

Manufacturers Reference No. for Application



F.I.A. Recognition No. 1176

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..... HILLMAN MOTOR CO. LIMITED

Model..... SUPER MINX II Year of Manufacture..... 1963

Serial No. of Chassis..... 1300001

Engine.....

Type of Coachwork..... SALOON

Recognition is valid from..... 29th January, 1963 In category..... TOURING

*liste générale 9
additionnelle 13*

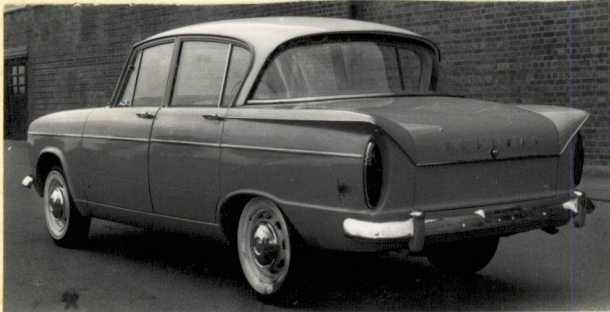


Hubert Chouet

General description of car:

Photographs to be affixed below.

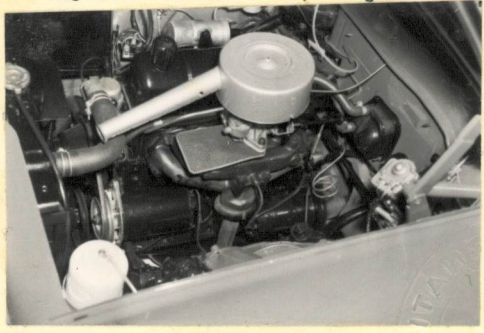
$\frac{3}{4}$ view of car from rear left.



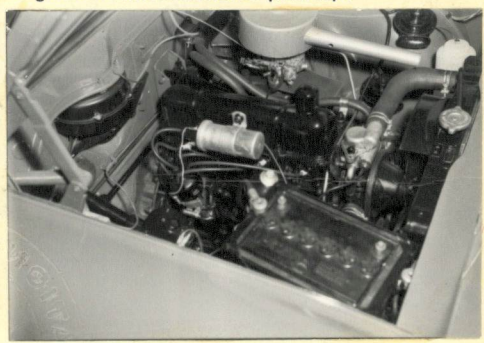
Interior view of car through driver's door.



Engine unit with accessories from right.



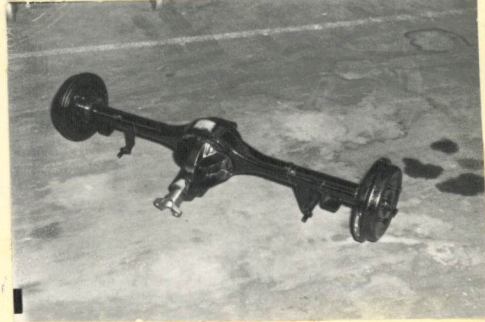
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



ENGINE

No. of cylinders..... 4 in line.....
 in V
 opposed

Cycle..... 4 stroke Firing order..... 1, 3, 4, 2

Capacity..... 1592 c.c. Bore..... 81.5 m.m. Stroke..... 76.2 m.m.

Maximum rebore..... 82.25 Resultant capacity..... 1620 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..... 231.8 m.m.

Material of cylinder head..... Cast Iron Volume of one combustion chamber..... 44/46 c.c.

Compression ratio..... 8.3 : 1
 3

Material of piston..... "Heplex" No. of piston rings.....
 3

Distance from gudgeon pin centre line to highest point of piston crown..... 46.9 m.m.

Bearings { Crankshaft main bearings: Type White metal lined Dia. 57.13 m.m.
 Connecting rod big end: Type Aluminium tin lined Dia. 50.82 m.m.

Weights { Flywheel..... 9.87 kg.
 Crankshaft..... 15.42 kg.
 Connecting rod..... .71 kg.
 Piston with rings..... .44 kg.
 Gudgeon pin..... .14 kg.

No. of valves per cylinder..... 2 Method of valve operation..... Pushrod

No. of camshafts..... 1 Location of camshafts..... Side, in Cyl, block

Type of camshaft drive..... Chain

Diameter of valves: Inlet..... 36.45 m.m. Exhaust..... 29.3 m.m.

Diameter of port at valve seat: Inlet..... 33.3 m.m. Exhaust..... 26.9 m.m.

Tappet clearance for checking timing: Inlet..... .5 at valve tip m.m. Exhaust..... .5 at valve tip m.m.

