

Manufacturers Reference No. for Application

MC 15960



F.I.A. Recognition No.

33 B

33B

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 Marcos Cars Ltd., Formerly Monocoque Chassis & Body Co.Ltd.

Model Marcos G.T. Year of Manufacture 1961/63

Chassis Mono 1001

Serial No. of Engine 32A/53XF

Type of Coachwork Grand Tourisme

Recognition is valid from 9/5/63 In category G.T.



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Form: R.F.I.A.

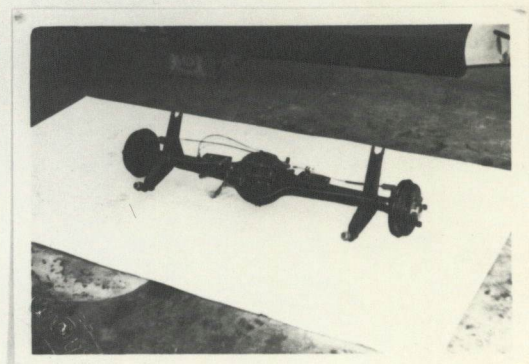
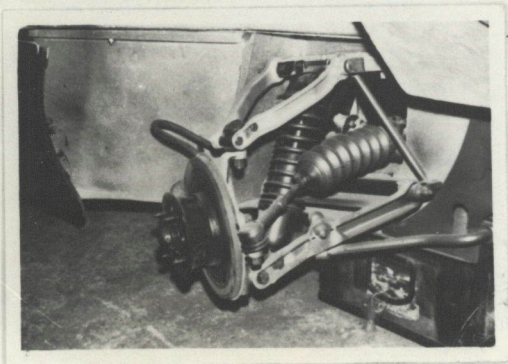
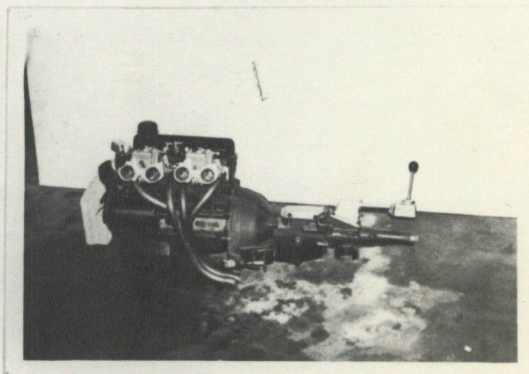
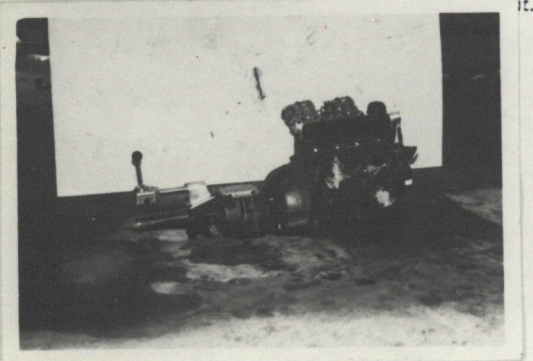
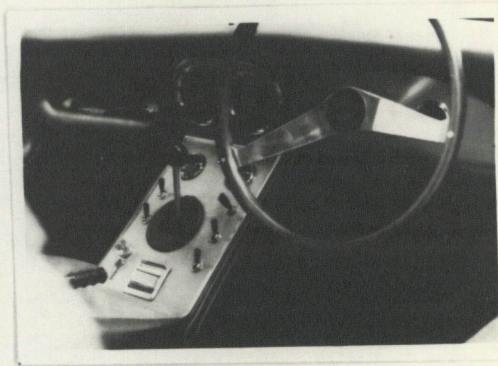
General description of car:

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

Two seater Grand Touring automobile of less than 1000 c.c. having ample and comfortable accommodation for driver and passenger with a very large luggage compartment in keeping with the true spirit of the meaning G.T.

The accent is on cheap performance coupled with great reliability, hence the aircraft type structure of spruce and plywood used in the fullest meaning of the term Monocoque.

The suspension and power units are virtually standard parts which judiciously located and simply engineered give safe, fast and comfortable motoring. Photographs to be affixed below.

