

Manufacturers Reference No. for Application

AD050/61



F.I.A. Recognition No.

45

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 British Motor Corporation Limited

Model Austin 7 Cooper/Morris Mini Cooper Year of Manufacture 1961

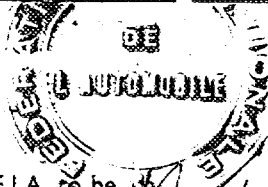
Serial No. of Chassis C-A287 & K-A284

Engine 9F-SA-H

Type of Coachwork 2 door saloon

Recognition is valid from 31 OCT 1961

In category Grand Touring



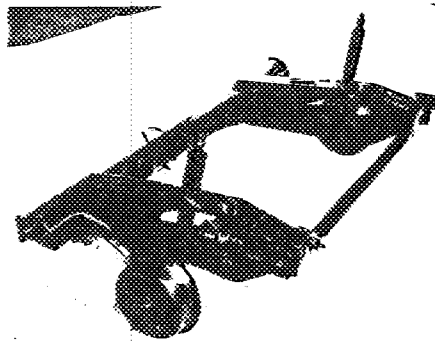
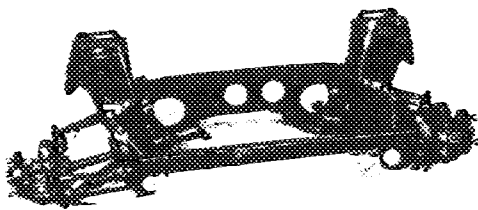
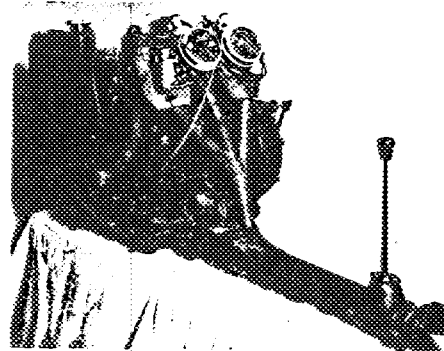
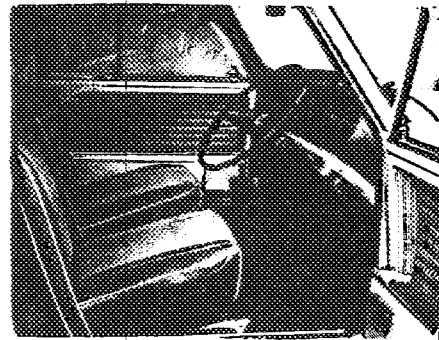
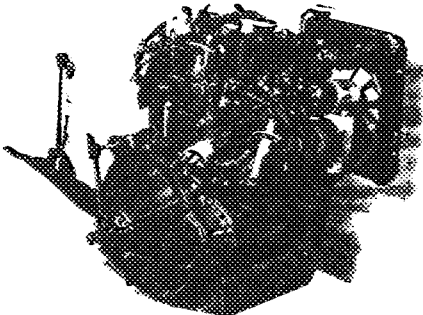
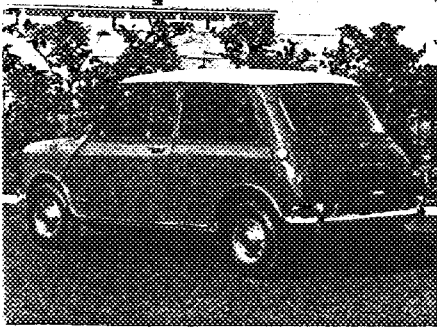
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Hubert Choudry

General description of car:

4 seater, 2 door saloon
transverse engine, with unit gearbox
and final drive mounted forward and
driving front wheels

Suspension - Independent all round
via rubber cone springs.

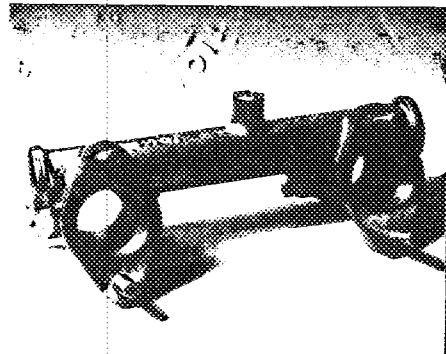
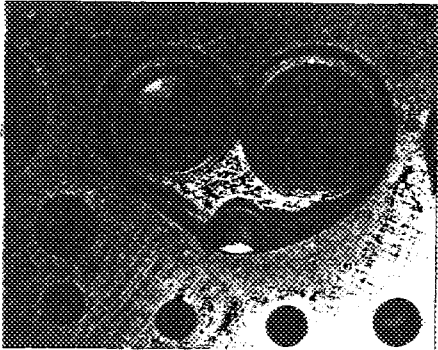


