

Manufacturers Reference No. for Application

1/1963



F.I.A. Recognition No.

128

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..... Plus 4 Super Sports..... Year of Manufacture..... 1963
Serial No. of Chassis..... 4 figures
Engine..... TS prefix or CT prefix
Type of Coachwork..... 2 seater
Recognition is valid from..... 9 May 1963..... In category..... G.T.

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



Hubert Chouard

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

Form: R.F.I.A.

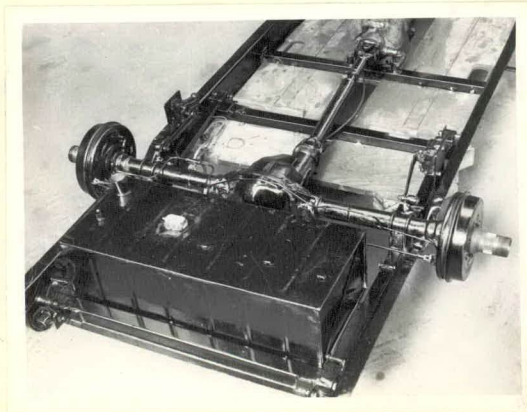
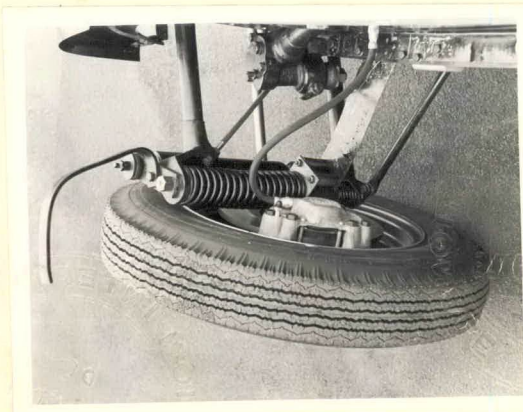
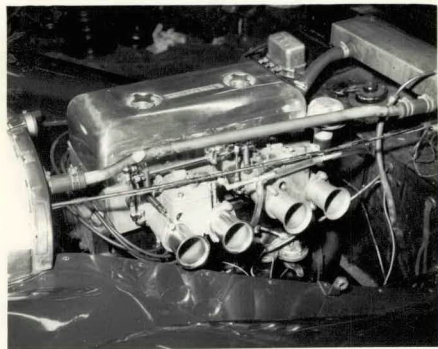
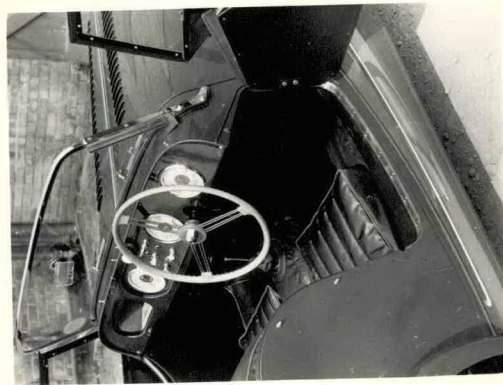
General description of car:

Specify here material/s of
chassis/body construction

2 seat 2 door coupe with steel Z section
chassis frame with aluminium alloy body and
fibreglass hardtop.
Alternative open 2seater.



s to be af



ENGINE

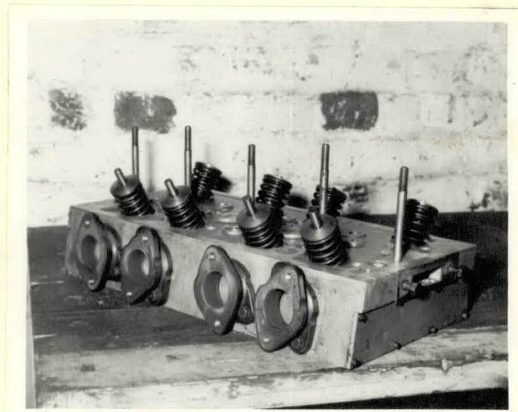
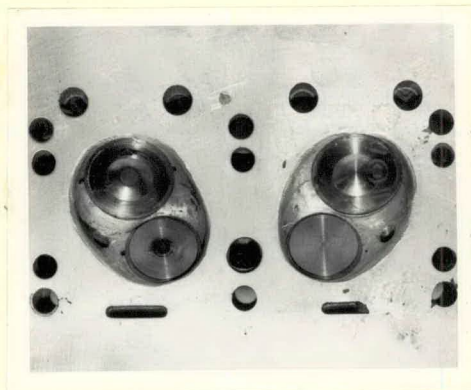
in line Yes
 No. of cylinders 4 in V -
 opposed -
 Cycle 4 Firing order 1.3.4.2
 Capacity 1991 c.c. Bore 83 m.m. Stroke 92 m.m.
 Maximum rebore 1 mm. Resultant capacity 1995 c.c.
 Material of cylinder block C.I. Material of sleeves, if fitted C.I.
 Distance from crankshaft centre line to top face of block at centre line of cylinders 255.5 m.m.
 Material of cylinder head Aluminium Volume of one combustion chamber 56 c.c.
 Compression ratio 10 : 1
 Material of piston Aluminium alloy No. of piston rings 3
 Distance from gudgeon pin centre line to highest point of piston crown 50 m.m.
 Bearings { Crankshaft main bearings: Type D2 Dia. 63 m.m.
 Connecting rod big end: Type Three layer Dia. 53 m.m.
 Weights { Flywheel 9.9 kg.
 Crankshaft 19 kg.
 Connecting rod .9 kg.
 Piston with rings .51 kg.
 Gudgeon pin .127 kg.
 No. of valves per cylinder 2 Method of valve operation Push rod
 No. of camshafts 1 Location of camshafts Side
 Type of camshaft drive Chain
 Diameter of valves: Inlet 45 m.m. Exhaust 37 m.m.
 Diameter of port at valve seat: Inlet 42 m.m. Exhaust 35 m.m.
 Tappet clearance for checking timing: Inlet .43 m.m. Exhaust .43 m.m.
 Valves open: Inlet 43° B.T.D.C. Exhaust 76° B.B.D.C.
 Valves close: Inlet 76° A.B.D.C. Exhaust 43° A.T.D.C.
 Maximum valve lift: Inlet 10.16 m.m. Exhaust 10.16 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 104° Exhaust 104°
 $\frac{3}{4}$ Maximum lift: Inlet 60° Exhaust 60°
 Valve springs: Inlet Exhaust
 Type Coil Coil
 No. per valve 2 2
 Carburettor: Type Horizontal No. fitted 2
 (up or down draft, horizontal)
 Make Weber Model 45 DCOE 9
 Flange hole diameter 45.5 m.m. Choke diameter 38 m.m.
 Main jet identification No. 110

