



SPECIAL TUNING DATA

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

Model M.G.B.

Sheet Ca - 1 Issue 2

Fully detailed tuning information covering engine, transmission, brakes, suspension and other special items is available in Booklet C-AKD 4034.

DESCRIPTIVE INDEX

Description	Part No.	Qty./Car
<u>BODYWORK</u>		
Bonnet securing strap set	C-AJJ 3381	1
Sebring headlamp cowl kit	C-AJJ 3307	1
Footrest, for passenger - R.H.D.	C-AHH 7114	1
Footrest, for passenger - L.H.D.	C-AHH 7118	1
<u>BRAKES</u>		
DS11 Brake pad set	C- 8G 8834	1
VG95/1 Rear brake shoe and lining assembly	C- 8G 8828	1
VG95/1 Rear brake lining with rivets	C- 8G 8829	2
Rear wheel brake cylinder assy. $\frac{5}{8}$ " dia. (15.9%)	17H 8773	2
Pawl (for fly-off hand brake)	C-AHH 7223	1
Rod (for fly-off hand brake) Early cars	C-AHH 7222	1
Later cars	C-AHC 551	1
Brake servo kit	8G 8732	1
<u>CAMSHAFT & DISTRIBUTOR</u>		
Half race 24°, 64°, 59°, 29°, Lift 0.25"	C-AEH 714	1
Full race 50°, 80°, 75°, 45°, Lift 0.315"	C-AEH 770	1
Sprint 60°, 80°, 75°, 45°, Lift 0.315"	C-AEH 863	1
Super-sprint 60°, 80°, 85°, 55°, Lift 0.315"	C-AEH 862	1
Camshaft gear - steel	C-AEH 771	1
Distributor (for full race camshaft)	C-BHA 4415	1
<u>CARBURETTERS & MANIFOLDS</u>		
Weber twin choke 45 D.C.O.E.	C-AEH 785	1
Installation kit for Weber carb.	C-AJJ 3312	1
1½" Twin S.U.	C-AUD 229	1
Installation kit for 1½" S.U.	C-AJJ 3321	1
2" Twin S.U.	C-AUD 279	1
Installation Kit for 2" S.U.	C-AJJ 3374	1
Flare pipe, for 2" S.U. carburetter	C-AHT 145	2
Free flow lightweight exhaust manifold	C-AHH 7103	1
<u>CLUTCH & FLYWHEEL</u>		
Competition cover assembly	C-BHA 4642	1
Competition driven plate	C-BHA 4519	1
Thrust bearing assembly	27H 2609	1
Thrust bearing retaining spring	22B 66	2
Lightened flywheel (for 18GB engines only)	C-AHT 86	1

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Model MGB Sheet Ca - 2 Issue 4

DESCRIPTIVE INDEX (continued)

Description	Part No.	Qty/Car
<u>CRANKSHAFT & BEARINGS</u>		
Nitrided & crossdrilled crankshaft (18GB onwards)	C-AEH 822	1
Main bearing set for C-AEH 822 or C-12H 2928	C-18G 8103	1
Connecting rod bearings (18GB only)	C-18G 8022	1
<u>CROWN WHEELS & PINIONS</u>		
(Early Tourer only)		
4.3 Ratio 10/43	88G 283	1
4.55 Ratio 9/41	88G 284	1
(Tubed Axle only)		
3.07 14/43 *	BTB 900	1
3.307 13/43 *	BTB 841	1
3.909 11/43	BTB 856	1
* These ratios require new differential cage BTB 840 or limited slip differential C-BTB 776.		
Limited slip differential	C-BTB 777	1
Limited slip differential (use with ratios marked *)	C-BTB 776	1
<u>GEARBOX</u>		
Close ratio gears - 1st Motion Shaft 18G & 18GA	C-22H 472	1
(3 1st Motion Shaft 18GB)	C-22H 846	1
(speed 2nd Speed Gear	C-22H 1094	1
(synchromesh 3rd Speed Gear	C- 1H 3300	1
(only) Laygear - small diameter	C- 1H 3298	1
Laygear - large diameter	C-22H 932	1
Straight - cut gear set	C-AJJ 4034	1
(for 4 speed synchromesh gearbox only)		
<u>LITERATURE</u>		
Special Tuning booklet (Covers all versions)	C-AKD 4034	
Special Tuning self-adhesive emblems (1 pair)	C-AKD 5125	1
Special Tuning Lapel Badge	C-AHT 200	
<u>OIL SUMP & COVER</u>		
Deep type sump (18G & 18GA only)	C-AHH 7252	1
Deep type sump (18GB only)	C-AEH 832	1
Packing piece for strainer (18G & GA only)	C-AHH 7238	1
Packing piece for strainer (18GB only)	C-AEH 847	1
Competition large capacity oil cooler	C-ARO 9875	1

NOTE: See Tuning Booklet C-AKD 4034 or Mechanical Parts List for change points and refer to Booklet for full details before ordering parts.

