

Manufacturers Reference No. for Application

H22/5



F.I.A. Recognition No.

91

# 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 FAIRTHORPE LTD.

Model ROCKETTE Year of Manufacture 1962 onwards

Serial No. of Chassis 15001.  
Engine .....

Type of Coachwork GLASS FIBRE.

Recognition is valid from 29 JANV 1963 ~~.....~~ In category GRAND TOURING

liste 9/19

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.



*but / chond*

Form: R.F.I.A.

**General description of car:**

Specify here material/s of  
chassis/body construction

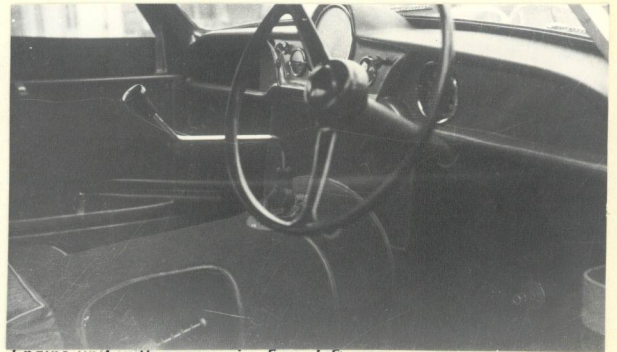
SPORTS CAR. TWO DOOR. GLASS FIBRE PLASTIC.

Photographs to be affixed below.

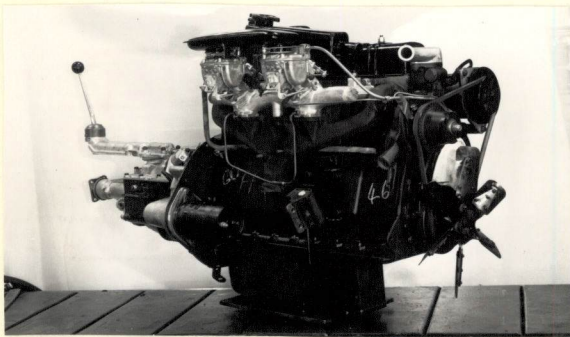
$\frac{3}{4}$  view of car from rear left.



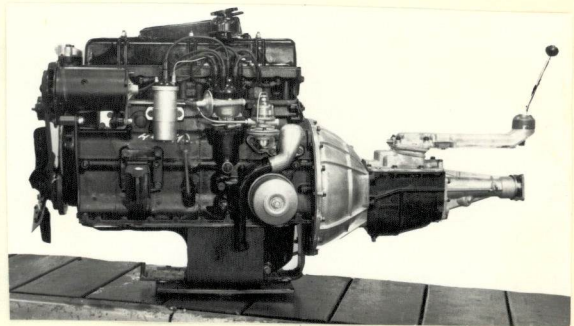
Interior view of car through driver's door.



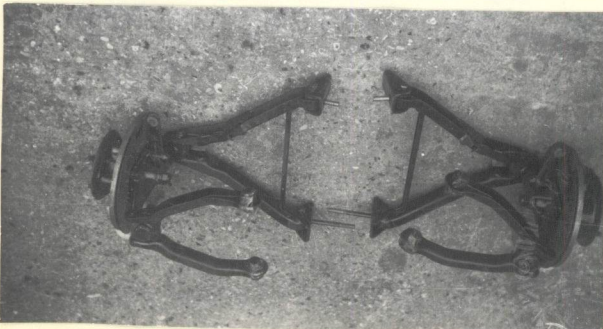
Engine unit with accessories from right.



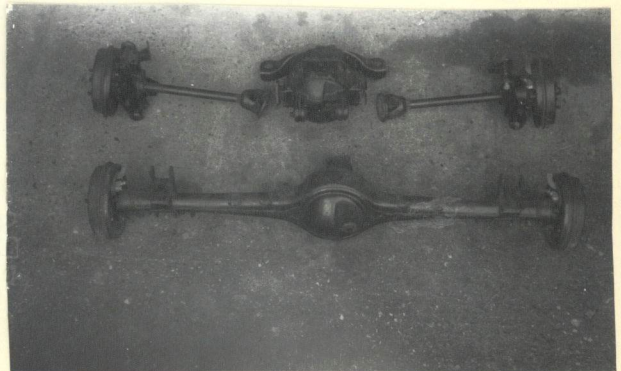
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