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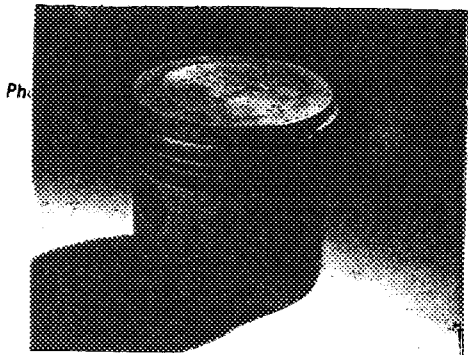
ENGINE

in line Yes
 No. of cylinders 4 in V -
 opposed -
 Cycle 4 stroke Firing order 1.3.4.2.
 Capacity 997 c.c. Bore 62.43 m.m. Stroke 81.3 m.m.
 Maximum rebore 0.010" Resultant capacity 1029 c.c.
 Material of cylinder block Cast Iron Material of sleeves, if fitted -
 Distance from crankshaft centre line to top face of block at centre line of cylinders 218.4 m.m.
 Material of cylinder head Cast iron Volume of one combustion chamber 26.36 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 31.54 m.m.
 Bearings { Crankshaft main bearings: Type Copper Lead Dia. 44.47 m.m.
 Connecting rod big end: Type Copper Lead Dia. 40.89 m.m.
 Weights { Flywheel 6.7 kg.
 Crankshaft 10.43 kg.
 Connecting rod .695 kg.
 Piston with rings .202 kg.
 Gudgeon pin .054 kg.
 No. of valves per cylinder 2 Method of valve operation Push Rod & Rockers
 No. of camshafts One Location of camshafts Crankcase
 Type of camshaft drive Roller chain
 Diameter of valves: Inlet 29.37 m.m. Exhaust 25.4 m.m.
 Diameter of port at valve seat: Inlet 27.127 m.m. Exhaust 23.09 m.m.
 Tappet clearance for checking timing: Inlet .48 m.m. Exhaust .48 m.m.
 Valves open: Inlet 16° BTDC Exhaust 51° BBDC
 Valves close: Inlet 56° ABDC Exhaust 21° ATDC
 Maximum valve lift: Inlet 7.94 m.m. Exhaust 7.94 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 110° ATDC Exhaust 255° ATDC
 ¾ Maximum lift: Inlet 58° ATDC Exhaust 203° ATDC
 Valve springs: Inlet Coil Exhaust Coil
 No. per valve One One
 Carburettor: Type Semi-down draught No. fitted 2
 (up or down draft, horizontal)
 Make S.U. Model HS2 or Alternative H4
 Flange hole diameter 31.75 m.m. Choke diameter 31.75 m.m.
 Main jet identification No. 0.090" - standard needle - GZ

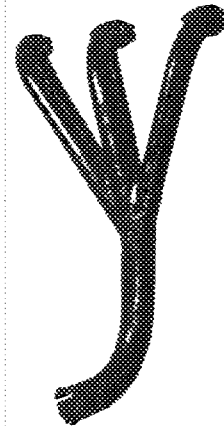
Air filter: Type Pancake type No. fitted 2
 Inlet manifold:
 Diameter of flange hole at carburettor 38.1 m.m.
 Diameter of flange hole at port 33.4 m.m.



Exhaust manifold:
Rectangular Diameter of flange hole at port 2 outer 23.07x27.7 centre 26.1x27.7 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 42.06 m.m.



Photo



here.

