



F.I.A. Recognition No. 99

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

Federation Internationale de l'Automobile.

Form of Recognition in accordance with
Appendix J to the
International Sporting Code.

Manufacturer M.G. CAR COMPANY LIMITED

Model 'M.G.A. '1600'

Year of Manufacture 1960

Serial No. of Chassis GHN or GHNL (L.H.D.)

Engine G.B.16/ G.A./ U

Type of Coachwork Two Seater Sports.

Recognition is valid from 17/9/59

In category Grand Touring

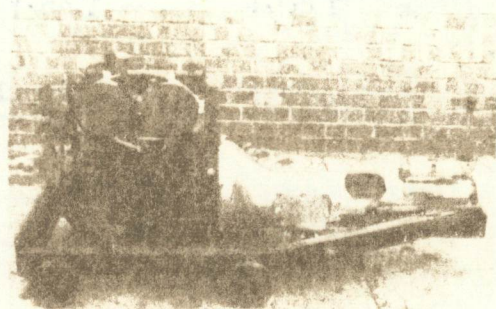
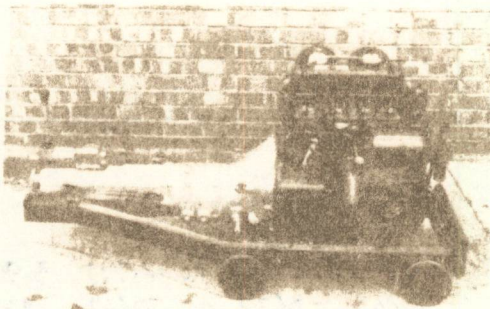
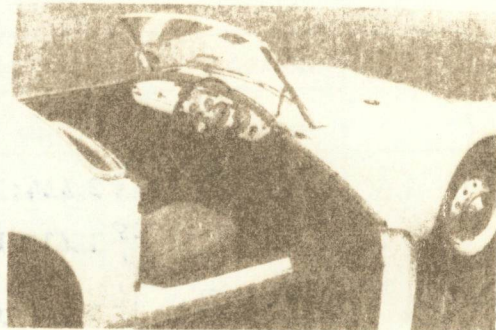
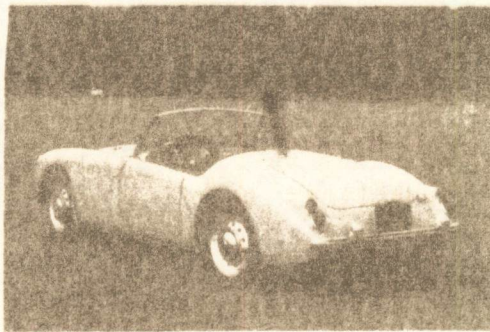
Ref. No. GA1600/60



Stamp of F.I.A. to be
affixed here.

General description of car:

Photographs to be affixed below.



Lockheed Front Disc Brake - Standard.
Dunlop Front Disc Brake - Optional.

Lockheed Rear Drum Brake - Standard.
Dunlop Rear Disc Brake - Optional.

ENGINE

in line Yes.
 No. of cylinders 4 in V -
 opposed -
 Cycle 4 Stroke Firing order 1, 3, 4, 2,
 Capacity 1588 c.c. Bore 75.39 m.m. Stroke 88.9 m.m.
 Maximum rebore 76.406 Resultant capacity 1630 c.c.
 Material of cylinder block Cast Iron. Material of sleeves, if fitted None.
 Distance from crankshaft centre line to top face of block at centre line of cylinders 252.4 m.m.
 Material of cylinder head Cast Iron. Volume of one combustion chamber 38.9 c.c.
 Compression ratio 8.3
 Material of piston Aluminium Alloy. No. of piston rings 4
 Distance from gudgeon pin centre line to highest point of piston crown 42.062 m.m.
 Bearings { Crankshaft main bearings: Type Shell Dia. 50.819 m.m.
 Connecting rod big end: Type Shell Dia. 51.3395 m.m.
 Flywheel 11.793 kg. (13.49 with starter ring)
 Crankshaft 13.154 kg.
 Weights { Connecting rod .935 kg.
 Piston with rings .33665 kg.
 Gudgeon pin .0886 kg. Side camshaft with
 No. of valves per cylinder Two Method of valve operation push rods & rockers.
 No. of camshafts One Location of camshafts L.H. side of block.
 Type of camshaft drive Endless roller chain.
 Diameter of valves: Inlet 38.163 m.m. Exhaust 32.6 m.m.
 Diameter of port at valve seat: Inlet 33.321 m.m. Exhaust 29.717 m.m.
 Tappet clearance for checking timing: Inlet .533 m.m. Exhaust .533 m.m.
 Valves open: Inlet 5° B.T.D.O. Exhaust 40° B.B.D.C.
 Valves close: Inlet 45° A.B.D.C. Exhaust 10° A.T.D.C.
 Maximum valve lift: Inlet 8.89 m.m. Exhaust 8.89 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 126° Exhaust 126°
 ½ Maximum lift: Inlet 74° Exhaust 74°
 Valve springs: Inlet Exhaust
 Type Helical Helical
 No. per valve 2 2
 Carburettor: Type Semi down draft No. fitted Two
 (up or down draft, horizontal)
 Make S.U. Model H.4.
 Flange diameter 38.1 m.m. Choke diameter 38.1 m.m.
 Main jet identification No. 6

