

Manufacturers Reference No. for Application

ADO47/61



F.I.A. Recognition No.

44

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.*

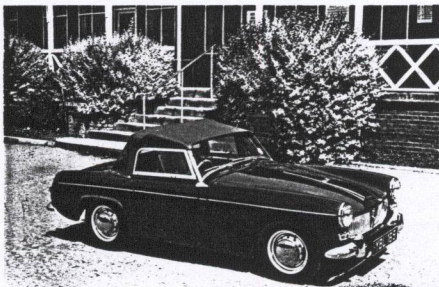
Manufacturer..... The M.G. Car Company Limited.....

Model..... M.G. Midget..... Year of Manufacture..... 1961.....

Serial No. of Chassis..... GAN1/ and G-AN1L/
Engine..... 90G.....

Type of Coachwork..... Two seater sports.....

Recognition is valid from..... 1 SEPT 1961..... In category..... G.T......



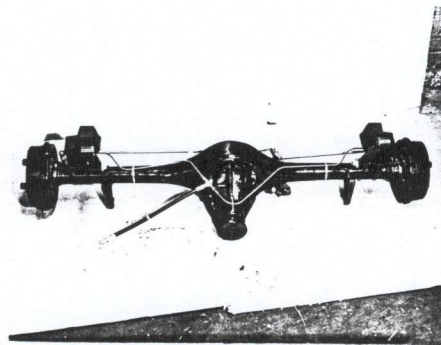
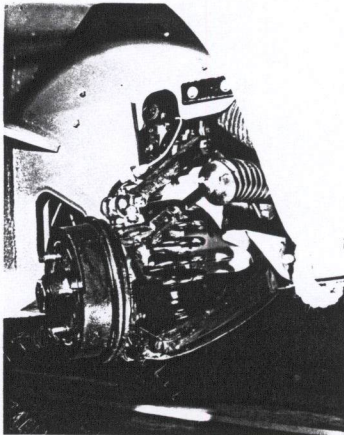
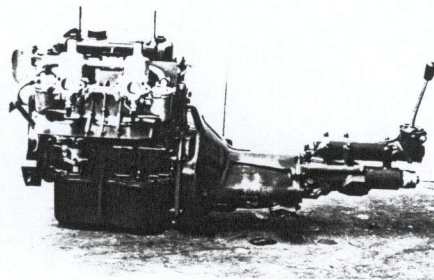
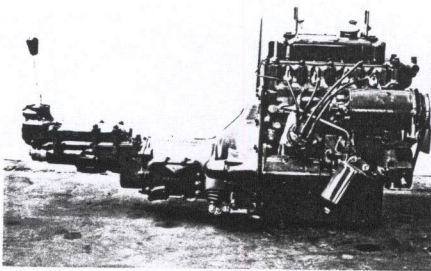
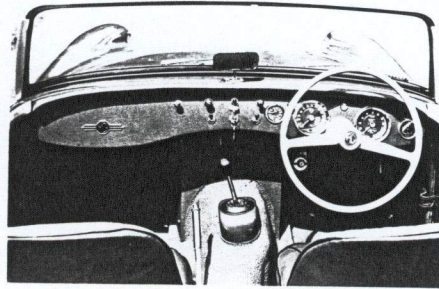
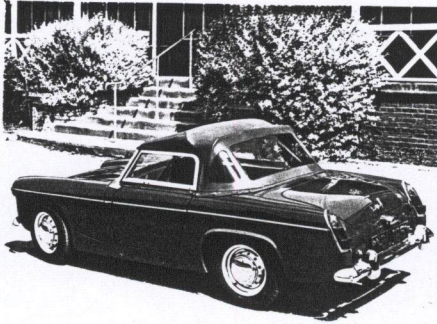
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Stamp of F.I.A. to be affixed here.

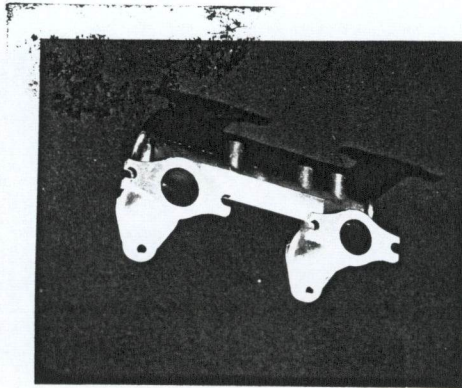
General description of car:



