



SPECIAL TUNING DATA



Issued by: The BRITISH MOTOR CORPORATION LTD.

SPECIAL TUNING DEPARTMENT, Abingdon, Berkshire, England

BMC STAGE I TUNING KITS

Sheet Y - 1

Issue 2

GREATER FLEXIBILITY AND ECONOMY WITH FULL BMC WARRANTY BACKING

B.M.C. now has available Stage I Tuning Kits for the SINGLE CARBURETTOR front-wheel-drive range of cars. These conversions, which use mainly standard parts, are offered on the 850 and 998cc Mini, 1100 and 1300, and early 1800 models, (not Mk.II) whether with automatic or manual transmission and are backed by full BMC Warranty.

The tuning kits are supplied by BMC Special Tuning Department through the BMC worldwide Distributor/Dealer network.

INCREASED POWER WITH IMPROVED FLEXIBILITY AND ECONOMY

The object of these conversions is to provide greater power throughout engine-speed range thus giving better flexibility and response to the throttle. This makes the cars more pleasant to drive and, by giving increased power where it is most needed, improves their already renowned safety qualities.

Performance tests indicate that there is a general increase in power varying between 16 and 21 per cent, depending upon the model concerned. This extra power throughout the speed range means that there is from 20 to 25 per cent more power available for acceleration - a most important factor in the overcrowded conditions which exist on most roads today.

The increased flexibility with the Stage I conversions, in conjunction with the $9\frac{1}{4}$ to 1 compression ratios, can also give an improvement in overall fuel consumptions. This improvement, under comparative cruising conditions, will be in the order of 12 to 15 per cent.

HOW IT'S DONE

Cylinder heads are prepared by hand to give perfect combustion shape, balancing together porting form and finish to optimise flows. The heads are then carefully packed by BMC Special Tuning Department who supply them via Distributor/Dealer to order, who are responsible for fitting them, as new cars cannot be converted at the Factory.

All the kits contain a polished manifold and cylinder head, fully assembled with valves, springs, studs, joints, plugs, and detailed fitting instructions. With the exception of the Mini range, the kits are supplied with a new complete exhaust system, designed to minimise power loss whilst giving ample silencing. The 998cc Mini Kits are supplied with just a new silencer assembly. Slight variations for the Traveller and Countryman are catered for by adding suffix A to Part Number when ordering.

DESCRIPTION AND PART NUMBERS

850cc Mini Manual Stage I Kit	C-AJJ 3343
850cc Mini Automatic Stage I Kit	C-AJJ 3347
998cc Mini Manual Stage I Kit	C-AJJ 3346
998cc Mini Automatic Stage I Kit	C-AJJ 3345
1100cc Manual Stage I Kit	C-AJJ 3342
1100cc Automatic Stage I Kit	C-AJJ 3348
1300 Manual & Automatic Stage I Kit	C-AJJ 3344
1800 (Mk.I only) Manual & Automatic Stage I Kit	C-AJJ 3341

IMPORTANT: Tuning of the kind described on this sheet is expressly excluded by the terms of the Warranty of the vehicle manufacturer.



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BMC STAGE I TUNING KITS

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B.M.C. STAGE I PERFORMANCE FIGURES

Comparison between Standard Production and B.M.C. Stage I

		850cc Mini		998cc Mini		1100 range		1300 range		1800 Mk.1 only	
		Std.	Stage I	Std.	Stage I	Std.	Stage I	Std.	Stage I	Std.	Stage I
M.P.H.	K.P.H.	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs
20 - 40	32 - 64	15.7	13.7	11.97	10.9	12.1	12.82	12.5	11.75	11.3	10.1
30 - 50	48 - 80	16.6	14.85	13.6	12.0	13.0	12.6	13.0	11.12	12.2	10.85
40 - 60	64 - 96	23.0	20.12	17.0	14.5	16.8	15.75	16.8	12.85	12.3	11.65
50 - 70	80 - 113					26.9	21.7	24.4	14.55	14.5	12.5
60 - 80	96 - 129								21.85	19.6	15.15

