

The



Series MGA 1500,
MGA 1600, and MGA 1600 (Mk. II)

NOTE

Refer to the end of the appropriate Section for the latest instructions when carrying out work on the vehicle.

Additional copies of this publication (Part No. AKD600D) can only be obtained from an M.G. Distributor.

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INTRODUCTION

This Manual has been prepared to provide the service operator with the necessary information for the maintenance and repair of the M.G. (Series MGA, MGA 1600, and MGA 1600 [Mk. II]).

The Manual also serves as a ready-reference book for service supervision and covers items of procedure for the guidance of both the fully qualified and the less-experienced mechanic.

UNIT ARRANGEMENT

In the Manual the complete vehicle is divided into Sections each of which deals with an assembly or major component and carries a reference letter. Where necessary, a Section is divided into two or three parts, having a single, a double, or a treble reference letter. In such cases the double-letter Section refers specifically to Series MGA 1600 and MGA 1600 (Mk. II) cars and the treble-letter Section refers to the Series MGA 1600 and MGA 1600 (Mk. II) fitted with centre-lock wheels and Dunlop disc brakes. These Sections should always be used in conjunction with the corresponding single-letter Section. Where there is no double-letter or treble-letter Section the information contained in the single-letter Section refers to all models.

NUMBERING OF PAGES AND ILLUSTRATIONS

The pages and illustrations are numbered consecutively within each Section, and the Section title and letter(s) are shown at the top of each page.

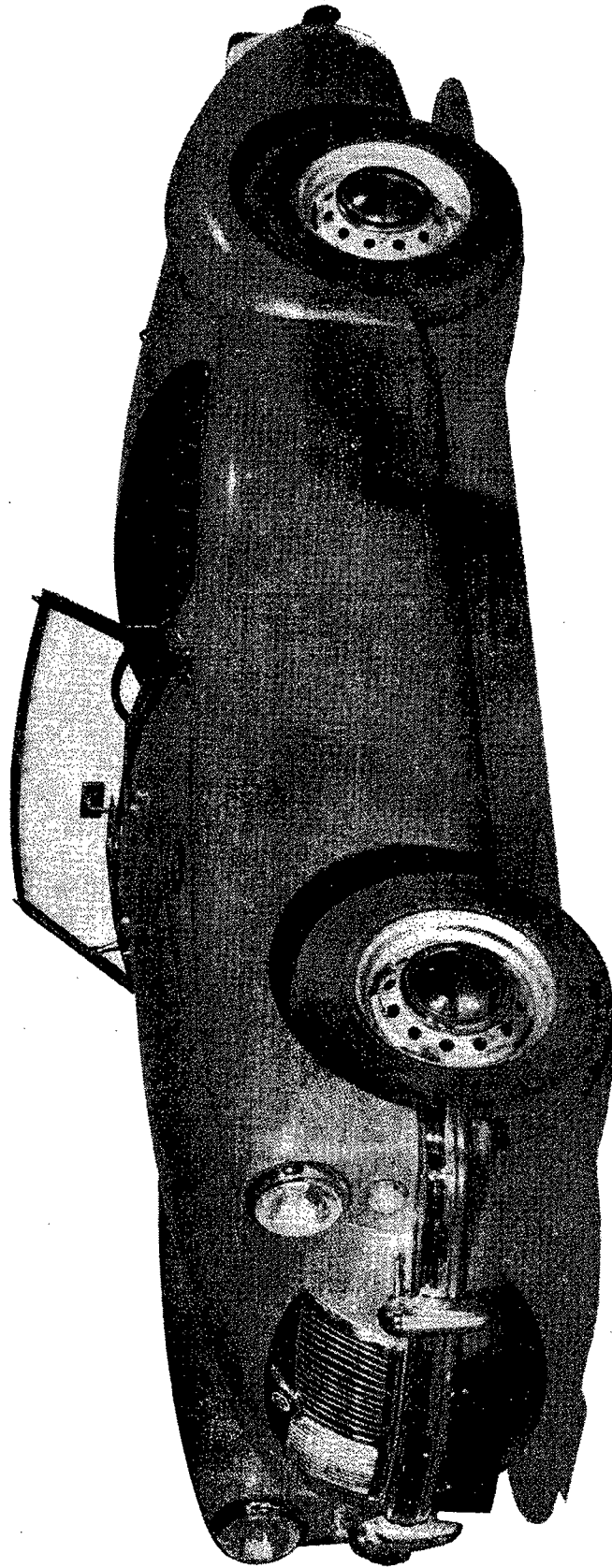
SERVICE TOOLS

Use of the correct tools contributes to an efficient, economic, and profitable repair. References have therefore been made to such tools throughout the Manual.