# ENGINE

in line IN LINE  
 No. of cylinders..... in V.....  
 opposed.....  
 Cycle FOUR STROKE Firing order 1,5,3,6,2,4.  
 Capacity 1696. c.c. Bore 66.75. m.m. Stroke 76. m.m.  
 Maximum rebore 040" Resultant capacity 1645 c.c.  
 Material of cylinder block CAST IRON Material of sleeves, if fitted NOT NORMALLY FITTED  
 Distance from crankshaft centre line to top face of block at centre line of cylinders 223 m.m.  
 Material of cylinder head CAST IRON Volume of one combustion chamber 29.67 c.c. or 27.3.  
 Compression ratio 8.75.or.9.5.or.10.0 or 26.0.  
 Material of piston ALUMINIUM ALLOY No. of piston rings 3.  
 Distance from gudgeon pin centre line to highest point of piston crown 38.1 m.m.  
 Bearings { Crankshaft main bearings: Type LEAD INDIUM Dia. 50.8 m.m.  
 Connecting rod big end: Type LEAD INDIUM Dia. 47.55 m.m.  
 Weights { Flywheel 9.1. kg.  
 Crankshaft 19.1. kg.  
 Connecting rod 0.68 kg.  
 Piston with rings 0.37 kg.  
 Gudgeon pin .085. kg.  
 No. of valves per cylinder 2 Method of valve operation BY PUSHROD  
 No. of camshafts 1 Location of camshafts IN SIDE BLOCK  
 Type of camshaft drive BY CHAIN  
 Diameter of valves: Inlet 33 m.m. Exhaust 29.9 m.m.  
 Diameter of port at valve seat: Inlet 30.2 m.m. Exhaust 27. m.m.  
 Tappet clearance for checking timing: Inlet 0.4 m.m. Exhaust 0.4 m.m.  
 Valves open: Inlet 18° BTDC Exhaust 58° BBDC  
 Valves close: Inlet 58° ABDC Exhaust 18° ATDC  
 Maximum valve lift: Inlet 7.92. m.m. Exhaust 7.92. m.m.  
 Degrees of crankshaft rotation from zero to—  
 Maximum lift: Inlet 128° Exhaust 128°  
 $\frac{3}{4}$  Maximum lift: Inlet 76° Exhaust 76°  
 Valve springs: Inlet Exhaust  
 Type COIL COIL  
 No. per valve 2 2  
 Carburettor: Type SEMIDOWN DRAUGHT No. fitted 2 or 3  
 (up or down draft, horizontal)  
 Make SOLEX or SU Model 32.P.I.H. or HS.2.  
 Flange hole diameter 32 m.m. Choke diameter 20 or X m.m.  
 Main jet identification No.....

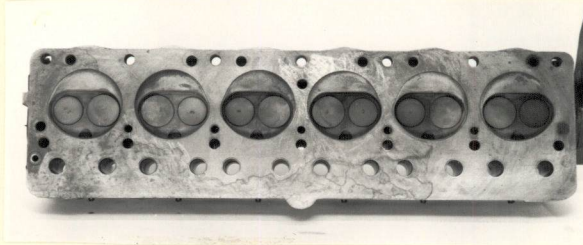
Air filter: Type A.C. No. fitted NIL or 3

Inlet manifold:

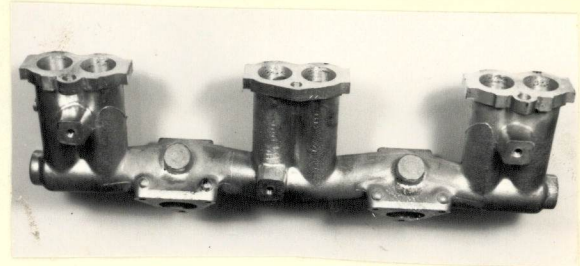
Diameter of flange hole at carburettor 32 m.m.

Diameter of flange hole at port 28.6 or 32 m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



or  
3  
Trouser  
-pieces

Exhaust manifold:

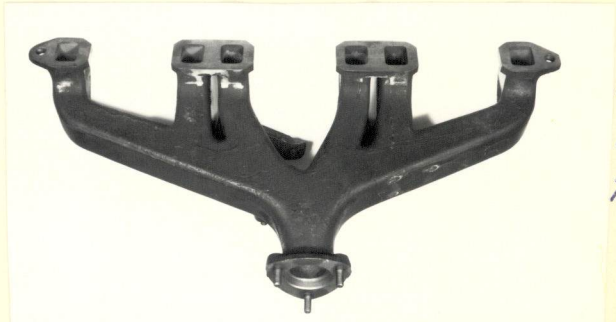
Diameter of flange hole at port 28.7. x 25.4. RECTANGULAR m.m.

