

Manufacturers Reference No. for Application

GA1622/61



F.I.A. Recognition No.

51

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 The MG Car Company Limited

Model MGA 1600 Mk. 2

Year of Manufacture 1961

Chassis GHN2 or GHD2

Serial No. of

Engine 1600

Type of Coachwork Sports two seater or Coupe

Recognition is valid from

16/1/62

In category

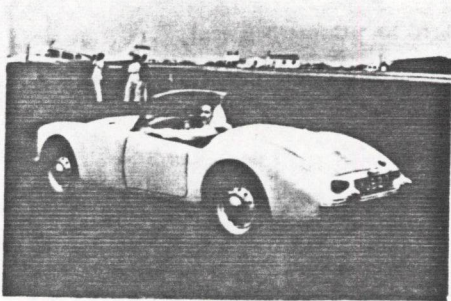
Grand Touring



Stamp of F.I.A./R.A.C. to be
affixed here.

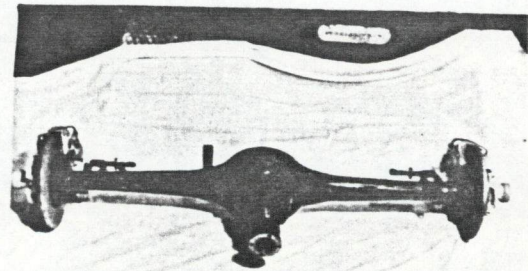
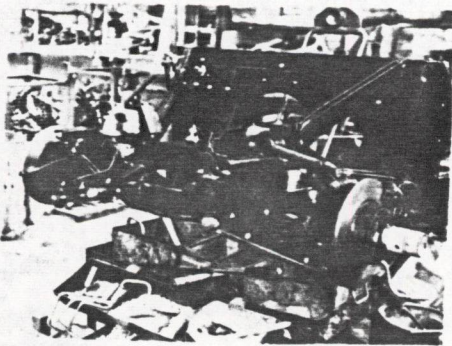
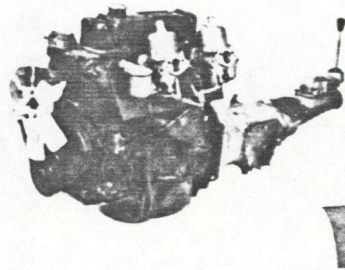
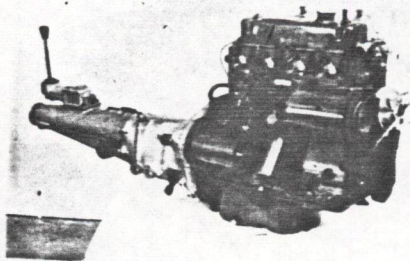
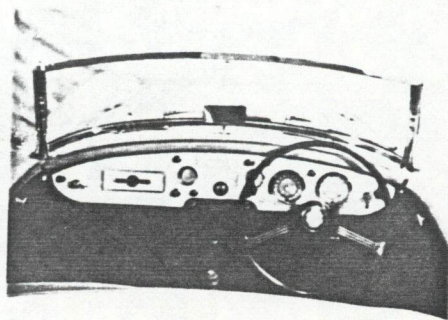
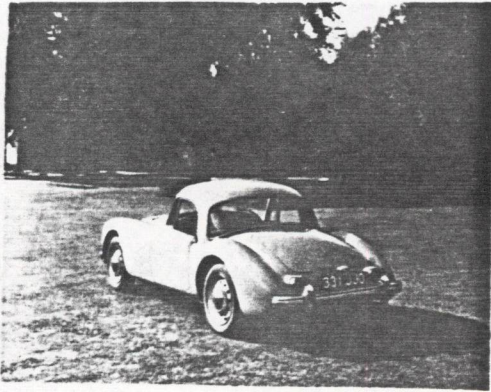
Form: R.F.I.A.

General description of car:



2 seater sports or coupe - steel chassis/body
incorporating aluminium or glassfibre panels
4 cylinder OHV pushrod engine in unit with 4 speed
synchromesh G/Box
Driving rear wheels through three-quarter floating
hypoid axle
Disc brakes are fitted front and rear

