

Manufacturers Reference No. for Application

ADO50T/61



F.I.A. Recognition No.

1095

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 Ltd.,

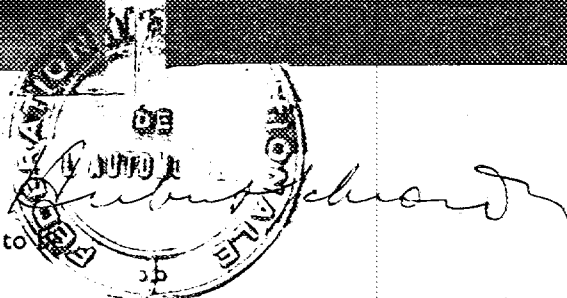
Model Austin 7 Cooper/Morris Mini Cooper Year of Manufacture 1961

Chassis C/A2S7 & K/A2S4

Serial No. of Engine 9F/SA/H

Type of Coachwork 2 door saloon

Recognition is valid from 10/5/61 In category Touring



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

Form: R.F.I.A.

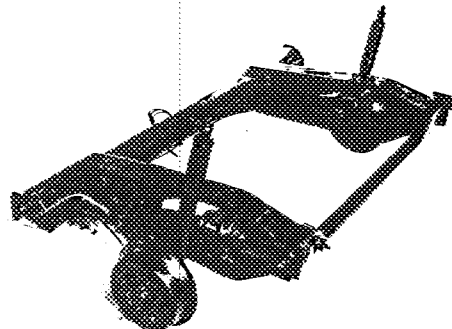
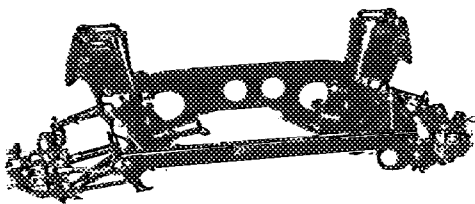
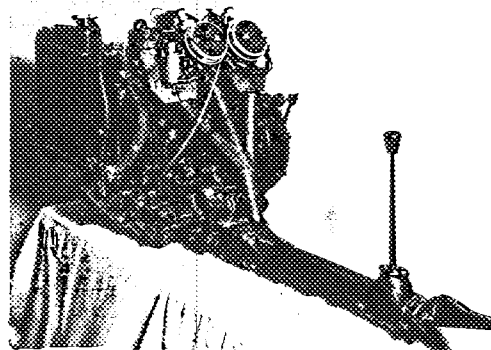
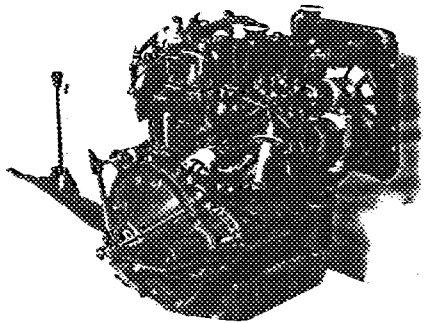
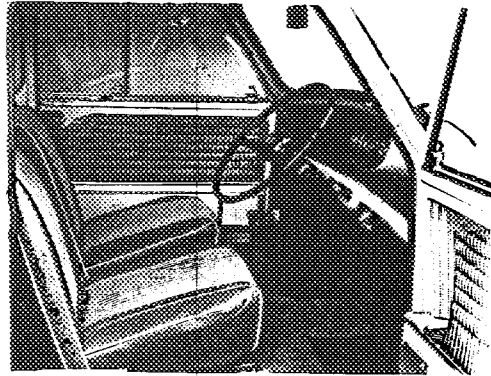
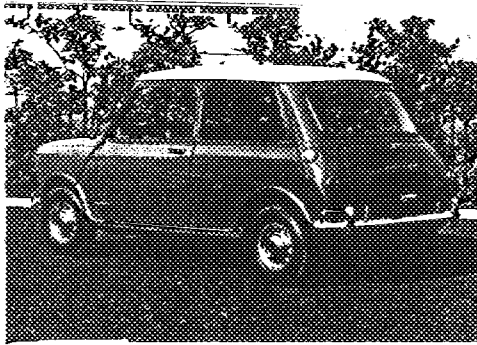
General description of car:



4 seater, 2 door saloon of steel unitary construction.

Transverse engine with unit gearbox and final drive mounted forward and driving front wheel
Suspension - Independent all round via rubber cone springs.

to be affixed below.



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 0.040" 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 23.2 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. 40.09 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 0.38 m.m. Exhaust 0.38 m.m.

