198

Manufacturers Reference No. for Application GB/65

F.I.A. Recognition No. 198

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 MG CAR COMPANY LIMITED

Model MGB Year of Manufacture 1965

Serial No. of Chassis GHN3 or GHN3L

Engine 18GB-U-Da-H or L

Type of Coachwork 2 seater sports

Recognition is valid from 1st June 1965 In category Grand Touring

Photograph right.

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

Form: R.F.I.A.

Make MG Model MGB F.I.A. Recognition No.

General description of car:

Specify here material/s of chassis/body construction

Steel/Aluminium 2 seater body of unitary construction powered by 4 cylinder OHV engine in unit with 4 speed gearbox driving rear wheels through hypoid rear axle. Front suspension, independent by coil springs and wishbone type links, rear suspension by semi-elliptic leaf springs.

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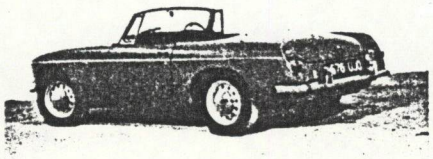

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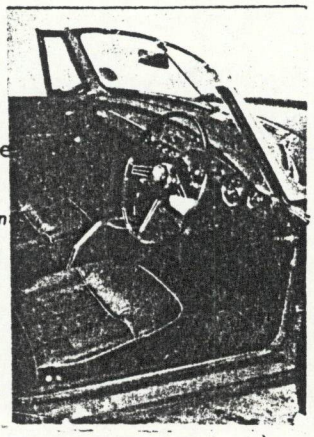

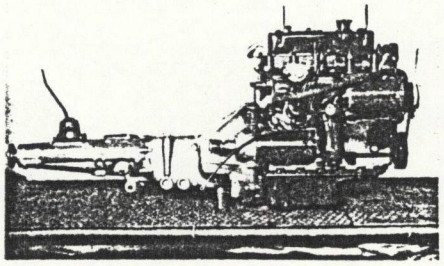

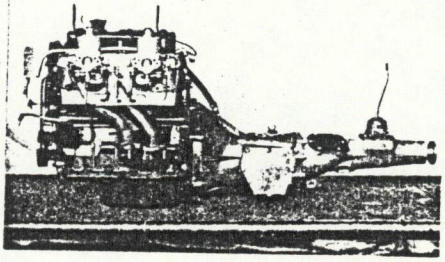

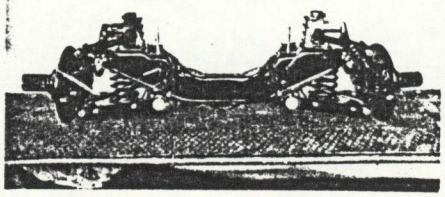

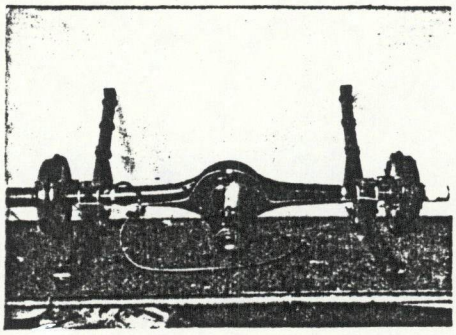

Make Mar Model MkII F.I.A. Recognition No.

ENGINE

In line Yes — Catalogued B.H.P. 95 @ 5400 R.P.M.

No. of cylinders 4 — In V - — at R.P.M.

opposed -

Cycle 4 stroke — Firing order 1, 3, 4, 2

Capacity 1798 c.c. Bore 80.26 m.m. Stroke 89.0 m.m.

Maximum rebore + 1.016 m.m. — Resultant capacity 1840 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 252.4 m.m.

Material of cylinder head Cast Iron — Volume of one combustion chamber 42.5/43.5 c.c.

Compression ratio 8.8:1

Material of piston Aluminium — No. of piston rings 4

Distance from gudgeon pin centre line to highest point of piston crown 42.01 / 42.11 m.m.