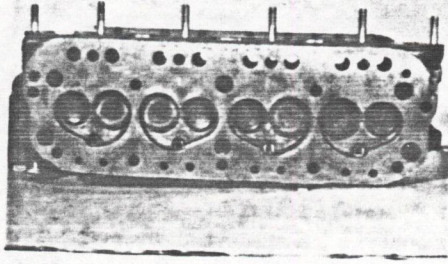
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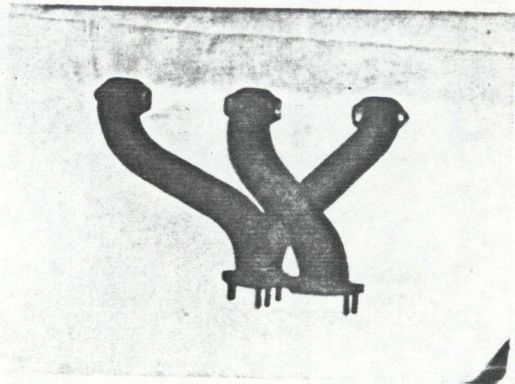
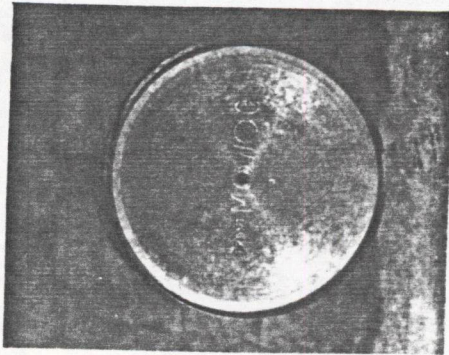
ENGINE

No. of cylinders 4 in line Yes
 in V -
 opposed -
 Cycle 4 stroke Firing order 1,3,4,2
 Capacity 1622 c.c. Bore 76.2 m.m. Stroke 88.9 m.m.
 Maximum rebore 0.040" Resultant capacity 1666 c.c.
 Material of cylinder block Cast iron Material of sleeves, if fitted Cast iron
 Distance from crankshaft centre line to top face of block at centre line of cylinders 252.273/252.527 m.m.
 Material of cylinder head Cast iron Volume of one combustion chamber 42.5/43.5 c.c.
 Compression ratio 9.0:1
 Material of piston Aluminium alloy No. of piston rings 4
 Distance from gudgeon pin centre line to highest point of piston crown 42.07 m.m.
 Bearings { Crankshaft main bearings: Type Copper lead Dia. 50.82 m.m.
 Connecting rod big end: Type Copper lead Dia. 47.66 m.m.
 Weights { Flywheel 13.5 kg.
 Crankshaft 14.9 kg.
 Connecting rod 1.02 kg. - with bearing.
 Piston with rings .36 kg. - less gudgeon pin.
 Gudgeon pin .113 kg.
 No. of valves per cylinder 2 Method of valve operation Pushrod
 No. of camshafts 1 Location of camshafts Cylinder block
 Type of camshaft drive Chain
 Diameter of valves: Inlet 39.8 m.m. Exhaust 33.7 m.m.
 Diameter of port at valve seat: Inlet 33.33 m.m. Exhaust 29.37 m.m.
 Tappet clearance for checking timing: Inlet 0.610 m.m. Exhaust 0.610 m.m.
 Valves open: Inlet 24° BTDC Exhaust 59° BBDC
 Valves close: Inlet 64° ABDC Exhaust 29° ATDC
 Maximum valve lift: Inlet 9.5 m.m. Exhaust 9.5 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 165° Exhaust 165°
 1/2 Maximum lift: Inlet 107° Exhaust 107°
 Valve springs: Inlet Coil Exhaust Coil
 No. per valve 2
 Carburettor: Type Semi D.D. No. fitted 2
 (up or down draft, horizontal) Model H6
 Make SU Choke diameter 41.0 m.m.
 Flange hole diameter 44.5 m.m.
 Main jet identification No. 0.100" KW needles.

Air filter: Type Pancake- dry element No. fitted 2
 Inlet manifold:
 Diameter of flange hole at carburettor 44.7 m.m.
 Diameter of flange hole at port 36.0 m.m.



Exhaust manifold:
 Diameter of flange hole at port Ends-30.1626x36.5126-Centre33.338-36.5126 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 41.275 m.m.



ENGINE ACCESSORIES

Make of fuel pump SU No. fitted 1
 Method of operation Electrical
 Type of ignition system Coil coil or magneto
 Make of ignition Lucas Model DM2
 Method of advance and retard Centrifugal & Vacuum
 Make of ignition coil Lucas Model HA12
 No. of ignition coils 1 Voltage 12
 Make of dynamo Lucas Model C40/1
 Voltage of dynamo 12 Maximum output 22 amps.
 Make of starter motor Lucas Model M35G1
 Battery: No. fitted 2 Voltage 6 Capacity 58 amp. hour
 Oil Cooler (if fitted) type - Capacity - pints

TRANSMISSION

Make of clutch Borg & Beck Type 846G
 Diameter of clutch plate 8" No. of plates One
 Method of operating clutch hydraulic
 Make of gearbox ILC Type Synchromesh 2nd, 3rd. Top.
 No. of gearbox ratios 4 Forward 1 Reverse.
 Method of operating gearshift Manual
 Location of gearshift Remote control central floor.
 Is overdrive fitted? No
 Method of controlling overdrive, if fitted -