Air filter: Type **Oil wetted element.**

No. fitted **Two.**

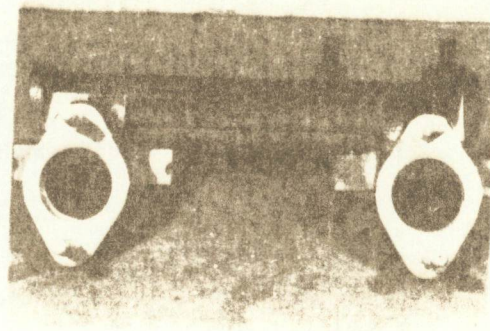
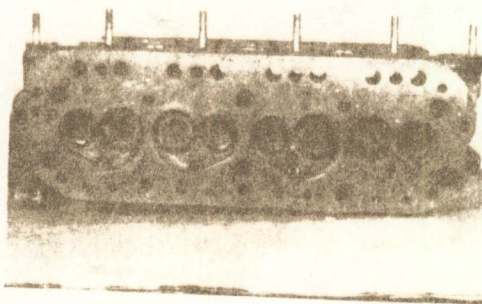
Inlet manifold:

Diameter of flange at carburettor **38.9**

m.m.

Diameter of flange at port **35.7**

m.m.



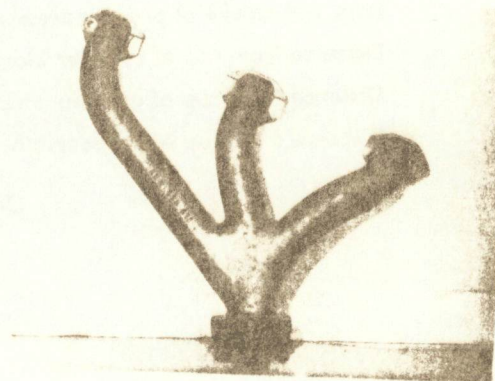
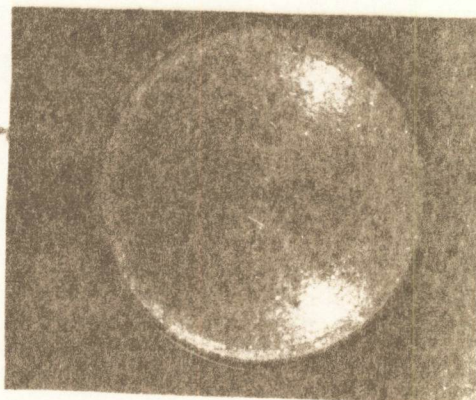
Exhaust manifold: **3 Rectangulars : (Centre) 33.338 x 36.5126.**

Diameter of flange at port **(Outers) 30.16 x 36.51**

m.m.

Diameter of flange at connection to silencer inlet pipe **57, 4**

m.m.



ENGINE ACCESSORIES

Make of fuel pump	S.B.	No. fitted	One.
Method of operation	Electric.		
Type of ignition system	Coil		
Make of ignition	Lucas	Model	D.M.2. (Distributor).
Method of advance and retard	Centrifugal and vacuum.		
Make of ignition coil	Lucas	Model	H.A. 12.
No. of ignition coils	One.	Voltage	12
Make of dynamo	Lucas	Model	C.39. P.V.2.
Voltage of dynamo	12	Maximum output	19 amps.
Make of starter motor	Lucas	Model	M.35. G.1.
Battery: No. fitted	2	Voltage	12
		Capacity	51 amp. hour

Make M.G. Model M.G.A. "1600" F.I.A. Recognition No. 10420 10788 101942

TRANSMISSION

Make of clutch Borg & Beck. Type 8° A6-G.
 Diameter of clutch plate 8" No. of plates Single.
 Method of operating clutch Hydraulic.
 Make of gearbox B.M.C. Type 4 Speed Synchromesh.
 No. of gearbox ratios Four Forward and one Reverse.
 Method of operating gearshift Manual.
 Location of gearshift Cent' on Floor.
 Is overdrive fitted? No.
 Method of controlling overdrive, if fitted Not applicable.