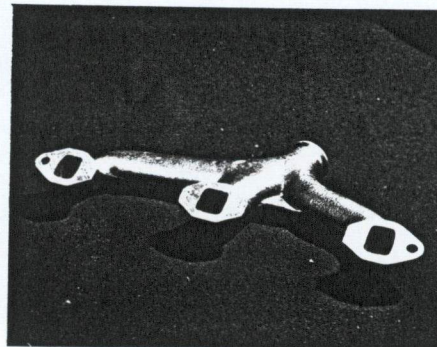
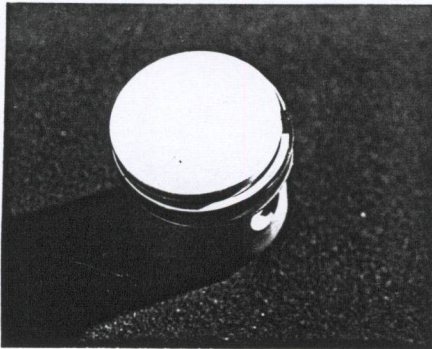
ENGINE

in line Yes
 No. of cylinders 4 in V -
 opposed -
 Cycle Four stroke Firing order 1,3,4,2
 Capacity 948.9 c.c. Bore 62.94 m.m. Stroke 76.2 m.m.
 Maximum rebore 0.010" Resultant capacity 979.6 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 218.44 m.m.
 Material of cylinder head Cast iron Volume of one combustion chamber 29.598 c.c.
 Compression ratio 9.1:1
 Material of piston Aluminium alloy No. of piston rings 3
 Distance from gudgeon pin centre line to highest point of piston crown 34.024 m.m.
 Bearings { Crankshaft main bearings: Type Steel backed Dia. 44.47 m.m.
 Connecting rod big end: Type Steel backed Dia. 41.29 m.m.
 Weights { Flywheel 9.513 kg.
 Crankshaft 9.17 kg.
 Connecting rod 0.69 kg.
 Piston with rings 0.224 kg.
 Gudgeon pin 0.055 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 29.36 m.m. Exhaust 25.4 m.m.
 Diameter of port at valve seat: Inlet 26.19 m.m. Exhaust 23.019 m.m.
 Tappet clearance for checking timing: Inlet 0.533 m.m. Exhaust 0.533 m.m.
 Valves open: Inlet 5° B.T.D.C. Exhaust 51° B.B.D.C.
 Valves close: Inlet 45° A.B.D.C. Exhaust 21° A.T.D.C.
 Maximum valve lift: Inlet 7.97 m.m. Exhaust 7.97 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 130° Exhaust 136°
 $\frac{3}{4}$ Maximum lift: Inlet 81° Exhaust 83°
 Valve springs: Inlet Exhaust
 Type Coil Coil
 No. per valve 2 2
 Carburettor: Type Semi-down draught No. fitted 2
 (up or down draft, horizontal)
 Make S.U. Model 1 $\frac{1}{4}$ " HS2 or 1 $\frac{1}{2}$ " H4 alternative
 Flange hole diameter 31.75 m.m. Choke diameter 31.75 m.m.
 Main jet identification No. 0.090" Standard needle - V3

Air filter: Type Dry replaceable element No. fitted 2
 Inlet manifold:
 Diameter of flange hole at carburettor 33.33 m.m.
 Diameter of flange hole at port 31.75 m.m.



Exhaust manifold:
 Centre 25.4 x 26.98
 Outer 22.225 x 26.988 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 28.575 m.m.



ENGINE ACCESSORIES

Make of fuel pump A.C. Delco No. fitted 1
 Method of operation Mechanical diaphragm operated by camshaft
 Type of ignition system Coil coil or magneto
 Make of ignition Lucas Model DM2
 Method of advance and retard Centrifugal and vacuum
 Make of ignition coil Lucas Model 6LA12
 No. of ignition coils 1 Voltage 12
 Make of dynamo Lucas Model G39PV2
 Voltage of dynamo 12 Maximum output 19 amps.
 Make of starter motor Lucas Model M35G
 Battery: No. fitted 1 Voltage 12 Capacity 43 @ amp. hour
 20 Hr rate

Make MG Model Midget F.I.A. Recognition No. 44
 Manufacturers Reference No. of Application ADO47/61

TRANSMISSION

Make of clutch Borg & Beck Type 6 1/4 AG
 Diameter of clutch plate 6 1/4 ins No. of plates 1
 Method of operating clutch Hydraulic
 Make of gearbox B.M.C. Type Synchromesh 2nd, 3rd, top
 No. of gearbox ratios 4 forward, 1 reverse
 Method of operating gearshift Remote control lever
 Location of gearshift 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.	3.2:1	$\frac{26}{20} \times \frac{32}{13}$	3.627	$\frac{28}{19} \times \frac{32}{13}$				
2.	1.916:1	$\frac{26}{20} \times \frac{28}{19}$	2.374	$\frac{28}{19} \times \frac{29}{18}$				
3.	1.357:1	$\frac{26}{20} \times \frac{24}{23}$	1.412	$\frac{28}{19} \times \frac{23}{24}$				
4.	1.00:1	$\frac{26}{20} \times \frac{24}{23}$	1.000	$\frac{28}{19} \times \frac{24}{24}$				
<u>X R</u>	<u>4.114:1</u>	<u>$\frac{20 \times 18 \times 32}{20 \times 13 \times 14}$</u>	<u>4.66</u>	<u>$\frac{28 \times 18 \times 32}{19 \times 13 \times 14}$</u>				

Type of final drive Hypoid
 Type of differential Bevel
 Final drive ratio 4.22:1 Alternatives 4.55:1, 4.875:1
 No. of teeth 9/38 9/41, 8/39
 Overdrive ratio, if fitted.....

