

Manufacturers Reference No. for Application

HUMSNIPE IIIA



F.I.A. Recognition No. 1079

# 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 ROOTES

Model HUMBER SUPER SNIPE SERIES IIIA Year of Manufacture 1961

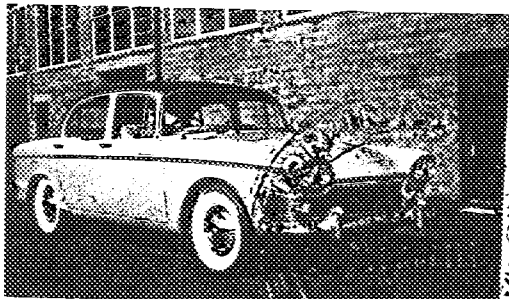
Chassis B8100001

Serial No. of Engine "

Type of Coachwork Four Door Four Light Five Seater Saloon

Recognition is valid from 20th ~~Sept.~~ Oct. 1961 In category Touring

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



Stamp of F.I.A. to be affixed here.



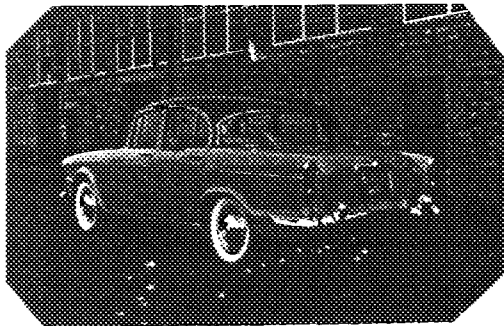
*Hubert Johnson*

General description of car:

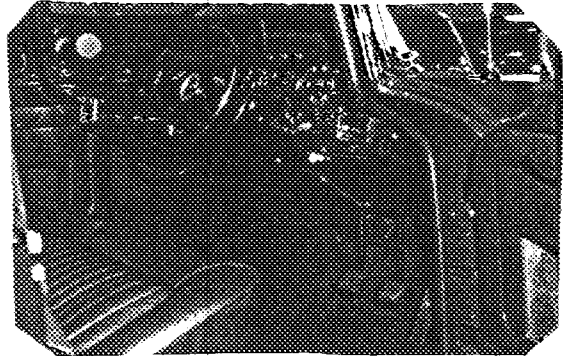
4 Door. Four light saloon

Photographs to be affixed below.

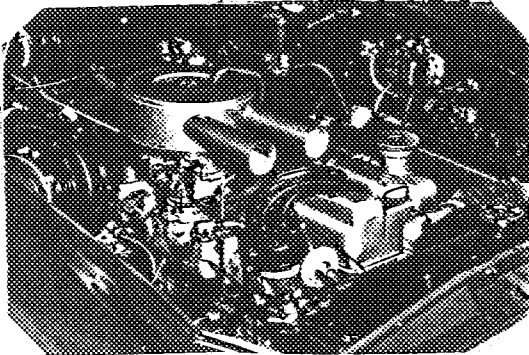
*¾ view of car from rear left.*



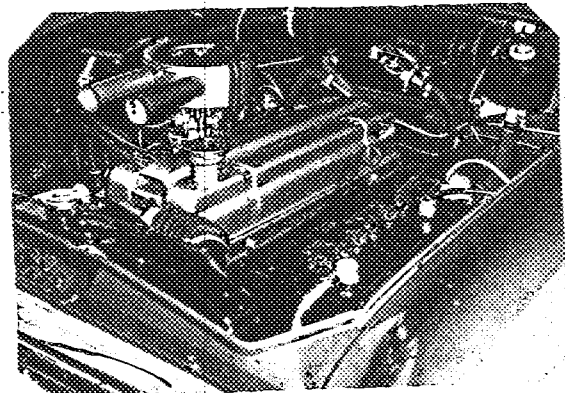
*Interior view of car through driver's door.*