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

Photograph of piston showing crown to be affixed here.



Photograph of exhaust manifold to be affixed here.



or  
Twin  
Free-  
flow

### ENGINE ACCESSORIES

Make of fuel pump A.C. No. fitted I

Method of operation MECHANICAL

Type of ignition system COIL coil or magneto

Make of ignition LUCAS Model

Method of advance and retard CENTRIFUGAL AND VACUUM AUTOMATIC

Make of ignition coil LUCAS Model H.A.I2.

No. of ignition coils 1 Voltage 12.

Make of dynamo LUCAS Model C.V.40.

Voltage of dynamo 12 Maximum output 22 amps.

Make of starter motor LUCAS Model M.35.G.

Battery: No. fitted 1 Voltage 12 Capacity 38 amp. hour

Oil Cooler (if fitted) type — Capacity — pints

Make FAIRTHORPE Model ROCKETTE F.I.A. Recognition No. ....

Manufacturers Reference No. of Application H22/5 .....

### TRANSMISSION

Make of clutch BORG & BECK Type SINGLE DRY PLATE

Diameter of clutch plate 8" No. of plates 1

Method of operating clutch HYDRAULIC

Make of gearbox OWN MAKE Type MANUAL

No. of gearbox ratios 4 FORWARD AND ONE REVERSE

Method of operating gearshift LEVER IN CENTRE FLOOR

Location of gearshift IN CENTRE FLOOR

Is overdrive fitted? OPTIONAL EXTRA

Method of controlling overdrive, if fitted ELECTRICAL SWITCH

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	2.932	$\frac{26}{19} \times \frac{30}{14}$						
2.	1.779	$\frac{26}{19} \times \frac{26}{20}$						
3.	1.254	$\frac{26}{19} \times \frac{22}{24}$						
4.	1.000	DIRECT						
5.	2.932	$\frac{26}{19} \times \frac{30}{14}$						

Type of final drive HYPOID BEVEL

Type of differential NON LIMITED SLIP

Final drive ratio 4.11 Alternatives 4.55

No. of teeth 9/37 9/41

Overdrive ratio, if fitted .802 OPTIONAL EXTRA

### WHEELS

Type STEEL DISCS Weight 5.2. kg.

Method of attachment 4 STUDS AND NUTS

Rim diameter 330 m.m. Rim width 89 m.m.

Tyre size: Front 5.60 x 13" or 5.90 x 13" Rear 5.60 x 13" or 5.90 x 13"

### BRAKES

Method of operation HYDRAULIC

Is servo assistance fitted? OPTIONAL EXTRA

Type of servo, if fitted VACUUM

No. of hydraulic master cylinders I Bore 15.8 m.m.

	Front		Rear
No. of wheel cylinders	2 PER WHEEL		1 PER WHEEL
Bore of wheel cylinders	42.8	m.m.	18.78
Inside diameter of brake drums		m.m.	203
No. of shoes per brake			2
Outside diameter of brake discs	232	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	56	m.m.	193.5
		m.m.	
Width	38.1	m.m.	38.1
Total area per brake	8732	m.m. <sup>2</sup>	20280
			m.m. <sup>2</sup>

### SUSPENSION

	Front		Rear
Type	INDEPENDENT		INDEPENDENT
Type of spring	COIL		TRANSVERSE
Is stabiliser fitted?	OPTIONAL		NO
Type of shock absorber	TELESCOPIC		TELESCOPIC
No. of shock absorbers	2		2

### STEERING

Type of steering gear..... RACK & PINION

Turning circle of car..... 24.ft. m., approx.

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

### CAPACITIES AND DIMENSIONS

Fuel tank..... 10.gallons litres      Sump..... 7.pints litres

Radiator..... 14.pints litres

Overall length of car..... 88" cm.      Overall width of car..... 59" cm.

Overall height of car, unladen (with hood up, if appropriate)..... 49" cm.

Distance from floor to top of windscreen:

    Highest point..... 33" cm.      Lowest point..... cm.

Width of windscreen:

    Maximum width..... 49" cm.      Minimum width..... 45" cm.

\*Interior width of car..... 52" cm.

No. of seats..... 2/3

Track: Front..... 48" cm.      Rear..... 48" cm.

Wheelbase..... 88" cm.      Ground clearance..... 7" 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..... 1150.lbs 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 preceeding information:—

EXTRA FUEL TANK. - 10.GALLONS

OVERDRIVE.

FREE FLOW TWIN EXHAUST