ENGINE ACCESSORIES

Make of fuel pump S.U. No. fitted One
 Method of operation Electrical
 Type of ignition system Coil and distributor coil or magneto
 Make of ignition Lucas Model DM2
 Method of advance and retard centrifugal and vacuum
 Make of ignition coil Lucas Model HA12
 No. of ignition coils One Voltage 12
 Make of dynamo Lucas Model CL0
 Voltage of dynamo 12 Maximum output 22 amps.
 Make of starter motor Lucas Model M35
 Battery: No. fitted One Voltage 12 Capacity 43 amp. hour

Make Anatin/Morris Model Cooper F.I.A. Recognition No.
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TRANSMISSION

Make of clutch B.M.C. Type Dry plate
 Diameter of clutch plate 181mm No. of plates One
 Method of operating clutch Hydraulic, to toggle lever, to direct ball thrust
 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
 Location of gearshift Through floor just forward of seat
 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.	3.20:1	$\frac{26}{20} \times \frac{32}{13}$	3.627:1	$\frac{28}{19} \times \frac{32}{13}$				
2.	1.916:1	$\frac{126}{20} \times \frac{28}{19}$	2.172:1	$\frac{128}{19} \times \frac{28}{19}$				
3.	1.355:1	$\frac{126}{20} \times \frac{24}{23}$	1.412:1	$\frac{128}{19} \times \frac{23}{24}$				
4.	1:1	Direct	1:1	Direct				
/ R	3.20:1	$\frac{26 \times 18 \times 32}{20 \times 13 \times 18}$	3.627:1	$\frac{28 \times 18 \times 32}{19 \times 13 \times 18}$				

Type of final drive Single Helical Spur Gear
 Type of differential Bevel pinion
 Final drive ratio 3.765/1 Alternatives 3.44/1, 4.26/1
 No. of teeth 17-64 18-62 15-64
 Overdrive ratio, if fitted -

WHEELS

Type Disc, with safety ledge rim Weight 3.175 kg.
 Method of attachment 4 Stud
 Rim diameter 254 m.m. Rim width 88.8 m.m.
 Tyre size: Front 5.20 x 10 Rear 5.20 x 10

BRAKES

Method of operation Hydraulic
 Is ~~servo~~ assistance fitted? Intensifier, operating on frontbrakes only
 Type of servo, if fitted Intensifier, Lockheed hydraulic
 No. of hydraulic master cylinders One Bore 19.05 m.m.

	Front		Rear
No. of wheel cylinders	<u>2 per Brake</u>		<u>1 per Brake</u>
Bore of wheel cylinders	<u>41.2</u> m.m.		<u>19.05</u> m.m.
Inside diameter of brake drums	<u>-</u> m.m.		<u>177.8</u> m.m.
No. of shoes per brake	<u>-</u>		<u>2</u>
Outside diameter of brake discs	<u>178</u> m.m.		<u>-</u> m.m.
No. of pads per brake	<u>2</u>		<u>-</u>
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	<u>55</u> m.m.		<u>171.45</u> m.m.
	<u>-</u> m.m.		<u>-</u> m.m.
Width	<u>38</u> m.m.		<u>31.75</u> m.m.
Total area per brake	<u>3860</u> m.m. ²		<u>10,887</u> m.m. ²

SUSPENSION

	Front		Rear
Type	<u>Transverse wishbone</u>		<u>Trailing arm</u>
Type of spring	<u>Rubber Cone</u>		<u>Rubber Cone</u>
Is stabiliser fitted?	<u>No</u>		<u>NO</u>
Type of shock absorber	<u>Telescopic</u>		<u>Telescopic</u>
No. of shock absorbers	<u>1 per wheel</u>		<u>1 per wheel</u>

STEERING

Type of steering gear	<u>Rack & pinion</u>
Turning circle of car	<u>9.2</u> m., approx.
No. of turns of steering wheel from lock to lock	<u>2½</u>

CAPACITIES AND DIMENSIONS

Fuel tank	<u>25</u> litres	Sump	<u>5.12</u> litres
Radiator Coolant	<u>3.5</u> litres		
Overall length of car	<u>305.5</u> cm.	Overall width of car	<u>141</u> cm.
Overall height of car, unladen (with hood up, if appropriate)	<u>134.6</u> cm.		
Distance from floor to top of windscreen:			
Highest point	<u>105</u> cm.	Lowest point	<u>102</u> cm.
Width of windscreen:			
Maximum width	<u>112</u> cm.	Minimum width	<u>105</u> cm.
*Interior width of car	<u>116.8</u> cm.		
No. of seats	<u>4</u>		
Track: Front	<u>122</u> cm.	Rear	<u>116.5</u> cm.
Wheelbase	<u>203.5</u> cm.	Ground clearance	<u>162</u> 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 584.8 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.....

ADO50/61

Optional equipment affecting preceding information:—

Coolant capacity without heater - 3 litres

Twin Fuel tanks, giving total capacity - 45 litres

Sump guard - ADO34/64

Oil cooler - DEV2769

Recirculatory or fresh air heater

Radio

