

Manufacturers Reference No. for Application

3/1964



F.I.A. Recognition No.

175

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 MORGAN MOTOR CO., LTD.

Model 4/A Year of Manufacture 1963-1964

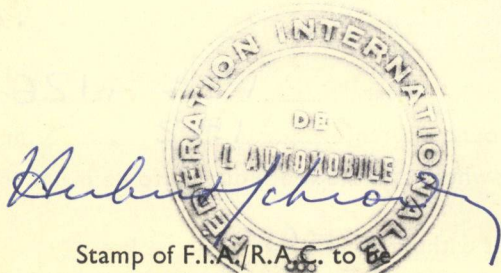
Serial No. of Chassis PREFIX A + B

Engine PREFIX MARK IX

Type of Coachwork 2 SEATER

Recognition is valid from ~~16 Nov. 1964~~ 16 Nov. 1964 1964 In category G.T.

Photograph to be affixed here $\frac{3}{4}$ view of car from front right.



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

Form: R.F.I.A.

MAKE. MORGAN. MODEL. 4/4.

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General description of car:

Specify here material/s of
chassis/body construction

STEEL CHASSIS FRAME

OPEN 2 SEATER OR HARD TOP.

ALUMINIUM OR STEEL PANELS ON ASH FRAME.

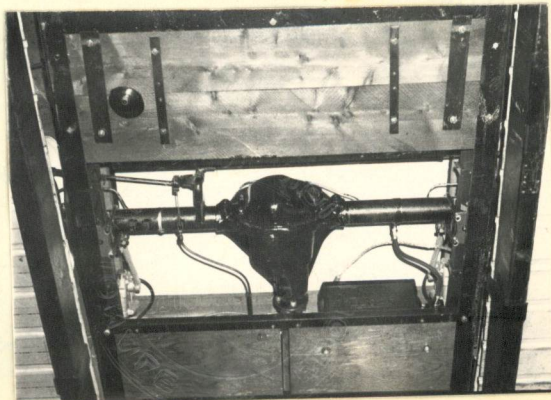
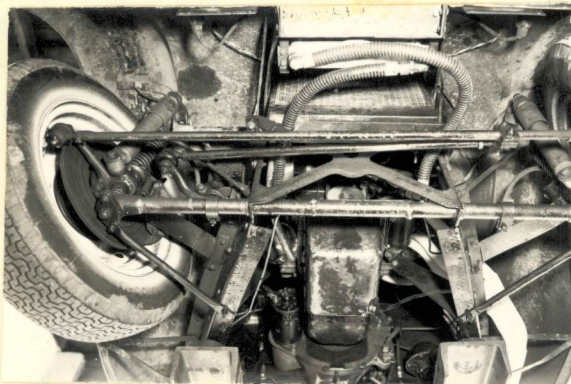
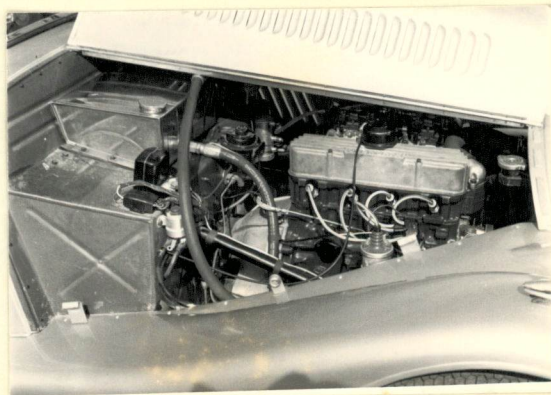
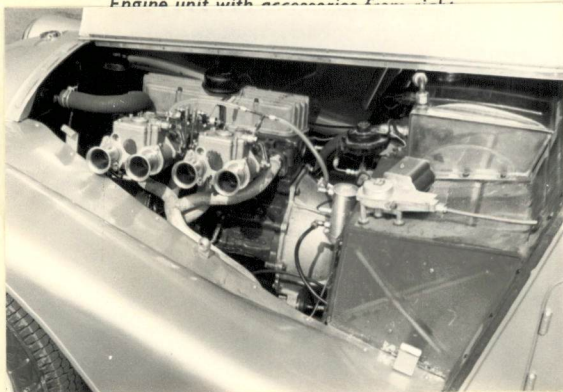
ALUMINIUM OR GLASS FIBRE HARDTOP.

ALUMINIUM UNDERSHIELD.

Photographs to be affixed below.



