

Manufacturers Reference No. for Application

HUMSNIPE III



F.I.A. Recognition No.

1042

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 III Year of Manufacture..... 1960

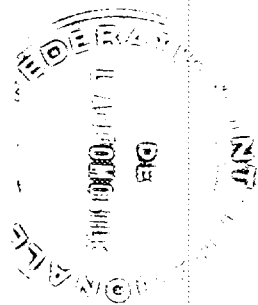
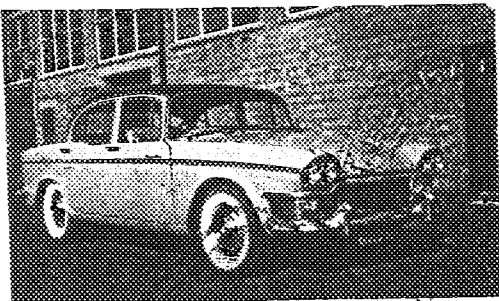
Chassis..... B8100001

Serial No. of Engine..... "

Type of Coachwork..... Four Door.Four Light Five Seater Saloon.

Recognition is valid from..... 1st Oct. 1960..... In category..... 1&2

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



Richard Schofield

Stamp of F.I.A. to be affixed here.
MEMBER OF
The FEDERATION
INTERNATIONALE
de l'AUTOMOBILE

General description of car:

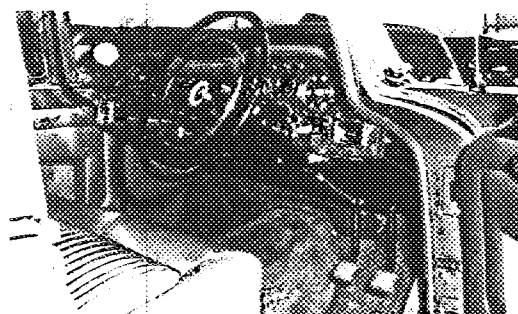
4 Door. Four Light Saloon.

Photographs to be affixed below.

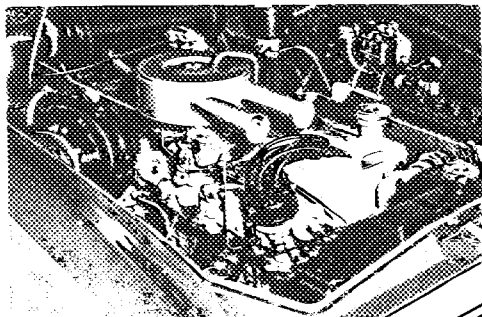
view of car from rear left.



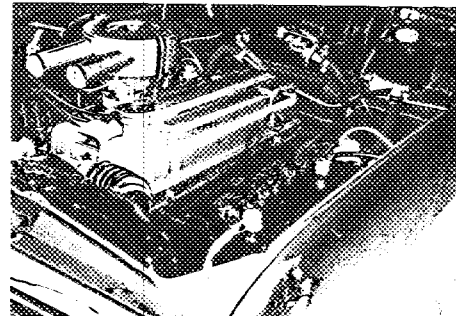
Interior view of car through driver's door.



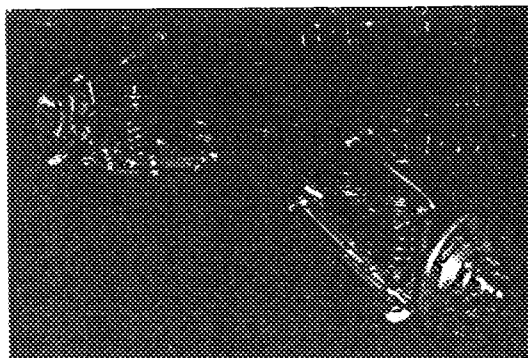
Engine unit with accessories from right.



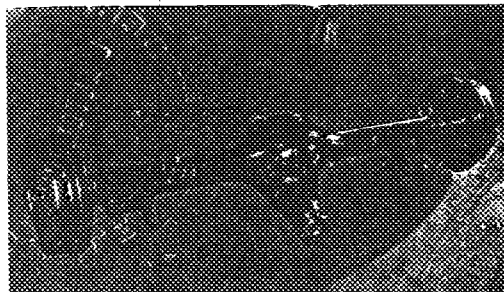
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels)



ENGINE

No. of cylinders 6 in line
~~XXX~~
~~XXXXX~~

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 ± 1 c.c. with valves & spark plugs fitted.

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 { Crankshaft main bearings: Type Prt. & two centres Dia. 63.5 m.m.
 { orgs. steel backed lead inium lined

Connecting rod big end: Type _____ 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°

$\frac{3}{4}$ Maximum lift: Inlet 122° Exhaust 122°

Valve springs: Inlet Helical coil spring Exhaust Helical coil spring

No. per valve 1 1

Carburettor: Type Down draft No. fitted 1
 (up or down draft, horizontal)

Make Zenith Model 42 W.I.A.