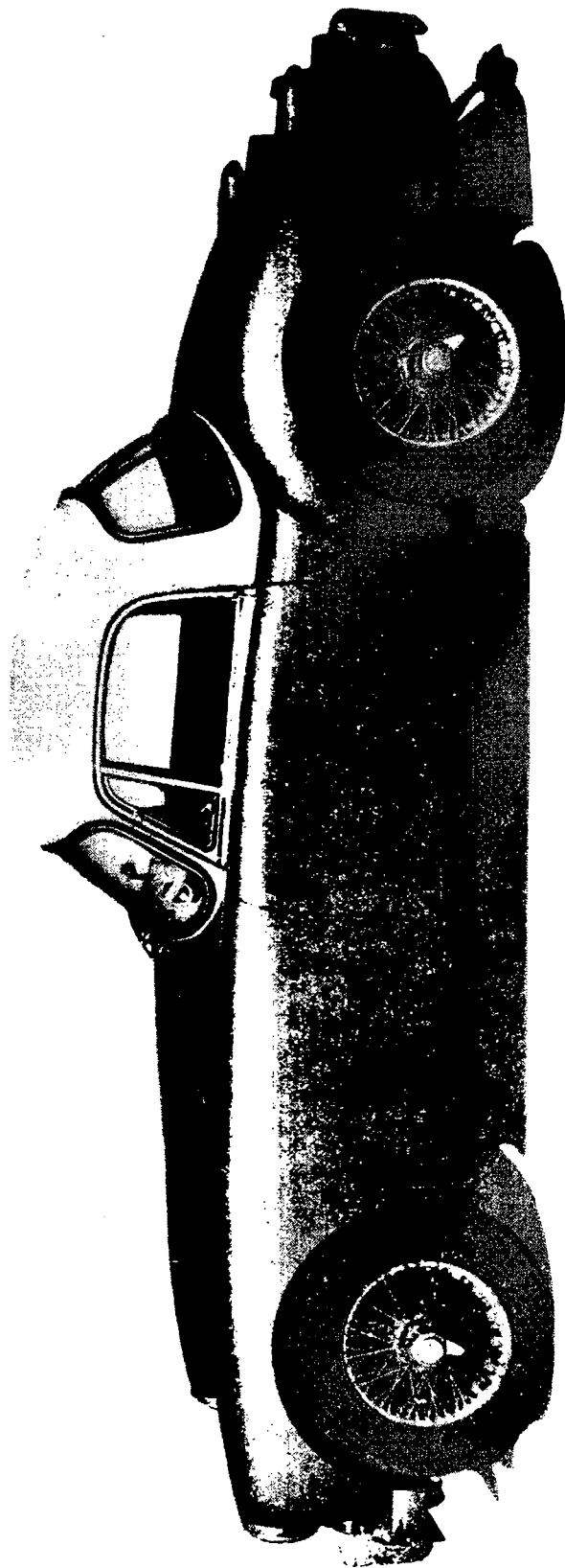
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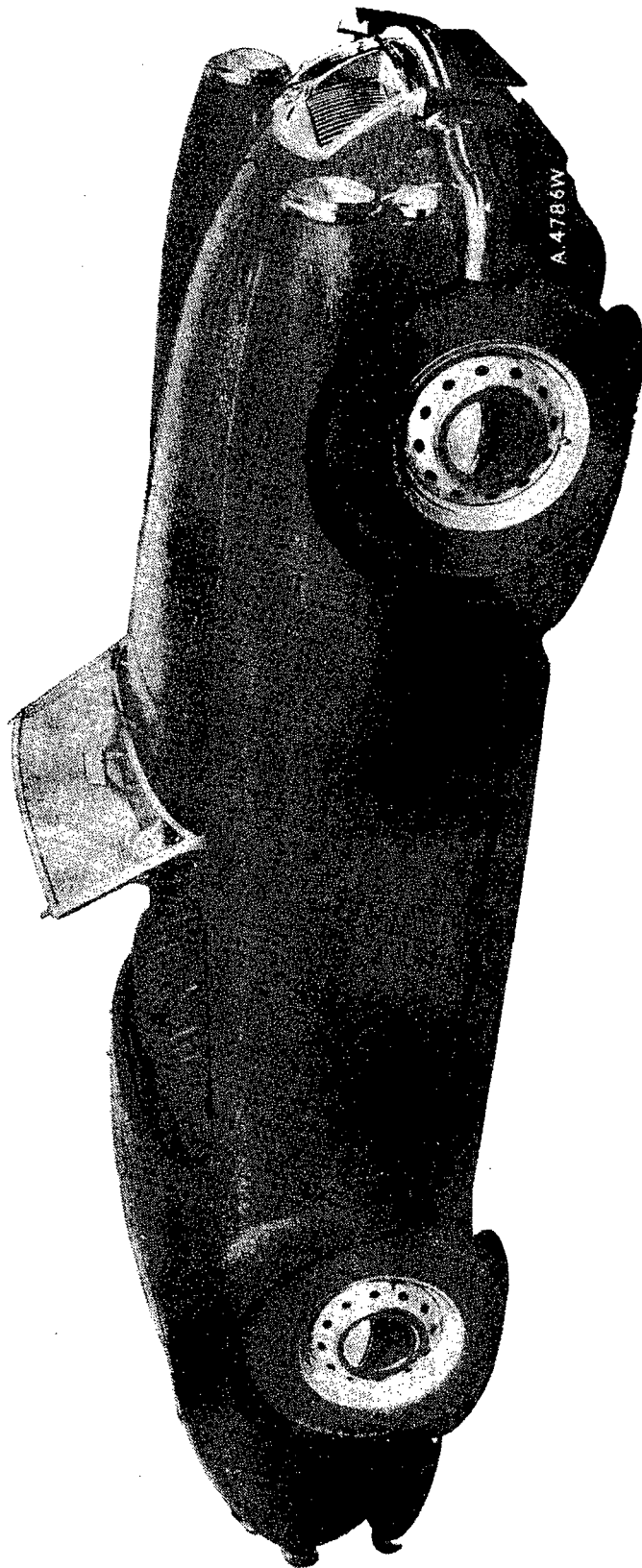