Engine unit with accessories from side



Make: MORGAN. Model: 4/4. F.I.A. Recognition No.:-

ENGINE

in line YES B.H.P. 120.
No. of cylinders A in V at R.P.M. 6,500.
opposed -
Cycle A. STROKE Firing order 1.2.4.3.
Capacity 1498 c.c. Bore 80.96 m.m. Stroke 72.75 m.m.
Maximum rebore .020" Resultant capacity 1499 c.c.
Material of cylinder block CAST IRON Material of sleeves, if fitted CAST IRON.
Distance from crankshaft centre line to top face of block at centre line of cylinders 26 m.m.
Material of cylinder head CAST IRON. Volume of one combustion chamber 34 c.c.
Compression ratio 10.5-1
Material of piston 'Y' ALLOY. No. of piston rings 4
Distance from gudgeon pin centre line to highest point of piston crown 38.86 m.m.
Bearings { Crankshaft main bearings: Type COPPER / LEAD Dia. 54 m.m.
Connecting rod big end: Type LEAD / BRONZE Dia. 49.2 m.m.
Weights { Flywheel 7.2 kg.
Crankshaft 11 kg.
Connecting rod .566 kg.
Piston with rings .496 kg.
Gudgeon pin .116 kg.
No. of valves per cylinder 2. Method of valve operation PUSH ROD.
No. of camshafts 1. Location of camshafts SIDE OF BLOCK.
Type of camshaft drive CHAIN.
Diameter of valves: Inlet 36.83 m.m. Exhaust 33.02 m.m.
Diameter of port at valve seat: Inlet 34.33 m.m. Exhaust 30.52 m.m.
Tappet clearance for checking timing: Inlet .406 m.m. Exhaust .660 m.m.
Valves open: Inlet 50° BTDC. Exhaust 86° BTDC.
Valves close: Inlet 86° ATDC. Exhaust 50 ATDC.
Maximum valve lift: Inlet 9.91 m.m. Exhaust 9.91 m.m.
Degrees of crankshaft rotation from zero to—
Maximum lift: Inlet 0.00 Exhaust 0.00
 $\frac{3}{4}$ Maximum lift: Inlet 0.00 Exhaust 0.00
Valve springs: Inlet Exhaust
Type COIL COIL.
No. per valve 2. 2.
Carburettor: Type WEBER 40 DCOE x 2 No. fitted 2
(up or down draft, horizontal) CHOXES
Make WEBER. Model 40. DCOE
Flange hole diameter 40 m.m. Choke diameter 33 m.m.
Main jet identification No. TO SUIT ENGINE.

Make:- MORGAN. Model:- 4/4.

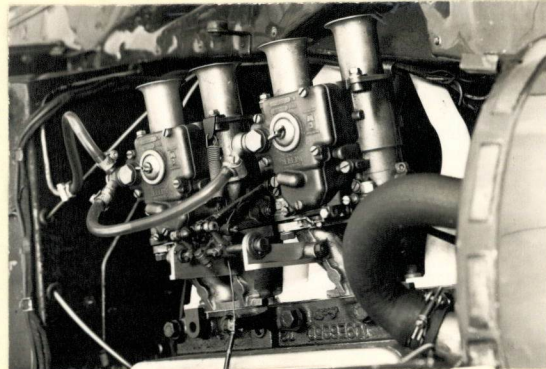
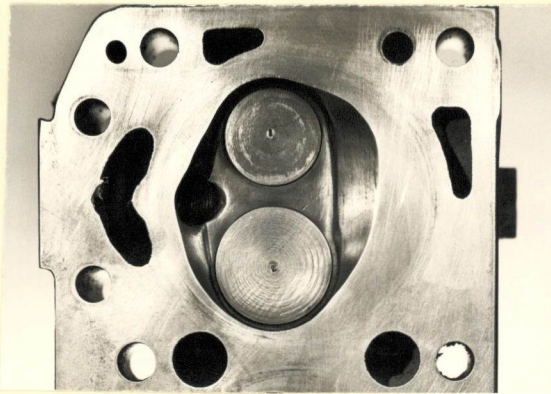
F.I.A. Recognition No.:-

Air filter: Type..... NOT FITTED..... No. fitted..... /

Inlet manifold:

Diameter of flange hole at carburettor..... 40..... m.m.

Diameter of flange hole at port..... 27.94..... m.m.



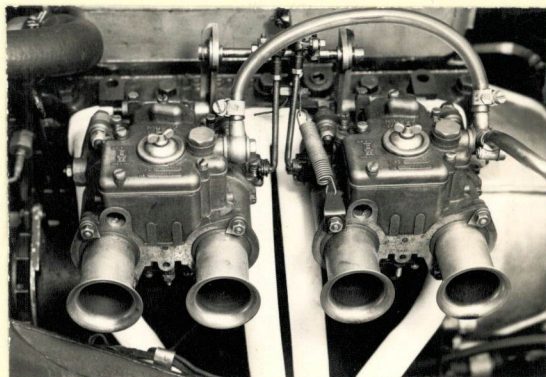
Exhaust manifold:

Diameter of flange hole at port..... 28.6..... m.m.