Valves open: Inlet 24° BTDC Exhaust 59° BDC

Valves close: Inlet 64° ABDC Exhaust 29° ATDC

Maximum valve lift: Inlet 8.128 m.m. Exhaust 8.128 m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift: Inlet 150° Exhaust 150°

$\frac{3}{4}$ Maximum lift: Inlet 92° Exhaust 92°

Valve springs: Inlet Coil Exhaust Coil

No. per valve Two Two

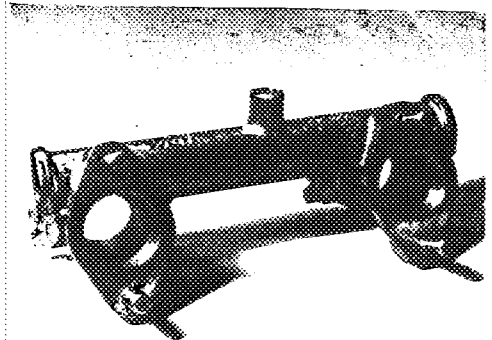
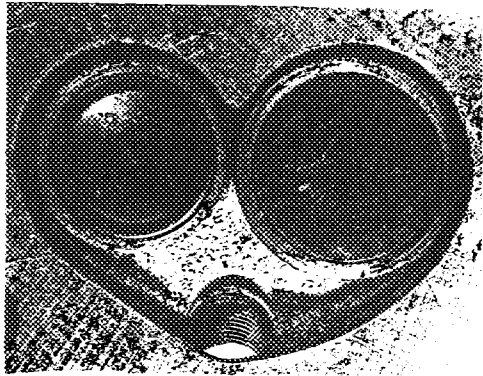
Carburettor: Type Semi-down draught No. fitted 2
 (up or down draft, horizontal)

Make SU 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.



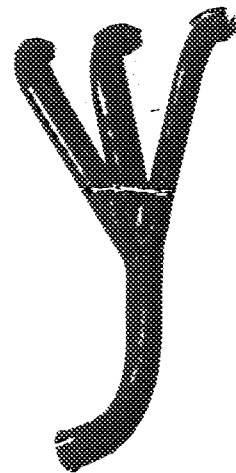
Exhaust manifold:
 Diameter of flange hole at port 2 outer - 23.07x27.7 centre 26.1x27.7 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 42.06 m.m.

Rectangular

Photograph



Photograph



ere.

ENGINE ACCESSORIES

Make of fuel pump SU No. fitted One
 Method of operation Electrical
 Type of ignition system Coil & distributor coil or magneto
 Make of ignition Lucas Model DA.2
 Method of advance and retard Centrifugal & vacuum
 Make of ignition coil Lucas Model HA12
 No. of ignition coils One Voltage 12
 Make of dynamo Lucas Model G40
 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
 Oil Cooler (if fitted) type - Capacity - pints

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.	3.2:1	$\frac{26}{20} \times \frac{32}{13}$	3.627:1	$\frac{28}{19} \times \frac{32}{13}$				
2.	1.916:1	$\frac{26}{20} \times \frac{28}{19}$	2.172:1	$\frac{28}{19} \times \frac{28}{19}$				
3.	1.355:1	$\frac{26}{20} \times \frac{24}{23}$	1.412:1	$\frac{28}{19} \times \frac{23}{24}$				
4.	1:1	Direct	1:1	Direct				
5.	3.2:1	$\frac{26 \times 18 \times 32}{20 \times 13 \times 18}$	3.627:1	$\frac{28 \times 18 \times 32}{19 \times 13 \times 18}$				

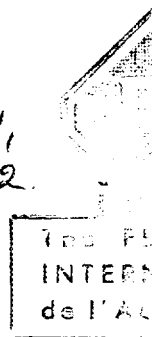
Type of final drive Single helical spur gear
 Type of differential Bevel pinion
 Final drive ratio 3.765/1 Alternatives 3.44/1, 4.26/1, 4.786, 4.1/1
 No. of teeth 17-64 18-62, 15-64, 67/14, 15/62
 Overdrive ratio, if fitted _____

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 front brakes 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	2 per brake	1 per brake
Bore of wheel cylinders	41.2 m.m.	19.05 m.m.
Inside diameter of brake drums	- m.m.	177.8 m.m.
No. of shoes per brake	-	2
Outside diameter of brake discs	178 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	55 m.m.	171.45 m.m.
	- m.m.	- m.m.
Width	38 m.m.	31.75 m.m.
Total area per brake	3860 m.m. ²	10,887 m.m. ²

SUSPENSION

	Front	Rear
Type	Transverse wishbone	Trailing Arm
Type of spring	Rubber Cone	Rubber Cone
Is stabiliser fitted?	No	No
Type of shock absorber	Telescopic	Telescopic
No. of shock absorbers	1 per wheel	1 per wheel

STEERING

Type of steering gear	Rack & pinion
Turning circle of car	9.2 m., approx.
No. of turns of steering wheel from lock to lock	2 $\frac{1}{3}$

CAPACITIES AND DIMENSIONS

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

Optional equipment affecting preceeding information:—

Twin fuel tanks, total capacity - 45 litres

Sump guard - ADO34/64

Oil cooler - DEV 2769

Recirculatory or fresh air heater

Radio

Touring camshaft - Timing - I.O. 16° BTDC I.C. 56° ATDC
Ex. O. 51° BBDC Ex. C. 21° ATDC
Max. lift - 7.94mm

Twin fuel pumps

Export radiator