Air filter: Type Not fitted No. fitted -

Inlet manifold:

Diameter of flange hole at carburettor 45 m.m.

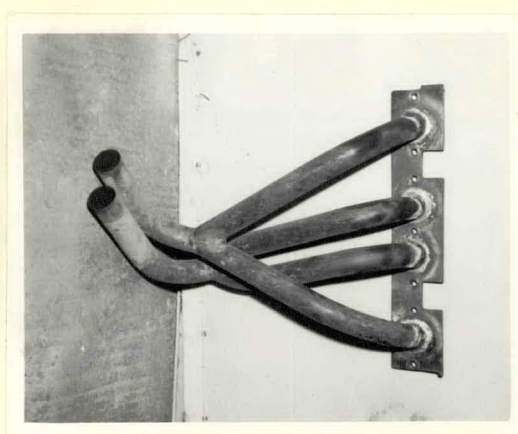
Diameter of flange hole at port 45 m.m.



Exhaust manifold:

Diameter of flange hole at port 37 m.m.

Diameter of flange hole at connection to silencer inlet pipe 37 m.m.



ENGINE ACCESSORIES

Make of fuel pump A.C., S.U., or Bendix No. fitted 1 or 2

Method of operation Mechanical or electrical

Type of ignition system Coil coil or magneto

Make of ignition Lucas Model 12 volt B

Method of advance and retard Centrifugal & suction

Make of ignition coil Lucas Model 12 volt

No. of ignition coils 1 Voltage 12

Make of dynamo Lucas Model C.40

Voltage of dynamo 12 Maximum output 8 amps.

Make of starter motor Lucas Model M.418.6

Battery: No. fitted 1 or 2 x 6 Voltage 12 Capacity 54 amp. hour

Oil Cooler (if fitted) type Tubular cons Capacity 1 pints

Make Morgan Model Plus 4 F.I.A. Recognition No.

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TRANSMISSION

Make of clutch Borg & Beck Type Single plate

Diameter of clutch plate 22.86 cm. No. of plates 1

Method of operating clutch Mechanical

Make of gearbox Moss gear Type 4 speed

No. of gearbox ratios 3

Method of operating gearshift Manual

Location of gearshift Central

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.	<u>3.375</u>	<u>37</u>						
2.	<u>1.981</u>	<u>36</u>						
3.	<u>1.137</u>	<u>31</u>						
4.	<u>Direct</u>							
5.								

Type of final drive Hypoid

Type of differential Normal

Final drive ratio 31/73 Alternatives 4.1, 3.56, 2.8

No. of teeth 11/41

Overdrive ratio, if fitted -

WHEELS

Type Dunlop wire & disc Weight 6.6 kg.

Method of attachment Splined hub bolt on

Rim diameter 380 m.m. Rim width 122K m.m.

Tyre size: Front 5.25 x 15 Rear 5.25 x 15
5.60 x 15 5.60 x 15

BRAKES

Method of operation Hydraulic

Is servo assistance fitted? No

Type of servo, if fitted -

No. of hydraulic master cylinders 1 or 2 Bore 19 m.m.



	Front	Rear
No. of wheel cylinders	2 per caliper	2
Bore of wheel cylinders	2 x 23 m.m.	22-20 m.m.
Inside diameter of brake drums	- m.m.	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	$\frac{1}{2}$ elliptic
Type of spring	Coil	Leaf
Is stabiliser fitted?	No	No
Type of shock absorber	Hydraulic	Hydraulic
No. of shock absorbers	2	2

STEERING

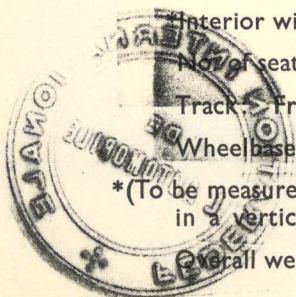
Type of steering gear	Cam gear	
Turning circle of car	95	m., approx.
No. of turns of steering wheel from lock to lock	2 $\frac{1}{4}$	

CAPACITIES AND DIMENSIONS

Fuel tank	45 litres	Sump	6.3 litres
Radiator	10 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	124 cm.	Rear	126 cm.
Wheel base	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	760 kgs.
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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.....
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:—



2/42 DCOE 8 Weber carburetors