Diameter of flange hole at connection to silencer inlet pipe..... 38.1..... m.m.



e.



ENGINE ACCESSORIES

Make of fuel pump..... S.U., BENDIX OR AC..... No. fitted..... 1 OR 2.

Method of operation..... ELECTRICAL AND/OR MECHANICAL.....

Type of ignition system..... COIL..... coil or magneto

Make of ignition..... LUCAS..... Model..... 12.V.

Method of advance and retard..... CENTRIFUGAL AND/OR VACUUM.....

Make of ignition coil..... LUCAS..... Model..... 12V

No. of ignition coils..... 1..... Voltage..... 12.

Make of dynamo..... LUCAS..... Model..... TWO BRUSH.

Voltage of dynamo..... 12..... Maximum output..... 25..... amps.

Make of starter motor..... LUCAS..... Model..... 12V.

Battery: No. fitted..... 1..... Voltage..... 12..... Capacity..... 36..... amp. hour

Oil Cooler (if fitted) type..... TUBULAR CONS..... Capacity..... 1..... pints

Make MORGAN Model 4/A F.I.A. Recognition No. _____
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TRANSMISSION

Make of clutch COSWORTH Type SINGLE DRY PLATE
 Diameter of clutch plate 184 mm No. of plates 1
 Method of operating clutch HYDRAULIC
 Make of gearbox FORD Type SYNCHROMESH
 No. of gearbox ratios 4
 Method of operating gearshift LEVER
 Location of gearshift CENTRAL
 Is overdrive fitted? NO OPTIONAL
 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.	3.543	32.	2.917					
2.	2.396	28.	1.697					
3.	1.412	22.	1.280					
4.	1.000	17.	1.000					
5.								

Type of final drive HYPOID
 Type of differential NORMAL OR LIMITED SLIP
 Final drive ratio 4.56 Alternatives 4.1 41/10
 No. of teeth 9/41 3.73 41/11
 Overdrive ratio, if fitted _____

WHEELS

Type DUNLOP WIRE OR DISC Weight 6 kg.
 Method of attachment SPINED HUB OR 4 STUDS BOLT ON
 Rim diameter 380 ~~380~~ m.m. Rim width 114 OR 101 OR 127 m.m.
 Tyre size: Front 5.00 x 15 Rear 5.00 x 15

BRAKES

5.60 x 15
5.90 x 15
5.60 x 15
5.90 x 15
 Method of operation HYDRAULIC
 Is servo assistance fitted? OPTIONAL
 Type of servo, if fitted GIRLING
 No. of hydraulic master cylinders 1 OR 2 Bore 19 m.m.

Make:- MORGAN. Model:- 4/4. F.I.A. Recognition No:-

	Front	Rear
No. of wheel cylinders	2 per CALLIPER	2.
Bore of wheel cylinders	2 x 23 m.m.	22 x 20 m.m.
Inside diameter of brake drums	—	230 m.m.
No. of shoes per brake	—	2
Outside diameter of brake discs	280 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	PAD TOP 70 m.m.	217. m.m.
	" BASE 45 m.m.	— m.m.
Width	48 m.m.	44 m.m.
Total area per brake	5568. m.m. ²	18100 m.m. ²

SUSPENSION

	Front	Rear
Type	IND. VERTICAL COIL.	1/2 ELLIPTIC.
Type of spring	COIL	LEAF.
Is stabiliser fitted?	NO	OPTIONAL.
Type of shock absorber	HYDRAULIC	HYDRAULIC.
No. of shock absorbers	2.	2.

STEERING

Type of steering gear..... CAM GEAR.

Turning circle of car..... 9.5 m., approx.

No. of turns of steering wheel from lock to lock..... 2 1/4

CAPACITIES AND DIMENSIONS

Fuel tank..... 40 litres Sump DRY (OIL TANK 9 litres)

Radiator..... 6.8 litres

Overall length of car..... 368 cm. Overall width of car..... 139 cm.

Overall height of car, unladen (with hood up, if appropriate)..... 120 cm.

Distance from floor to top of windscreen:

Highest point..... 96 cm. Lowest point..... 93 cm.

Width of windscreen:

Maximum width..... 105 cm. Minimum width..... 99 cm.

*Interior width of car..... 112 cm.

No. of seats..... 2

Track: Front..... 122 cm. Rear..... 124 or 126 cm.

Wheelbase..... 244 cm. Ground clearance..... 152 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..... 643 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.....

Make:- MORGAN. Model:- 4/4. F.I.A. Recognition No:-

Optional equipment affecting preceding information:-

SINGLE DOWNDRAUGHT

METAL UNDERSHIELD.



Pr No 28/36 DCD 16/18

WEBER-JOINTWIN CHOKE DCI.