



SPECIAL TUNING DATA



Issued by: The BRITISH MOTOR CORPORATION LTD.

SPECIAL TUNING DEPARTMENT, Abingdon, Berkshire, England

BMC STAGE I TUNING KITS

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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 $9\frac{1}{2}$ 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
* NOT SUITABLE FOR TWIN CARBURETTOR VERSIONS	

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BMC STAGE I TUNING KITS

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B.M.C. STAGE I PERFORMANCE MEASURES

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

	850cc MINI		998cc MINI		1100 Range		1300 Range		1600 Mk.1 only	
	Std.	Stage I	Std.	Stage I	Std.	Stage I	Std.	Stage I	Std.	Stage I
ACCELERATION IN TOP GEAR (MANUAL GEARBOX)										
M.P.H.	K.P.H.	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs
20 - 40	32 - 64	15.7	13.7	11.07	10.9	12.3	12.8	11.5	11.3	10.1
30 - 50	48 - 80	16.6	14.8	13.6	12.0	13.0	12.6	12.0	12.7	10.8
40 - 60	64 - 96	23.0	20.12	17.0	14.5	16.8	15.75	16.8	17.0	11.4
50 - 70	80 - 113					26.3	23.7	24.4	26.5	12.5
60 - 80	96 - 129							21.8	21.8	15.1

ACCELERATION THROUGH GEARS FROM BEST (MANUAL GEARBOX)

	850cc MINI		998cc MINI		1100 Range		1300 Range		1600 Mk.1 only	
	Std.	Stage I	Std.	Stage I	Std.	Stage I	Std.	Stage I	Std.	Stage I
ACCELERATION THROUGH GEARS FROM BEST (MANUAL GEARBOX)										
M.P.H.	K.P.H.	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs	Secs
0 - 30	0 - 48	7.0	5.3	5.0	4.8	6.3	5.9	5.1	5.07	6.2
0 - 40	0 - 64	11.5	9.0	8.9	7.7	9.7	8.6	8.0	8.77	7.3
0 - 50	0 - 80	19.6	13.7	14.6	11.5	15.2	13.0	11.4	16.0	12.0
0 - 60	0 - 96	33.8	24.5	24.7	18.5	31.1	23.9	17.5	33.8	18.0
0 - 70	0 - 113					39.8	32.7	27.4	39.8	23.8
0 - 80	0 - 129								44.4	37.0

MAXIMUM TOP SPEED

	850cc MINI		998cc MINI		1100 Range		1300 Range		1600 Mk.1 only	
	Std.	Stage I	Std.	Stage I	Std.	Stage I	Std.	Stage I	Std.	Stage I
M.P.H.	K.P.H.	72	78	74	78	77.5	82	86.8	91	97.0
K.P.H.	K.P.H.	116	125	110	125	125	137	140	146	156

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SPECIAL TUNING DATA



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SPECIAL TUNING DEPARTMENT, Abingdon, Berkshire, England

Model GENERAL

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B.M.C. SPECIAL TUNING PUBLICATIONS

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

Special Tuning Binder (Less Sheets & Index)	C-ARD 5061
Index Divider Set complete (For Binder)	C-ARD 5095
Tuning Data Sheet Set for Binder (Includes C-ARD 5096, 5097, 5098, 5099 & 5100)	C-ARD 5137
Tuning Booklet - Cooper 'S' (Data sheet set for this model)	C-ARD 5096
Tuning Booklet - Sprite/Midget 1098cc models (Data Sheet set for these models)	C-ARD 5097
Tuning Booklet - Sprite/Midget 1275cc (Data Sheet set for these models)	C-ARD 5098
Tuning Booklet - 850 & 998 Mini, 997 & 998 Cooper (Data sheet set for these models)	C-ARD 5099
Tuning Booklet - 1800 range (Data sheet set for this model)	C-ARD 5100
Tuning Book - M.G.B. (49 page printed booklet)	C-ARD 4058
Tuning Booklet - Sprite Mk.I & Midget 948cc only (Lithographed reprint)	C-ARD 1071
Tuning Booklet - M.G.A. 1500cc, 1600cc (Lithographed reprint)	C-ARD 825
B.M.C. Special Tuning Rosettes (1 pair) (3 1/2 inch diameter transfers)	E-ARD 1100

- * 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.



SPECIAL TUNING DATA

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ABINGDON-ON-THAMES · BERKSHIRE · ENGLAND

Model GENERAL

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AIDS TO TOWING

Stability with Hydrolastic Comfort

Special progressive Rear Bump Stop Kits were originally designed for the severe stresses of international car rallies. The Mini ones were used on the Monte Carlo Rally winners, and 1800's in the London-Mexico World Cup Rally were similarly fitted with the same parts as listed here. They will support the extra weight on the rear when towing or carrying heavy loads, yet be unobtrusive when driving without the weight and should not be confused with certain other assistors currently on the market.

1800 range	Part No.	C-AJJ 3355
1100 & 1300 range	" "	C-AJJ 3386
Mini, Mini Cooper, Cooper 'S', 1275GT & Clubman (Hydrolastic only)	" "	C-AJJ 3313
Austin Maxi (Mk.I only)	" "	C-AJJ 4024
Austin Maxi (Mk.II)	" "	C-AJJ 4061

Adequate Cooling

Your car radiator will be able to cope with the additional load if maintained in good condition, but to keep your oil temperature at the best level an oil cooler is strongly recommended. Once again these have been fully tested under extreme conditions of car rallying and will ensure that your oil will withstand the increased loading.

1800 Morris, Wolseley & Austin	Part No.	C-AJJ 3337
1100 & 1300 range	" "	C-AJJ 3384
Mini, Mini Cooper & 'S'	" "	C-AJJ 3309
Mini Clubman & 1275 GT	" "	C-AJJ 4032
Austin Maxi	" "	C-AJJ 4021

More Pulling Power without affecting the Warranty

Single carburettor models do not give such high speed performance as twin carburettor models, but their low speed pulling power can be made much better by fitting BMC Stage I Tuning Kits. These consist of a polished fully assembled cylinder head, and in most cases a complete new free flow exhaust system. Note that certain Automatic Transmission versions are different.

The performance kits below consist of twin carburettor conversions for the models listed, and again the new car warranty is NOT affected.

Stage I Kits

850 cc Mini, Manual Gearbox	Part No.	C-AJJ 3343
850 cc Mini, Automatic Gearbox	" "	C-AJJ 3347
998 cc Mini & Clubman Manual Gearbox	" "	C-AJJ 3346
998 cc Mini & Clubman Automatic Gearbox	" "	C-AJJ 3345
1100 Manual Gearbox	" "	C-AJJ 3342
1100 Automatic Gearbox	" "	C-AJJ 3348
1275 GT	" "	C-AJJ 3394
1300 Manual & Automatic Gearbox	" "	C-AJJ 3344
1800 Manual & Automatic Gearbox Mk.I only	" "	C-AJJ 3341

Performance Kits

1800 Manual & Automatic Gearbox MK.II	Part No.	C-AJJ 3391
Austin Maxi 1500 cc (Cable Gearchange)	" "	C-AJJ 4025
Austin Maxi 1500 cc (Rod Gearchange)	" "	C-AJJ 4050
Austin Maxi 1750 cc (Rod Gearchange)	" "	C-AJJ 4050A

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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ABINGDON-ON-THAMES • BERKSHIRE • ENGLAND

Model

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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	MG
C-AHT 427 D	1800 Saloon
C-AHT 427 E	RAC Rally Marina
C-AHT 427 F	Triumph Spitfire

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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.

