

Manufacturers Reference No. for Application

ADO 16/M



F.I.A. Recognition No.

1135

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 Morris Motors Limited
Model Morris 1100 Year of Manufacture 1962
Chassis M/GS1
Serial No. of Engine 10AMW-TA-H or L
Type of Coachwork Saloon - 2 or 4 door.
Recognition is valid from 5 OCT 1962 In category T

Photo



Photograph to be affixed to the right.



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

Form: R.F.I.A.

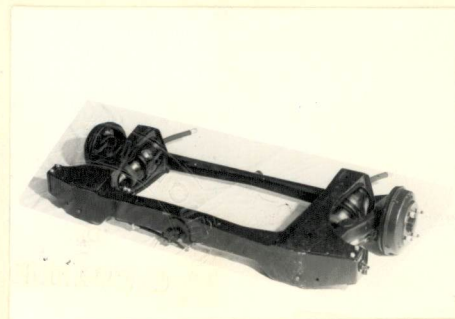
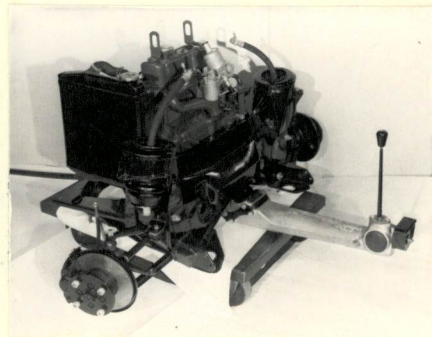
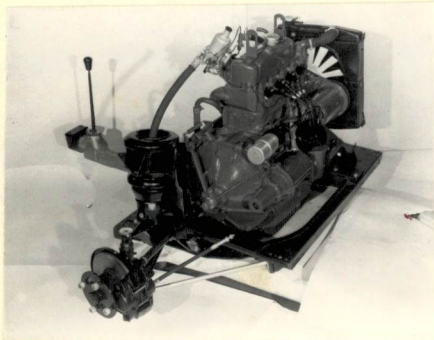
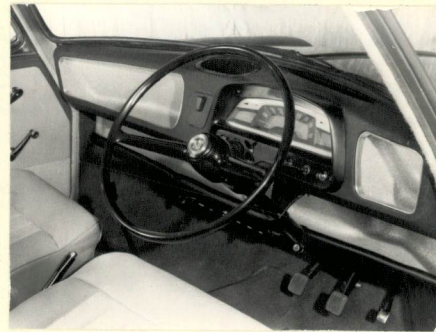
General description of car:

*Specify here material/s of
chassis/body construction*

4 or 2 door steel saloon of unitary construction
powered by transversely mounted 4 cylinder
OHV engine driving the front wheels through
4 speed gearbox.

Suspension by independent wishbones at front,
trailing arms at rear, incorporating hydroelastic
displacers interconnected front and rear.

Photographs to be affixed below.



ENGINE

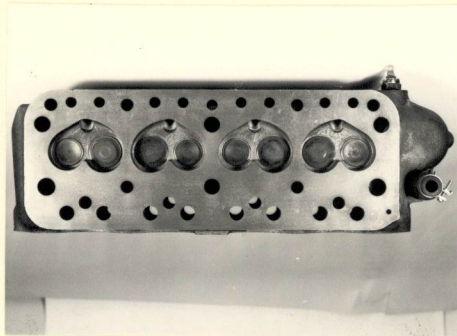
in line Yes
 No. of cylinders 4 in V -
 opposed -
 Cycle 4 stroke Firing order 1 3 4 2
 Capacity 1098 c.c. Bore 64.58 m.m. Stroke 83.72 m.m.
 Maximum rebore +0.020" Resultant capacity 1116 c.c.
 Material of cylinder block Cast iron Material of sleeves, if fitted -
 Distance from crankshaft centre line 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 8.5:1 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 0.1830 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° BTDC
 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°^{36'} BTDC
 Valve springs: Inlet Inlet Exhaust 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" AN needle- std.

Air filter: Type Paper element No. fitted 1

Inlet manifold:

Diameter of flange hole at carburettor 31.75 m.m.

Diameter of flange hole at port 26.98 m.m.



ere.



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.



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 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 Morris Model 1100 F.I.A. Recognition No.

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TRANSMISSION

Make of clutch BMC Type Single dry plate
 Diameter of clutch plate 181 mm 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 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.	1.412:1	$\frac{28}{19} \times \frac{23}{24}$	1.355:1	$\frac{26}{20} \times \frac{24}{23}$				
4.	1.0:1		1.0:1					
R	3.626:1		3.2:1	$\frac{26}{20} \times \frac{18}{13} \times \frac{32}{18}$				

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	58.74 max.	m.m.	195.07	m.m.
		m.m.		m.m.
Width	41.27 max.	m.m.	31.75	m.m.
Total area per brake	4400.0	m.m. ²	12800.0	m.m. ²

SUSPENSION

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

STEERING

Type of steering gear..... Rack & Pinion.....

Turning circle of car..... 10.59..... m., approx.

No. of turns of steering wheel from lock to lock..... 3 $\frac{1}{3}$

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..... 107.95..... cm.

*Interior width of car..... 129.0..... cm.

No. of seats..... 4.....

Track: Front..... 129.7..... cm. Rear..... 127.2..... 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..... 775.4..... 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

Oil cooler - DEV 2769.

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1135
1238

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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.