

Manufacturers Reference No. for Application

AD044/62



F.I.A. Recognition No.

1178

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.II (1098) Year of Manufacture 1962

Serial No. of Chassis A-A2S9, A-A2S9L, A-AW9, A-AW9L
Engine 10D-U-H or 10D-U-L

Type of Coachwork 2 door saloon or countryman

Recognition is valid from 29 JANV. 1963 In category Tourisme

*liste generale 9
additionnelle 13*

Photo



right.



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

Form: R.F.I.A.

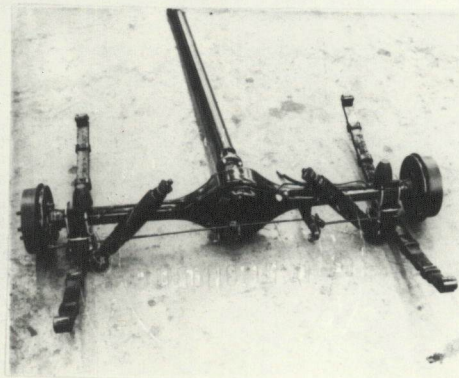
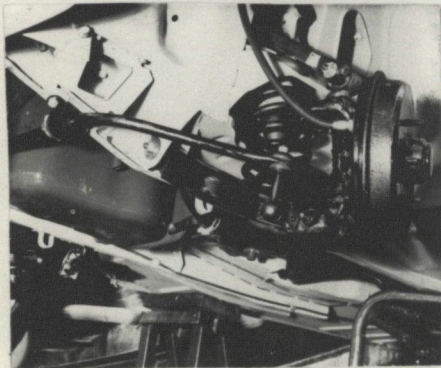
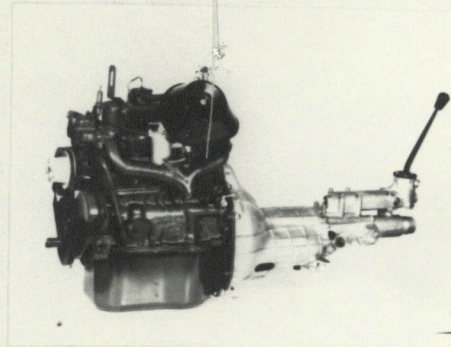
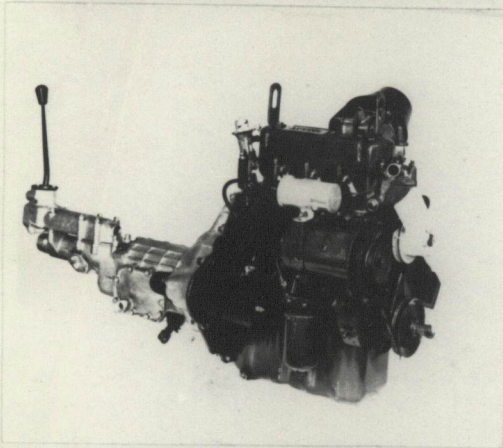
General description of car:

Specify here material/s of chassis/body construction

2 door saloon or countryman of unitary construction powered by 4 cylinder OhV engine driving hypoid rear axle through 4 speed synchromesh gearbox. Front suspension by coil spring and wishbones, rear suspension by semi-elliptic leaf springs.



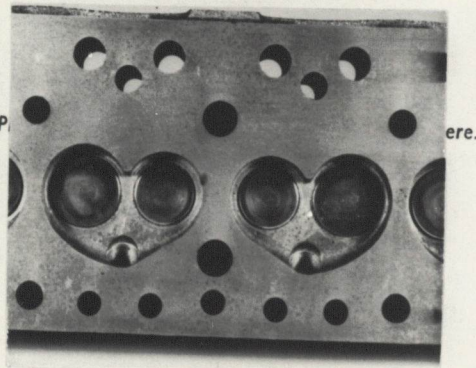
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ENGINE