Bearings
- Crankshaft main bearings: Type Copper Lead — Dia. 54.02 m.m.
- Connecting rod big end: Type Copper Lead — Dia. 47.66 m.m.

Weights
- Flywheel 13.18 kg.
- Crankshaft 15.0 kg.
- Connecting rod 3.86 kg.
- Piston with rings 0.538 kg.
- Gudgeon pin 0.112 kg.

No. of valves per cylinder 2 — Method of valve operation Push Rod

No. of camshafts 1 — Location of camshafts Cylinder Block

Type of camshaft drive Roller Chain

Diameter of valves:	Inlet	39.68 m.m.	Exhaust	33.11 m.m.
Diameter of port at valve seat:	Inlet	33.35 m.m.	Exhaust	29.68 m.m.
Tappet clearance for checking timing:	Inlet	0.46 m.m.	Exhaust	0.46 m.m.
Valves open:	Inlet	50° BTDC	Exhaust	75° BBDC
Valves close:	Inlet	70° ABDC	Exhaust	45° ATDC
Maximum valve lift:	Inlet	11.5 m.m.	Exhaust	11.5 m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift:	Inlet	152°	Exhaust	152°
¾ Maximum lift:	Inlet	96°	Exhaust	96°

Valve springs:	*Inlet*	*Exhaust*
Type	Coil	Coil
No. per valve	2	2

Carburettor: Type Semi down draught or horizontal (up or down draft, horizontal) — No. fitted 1 or 2

Make S.U. or Weber — Model H.S.4 or 45 DCOE

Flange hole diameter 38.1 or 45 m.m. — Choke diameter 38.1 or 45 m.m.

Main jet identification No. MB Standard Needle or 170

Make MG Model MGB F.I.A. Recognition No.

Air filter: Type Paper element No. fitted 2

Inlet manifold:

Diameter of flange hole at carburettor 38.9 m.m.

Diameter of flange hole at port 35.7 m.m.

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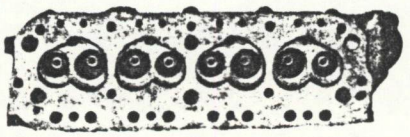

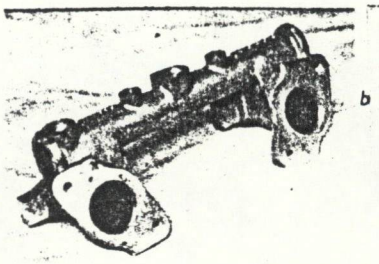

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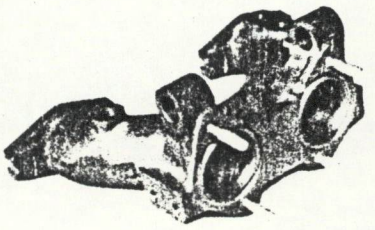

Exhaust manifold:

Diameter of flange hole at port 33.3 m.m.

Diameter of flange hole at connection to silencer inlet pipe 41.3 m.m.

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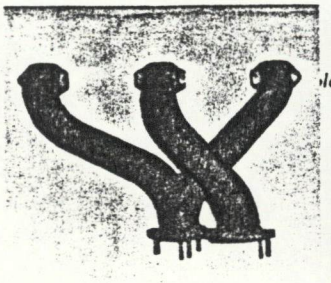

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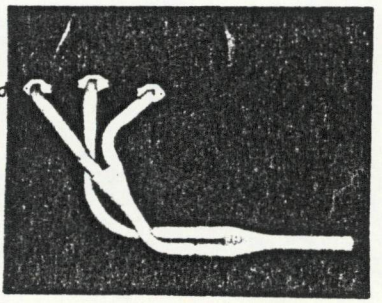

ENGINE ACCESSORIES

Make of fuel pump S.U. No. fitted 1

Method of operation Electrical

Type of ignition system Coil coil or magneto

Make of ignition Lucas Model 25D4

Method of advance and retard Centrifugal and 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 M418G

Battery: No. fitted 2 or 1 Voltage 6 or 12 Capacity 58 amp. hour

Oil Cooler (if fitted) type Intercallary Capacity 0.53 pints

Make MG Model MGB F.I.A. Recognition No.