ACCELERATION IN TOP GEAR (MANUAL GEARBOX)

ACCELERATION THROUGH GEARS FROM REST (MANUAL GEARBOX)

		Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs
M.P.H.	K.P.H.	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs
0 - 30	0 - 48	7.4	5.4	4.8	6.3	5.9	4.27	5.1	4.27	5.07	4.25
0 - 40	0 - 64	12.9	9.0	7.7	9.7	8.65	6.92	8.0	6.92	7.77	7.15
0 - 50	0 - 80	19.6	13.9	11.5	15.2	13.05	9.55	11.4	9.55	11.67	9.97
0 - 60	0 - 96	33.8	22.5	17.5	21.7	19.75	13.8	17.5	13.8	16.67	12.25
0 - 70	0 - 113				39.8	32.75	19.82	27.1	19.82	22.1	21.82
0 - 80	0 - 129						31.67		31.67	33.43	27.67

MAXIMUM TOP SPEED

M.P.H.	72	78	74	78	77.5	82	86.8	91	91.8	97.0
K.P.H.	116	125	119	125	125	132	140	146	148	156



SPECIAL TUNING DATA

Issued by: BRITISH LEYLAND SPECIAL TUNING DEPARTMENT
ABINGDON-ON-THAMES • BERKSHIRE • ENGLAND

STAGE I TUNING KIT CONTENTS

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MODEL		1800 Mk.I	1100 Man.	850 Man.	1300	998 Auto.	998 Man.	850 Auto.	1100 Auto.
KIT PART NO.	QTY	C-AJJ 3341	C-AJJ 3342	C-AJJ 3343	C-AJJ 3344	C-AJJ 3345	C-AJJ 3346	C-AJJ 3347	C-AJJ 3348
Cylinder Head Assy.	1	C-AHT 100	C-AHT 90	C-AHT 87	C-AHT 134	C-AHT 87	C-AHT 87	C-AHT 87	C-AHT 141
Valve Guide - Inlet	4	C-AEH 755	-	-	-	-	-	-	-
Valve Guide - Exhaust	4	C-AEH 756	-	-	-	-	-	-	-
Valve Guide - In./Ex.	8	-	12A 186	12A 186	AEA 627	12A 186	12A 186	12A 186	12A 186
Valve - Inlet	4	12H 435	AEA 574	2A 877	12G 941	2A 877	2A 877	2A 877	12G 796
Valve - exhaust	4	12H 436	AEA 400	AEA 434	12G 1322	AEA 434	AEA 434	AEA 434	AEA 400
Valve Spring - Inner	8	1H 723	AEA 401	-	12G 1337	-	-	-	AEA 401
Valve Spring - Outer	8	C-AHH 7264	AEA 311	AEA 311	12G 1136	AEA 311	AEA 311	AEA 311	AEA 311
Collar - Bottom	8	1H 1321	AEA 403	-	AEA 403	-	-	-	AEA 403
Cup - Top	8	12H 992	AEA 402	AEA 402	12G 943	AEA 402	AEA 402	AEA 402	AEA 402
Seal - Valve	8	AEK 113	2A 879	2A 879	AEK 327	2A 879	2A 879	2A 879	2A 879
Cotter	8	1K 800	2A 11	2A 11	12G 1059	2A 11	2A 11	2A 11	2A 11
Circlip	8	1K 372	2A 12	2A 12	-	2A 12	2A 12	2A 12	2A 12
Adaptor, By-Pass Hose	1	-	2A 243	2A 243	2A 243	2A 243	2A 243	2A 243	2A 243
Stud - Thermostat	3	53K 531	CLS 2515	CLS 2515	CLS 2515	CLS 2515	CLS 2515	CLS 2515	CLS 2515
Stud - Rocker - Short	2	51K 881	51K 1473	51K 1373	CHS 0522	51K 1473	51K 1473	51K 1473	51K 1473
Stud - Rocker - Long	2	51K 893	51K 885	51K 885	51K 885	51K 885	51K 885	51K 885	51K 885