in line Yes
 No. of cylinders 4 in V -
 opposed -
 Cycle 4 stroke Firing order 1,3,4,2,
 Capacity 1098 c.c. Bore 64.58 m.m. Stroke 83.72 m.m.
 Maximum rebore +0.020" Resultant capacity 1116 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 24.8 c.c.
 Compression ratio 8.5:1
 Material of piston Aluminium alloy No. of piston rings 4
 Distance from gudgeon pin centre line to highest point of piston crown 30.33 m.m.
 Bearings { Crankshaft main bearings: Type Copper lead Dia. 44.46 m.m.
 Connecting rod big end: Type Copper lead Dia. 41.28 m.m.
 Weights { Flywheel 9.5 kg.
 Crankshaft 10.0 kg.
 Connecting rod 0.68 kg.
 Piston with rings 0.183 kg.
 Gudgeon pin 0.057 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 29.4 m.m. Exhaust 25.4 m.m.
 Diameter of port at valve seat: Inlet 27.1 m.m. Exhaust 23.1 m.m.
 Tappet clearance for checking timing: Inlet 0.30 m.m. Exhaust 0.30 m.m.
 Valves open: Inlet 5° BTDC Exhaust 51° BBDC
 Valves close: Inlet 45° ABDC Exhaust 21° ATDC
 Maximum valve lift: Inlet 7.9 m.m. Exhaust 7.9 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 110° ATDC Exhaust 105° BTDC
 ¾ Maximum lift: Inlet 62½° ATDC Exhaust 157° 36' BTDC
 Valve springs: Inlet Exhaust
 Type Coil Coil
 No. per valve 1 1
 Carburettor: Type Semi-downdraught No. fitted 1
 (up or down draft, horizontal)
 Make S.U. Model HS2 or H4
 Flange hole diameter 31.75 m.m. Choke diameter 31.75 m.m.
 Main jet identification No. 0.090"

Air filter: Type Combined air cleaner/ No. fitted 1
 Inlet manifold: silencer
 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 26.95x22.2 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 25D
 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 19 amps.
 Make of starter motor Lucas Model M35G
 Battery: No. fitted 1 Voltage 12 Capacity 43 amp. hour
 Oil Cooler (if fitted) type - Capacity - pints

Make Austin Model A40 Mk. II F.I.A. Recognition No.

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TRANSMISSION

Make of clutch Borg & Beck Type Dry friction
 Diameter of clutch plate 7 1/4" No. of plates 1
 Method of operating clutch Hydraulic
 Make of gearbox BMC Type Synchromesh 2nd. 3rd. Top.
 No. of gearbox ratios 4 forward 1 reverse
 Method of operating gearshift Remote hand lever
 Location of gearshift 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.	3.627:1	$\frac{28}{19} \times \frac{32}{13}$	3.2:1	$\frac{26}{20} \times \frac{32}{13}$				
2.	2.172:1	$\frac{28}{19} \times \frac{28}{19}$	1.916:1	$\frac{26}{20} \times \frac{28}{19}$				
3.	1.412:1	$\frac{28}{19} \times \frac{23}{14}$	1.357:1	$\frac{26}{20} \times \frac{24}{23}$				
4.	1.0:1		1.0:1					
5 R.	4.665:1		4.114:1					

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 5.44 kg.
 Method of attachment 4 studs and nuts
 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
		m.m.	m.m.
Width	38.1	m.m.	31.75
		m.m.	m.m.
Total area per brake	14707	m.m. ²	10840
		m.m. ²	m.m. ²

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 and peg

Turning circle of car..... 11.05 m., approx.

No. of turns of steering wheel from lock to lock..... 2½

CAPACITIES AND DIMENSIONS

Fuel tank..... 32 litres Sump..... 4 litres

Radiator..... 5 litres

Overall length of car..... 370.8 cm. Overall width of car..... 150.8 cm.

Overall height of car, unladen (with hood up, if appropriate)..... 144.2 cm.

Distance from floor to top of windscreen :

Highest point..... 111 cm. Lowest point..... 110 cm.

Width of windscreen :

Maximum width..... 115 cm. Minimum width..... 104 cm.

*Interior width of car..... 125.1 cm.

No. of seats..... 4

Track: Front..... 119.4 cm. Rear..... 119.4 cm.

Wheelbase..... 221.1 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..... 740.0 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:—