THE M.G. (Series MGA 1600) COUPÉ



5872W

THE M.G. (Series MGA 1600—Mk. II) TOURER



GENERAL DATA

(Series MGA)

ENGINE

Type	15GB.
(From Car No. 61504)	15GD.
Number of cylinders	4.
Bore	2.875 in. (73.025 mm.).
Stroke	3.5 in. (89 mm.).
Capacity	90.88 cu. in. (1489 c.c.).
Firing order	1, 3, 4, 2.
Compression ratio	8.3 : 1.
Capacity of combustion chamber (valves fitted)	2.3 to 2.4 cu. in. (38.2 to 39.2 c.c.).
Valve operation	Overhead by push-rod.
B.M.E.P.	130 lb./sq. in. at 3,500 r.p.m.
Torque	77.4 lb. ft. at 3,500 r.p.m.
Cooling system	Thermo-siphon, pump- and fan-assisted.
Oversize bore : 1st .. .. .	.010 in. (.254 mm.).
Max. .. .. .	.040 in. (1.016 mm.).

CRANKSHAFT

Main journal diameter	2 in. (50.8 mm.).
Minimum regrind diameter	1.96 in. (49.78 mm.).
Crankpin journal diameter	1.8759 to 1.8764 in. (47.65 to 47.66 mm.).
Crankpin minimum regrind diameter	1.8359 in. (46.64 mm.).

Main bearings

Number and type	3. Shell-type.
Material: Top and bottom halves	Steel-backed white metal.
Length	1.375 in. (34.925 mm.).
End-clearance .. .. .	.002 to .003 in. (.051 to .076 mm.).
End-thrust	Taken by thrust washers at centre main bearing.
Running clearance .. .. .	.0005 to .002 in. (.0127 to .0508 mm.).
Undersizes	-.010 in., -.020 in., -.030 in., -.040 in. (-.254 mm., -.508 mm., -.762 mm., -1.016 mm.).

CONNECTING RODS

Length between centres	6.5 in. (165.1 mm.).
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Big-end bearings

Material: Top and bottom halves	Steel-backed lead-indium or lead-tin.
Bearing side-clearance .. .. .	.008 to .012 in. (.203 to .305 mm.).
Bearing diametrical clearance .. .. .	.0001 to .0016 in. (.002 to .04 mm.).
Undersizes	-.010 in., -.020 in., -.030 in., -.040 in. (-.254 mm., -.508 mm., -.762 mm., -1.016 mm.).

PISTONS

Type	Aluminium alloy.
Clearances: Bottom of skirt .. .. .	.0017 to .0023 in. (.043 to .051 mm.).
Top of skirt .. .. .	.0035 to .0042 in. (.090 to .106 mm.).
Oversizes	+.010 in., +.020 in., +.030 in., +.040 in. (+.254 mm., +.508 mm., +.762 mm., +1.016 mm.).

PISTON RINGS

Compression: Plain	Top ring.
Tapered	2nd and 3rd rings.
Width .. .. .	.0615 to .0625 in. (1.56 to 1.58 mm.).
Thickness .. .. .	.111 to .118 in. (2.81 to 3.0 mm.) to Engine No. 40824. .119 to .126 in. (3.02 to 3.2 mm.) from Engine No. 40825.