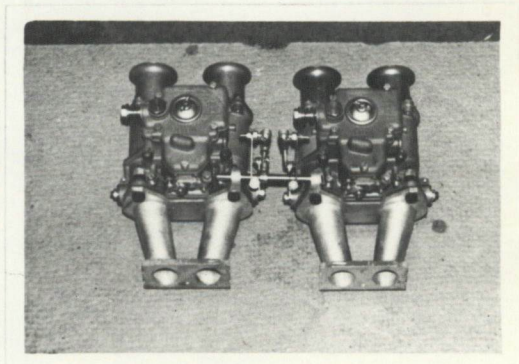


ENGINE

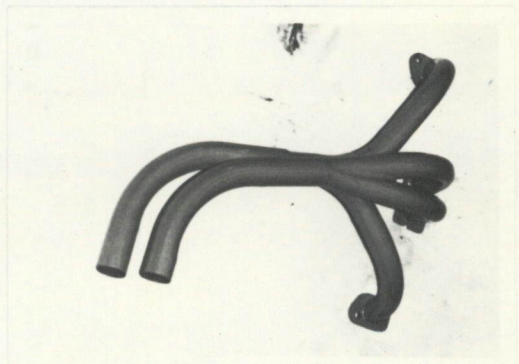
in line **Yes**
 No. of cylinders..... **4** in V **--**
 opposed **--**
 Cycle..... **4** Firing order..... **1.2.4.3**
 Capacity..... **996.6** c.c. Bore..... **80.9** m.m. Stroke..... **48.4** m.m.
 Maximum rebore..... **4.1 m.m.** Resultant capacity..... **1148** c.c.
 Material of cylinder block..... **Cast iron** Material of sleeves, if fitted..... **--**
 Distance from crankshaft centre line to top face of block at centre line of cylinders..... **181** m.m.
 Material of cylinder head..... **C.I.** Volume of one combustion chamber..... **22** c.c.
 Compression ratio..... **8.9:1**
 Material of piston..... **Autothermic Aluminium** No. of piston rings..... **3**
 Distance from gudgeon pin centre line to highest point of piston crown..... **38.5** m.m.
 Bearings { Crankshaft main bearings: Type **Babbit steel Babb** Dia. **53.8** m.m.
 Connecting rod big end: Type **Sintered copper** Dia. **49.21** m.m.
Lead bronze
 Weights { Flywheel..... **5.85** kg.
 Crankshaft..... **7.55** kg.
 Connecting rod..... **.571** kg.
 Piston with rings..... **.415** kg.
 Gudgeon pin..... **.0975** kg.
 No. of valves per cylinder..... **2** Method of valve operation..... **OHV Push Rod**
 No. of camshafts..... **1** Location of camshafts..... **Internal**
 Type of camshaft drive..... **Sprocket & chain or mechanical gear**
 Diameter of valves: Inlet..... **32.2 - 32.3** m.m. Exhaust..... **30.18 x 30.32** m.m.
 Diameter of port at valve seat: Inlet..... **27.7** m.m. Exhaust..... **22.6** m.m.
 Tappet clearance for checking timing: Inlet..... **.203 cold** m.m. Exhaust..... **.456 cold** m.m.
 Valves open: Inlet..... **10° BTDC** Exhaust..... **44° BBDC**
 Valves close: Inlet..... **50° ABDC** Exhaust..... **10° ATDC**
 Maximum valve lift: Inlet..... **73.5** m.m. Exhaust..... **73.8** m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet..... **120°** Exhaust..... **120°**
 $\frac{3}{4}$ Maximum lift: Inlet..... **87°** Exhaust..... **87°**
 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..... **40 DCOE**
 Flange hole diameter..... **31.7** m.m. Choke diameter..... **31.7** m.m.
 Main jet identification No..... **1**

Air filter: Type None No. fitted

Inlet manifold:
 Diameter of flange hole at carburettor 31.7 m.m.
 Diameter of flange hole at port 27.7 m.m.



Exhaust manifold:
 Diameter of flange hole at port 32.5 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 45 m.m.



ENGINE ACCESSORIES

Make of fuel pump AC OR SU No. fitted 1

Method of operation Eccentric on Camshaft

Type of ignition system 12 volt coil or magneto

Make of ignition Lucas Model D 3 AM 4

Method of advance and retard Centrifugal & Vacuum

Make of ignition coil Lucas Model LA 12 Lucas

No. of ignition coils 1 Voltage 12

Make of dynamo Lucas Model G 40 22704

Voltage of dynamo 12 volt Maximum output 22 amps.

