

Manufacturers Reference No. for Application

G/1800/65



F.I.A. Recognition No. 205

# 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 GILBERN SPORTS CAR (Components) Ltd.

Model GILBERN 1800 GT. Year of Manufacture 1965

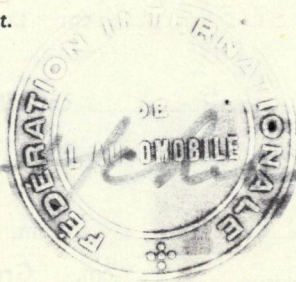
Serial No. of Chassis B 100  
Engine 18GB RUH or 18G UH

Type of Coachwork 4 Seater Saloon

Recognition is valid from 1st August 1965 In category Grand Touring



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 GILBERN

Model 1800 GT

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**General description of car:**

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

Glass-fibre 4 seater saloon body mounted on multi-tubular steel chassis, powered by 4 cylinder OHV engine in unit with 4 speed gear box driving rear wheels through hypoid rear axle, - front suspension independent by Coil Springs and wishbone type links rear by coil spring/Damper units twin trailing links and panhard rod.

Photographs to be affixed below.

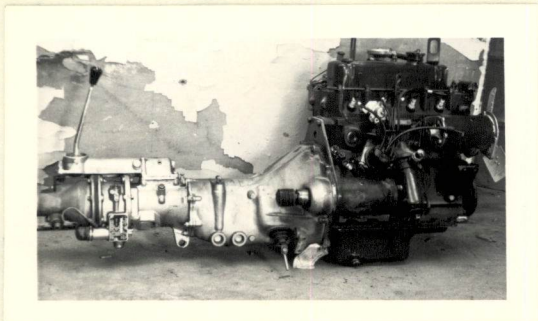
$\frac{3}{4}$  view of car from rear left.



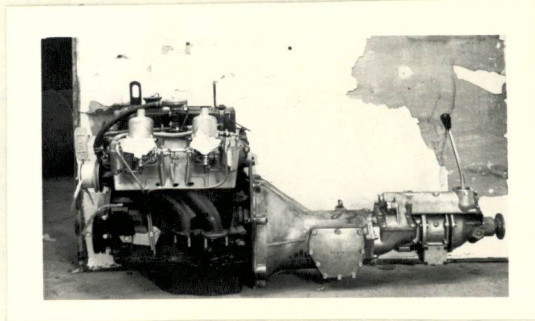
Interior view of car through driver's door.



Engine unit with accessories from right.



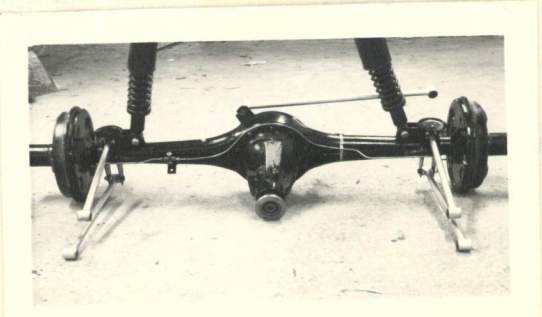
Engine unit with accessories from left.



Front axle complete (without wheels).

photo to be replaced by better one

Rear axle complete (without wheels).