Stud, Manifold, Short	2	FLS 2512	-	-	53K 507	-	-	-	-
Stud, Manifold, Long	4	FHS 2514	-	-	FHS 2514	-	-	-	-
Stud - Manifold	6	-	53K 487	53K 487	-	53K 487	53K 487	53K 487	53K 487
Stud - Water Outlet	2	-	53K 402	53K 402	53K 402	53K 402	53K 402	53K 402	53K 402
Inlet/Exhaust Manifold	1	C-AHT 112	C-AHT 89	C-AHT 89	C-AHT 140	C-AHT 136	C-AHT 89	C-AHT 136	C-AHT 136
Exhaust System Complete	1	C-AHT 102	C-AHT 92	-	C-AHT 92	-	-	-	C-AHT 92
Front Pipe	1	C-AHT 103	C-AHT 93	-	C-AHT 93	-	-	-	C-AHT 93
Silencer	1	C-AHT 104	C-AHT 95	-	C-AHT 95	C-AHT 129	C-AHT 129	-	C-AHT 95
Tail Pipe	1	C-AHT 105	C-AHT 96	-	C-AHT 96	-	-	-	C-AHT 96
Clip - Front Pipe	1	C-AHT 97	C-AHT 94	-	C-AHT 94	-	-	-	C-AHT 94
Bracket - Front Pipe	1	C-AHT 121	-	-	-	-	-	-	-
Clip - Silencer	1	C-AHT 106	C-AHT 97	-	C-AHT 97	C-AHT 131	C-AHT 131	-	C-AHT 97
Bracket, Silencer, Vert.	1	-	C-AHT 137	-	C-AHT 137	-	-	-	C-AHT 137
Bracket, Silencer, Horiz.	1	-	C-AHT 138	-	C-AHT 138	-	-	-	C-AHT 138
Mounting Rubber	1	-	ACA 9811	-	ACA 9811	-	-	-	ACA 9811
Bracket - Tail Pipe	1	-	C-AHT 139	-	C-AHT 139	-	-	-	C-AHT 139
Clip - Tail Pipe	1	-	-	-	-	C-AHT 130	C-AHT 130	-	-
Plug for Manifold	1	-	ADP 210	ADP 210	-	ADP 210	ADP 210	ADP 210	-
Washer for Plug	1	-	1B 3664	1B 3664	-	1B 3664	1B 3664	1B 3664	-
Joint - Cylinder Head	1	C-AEH 768	12G 293	12G 293	AEK 226	12G 293	12G 293	12G 293	12G 293
Joint - Manifold	1	1G 2417	12G 300	12G 300	AEK 181	12G 300	12G 300	12G 300	12G 300
Joint - Thermostat	1	12G 330	12G 330	1A 2149	1A 2149	1A 2149	1A 2149	1A 2149	12G 330
Joint - Water Take-off	1	88G 423	88G 221	88G 221	88G 221	88G 221	88G 221	88G 221	88G 221
Joint - Rocker Cover	1	12H 37	12A 14	12A 14	12A 14	12A 14	12A 14	12A 14	12A 14
Joint - Carburettor	3	88G 429	1G 2624	1G 2624	AEC 2183	AEC 2183	1G 2624	AEC 2183	AEC 2183
Sparking Plugs (N9Y)	4	13H 875	13H 875	13H 875	13H 875	13H 875	13H 875	13H 875	13H 875
Stud - Carburettor	2	CLS 2515	CHS 2613	CHS 2613	CHS 2516	CHS 2516	CHS 2613	CHS 2516	CHS 2516
Suction Chamber Assy.	1	-	AUD 9181	AUD 9181	-	-	AUD 9181	-	-
Spring - Blue	1	-	AUC 4587	AUC 4587	-	-	AUC 4587	-	-
Needle	1	-	AUD 1468	AUD 1227	-	-	AUD 1473	-	AUD 1111
Damper Assy.	1	-	-	AUC 8114	-	-	AUC 8114	-	-
By-Pass Hose	1	-	1A 1093	12A 1093	12A 1093	12A 1093	12A 1093	12A 1093	12A 1093
Rocker Cover Label	1	-	-	-	-	-	-	-	-
Fitting Instructions	1	-	-	-	-	-	-	-	-