Make of starter motor Lucas Model 12 volt 3 1/2" inertia type

Battery: No. fitted 1 Voltage 12v Capacity 32 amp. hour

Oil Cooler (if fitted) type Aluminium Alloy Capacity 6 pints

Make **MARCOS** Model **G.T** F.I.A. Recognition No. **33**

Manufacturers Reference No. of Application **MC 15960**

TRANSMISSION

Make of clutch **Ford 105E or Borg & Beck** Type **Single Plate or Diaphragm**
Diameter of clutch plate **184 m.m** No. of plates **1**
Method of operating clutch **Hydraulic**
Make of gearbox **Ford** Type **105E**
No. of gearbox ratios **5 Forward & Reverse**
Method of operating gearshift **Direct**
Location of gearshift **Insloping facia**
Is overdrive fitted? **NO**
Method of controlling overdrive, if fitted **N/A**

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	4.118	16	2.917	16	2.967	16		
2.	2.396	22	1.697	22	1.80	22		
3.	1.412	28	1.280	25	1.472	25		
4.	1.000	32	1.000	28	1.21	27		
5.					1.1	30		

Type of final drive **Hypoid or Limited Slip**
Type of differential **Standard Bevel Gears**
Final drive ratio **4.55** Alternatives **4.2 4.9 5.3 3.78**
No. of teeth **9/41** **9.38 8.39 8.43 9.34**
Overdrive ratio, if fitted **N/A**

WHEELS

Alloy **5**
Type **Pressed Steel or Magnesium** Weight..... kg.
Method of attachment **4 nuts**
Rim diameter **331** m.m. Rim width **90.5 & 132.08** m.m.
Tyre size: Front **520 x 13** Rear **520 x 13**

BRAKES

Method of operation **Hydraulic**
Is servo assistance fitted? **NO**
Type of servo, if fitted **N/A**
No. of hydraulic master cylinders **1** Bore **15.85** m.m.

	Front	Rear
No. of wheel cylinders	4	2
Bore of wheel cylinders	--	19.05
Inside diameter of brake drums	--	178
No. of shoes per brake	--	2
Outside diameter of brake discs	230	N/A
No. of pads per brake	2	N/A
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	59	171.5
	m.m.	m.m.
	m.m.	171.5
	m.m.	m.m.
Width	38	31.7
	m.m.	m.m.
Total area per brake	4484	5420
	m.m. ²	m.m. ²

SUSPENSION

	Front	Rear
Type	Independent	Live Axle
Type of spring	Coil	Coil
Is stabiliser fitted?	Yes	No
Type of shock absorber	Armstrong	Armstrong
No. of shock absorbers	2	2

STEERING

Type of steering gear Rack & Pinion

Turning circle of car 11 m., approx.

No. of turns of steering wheel from lock to lock 2 2/3

CAPACITIES AND DIMENSIONS

Fuel tank 26.2 litres Sump 4.54 litres

Radiator 3.75 litres

Overall length of car 408 cm. Overall width of car 141 cm.

Overall height of car, unladen (with hood up, if appropriate) 115 cm.

Distance from floor to top of windscreen:

Highest point 88 cm. Lowest point 61 cm.

Width of windscreen:

Maximum width 122 cm. Minimum width 91 cm.

*Interior width of car 114.5 cm.

No. of seats 2

Track: Front 125.7 cm. Rear 123.2 cm.

Wheelbase 228.5 cm. Ground clearance 15.2 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 475 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:—

Long Range Fuel Tank 85 litres

2 x SU Carburettors $1\frac{1}{2}$ bore

~~1148 c.c. engine (Ford) Bore 85 m.m. Stroke 48.4~~

~~Remaining engine specification same as Homologated Power Unit.~~



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Amendment to Form of Recognition

Manufacturer..... MARCOS CARS LTD.
 Model..... MARCOS G.T.

Evolution of Model

Valve diameters Inlet 34.2 mm Exhaust 30.5 mm
 Port diameters Inlet 31.5 mm Exhaust 28.0 mm
 Maximum valve lift 9.5 mm
 Inlet manifold dia. at carburettor 40 mm
 dia. at port 29.5 mm
 Engine lubrication, dry sump capacity of 9 litres
 Two fuel pumps
 Nominal track with alloy wheels 128.2 cms front
 125.7 cms rear.



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

Date amendment is valid from

11 April 1964

Form: R.F.I.B.