Flange hole diameter 42 m.m. Choke diameter 33 m.m.

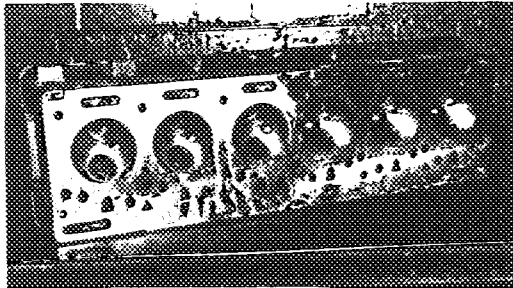
Main jet identification No. 170

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

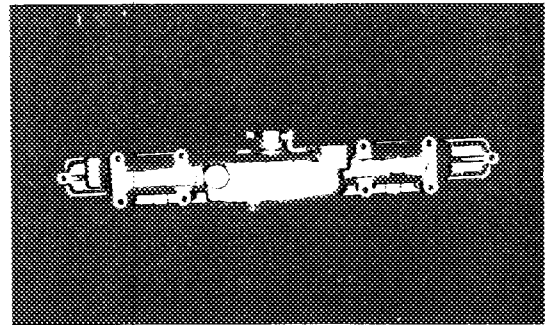
Inlet manifold:
 Diameter of flange hole at carburettor 42.9 m.m.

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.



Exhaust manifold.

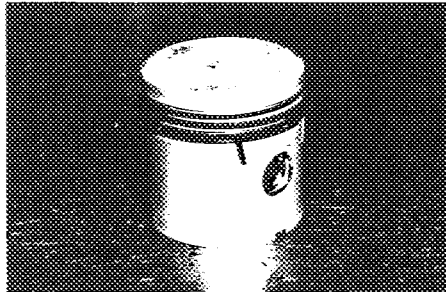


Diameter of flange hole at port Rectangular 44.5 x 25.4 m.m.

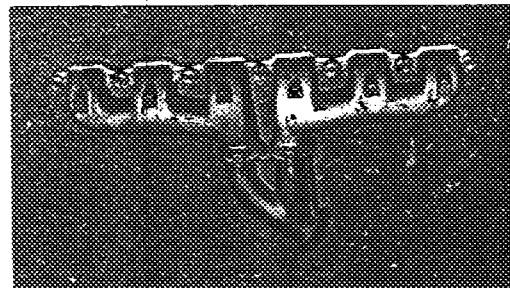
Diameter of flange hole at connection to silencer inlet pipe 2 Flanges 41.3 m.m.

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 &</u>	coil or	XXXXX <u>magnets</u>
Make of ignition	<u>Lucas Distributor</u>	Model	<u>DM 6</u>
Method of advance and retard	<u>Vacuum & 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



HUMBER

Model SUPER SNIPE F.I.A. Recognition No.

Manufacturers Reference No. of Application HUMSNIPE III

MEMBER OF THE FEDERATION INTERNATIONALE DE L'AUTOMOBILE 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.	1.00:1	Direct						
2.	1.611:1	$\frac{35 \times 29}{20 \times 30}$						
3.	2.803:1	$\frac{35 \times 37}{21 \times 22}$						
4.	3.137:1	$\frac{35 \times 19 \times 32}{21 \times 17 \times 19}$						
$\frac{x}{\text{Rev.}}$								

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 17775:1 (28.6%)

WHEELS

Type Pressed steel disc Weight 7.9 kg.

Method of attachment 5x1/2 Line studs

Rim diameter 380 m.m. Rim width 114 m.m.

Tyre size: Front 6.90x15 Rear 6.90x15

7.10 x 15 6.70 x 15

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	m.m.
Inside diameter of brake drums		m.m.	279	m.m.
No. of shoes per brake			2	
Outside diameter of brake discs	289	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	
Segment 40° included				
Length Angle 76 Int. Rad.		m.m.	267	m.m.
		m.m.	267	m.m.
Width	130	Ext. Rad. m.m.	57	m.m.
Total area per brake	7,800	m.m. ²	30300	m.m. ²

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	litres	Sump	7.68 Sump only.
Engine & Radiator	14.2; 14.8 with heater	litres		8.53 inc. filter.

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 1480⁰ 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:—

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



ROOTE-S HUMBEL SUPER SNIPER MKII

MARQUE ET MODELE

10/60

VALIDITE HOMOLOGATION

1042

FICHE NR.

T/3200

GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES

Autres homologations du modèle

Vérifiée le 11/3/16 par [Signature] visée ce jour le _____ par _____