaft and special distributor fitted. Engine reassembled, fitted in car and tuned ready for racing

Cost: £140. 0. 0.

Time required: 4 days.

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Cylinder head supplied on exchange basis.

Order Stage tune required and send cost of stage plus £8.0.0.

On receipt of your cylinder head in good order this deposit will be returned less carriage costs.

Special Equipment: for B.M.C. Engines.

Special close ratio gears ...	£ 37. 10. 0.
Twin H2 S.U. carbs. complete with special inlet, exhaust manifold	29. 0. 0.
Special extractor inlet/exhaust manifold	13. 0. 0.
H.C. Pistons: Standard to +060"	7. 10. 0.
Special camshaft ...	7. 0. 0.
Special Distributor: exchange	4. 10. 0.
Exhaust system with silencer	5. 10. 0.
Anti Roll Bars from ...	7. 10. 0.
8" Brake conversions fitted from	18. 10. 0.
Oil coolers, complete with fittings	19. 0. 0.
Special oil pumps ...	2. 10. 0.
Lightened valve (gear exchange)	5. 0. 0.
Lightened pushrods ...	5. 0. 0.
Lightened flywheel (exchange) ...	3. 0. 0.
Fibre-glass hard top for Sprite sprayed Black - fitted ...	32. 0. 0.
Fibre-glass bonnets for Sprite: Complete - fitted and sprayed in matching colour - complete with lamps: weight reduced by 2/3 under standard	43. 0. 0.
Two tone colour conversion with bonnet flash for Sprite ...	12. 10. 0.

Variations on all stages can be undertaken and quotations given for special work.

R E M E M B E R !!

B.M.C. (BARWELL MOTORS CONVERSIONS) for B.M.C. Engines.

PERFORMANCE DATA

Top gear acceleration figures taken to eliminate gear change variations.

	H.P.H.	Standard Car	Stage 1.	Stage 2.	Stage 3.	Stage 4
<u>A 35</u>	20-40	12.8s.	12.6s.	12.1s.	11.6s.	10.5s.
	30-50	12.5s.	12.0s.	11.2s.	11 s.	10.2s.
	40-60	16.6s.	14.5s.	12.2s.	11.1s.	10.1s.
	50-70	23.2s.	20.8s.	17.8s.	13.2s.	10.6s.
	60-80	...	28.6s.	25.0s.	17.0s.	10.8s.
<u>A 40</u>	20-40	11.2s.	11.2s.	11.0s.	11.6s.	10.0s.
	30-50	12.4s.	11.6s.	11.1s.	10.4s.	9.5s.
	40-60	15.9s.	13.8s.	12.2s.	11.2s.	9.3s.
	50-70	24.0s.	20.1s.	16.8s.	14.3s.	10.0s.
	60-80	...	28.0s.	23.2s.	16.3s.	10.6s.
<u>Sprite</u>	20-40	12.6s.	11.6s.	11.0s.	10.3s.	9.3s.
	30-50	12.9s.	11.8s.	11.0s.	9.5s.	8.5s.
	40-60	14.9s.	12.5s.	11.2s.	9.4s.	8.6s.
	50-70	19.2s.	16.0s.	14.5s.	11.6s.	8.5s.
	60-80	25.3s.	21.5s.	19.1s.	13.0s.	9.3s.
<u>MORRIS 1000</u>	20-40	14.2s.	12.2s.	11.5s.	10.5s.	10.8s.
	30-50	17.1s.	14.0s.	12.5s.	11.1s.	10.5s.
	40-60	20.6s.	15.1s.	13.4s.	11.2s.	10.2s.
	50-70	28.6s.	20.8s.	18.1s.	14.8s.	11.1s.
	60-80	...	29.0s.	25.3s.	16.8s.	11.6s.

NOTE: All cars tested with TWO occupants: Approx. 30 stone.
Standard axle ratios and tyres.