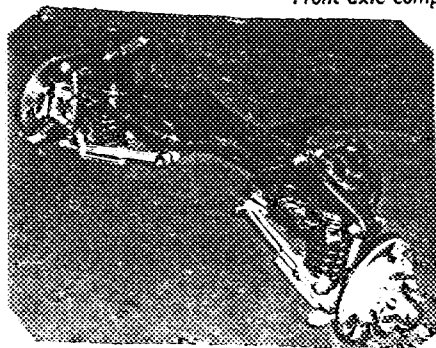
*Engine unit with accessories from right.*



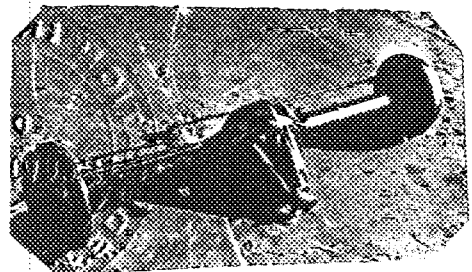
*Engine unit with accessories from left.*



*Front axle complete (without wheels).*



*Rear axle complete (without wheels).*



**ENGINE**

in line .....  
 No. of cylinders 6 ~~opposed~~ .....  
 Cycle 4 stroke ..... Firing order 1,5,3,6,2,4 .....  
 Capacity 2965 c.c. Bore 87.3 m.m. Stroke 82.6 m.m.  
 Maximum rebore 88.3 dia ..... Resultant capacity 3035 c.c.  
 Material of cylinder block C.I. ..... Material of sleeves, if fitted None .....  
 Distance from crankshaft centre line to top face of block at centre line of cylinders 241 m.m.  
 Material of cylinder head C.I. ..... Volume of one combustion chamber 73.4 c.c.  
 Compression ratio 8.0:1 .....  
 Material of piston ..... No. of piston rings 3 .....  
 Distance from gudgeon pin centre line to highest point of piston crown 52.7 m.m.  
 Bearings { Rear bearing Micro babbit .....  
           Crankshaft main bearings: Type Front & two centre Dia 63.5 m.m.  
           Brgs. Steel Backed lead indium lined .....  
           Connecting rod big end: Type Micro babbit Dia 50.8 m.m.  
 Weights { Flywheel 12.9 kg.  
           Crankshaft 27.7 kg.  
           Connecting rod .88 kg.  
           Piston with rings .541 kg.  
           Gudgeon pin .149 kg.  
 No. of valves per cylinder 2 ..... Method of valve operation O.H.V. Push rod  
 No. of camshafts 1 ..... Location of camshafts Cylinder block  
 Type of camshaft drive Chain from crankshaft .....  
 Diameter of valves: Inlet 39.4 m.m. Exhaust 33.9 m.m.  
 Diameter of port at valve seat: Inlet 35.6 m.m. Exhaust 30.5 m.m.  
 Tappet clearance for checking timing: Inlet .381 m.m. Exhaust .381 m.m.  
 Valves open: Inlet 20° B.T.D.C. ..... Exhaust 52° B.B.D.C. .....  
 Valves close: Inlet 46° A.B.D.C. ..... Exhaust 14° A.T.D.C. .....  
 Maximum valve lift: Inlet 8.9 m.m. Exhaust 8.4 m.m.  
 Degrees of crankshaft rotation from zero to—  
 Maximum lift: Inlet 178° ..... Exhaust 178° .....  
 ¾ Maximum lift: Inlet 122° ..... Exhaust 122° .....  
 Valve springs: Inlet Exhaust  
 Type Helical coil spring Helical coil spring  
 No. per valve 2 2  
 Carburettor: Type Down draft (up or down draft, horizontal) No. fitted 1  
 Make Zenith ..... Model 42.W.I.A. .....  
 Flange hole diameter 42 m.m. Choke diameter 33 m.m.  
 Main jet identification No. 170 .....