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DESCRIPTIVE INDEX (continued)

Description	Part No.	Qty./Car
<u>PISTONS, CONNECTING RODS & GASKETS</u>		
High competition pistons (18G/18GA only) +0.040" (use with connecting rod set C-AJJ 3357 only)	C-AEH 073643	4
Piston ring - top	C-AEH 738	4
Piston ring - second - third	C-AEH 854	8
Piston ring - Scraper	C-12H 759	4
Gudgeon Pin	C-AEH 741	4
Circlip	C-AEH 742	8
Connecting rod set (for use with C-AEH 073643 pistons)	C-AJJ 3357	1
High competition pistons (18GB) Std. +.020" (.508 %) +.040" (1.016%)	C-AEH 853	4
Piston ring - top	C-AEH 738	4
Piston ring - second - third	C-AEH 854	8
Piston ring - scraper	C-12H 759	4
Piston set - lightweight forged +.080" only	C-AJJ 3375	1
Cylinder head gasket - competition	C-AEH 768	1
<u>SUSPENSION</u>		
Shock absorber comp. setting Front	C-AHH 7104	2
Shock absorber comp. setting Rear R/H.	C-AHH 7105	1
Shock absorber comp. setting Rear L/H.	C-AHH 7106	1
Shock absorber valve assy. Front	C-AHH 7217	2
Shock absorber valve ssy. Rear	C-AHH 7218	2
Anti-roll bar 9/16" (14.3 %) (Std. on late Tourers)	AHH 7329	1
Bearings for AHH 7329	AHH 6541	2
Anti-roll bar 5/8" (15.9 %) (Std. on GT)	C-AHH 7593	1
Anti-roll bar 3/4" (19 %) (Includes bearing & locators)	C-AHH 7924	1
Installation Kit (See Booklet for use)	C-AJJ 3306	1
Front coil spring Rate 348 lb/in. (Std. on Tourer)	AHH 6451	2
" " " Rate 480 lb/in. (Std. on GT)	AHH 5789	2
" " " Rate 480 lb/in. (Lowered)	C-AHT 21	2
Rear leaf spring Rate 93 lb/in. (Std. on late Tourer)	AHH 7080	2
" " " Rate 99 lb/in. (Std. on early ")	AHH 6455	2
" " " Rate 100 lb/in.	C-AHH 8343	2
" " " Rate 99 lb/in. (Std. on GT)	AHC 31	2
" " " Rate 124 lb/in.	AHH 7346	2
" " " Rate 124 lb/in. (Lowered AHH 7346)	C-AHT 20	2

N.B. See Tuning Booklet C-AKD 4034 for full details before ordering parts.

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Model M.G.B.

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DESCRIPTIVE INDEX (continued)

Description	Part No.	Qty./Car
<u>CYLINDER HEAD & VALVE GEAR</u>		
Polished & assembled head complete	C-AHT 100	1
Valve guide - inlet (Hidural)	C-AEH 755	4
" " - exhaust (Hidural)	C-AEH 756	4
Inlet valve 1.56" (39.7 %) dia. (Nimonic)	C-AEH 757	4
" " 1.69" (42.8 %) dia. (Nimonic)	C-AEH 860	4
Exhaust valve 1.34" (34.1 %) dia. (Nimonic)	C-AEH 758	4
" " 1.44" (36.5 %) dia. (Nimonic)	C-AEH 861	4
Valve spring Inner 57 lb. (25.9 kg.)	C-1H 1112	8
" " Outer 140 lb. (63.5 kg.)	C-AHH 7264	8
" " Inner 60 lb. (27.2 kg.)	C-AHH 7265	8
Valve spring top cup) For nimonic valve	C-AEH 760	8
" " bottom cup) and double springs	C-AEH 801	8
Valve collets - pairs (for nimonic valves)	C-AEH 761	8
Valve springs - triple (Set of 3)	C-AHH 7309	8
Valve spring top cup (for triple springs)	C-AHH 7313	8
Valve rocker - strengthened	12H 2037	8
Rocker shaft bracket - front	C-AEH 762	1
Rocker shaft bracket - rear	C-AEH 763	1
Distance piece for rocker - long	C-AEH 764	1
Distance piece for rocker - short	C-AEH 765	2
Tappet adjusting screw (undrilled)	C-AEH 766	8
Tappet (large diameter)	AEC 264	8
Push rod - short	C-AEH 767	8
<u>WHEELS</u>		
Disc wheel 14" x 5" rim (std. on GT)	AHH 8112	5
Wire wheel 14" x 5½" rim (70 spoke)	C-AHH 8530	5
<u>SPARKING PLUGS</u>		
Champion N64Y	C-37H 4208	4
" N60Y	C-37H 2148	4
" N62R	C-37H 2149	4
" N57R	C-27H 5982	4
<u>ENGINE ANCILLARIES</u>		
Pulley for dynamo (reduced speed)	2A 864	1
Fan belt (for reduced speed pulley)	13H 923	1
Blanking sleeve thermostat by pass	11G 176	1