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Model GENERAL

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Issue 2

B.M.C. SPECIAL TUNING PUBLICATIONS

The following literature is available to order from Abingdon via Distributors:

Special Tuning Binder (Less Sheets & Index)	C-AKD 5061
Index Divider Set complete (For Binder)	C-AKD 5093
Tuning Data Sheet Set for Binder (Includes C-AKD 5096, 5097, 5098, 5099 & 5122)	C-AJJ 3333
Tuning Booklet - Cooper 'S' (Data sheet set for this model)	C-AKD 5096
Tuning Booklet - Sprite/Midget 1098cc models (Data Sheet set for these models)	C-AKD 5097
Tuning Booklet - Sprite/Midget 1275cc (Data Sheet Set for these models)	C-AKD 5098
Tuning Booklet - 850 & 998 Mini, 997 & 998 Cooper (Data sheet set for these models)	C-AKD 5099
Tuning Booklet - 1800 range (Data sheet set for this model)	C-AKD 5122
Tuning Book - M.G.B. (49 page printed booklet)	C-AKD 4034
Tuning Booklet - Sprite Mk.I & Midget 948cc only (Lithographed reprint)	C-AKD 1021
Tuning Booklet - M.G.A. 1500cc, 1600cc (Lithographed reprint)	C-AKD 819
B.M.C. Special Tuning Rosettes (1 pair) ($3\frac{1}{2}$ inch diameter transfers)	C-AKD 5100

- * A general leaflet on B.M.C. Special Tuning, Part No. BMC 188 is available in English, French or German.
- * B.M.C. Stage I Tuning Poster 25" x 35" horizontal No. 2521
- * B.M.C. Stage I Tuning Leaflet No. 2522
- * B.M.C. Stage I Tuning Counter card No. 2523

N.B. Literature marked * is F.O.C. and should be ordered from the B.M.C. Publicity Store at Cowley. All other literature is chargeable and the usual Special Tuning order procedure should be followed.



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ABINGDON-ON-THAMES • BERKSHIRE • ENGLAND

Model

Sheet Y - 6 Issue 1

SPECIAL TUNING PIN TRAYS

These are attractive aluminium trays each having a chemically etched drawing of a Special Tuning car, taken from the detailed illustrations on the front of the Tuning Booklet covers.

The trays can be used for a variety of purposes, but many enthusiasts will be pleased to collect them as souvenirs for their home or desk.

They are individually available under Part No. C-AHT 427 but with different suffix to signify the model as follows:

C-AHT 427 A	Mini 'S'
C-AHT 427 B	MG Midget
C-AHT 427 C	MGB
C-AHT 427 D	1800 Saloon
C-AHT 427 E	Marina (see below)
C-AHT 427 F	Triumph Spitfire

Alternatively there is an Austin/Morris/MG set of 4, consisting of C-AHT 427 A, B, C & D, (1 off each) available to Part No. C-AJJ 4060.

The size is $3\frac{1}{2}$ " x 5" with a $\frac{1}{4}$ " dish to retain the contents. The illustration is in silver on a bright blue background.

NB.

In view of the popularity of the Marina tray, a new design is now being prepared showing the 1971 RAC Rally Class winning car in action. If you wish to wait for this new design, add 'RAC' Marina to the description when placing current orders, and you will then be sent the latest tray immediately they are produced. Otherwise we will supply the current tray until existing stocks are exhausted.

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LITHOGRAPHED IN ENGLAND