Air filter: Type A.C. paper element No. fitted 1

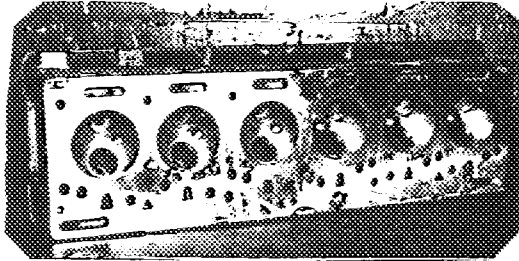
Inlet manifold:

Diameter of flange hole at carburettor 42.9 m.m.

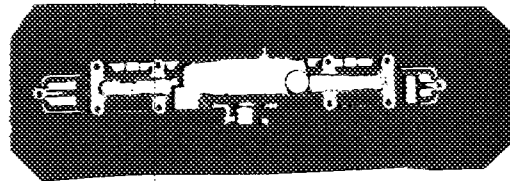
Diameter of flange hole at port Rectangular 39.4 x 25.4 m.m.

N.B. Manifold shape at joint to head consists of two large rectangular ports, each containing three separate inlet branches to internal dimensions given above.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



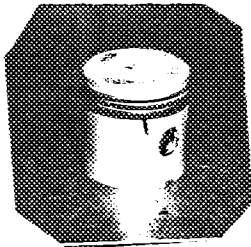
Exhaust manifold:

Diameter of flange hole at port Rectangular 44.5 x 25.4 m.m.

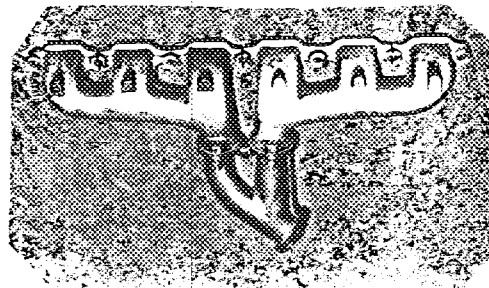
Diameter of flange hole at connection to silencer inlet pipe 2 Flanges 41.3 m.m.

N.B. Two piece Manifold feeding a Y piece down pipe.

Photograph of piston showing crown to be affixed here.



Photograph of exhaust manifold to be affixed here.



## ENGINE ACCESSORIES

Make of fuel pump	<u>A.C.</u>	No. fitted	<u>One</u>
Method of operation	<u>Mechanical from camshaft</u>		
Type of ignition system	<u>Distributor and</u>	coil	<del>XXXXXX</del>
Make of ignition	<u>Lucas Distributor</u>	Model	<u>DM 6</u>
Method of advance and retard	<u>Vacuum &amp; Centrifugal</u>		
Make of ignition coil	<u>Lucas</u>	Model	<u>HA 12</u>
No. of ignition coils	<u>One</u>	Voltage	<u>12v</u>
Make of dynamo	<u>Lucas</u>	Model	<u>C 45 PVG</u>
Voltage of dynamo	<u>12v</u>	Maximum output	<u>25</u> amps.
Make of starter motor	<u>Lucas</u>	Model	<u>M 418 G</u>
Battery: No. fitted	<u>One</u>	Voltage	<u>12v</u>
		Capacity	<u>51</u> amp. hour

Make..... Model **SUPER SNIPE** F.I.A. Recognition No.....  
 Manufacturers Reference No. of Application **HUMSNIPE III s**

**TRANSMISSION**

Make of clutch **Borg & Beck** Type **Single dry plate**  
 Diameter of clutch plate **9.16** No. of plates **1**  
 Method of operating clutch **Hydraulic foot operated**  
 Make of gearbox **Humber Ltd.** Type **Syncromesh**  
 No. of gearbox ratios **3 forward - 1 reverse**  
 Method of operating gearshift **Manual remote control**  
 Location of gearshift **Steering column**  
 Is overdrive fitted? **Optional extra**  
 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.	<b>1.00:1</b>	<b>Direct</b>						
2.	<b>1.611:1</b>	<b><math>\frac{35 \times 29}{21 \times 30}</math></b>						
3.	<b>2.803:1</b>	<b><math>\frac{35 \times 37}{21 \times 22}</math></b>						
4.	<b>3.137:1</b>	<b><math>\frac{35 \times 19 \times 32}{21 \times 17 \times 19}</math></b>						
* Rev.								