	GEARBOX RATIOS		Competitions		ALTERNATIVE RATIOS			
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.637:1	$\frac{21}{32} \times \frac{11}{28}$	2.444:1	$\frac{25}{26} \times \frac{11}{28}$				
2.	2.215:1	$\frac{21}{32} \times \frac{20}{31}$	1.618:1	$\frac{25}{26} \times \frac{19}{32}$				
3.	1.373:1	$\frac{21}{32} \times \frac{26}{25}$	1.266:1	$\frac{25}{26} \times \frac{29}{22}$				
4.	1.00:1	Direct	1.00:1	Direct				
<u>Reverse</u>	4.755:1		3.199:1					

Type of final drive Hypoid.
 Type of differential Bevel
 Final drive ratio 4.5 Alternatives 4.3:1 4.875:1, 4.1:1, 3.909:1
 No. of teeth 9/41 10/43, 8/39, 10/41, 11/43
 Overdrive ratio, if fitted Not applicable.

WHEELS

Type Disc. Weight 6.804 kg
 Method of attachment 4 - 7/16" dia. studs.
 Rim diameter 381.0 m.m. Rim width 101.6 m.m.
 Tyre size: Front 5.60 x 15 Rear 5.60 x 15

BRAKES

Method of operation Hydraulic.
 Is servo assistance fitted? No.
 Type of servo, if fitted Not applicable.
 No. of hydraulic master cylinders One Bore 22.225

	Front		Rear
No. of wheel cylinders	Two		One
Bore of wheel cylinders	53.97	m.m.	22.22
Inside diameter of brake drums	-	m.m.	254.0
No. of shoes per brake	-		Four
Outside diameter of brake discs	279.4	m.m.	-
No. of pads per brake	Four		-
Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)			

	Front		Rear
Length	85	m.m.	243.84
Width	47.5	m.m.	44.45
Total area per brake	13935	m.m. ²	43354

SUSPENSION

	Front		Rear
Type	Parallel wishbone		Leaf
Type of spring	Coil		
Is stabiliser fitted?			No
Type of shock absorber	8" Lever arm		5.3/16" lever arm
No. of shock absorbers	Two		Two

STEERING

Type of steering gear	Rack and Pinion
Turning circle of car	8.53 m., approx.
No. of turns of steering wheel from lock to lock	2.2/3

CAPACITIES AND DIMENSIONS

Fuel tank	45.46	litres	Sump	3.976	litres
Radiator	5.68	litres			
Overall length of car	396.24	cm.	Overall width of car	147.32	cm.
Overall height of car, unladen (with hood up, if appropriate)	127	cm.			
Distance from floor to top of windscreen:					
Highest point	96.52	cm.	Lowest point	71.12	cm.
Width of windscreen:					
Maximum width	111.76	cm.	Minimum width	101.6	cm.
Interior width	119.38	cm.			
No. of seats	Two				
Track: Front	120.65	cm.	Rear	123.82	cm.
Wheelbase	238.76	cm.	Ground clearance	152.4	m.m.

(To be measured at the immediate rear of the steering wheel, and the width quoted to be maintained in a vertical plane of not less than 25 cms.)

Overall weight with water, oil and spare wheel, but without fuel 914.4 kgs.

Additional information for cars fitted with two-cycle engines

System of cylinder scavenging.....

Type of lubrication.....

Size of inlet port:

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.²

Size of exhaust port:

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.²

Size of transfer port:

Length measured around cylinder wall..... m.m.

Height..... m.m. Area..... m.m.²

Size of piston port:

Length measured around piston..... m.m.

Height..... m.m. Area..... m.m.²

Method of pre-compression.....

Bore and stroke of pre-compression cylinder, if fitted..... m.m.

Distance from top of cylinder block to lowest point of inlet port..... m.m.

Distance from top of cylinder block to highest point of exhaust port..... m.m.

Distance from top of cylinder block to highest point of transfer port..... m.m.

Drawing of cylinder ports.

Supercharger, if fitted

Make.....

Model or Type No.....

Type of drive.....

