

For RAC  
Manufacturers Reference No. for Application

ADO 16/A



F.I.A. Recognition No. 1238

# 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 1100

Year of Manufacture 1963

Chassis A-AS10 or A-A2S10

Serial No. of

Engine 10AMW-TA-H or 10AMW-TA-L

Type of Coachwork SALOON 2 or 4 DOOR

Recognition is valid from 4 November 1963

In category

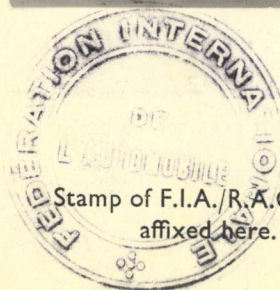
Touring

List 9/24

Photo



ght.



*Arbuschowitz*

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

Form: R.F.I.A.

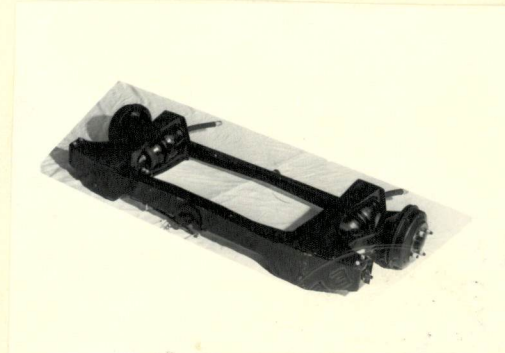
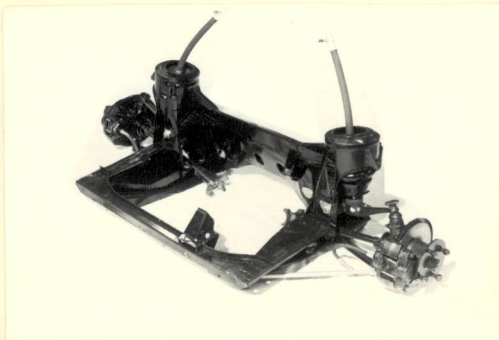
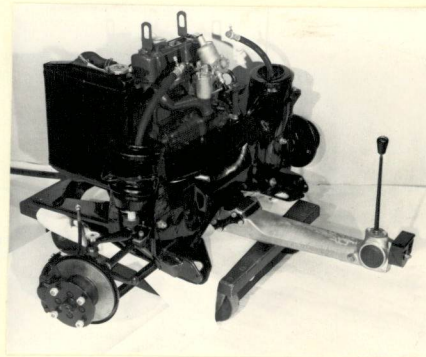
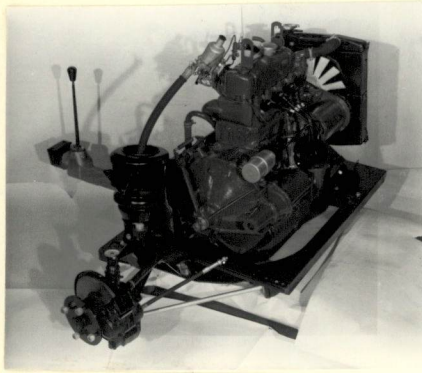
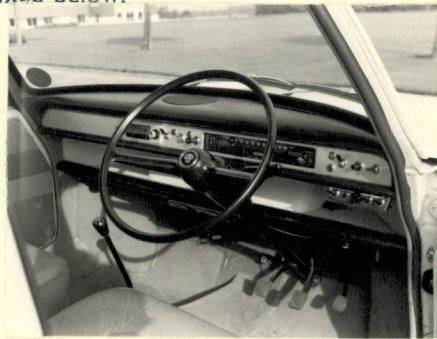


**General description of car:**

*Specify here material/s of  
chassis/body construction*  
independent wishbones at front,  
trailing arms at rear, incorporating  
hydrolastic displacers interconnected  
front and rear.

Steel 4 or 2 door saloon of unitary construction powered by transversely mounted 4 cylinder OHV engine driving front wheels through 4 speed gearbox. Suspension by independent wishbones at front, trailing arms at rear, incorporating hydrolastic displacers interconnected front and rear.

Photographs to be affixed below.

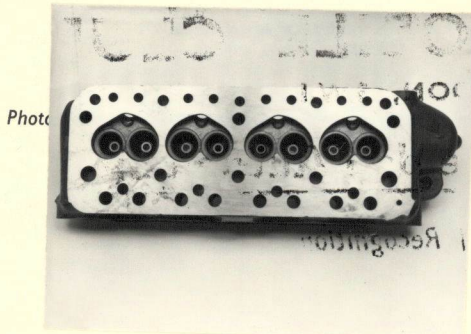




# ENGINE

in line Yes  
 No. of cylinders 4 in V -  
 opposed -  
 Cycle 4 Stroke Firing order 1,3,4,2.  
 Capacity 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 or 7.5:1  
 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 6.69 kg.  
 Crankshaft 10.4 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  
 No. of camshafts 1 Location of camshafts Cylinder block  
 Type of camshaft drive 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 0.30 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 8.07 m.m. Exhaust 8.07 m.m.  
 Degrees of crankshaft rotation from zero to—  
 Maximum lift: Inlet 110° ATDC Exhaust 105° BTDC  
 $\frac{3}{4}$  Maximum lift: Inlet 62 $\frac{1}{2}$ ° ATDC Exhaust 157° BTDC  
 Valve springs: Inlet Coil Exhaust Coil  
 Type Coil Coil  
 No. per valve 1 1  
 Carburettor: Type Semi-down draught 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 Paper element No. fitted           
 Inlet manifold:  
 Diameter of flange hole at carburettor 31.75 m.m.  
 Diameter of flange hole at port 26.98 m.m.