	GEARBOX RATIOS				ALTERNATIVE RATIOS			
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.636:1	$\frac{21}{32} \times \frac{11}{28}$	2.44:1	$\frac{25}{26} \times \frac{11}{28}$				
2.	2.214:1	$\frac{21}{32} \times \frac{20}{31}$	1.618:1	$\frac{25}{26} \times \frac{19}{32}$				
3.	1.373:1	$\frac{121}{32} \times \frac{26}{25}$	1.266:1	$\frac{125}{26} \times \frac{29}{22}$				
4.	1.0:1		1.0:1					
R.	4.755:1		3.199:1					

Type of final drive Hypoid- Limited slip
 Type of differential Bevel
 Final drive ratio 4.1:1 Alternatives 4.3:1, 4.875:1, 4.55:1, 3.909:1
 No. of teeth 10/41 9/41, 8/39, 10/43, 11/43
 Overdrive ratio, if fitted -

WHEELS

Type Centre lock disc Weight 7.718 kg.
 Method of attachment hub cap with 4 peg location.
 Rim diameter 381.0 m.m. Rim width 101.6 m.m.
 Tyre size: Front 5.90x15 Rear 5.90x15

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? No
 Type of servo, if fitted -
 No. of hydraulic master cylinders One Bore 22.22 m.m.

	Front		Rear	
No. of wheel cylinders	4		4	
Bore of wheel cylinders	53.99	m.m.	38.1	m.m.
Inside diameter of brake drums	-	m.m.	-	m.m.
No. of shoes per brake	-		-	
Outside diameter of brake discs	279.0	m.m.	279.0	m.m.
No. of pads per brake	2		2	
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	54.0	m.m.	54.0	m.m.
		m.m.		m.m.
Width	47.5	m.m.	47.5	m.m.
Total area per brake	5130.0	m.m. ²	5130.0	m.m. ²

SUSPENSION

	Front		Rear	
Type	Parallel wishbone		Leaf spring	
Type of spring	Coil		Leaf	
Is stabiliser fitted?	No		No	
Type of shock absorber	Lever arm		Lever arm	
No. of shock absorbers	2		2	

STEERING

Type of steering gear	Rack & Pinion	
Turning circle of car	9.8	m., approx.
No. of turns of steering wheel from lock to lock	2 $\frac{2}{3}$	

CAPACITIES AND DIMENSIONS

Fuel tank	45.4	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 of car 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 643 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:—

15 Gallon Fuel Tank - AHH5863

17 Gallon Fuel Tank - AHH 5990

20 Gallon Fuel Tank - AHH5496

Sump Guard

Twin Fuel Pumps

Oil Cooler - ARH113

Export Suspension

Cylinder block - No. 48G159 } - 1588cc.
Pistons - 9.25:1

Touring
Equipment. - { Exhaust manifold - 48G143
{ Touring camshaft - 1H729 --- I.C. 16° BTDC E.O. 51° BBDC
{ Distributor - I.C. 56° ABDC E.C. 21° ATDC
{ Inlet manifold - AEH660 Max. Valve Lift - 9.5mm.
{ H4 1½" SU Carburettors

Anti-roll Bar - AHH5940

Lockheed Discs front - drum rears.

Wire wheels - 4Jx15 - 46 or 60 spoke.

Pressed wheels (4 stud fixing) - 4JX15.

The Royal Automobile Club

Pall Mall, London, S.W.1



Please address all Communications to
THE SECRETARY
Quoting the following Reference :

C

Telegrams: AUTOMOBILE LONDON
Telephone: WHITEHALL 2345 (26 lines)

12th January, 1962.

MGA 1600 Mk.2

The R.A.C. certifies that in excess of 100 cars complying with the Form of Recognition for this model together with the optional equipment listed below have been manufactured within the past twelve months.

- 15 gallon fuel tank - AHH5863
- 17 " " " - AHH5990
- 20 " " " - AHH5496

Twin fuel pumps

Oil cooler ARH113

Anti-roll bar - AHH5940

Lockhead discs front - drum rears

D. H. DELAMONT
Manager, Competitions Department

The Royal Automobile Club

Pall Mall, London, S.W.1

147856

Please address all Communications to

THE SECRETARY

Quoting the following Reference :

CBB/2710.



Telegrams: AUTOMOBILE LONDON
Telephone: WHITEHALL 2345 (26 lines)

14th. December, 1961.

Monsieur S. de Peyerimhoff,
Sous-Commission des Homologations,
Federation Internationale de l'Automobile,
8 Place de la Concorde,
Paris VIIIe,
FRANCE.

Dear M. de Peyerimhoff,

M.G.A. 1600 Mark 2.

Please find enclosed six copies of the form of Recognition for the above car, for which the manufacturers are seeking Homologation. When approved, would you stamp and return the two marked copies to this office, please?

I would certify that in excess of 100 cars identical to the specifications in the form of Recognition for the M.G.A. 1600 Mark 2 have been produced within a twelve-month period.

Yours sincerely,

Bruce Burn,
for Manager,
Competitions Dept.