N.B. See Tuning Booklet C-AKD 4034 for full details before ordering parts.

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Model M.G.A. 1500 AND 1600

Sheet C-1 Issue 6

Before carrying out any tuning, ensure that both the engine and the chassis are in good mechanical order. Workshop Manual AKD 600 and Parts Lists AKD 1055 (M.G.A. 1500) and AKD 1215 (M.G.A. 1600) are still available providing full details of the car for its correct maintenance and repair.

Reprinted M.G.A. Tuning Booklet C-AKD 819E is available which covers both the 1500cc and 1600cc engines. It does NOT cover either the 1622cc engine prefix number 16GC or the M.G.A. TWIN CAM engine, as there is no tuning information available for either of these engines.

The following special parts are still available, but in some cases further supplies cannot be obtained when present stocks become exhausted.

<u>Description</u>	<u>Part No.</u>	<u>Qty./Car</u>
Pistons, 9.0:1 flat top, 1500cc (Std., +.010", +.020", +.030")	C-1H 1178	4
Pistons, 10.1:1 raised top, 1500cc (Std. +.010", +.030" & .040")	C-1H 1180	4
Pistons C-1H 1180 can only be used with connecting rods C-AEH 642 & 644 * or set C-AJJ 3357 *		
1 $\frac{3}{4}$ " S.U. carburetters H6 (1 pair)	C-AUD 229	1
Manifold for H6 carburetters	12H 911	1
Gasket for carburetters, rubber	C-AHH 5791	2
Ram pipe, for H6 carburetters	C-AHH 7209	2
Camshaft	48G 184	1
Valve spring, inner 57 lb.	C-1H 1112	8
Valve spring, outer 140 lb.	C-AHH 7264	8
Close ratio gears, 1st motion shaft	C-1H 3297	1
Laygear	C-1H 3298	1
2nd speed mainshaft gear	C-22H 1094	1
3rd speed mainshaft gear	C-1H 3300	1
Crown wheel & pinion 3.9 ratio	C-ATB 7236	1
Brake shoes, competition linings, M.G.A. 1500 only	C-8G 8215	4
Shock absorber, competition setting R.H. Front	C-AHH 5609	1
Shock absorber, competition setting L.H. Front	C-AHH 5610	1
Special Tuning Self-adhesive emblems (1 pair)	C-AKD 5125	1

* No longer available, but included for reference.

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Model M.G.B.

Sheet C - 2 Issue 7

TUNING INFORMATION

Tuning Booklet C-AKD 4034G is now available, which covers engines with 3 Main Bearings identified by engine number prefix 18G or 18GA and 5 Main Bearing engines, identified by the prefix 18GB onwards. It contains sections to enable the best performance to be obtained from your M.G.B., whether it be in standard form or tuned to full 'Le Mans' specification. Where there is any difference between the 'Tourer' and 'GT' versions, this is also covered.

This reprinted version contains a new section on suspension tuning, showing how to use the many different road springs now available.

Tuning is now dealt with in seven stages, plus such additional requirements as close ratio gears, competition brakes, suspension modifications etc. A section is also included which gives all the standard data relative to this car, together with a list of Part Numbers for all the special parts, to enable the correct part to be ordered.

It should be used in conjunction with the Workshop Manual AKD 3259 which gives all necessary information for correct maintenance and repair.

COMPETITION HOMOLOGATION

Most competitive events are run under rules agreed by the F.I.A. which limit modifications for certain groups or categories. As soon as improvements are incorporated into production or become available as special parts, the necessary steps are taken to have these parts approved for competition and included on the homologation forms.

However, whilst every care is taken, we can accept no responsibility for ensuring that any specifications or modifications comply with the F.I.A. Regulations or homologation forms. Copies of all Forms of Recognition are available ONLY from the R.A.C. Competitions Department, 31 Belgrave Square, London S.W.1., who will also be able to advise on any queries concerning eligibility of modified cars.

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