WHEELS

Type Disc Weight 5.209 kg.
 Method of attachment 4 stud
 Rim diameter 330.2 m.m. Rim width 132.08 m.m.
 Tyre size: Front 5.20 x 13 Rear 5.20 x 13

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? No
 Type of servo, if fitted -
 No. of hydraulic master cylinders 1 Bore 22.22 m.m.

	Front		Rear
No. of wheel cylinders	2		1
Bore of wheel cylinders	23.81	m.m.	22.22
Inside diameter of brake drums	177.8	m.m.	177.8
No. of shoes per brake	2		2
Outside diameter of brake discs	-	m.m.	-
No. of pads per brake	-		-
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	171.45	m.m.	171.45
		m.m.	
Width	31.75	m.m.	31.75
		m.m.	
Total area per brake	10837.1	m.m. ²	10887.1

SUSPENSION

	Front		Rear
Type	Independent		Quarter Elliptic
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 and Pinion
Turning circle of car	9.60 m., approx.
No. of turns of steering wheel from lock to lock	2.25

CAPACITIES AND DIMENSIONS

Fuel tank	27.24	litres	Sump	3.69	litres
Radiator	4.114	litres			
Overall length of car	349.5	cm.	Overall width of car	134.6	cm.
Overall height of car, unladen (with hood up, if appropriate)	126.4	cm.			
Distance from floor to top of windscreen:					
Highest point	92.71	cm.	Lowest point	91.44	cm.
Width of windscreen:					
Maximum width	108.585	cm.	Minimum width	106.68	cm.
*Interior width of car	119.38	cm.			
No. of seats	2				
Track: Front	116.2	cm.	Rear	113.8	cm.
Wheelbase	203.2	cm.	Ground clearance	127	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 ~~590.7~~ 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.....

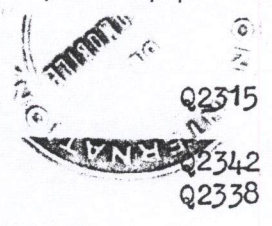
Fuel injection, if fitted

Make of pump..... Model or Type No.....

Make of injectors..... Model or Type No.....

Location of injectors.....

Optional equipment affecting preceding information:—



- Anti-Roll bar kit
- Hardtop
- Oil Cooler
- Sump Protection Plate
- Fuel tank 70

Alternative carburettor: (as from 9th April 1962)
 Carburettor type: horizontal
 Model: HS DCOE
 Make: Weber
 Number: 1
 Flange hole diameter 45 mm
 Choke diameter 36 mm

Optional equipment (as from 11th July 1962)
 wheel type - wire spoke - weight - 5.44 kgs
 Method of attachment - knock on hub cap.
 Rim diameter - 330.2 mm - Rim width 88.9
 Brakes - hydraulic
 1 Master cylinder - Bore 19, 04 mm
 No of wheel cylinder - Front Rear
 Bore of wheel cylinder 4 2
 50, 78 19, 04
 Inside diameter of brake drum " 184, 0
 No of shoes per brake " 2
 Outside dia. of brake disc 209, 5 "
 No of pads per brake 2
 Dimensions of lining per shoe or pad
 Length approx 58, 9 177, 73
 Width " 41, 63 31, 8
 Total area per brake " 4900 mm² 11302, 0 mm²

R 19/4/62

The Royal Automobile Club

Pall Mall, London, S.W.1

109-2-02

Please address all Communications to
THE SECRETARY

Quoting the following Reference :

C/DHD/JMH/3806



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

9th April, 1962.

Monsieur H. Schroeder,
Secretary, C.S.I.,
8 Place de la Concorde,
PARIS VIII,
France

arrêter la piste
et AR
10/4/62

Dear Monsieur Schroeder,

MG Midget

Please would you approve the alternative carburettor equipment as detailed below for the above car and I confirm that over 100 models with this equipment have been manufactured within the past 12 months -

Carburettor type - Horizontal. Model - 45DCOE.
Make - Weber. Number - 1
Flange hole dia. - 45 mm. Choke dia. - 36 mm.

Yours sincerely,

D. H. DELAMONT

Manager, Competitions Department

p.p.