**ENGINE**

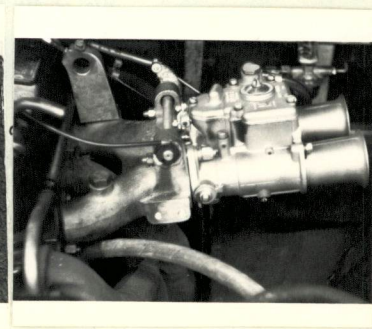
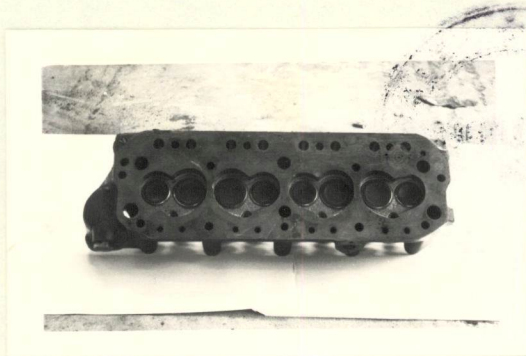
in line Yes Catalogued B.H.P. 95  
 No. of cylinders 4 in V - at R.P.M. 5400  
 opposed -  
 Cycle 4 stroke Firing order 1, 3, 4, 2.  
 Capacity 1798 c.c. Bore 80.26 m.m. Stroke 89.0 m.m.  
 Maximum rebore + 1.016mm Resultant capacity 1840 c.c.  
 Material of cylinder block Cast Iron Material of sleeves, if fitted Cast Iron  
 Distance from crankshaft centre line to top face of block at centre line of cylinders 252.4 m.m.  
 Material of cylinder head Cast Iron Volume of one combustion chamber 42.5/43.5 c.c.  
 Compression ratio 8.8:1  
 Material of piston Aluminium No. of piston rings 4  
 Distance from gudgeon pin centre line to highest point of piston crown 42.01/42.11 m.m.  
 Bearings { Crankshaft main bearings: Type Copper Lead Dia. 54.02 m.m.  
 Connecting rod big end: Type Copper Lead Dia. 47.66 m.m.  
 Weights { Flywheel 13.18 kg.  
 Crankshaft 15.0 kg.  
 Connecting rod 3.86 kg.  
 Piston with rings 0.538 kg.  
 Gudgeon pin 0.112 kg.  
 No. of valves per cylinder 2 Method of valve operation Push Rod  
 No. of camshafts 1 Location of camshafts Cylinder Block  
 Type of camshaft drive Roller Chain  
 Diameter of valves: Inlet 39.68 m.m. Exhaust 33.11 m.m.  
 Diameter of port at valve seat: Inlet 33.35 m.m. Exhaust 29.68 m.m.  
 Tappet clearance for checking timing: Inlet 0.46 m.m. Exhaust 0.46 m.m.  
 Valves open: Inlet 50° BTDC Exhaust 75° BBDC  
 Valves close: Inlet 70° ABDC Exhaust 45° ATDC  
 Maximum valve lift: Inlet 11.5 m.m. Exhaust 11.5 m.m.  
 Degrees of crankshaft rotation from zero to—  
 Maximum lift: Inlet 152° Exhaust 152°  
 $\frac{3}{4}$  Maximum lift: Inlet 96° Exhaust 96°  
 Valve springs: Inlet Coil Exhaust Coil  
 Type Coil Coil  
 No. per valve 2 2  
 Carburettor: Type Semi down draught or Horizontal No. fitted 1 or 2  
 (up or down draft, horizontal)  
 Make S.U. or Weber Model H.S.4. or 45 DCOE  
 Flange hole diameter 38.1 or 45 m.m. Choke diameter 38.1 or 45 m.m.  
 Main jet identification No. MB Standard Needle or 170

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Air filter: Type Wire Mesh Element No. fitted 2

Inlet manifold:  
Diameter of flange hole at carburettor 38.9 m.m.

Diameter of flange hole at port 35.7 m.m.



Exhaust manifold:

Diameter of flange hole at port 33.3 m.m.

Diameter of flange hole at connection to silencer inlet pipe 41.3 m.m.



### 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 HA 12

No. of ignition coils 1 Voltage 12

Make of dynamo Lucas Model 040/1

Voltage of dynamo 12 Maximum output 22 amps.