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TRANSMISSION

Make of clutch Borg & Beck Type DSG

Diameter of clutch plate 203.2 m.m. No. of plates 1

Method of operating clutch Hydraulic

Make of gearbox B.M.C Type 'B' Series, 4 speed

No. of gearbox ratios 4 forward, 1 reverse

Method of operating gearshift Manual

Location of gearshift Central on gearbox tunnel

Is overdrive fitted? Optional

Method of controlling overdrive, if fitted Electrical

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.637	$\frac{30}{21} \times \frac{28}{11}$	2.44	$\frac{25}{26} \times \frac{11}{28}$				
2.	2.215	$\frac{30}{21} \times \frac{31}{20}$	1.618	$\frac{25}{26} \times \frac{19}{32}$				
3.	1.373	$\frac{30}{21} \times \frac{25}{26}$	1.266	$\frac{25}{26} \times \frac{29}{22}$				
4.	1.0:1		1.0:1					
R	4.755	$\frac{30}{21} \times \frac{28}{11} \times \frac{17}{13}$	3.199					

Type of final drive Hypoid

Type of differential Bevel or limited slip

Final drive ratio 3.909:1 Alternatives 4.1:1, 4.3:1, 4.55:1, 4.875:1, 3.307:1

No. of teeth 11/43 10/41, 10/43, 9/41, 8/39, 13/43

Overdrive ratio, if fitted 0.802:1

WHEELS

Type Wire spoke or ventilated disc Weight Wire 6.15 Disc 7.26 kg.

Method of attachment 4 stud or centre lock cap

Rim diameter 355.6 m.m. Rim width 101.6 or 139.7 m.m.

Tyre size: Front 5.60 x 14 Rear 5.60 x 14

BRAKES

Method of operation Hydraulic

Is servo assistance fitted? No

Type of servo, if fitted -

No. of hydraulic master cylinders 1 Bore 19.05 m.m.

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	Front	Rear
No. of wheel cylinders	4	2
Bore of wheel cylinders	53.98 m.m.	- m.m.
Inside diameter of brake drums	- m.m.	254.0 m.m.
No. of shoes per brake	-	2
Outside diameter of brake discs	273.0 m.m.	- m.m.
No. of pads per brake	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	79.0 max m.m.	240.7 m.m.
	m.m.	m.m.
Width	49.0 max m.m.	43.0 m.m.
Total area per brake	6452.0 m.m.²	21678.7 m.m.²

SUSPENSION

	Front	Rear
Type	Independent	Semi-elliptic
Type of spring	Coil	Leaf
Is stabiliser fitted?	Optional	No
Type of shock absorber	Hydraulic lever arm	Hydraulic lever arm
No. of shock absorbers	2	2

STEERING

Type of steering gear Rack and Pinion

Turning circle of car 9.75 m., approx.

No. of turns of steering wheel from lock to lock 2.93

CAPACITIES AND DIMENSIONS

Fuel tank 54.48 litres Sump 4.28 or 6.25 litres

Radiator 5.4 litres

Overall length of car 382.0 cm. Overall width of car 152.3 cm.

Overall height of car, unladen (with hood up, if appropriate) 125.4 cm.

Distance from floor to top of windscreen:

Highest point 90.17 cm. Lowest point 87.63 cm.

Width of windscreen:

Maximum width 121.9 cm. Minimum width 121.9 cm.

*Interior width of car 116.8 cm.

No. of seats 2

Track: Front 125.0 cm. Rear 125.0 cm.

Wheelbase 231.0 cm. Ground clearance 127.0 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 830. kgs.

Make.....*Model*.....*F.I.A. Recognition No.*.....

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.....

Make LG Model LGB F.I.A. Recognition No.

Optional equipment affecting preceeding information:— Fuel Tank AHH 7553
Capacity 109.0 litres.