Photo



Exhaust manifold:  
 Diameter of flange hole at port 22.23 x 26.98 m.m.  
 Diameter of flange hole at connection to silencer inlet pipe 28.57 m.m.



Photog

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 and Vacuum  
 Make of ignition coil Lucas Model LA12  
 No. of ignition coils 1 Voltage 12  
 Make of dynamo Lucas Model C/40  
 Voltage of dynamo 12 Maximum output 22 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 1100 F.I.A. Recognition No. ....

Manufacturers Reference No. of Application ADO 16/A

### TRANSMISSION

Make of clutch B.M.C. Type Single Dry Plate

Diameter of clutch plate 181 mm 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 Manual remote control

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.	3.626:1	$\frac{28}{19} \times \frac{32}{13}$	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.	1.142:1	$\frac{28}{19} \times \frac{23}{24}$	1.0:1	$\frac{26}{20} \times \frac{24}{23}$				
4.	1.0:1		1.0:1					
<del>R.</del>	3.626:1		3.2:1					

Type of final drive Single helical spur

Type of differential Bevel

Final drive ratio 4.133:1 Alternatives 3.765:1, 3.44:1

No. of teeth 15/62 17/64, 18/62

Overdrive ratio, if fitted -

### WHEELS

Type Ventilated disc Weight with tyre 12.70 kg.

Method of attachment 4 stud

Rim diameter 304.68 m.m. Rim width 101.56 m.m.

Tyre size: Front 5.50 x 12 Rear 5.50 x 12

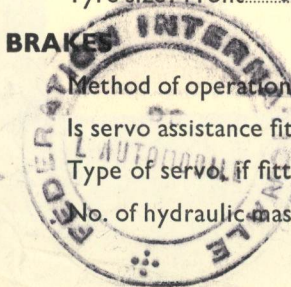
### BRAKES

Method of operation Hydraulic

Is servo assistance fitted? No

Type of servo, if fitted -

No. of hydraulic master cylinders 1 Bore 17.78 m.m.





	Front		Rear	
No. of wheel cylinders	4		2	
Bore of wheel cylinders	50.8	m.m.	19.05	m.m.
Inside diameter of brake drums	-	m.m.	203.2	m.m.
No. of shoes per brake	-		2	
Outside diameter of brake discs	203.2	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	66.5 max	m.m.	195.07	m.m.
		m.m.		m.m.
Width	43.5 max	m.m.	31.75	m.m.
Total area per brake	5303.4	m.m. <sup>2</sup>	12800.	m.m. <sup>2</sup>

### SUSPENSION

	Front	Rear
Type	Independent	Independent
Type of spring	Hydrostatic displacer	Hydrostatic displacer
Is stabiliser fitted?	No	Yes
Type of shock absorber	Incorporated	in Displacer Unit
No. of shock absorbers	-	-

### STEERING

Type of steering gear	Rack and pinion
Turning circle of car	10.59 m., approx.
No. of turns of steering wheel from lock to lock	3 1/2

### CAPACITIES AND DIMENSIONS

Fuel tank	38.59	litres	Sump	4.83	litres
Radiator	3.83	litres			
Overall length of car	372.75	cm.	Overall width of car	153.35	cm.
Overall height of car, unladen (with hood up, if appropriate)	134.0	cm.			
Distance from floor to top of windscreen:					
Highest point	107.95	cm.	Lowest point	106.68	cm.
Width of windscreen:					
Maximum width	119.38	cm.	Minimum width	106.68	cm.
*Interior width of car	129.0	cm.			
No. of seats	4				
Track: Front	131.0	cm.	Rear	129.0	cm.
Wheelbase	237.49	cm.	Ground clearance	146.05	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. 775.0 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.<sup>2</sup>

Size of exhaust port:

Length measured around cylinder wall.....m.m.

Height.....m.m. Area.....m.m.<sup>2</sup>

Size of transfer port:

Length measured around cylinder wall.....m.m.

Height.....m.m. Area.....m.m.<sup>2</sup>

Size of piston port:

Length measured around piston.....m.m.

Height.....m.m. Area.....m.m.<sup>2</sup>

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.....

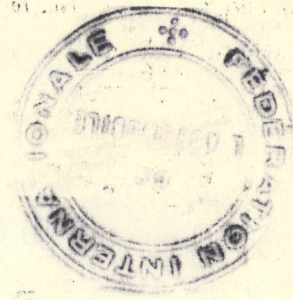
Make of injectors..... Model or Type No.....

Location of injectors.....

Optional equipment affecting preceding information:—

Sump Guard

Oil Cooler - ARH. 181





Manufacturers Reference No. for Application

ADO 16/M  
16/A



F.I.A. Recognition No. ....

1135  
1238

*1/ET*

# ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

## Federation Internationale de l'Automobile.

*Amendment to Form of Recognition*

Manufacturer The British Motor Corporation

Model Morris 1100/Austin 1100

Add to optional equipment

High Traction Differential Part No. C/AJJ 3303



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

Date amendment is valid from

*1st April 1965*

Form: R.F.I.B.