Ratio of drive.....

Fuel injection, if fitted

Make of pump.....

Model or Type No.....

Make of injectors.....

Model or Type No.....

Location of injectors.....

Optional equipment affecting preceding information:—

Wire Wheels. 60 spokes

Centre Lock Disc Wheel.

Oil Cooler.

Road Speed Tyres 590 x 15.

Fuel Tanks 90.92 Litre.

Fuel Tanks 77.35 Litre.

Fuel Tanks 68.25 Litre.

Dunlop Disc Brakes all round.

Alternative SU H6

9.25:1 compression pistons

Con roads, 211, 212, 213

Wire wheels 40, 41, 42

Oil

TELEPHONE:
ABINGDON
251 P.B.X.

**THE CAR
COMPANY LTD**
ABINGDON WORKS
ABINGDON-ON-THAMES
Proprietors - Morris Motors Limited

TELEGRAMS:
EMGEE
ABINGDON

Our Ref.

Your Ref.

FORM OF RECOGNITION

MANUFACTURER: M.G. CAR COMPANY LIMITED

MODEL TITLE: M.G.A. 1600

NUMBERS AND LETTER OF PREFIXES:	(Engine:	<u>2 Seater</u>	<u>Coupe</u>
	(Chassis:	16GA	16GA
		G-HN	G-HO

DESCRIPTION OF BODY: 2 Seater or Coupe

DESCRIPTION OF ENGINE: 4 cylinders in line. O.H.V. Push rod operated

DESCRIPTION AND POSITION OF CLUTCH AND GEARS - MATERIAL OF CASINGS:

Unit Construction Single Dry Plate. 8" Borg & Beck. 4 speed Gearbox Synchromesh in Aluminium case.

SUSPENSIONS: (Front: Independent, Coil spring
(Rear: Semi-elliptic leaf spring

TOTAL WEIGHT WITH FUEL (Tolerance of 4% permitted)	<u>2 Seater</u>	<u>Coupe</u>
	2068 lbs.	2127 lbs.

WHEEL-BASE: 94" TRACK, Front	Disc 47 $\frac{1}{2}$ "	Rear: 48 $\frac{3}{4}$ "	WHEELS: DISC or WIRE
	" Wire 47 $\frac{7}{8}$ "	" 48 $\frac{3}{4}$ "	

TYRES: 5.60 x 15 INNER TUBES: 5.60 x 15 RIMS: 4J x 15

ENGINE (Desaxe or not): No. BORE: 75.39 m.m. MAXIMUM REBORE TOLERANCE: .040"

STROKE: 88.9.m.m. CYLINDER CAPACITY: 1588 c.c.

CARBURETTOR TYPE: Semi-down draught NUMBER: 2 MAKE S.U. THROAT DIA.: 1 $\frac{1}{2}$ "

IGNITION SYSTEM: Battery & Coil. TYPE: Automatic Advance MAKE: Lucas

P.T.O.

NUMBER OF RATIOS IN GEARBOX: 4 PLUS REVERSE

RATIO IN 1ST GEAR:	3.64	NO. OF GEARS IN GEAR:	4	NO. OF TEETH:	$\frac{21}{30} \times \frac{11}{28}$
" " 2ND "	2.214	" " " " " "	4	" " "	$\frac{21}{30} \times \frac{20}{31}$
" " 3RD "	1.37	" " " " " "	4	" " "	$\frac{21}{30} \times \frac{25}{26}$
" " 4TH "	1.00	" " " " " "	DIRECT	" " "	DIRECT

FINAL DRIVE: 4.3 - 4.1 & 4.55 OPTIONAL

CVERDRIVE: (if any) NONE

OPTIONAL EXTRAS:

Wire Wheels, White Wall Tyres, 5.90 x 15 Tyres, Adjustable Steering Column, Tonneau Cover, Radiator Blind, Heater and Demister, Twin Horns, Fog Lamp, De Luxe Seats, Radio, Windshield Washers, Detachable Hardtop, Competition Windshield, Luggage Carrier, Wing Driving Mirror, Cold Air Ventilation, Anti-roll Bar, Speedo For 4.55 Axle, Head Lamp Flasher Switch, Close Ratio Gear Box, Oil Cooler,

HIGH PERFORMANCE ALTERNATIVE EQUIPMENT

15 or 20 Gallon Fuel Tank, High Compression Pistons, Supplementary Fuel Pump, Circuit Control Box No. RB310 37204, High Output Dynamo 22290, Lucas Coil B.12.

4th September, 1959.