

Manufacturers Reference No. for Application

AD044/61



F.I.A. Recognition No.

1097

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 Austin Motor Company Limited

Model Austin A40 MK. 2 Year of Manufacture 1961

Serial No. of Chassis A/A2S8, A/A2S8L, or A/AW8, A/AW8L.
Engine 9D/U/H or 9D/U/L

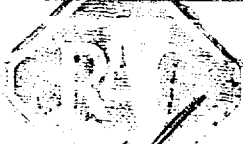
Type of Coachwork 2 Door saloon or Countryman

Recognition is valid from 16-JAN-62 In category Touring

Phc



Phc



Stamp of F.I.A. to be affixed here.
MEMBER OF
THE FEDERATION
INTERNATIONALE
de l'AUTOMOBILE

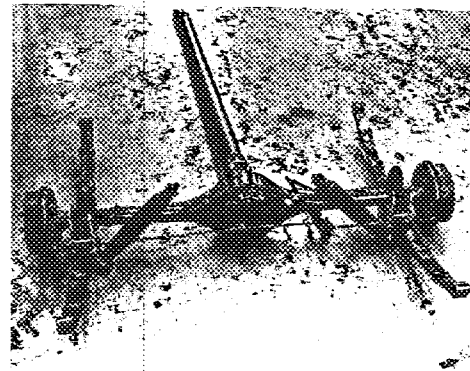
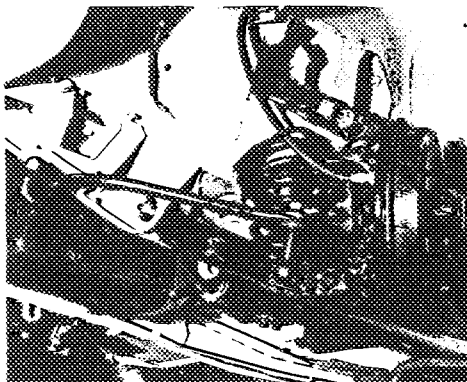
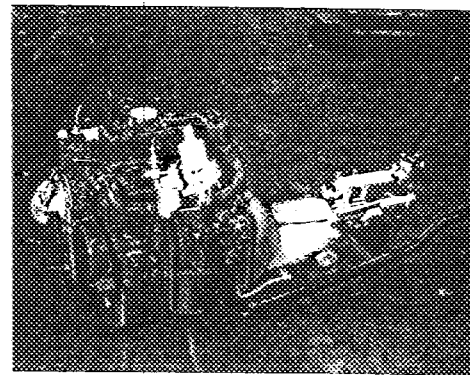
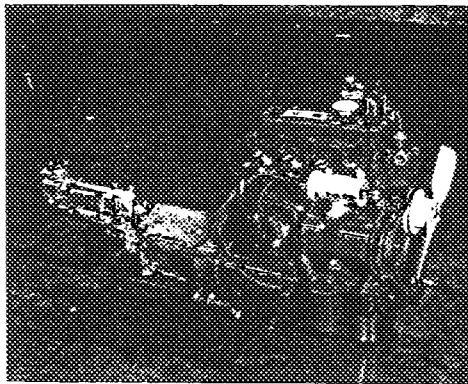
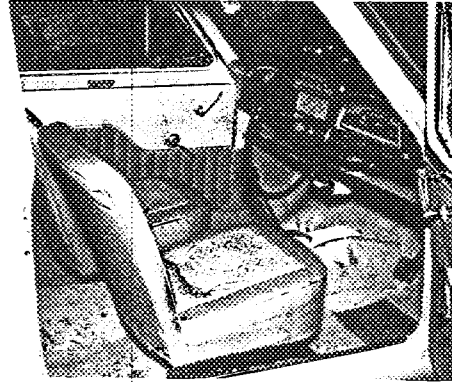
Form: R.F.I.A.

General description of car:

Specify here material/s of chassis/body construction

4 Seater 2 door saloon of steel unitary construction
Powered by four cylinder OHV engine driving rear wheels
through 4 speed synchromesh G/Box & hypoid final drive.
Suspension by transverse wishbone/coil spring at front
and semi-elliptic leaf spring at rear.

Photographs to be affixed



ENGINE

in line Yes

No. of cylinders 4 in V -
 opposed -

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

Capacity 948 c.c. Bore 62.94 m.m. Stroke 76.2 m.m.

Maximum rebore 1.016 mm Resultant capacity 979 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 218.31/218.57 m.m.

Material of cylinder head Cast iron Volume of one combustion chamber 24.5 c.c.

Compression ratio 8.3 or 7.2:1

Material of piston Aluminium alloy No. of piston rings 4

Distance from gudgeon pin centre line to highest point of piston crown 33.95/34.09 m.m.

Bearings { Crankshaft main bearings: Type White metal Dia. 44.46 m.m.
 Connecting rod big end: Type Copper lead Dia. 40.89 m.m.

Weights { Flywheel 9.5 kg.
 Crankshaft 8.7 kg.
 Connecting rod .69 kg.
 Piston with rings .228 kg.
 Gudgeon pin .057 kg.

No. of valves per cylinder 2 Method of valve operation Pushrod & rocker

No. of camshafts 1 Location of camshafts Crankcase

Type of camshaft drive Chain

Diameter of valves: Inlet 27.8 m.m. Exhaust 25.4 m.m.

Diameter of port at valve seat: Inlet 24.34 m.m. Exhaust 22.83/23.32 m.m.

Tappet clearance for checking timing: Inlet .48 m.m. Exhaust .48 m.m.

Valves open: Inlet 5° BTDC Exhaust 40° BBDC

Valves close: Inlet 45° ABDC Exhaust 10° ATDC

Maximum valve lift: Inlet 7.15 m.m. Exhaust 7.15 m.m.

Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 110° ATDC Exhaust 75° ABDC
 ¾ Maximum lift: Inlet 62½° ATDC Exhaust 27½° ABDC

Valve springs: Inlet Coil Exhaust Coil
 No. per valve Two Two

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

Make S.U. Model HS2 or H4 alternative

Flange hole diameter 31.75 m.m. Choke diameter 31.75 m.m.

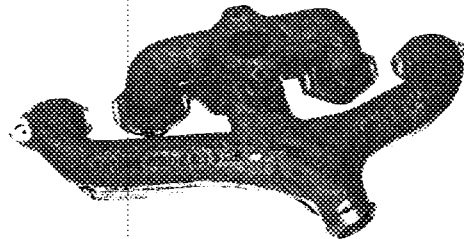
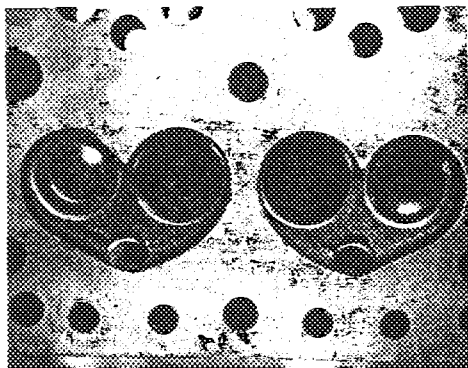
Main jet identification No. 0.090" Needle -

Air filter: Type Combined cleaner-silencer No. fitted 1

Inlet manifold:

Diameter of flange hole at carburettor 31.75 m.m.

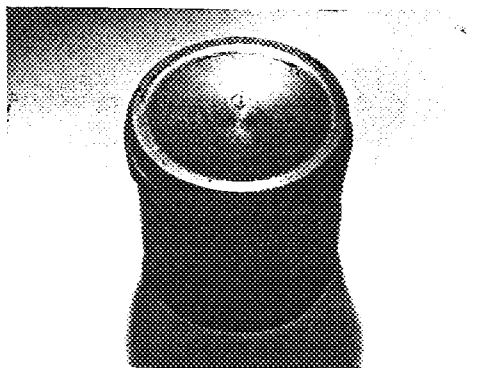
Diameter of flange hole at port 26.95 m.m.



Exhaust manifold:

Diameter of flange hole at port Centre-26.95x25.4 outer 26.95x22.22 m.m.

Diameter of flange hole at connection to silencer inlet pipe 28.55 m.m.



Photograph of exhaust manifold to be affixed here.

See above.

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 & vacuum

Make of ignition coil Lucas Model LA12

No. of ignition coils 1 Voltage 12

Make of dynamo Lucas Model C40

Voltage of dynamo 12 Maximum output 22 amps.

Make of starter motor Lucas Model M35G

Battery: No. fitted 1 Voltage 12 Capacity 4.3 amp. hour

Oil Cooler (if fitted) type - Capacity - pints

Make Austin Model A.O. MK. 2 F.I.A. Recognition No. _____

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TRANSMISSION

Make of clutch Borg & Beck Type Dry plate
 Diameter of clutch plate 6 1/4" No. of plates 1
 Method of operating clutch Hydraulic
 Make of gearbox BMC Type 4 speed/3 synchromesh
 No. of gearbox ratios 4 Forward 1 Reverse
 Method of operating gearshift Manual Remote Control
 Location of gearshift Centre of car on floor, next to driver
 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.	3.627:1	$\frac{32 \times 28}{13 \times 19}$	3.2:1	$\frac{26 \times 32}{20 \times 13}$				
2.	2.374:1	$\frac{29 \times 28}{18 \times 19}$	1.916:1	$\frac{26 \times 28}{20 \times 19}$				
3.	1.412:1	$\frac{23 \times 28}{24 \times 19}$	1.357:1	$\frac{26 \times 24}{20 \times 23}$				
4.	1.0:1		1.0:1					
xR.	4.665:1	$\frac{18 \times 32 \times 28}{13 \times 14 \times 19}$	4.114:1	$\frac{20 \times 18 \times 32}{20 \times 13 \times 14}$				

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

WHEELS

Type Disc Weight 5.44 kg.
 Method of attachment Four nuts & studs
 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 19.05 m.m.

	Front		Rear
No. of wheel cylinders	4		2
Bore of wheel cylinders	20.32	m.m.	19.05
Inside diameter of brake drums	203.2	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	193	m.m.	171.5
		m.m.	
Width	38.1	m.m.	31.75
Total area per brake	14707	m.m. ²	10840

SUSPENSION

	Front		Rear
Type	Transverse Wishbone		Leaf Spring
Type of spring	Coil		Semi Elliptic Leaf
Is stabiliser fitted?	Yes		No
Type of shock absorber	Double Acting Lever		Telescopic
No. of shock absorbers	2		2

STEERING

Type of steering gear	Cam & Peg
Turning circle of car	10.9 m., approx.
No. of turns of steering wheel from lock to lock	2½

CAPACITIES AND DIMENSIONS

Fuel tank	32	litres	Sump	3.41	litres
Coolant	4.85	4.85	litres		
Overall length of car	368.62	cm.	Overall width of car	150.81	cm.
Overall height of car, unladen (with hood up, if appropriate)	144.14	cm.			
Distance from floor to top of windscreen:					
Highest point	109.22	cm.	Lowest point	77.15	cm.
Width of windscreen:					
Maximum width	114.3	cm.	Minimum width	106.68	cm.
*Interior width of car	117	cm.			
No. of seats	4				
Track: Front	119.4	cm.	Rear	119.4	cm.
Wheelbase	221.4	cm.	Ground clearance	162.7	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 741.3 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:—

Sump Guard

Export Suspension.