Make of starter motor Lucas Model M4 18G

Battery: No. fitted 2 or 1 Voltage 6 or 12 Capacity 53 amp. hour

Oil Cooler (if fitted) type Intercalary Capacity 0.53 pints

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**TRANSMISSION**

Make of clutch Borg and Beck Type DSG  
 Diameter of clutch plate 203.2mm No. of plates 1  
 Method of operating clutch Hydraulic  
 Make of gearbox B.M.C. Type 'B' Series, 4 speed  
 No. of gearbox ratios 4 forward, 1 reverse  
 Method of operating gearshift Manual  
 Location of gearshift Central or gearbox tunnel  
 Is overdrive fitted? Optional  
 Method of controlling overdrive, if fitted Electrical

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.637	$\frac{30}{21} \times \frac{28}{11}$	2.44	$\frac{25}{26} \times \frac{11}{28}$				
2.	2.215	$\frac{30}{21} \times \frac{31}{20}$	1.618	$\frac{25}{26} \times \frac{19}{32}$				
3.	1.373	$\frac{30}{21} \times \frac{25}{26}$	1.266	$\frac{25}{26} \times \frac{29}{22}$				
4.	1.0:1		1.0:1					
<del>SR</del>	4.755	$\frac{30}{21} \times \frac{28}{11} \times \frac{17}{13}$	3.199					

Type of final drive Hypoid  
 Type of differential Bevel or limited slip  
 Final drive ratio 3.909:1 Alternatives 4.1:1, 4.3:1, 4.55:1, 4.875:1, 3.307:1,  
 No. of teeth 11/43 10/41, 10/43, 9/41, 8/39, 13/43.  
 Overdrive ratio, if fitted 0.802 :1

**WHEELS**

Type Wire Spoke Weight Wire 6.15 kg.  
 Method of attachment Centre Lock Cap  
 Rim diameter 355.6 m.m. Rim width 139.7 m.m.  
 Tyre size: Front 5.90 x 14 Rear 5.90 x 14

**BRAKES**

Method of operation Hydraulic  
 Is servo assistance fitted? No.  
 Type of servo, if fitted -  
 No. of hydraulic master cylinders 1 Bore 19.05 m.m.

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	Front	Rear
No. of wheel cylinders	<u>4</u>	<u>2</u>
Bore of wheel cylinders	<u>53.98</u> m.m.	<u>-</u> m.m.
Inside diameter of brake drums	<u>-</u> m.m.	<u>254.0</u> m.m.
No. of shoes per brake	<u>-</u>	<u>2</u>
Outside diameter of brake discs	<u>273.0</u> m.m.	<u>-</u> m.m.
No. of pads per brake	<u>2</u>	<u>-</u>
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	<u>79.0 max</u> m.m.	<u>240.7</u> m.m.
	_____ m.m.	_____ m.m.
Width	<u>49.0 max</u> m.m.	<u>43.0</u> m.m.
Total area per brake	<u>6452.0</u> m.m. <sup>2</sup>	<u>21678.7</u> m.m. <sup>2</sup>

### SUSPENSION

	Front	Rear
Type	<u>Independent</u>	<u>Coil Springs/Damper Units Trailing Links, Panhard Rod</u>
Type of spring	<u>Coil</u>	<u>Coil</u>
Is stabiliser fitted?	<u>Yes</u>	<u>No</u>
Type of shock absorber	<u>Hydraulic Lever Arm</u>	<u>Telescopic</u>
No. of shock absorbers	<u>2</u>	<u>2</u>

### STEERING

Type of steering gear Rack & Pinion

Turning circle of car 9.75 m., approx.

No. of turns of steering wheel from lock to lock 2.93

### CAPACITIES AND DIMENSIONS

Fuel tank 45.5 litres Sump 4.28 or 6.25 litres

Radiator 5.5 litres

Overall length of car 387 cm. Overall width of car 152.5 cm.

Overall height of car, unladen (with hood up, if appropriate) 133 cm.

Distance from floor to top of windscreen:

Highest point 97.5 cm. Lowest point 69.2 cm.

Width of windscreen:

Maximum width 118.5 cm. Minimum width 105.3 cm.

\*Interior width of car 121 cm.

No. of seats 4

Track: Front 125.0 cm. Rear 125.0 cm.

Wheelbase 231.0 cm. Ground clearance 130.0 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 820 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:— Fuel Tank G 39  
Capacity 45.8