Type of final drive **Hypoid bevel gear**  
 Type of differential **Normal 2 Pinions and 2 side gears**  
 Final drive ratio **4.555:1** Alternatives **4.222:1 5.125**  
 No. of teeth **9/41** **9/38** **8/41**  
 Overdrive ratio, if fitted **1.7775:1 (28.6%)**

**WHEELS**

Type **Pressed steel disc** Weight **7.9** kg.  
 Method of attachment **5x $\frac{1}{2}$  Line studs**  
 Rim diameter **380** m.m. Rim width **114** m.m.  
 Tyre size: Front **6.90-15** Rear **6.90-15**  
**7.10-15**  
**6.70x15**

**BRAKES**

Method of operation **Girling Hydraulic**  
 Is servo assistance fitted? **Yes**  
 Type of servo, if fitted **Vacuum**  
 No. of hydraulic master cylinders **One** Bore **22.2** m.m.

	Front		Rear
No. of wheel cylinders	4		2
Bore of wheel cylinders	57	m.m.	19
Inside diameter of brake drums		m.m.	279
No. of shoes per brake			2
Outside diameter of brake discs	289	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	Segment 40° included	m.m.	267
	Angle 76 Int.Rad.	m.m.	267
Width	130 Ext.Rad.	m.m.	57
Total area per brake	7,800	m.m. <sup>2</sup>	30300

### SUSPENSION

	Front	Rear
Type	Independent wishbone	Live axle
Type of spring	Helical coil spring	Semi-elliptical leaf
Is stabiliser fitted?	Yes	No
Type of shock absorber	Armstrong at 10	Armstrong at 10
No. of shock absorbers	2	2

### STEERING

Type of steering gear	Burman 'F' Type recirculating ball	
Turning circle of car	11.6	m., approx.
No. of turns of steering wheel from lock to lock	4	

### CAPACITIES AND DIMENSIONS

Fuel tank	57	with	litres	Sump	7.68 Sump only	
Engine & Radiator	14.2:14.8	heater	litres		8.53 inc. filter	litres
Overall length of car	477.5	cm.	Overall width of car	177	cm.	
Overall height of car, unladen (with hood up, if appropriate)	155	cm.				
Distance from floor to top of windscreen:						
Highest point	112	cm.	Lowest point	102	cm.	
Width of windscreen:						
Maximum width	142	cm.	Minimum width	129	cm.	
*Interior width of car	147	cm.				
No. of seats	2					
Track: Front	142	cm.	Rear	141	cm.	
Wheelbase	280	cm.	Ground clearance	178	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. 1480 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:—

Borg Warner Automatic Transmission available at extra cost for use with 4.22 Axle Ratio

1. Petrol Tank Shield available (Australia, Africa and New Zealand).
2. Electrical Petrol Pump.
3. Large capacity long range Fuel Tank available (Australia, Africa and New Zealand).  
(Capacity 100 litres)
4. Radiator and Sump protective shield available.
5. Heavy duty suspension available with protective plate welded to front cross member, in conjunction with high rated rear springs.
6. Oil Cooler available.
7. Light weight competition seats.
8. 5.125 Rear axle ratio available (Australia Africa and New Zealand).





ROUTES - HUMBER SUPERSNIPE MKIII A

MARQUE ET MODELE

10/51

VALIDITE HOMOLOGATION

1079

FICHE NR.

T/3000

GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES

Autres homologations du modèle

Vérifiée le 21/3/96 par [Signature] visée ce jour le \_\_\_\_\_ par \_\_\_\_\_