Valves open: Inlet..... 14° B.T.D.C. Exhaust..... 56° B.B.D.C.

Valves close: Inlet..... 52° A.B.D.C. Exhaust..... 10° A.T.D.C.

Maximum valve lift: Inlet..... 8.13 m.m. Exhaust..... 8.08 m.m.

Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet..... 148° Exhaust..... 144°
 $\frac{3}{4}$ Maximum lift: Inlet..... 96° Exhaust..... 92°

Valve springs: Inlet..... Exhaust.....
 Type..... Helical coil Helical coil
 No. per valve..... 2 2

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

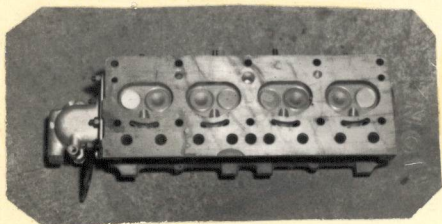
Make..... Solex Model..... 33 P.S.E.I.

Flange hole diameter..... 33 m.m. Choke diameter..... 25 m.m.

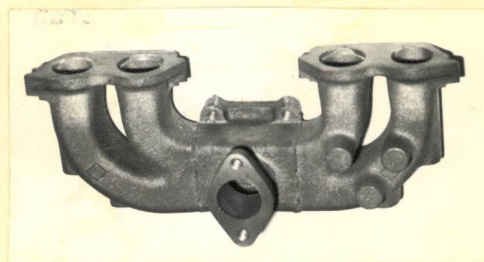
Main jet identification No..... 65

Air filter: Type A.C. Paper Element No. fitted 1
 Inlet manifold:
 Diameter of flange hole at carburettor 33 m.m.
 Diameter of flange hole at port 32 m.m.

Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



Exhaust manifold:
 Diameter of flange hole at port 27 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 45.7 m.m.

Photograph of piston showing crown to be affixed here.



Photograph of exhaust manifold to be affixed here.



ENGINE ACCESSORIES

Make of fuel pump A.C. No. fitted 1
 Method of operation Mechanical
 Type of ignition system Coil coil or magneto
 Make of ignition Lucas Model D.M.2.
 Method of advance and retard Centrifugal and Vacuum
 Make of ignition coil Lucas Model H.A. 12
 No. of ignition coils 1 Voltage 12
 Make of dynamo Lucas Model c.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

Make HILLMAN Model SUPER MINX MK II F.I.A. Recognition No. _____
 Manufacturers Reference No. of Application _____

TRANSMISSION

Make of clutch Borg and Beck Type Single dry plate
 Diameter of clutch plate 8.0 in. No. of plates 1
 Method of operating clutch Mechanical through hydraulic
 Make of gearbox Rootes Type Constant-mesh
 No. of gearbox ratios 4 forward and 1 reverse
 Method of operating gearshift Manual
 Location of gearshift Central floor lever
 Is overdrive fitted? No
 Method of controlling overdrive, if fitted _____

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.346	$\frac{29}{20} \times \frac{30}{13}$						
2.	2.141	$\frac{29}{20} \times \frac{31}{21}$						
3.	1.392	$\frac{29}{20} \times \frac{24}{25}$						
4.	1.000	Direct						
REV.	4.239	$\frac{29 \times 30 \times 19}{20 \times 13 \times 15}$						

Type of final drive Hypoid
 Type of differential Normal - 2 pinions & side gears
 Final drive ratio 3.889 : 1 Alternatives 4.22 : 1, 4.44 : 1, 4.86 : 1
 No. of teeth 35/9 38/9 40/9 34/7
 Overdrive ratio, if fitted _____

WHEELS

Type Pressed steel Weight 5.75 kg.
 Method of attachment 4@ 7/16 UNF Bolts
 Rim diameter 330.2 m.m. Rim width 114.3 m.m.
 Tyre size: Front 6.00 x 13 Rear 6.00 x 13

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? No.
 Type of servo, if fitted -
 No. of hydraulic master cylinders 1 Bore 17.8 m.m.

	Front		Rear	
No. of wheel cylinders	2 per wheel		1 per wheel	
Bore of wheel cylinders	53.9	m.m.	19.1	m.m.
Inside diameter of brake drums	-	m.m.	229	m.m.
No. of shoes per brake	-		2	
Outside diameter of brake discs	10.3	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	
Length	78.7	m.m.	219	m.m.
	78.7	m.m.	219	m.m.
Width	48.5	m.m.	44.5	m.m.
Total area per brake	6452	m.m. ²	19,500	m.m. ²

SUSPENSION

	Front		Rear	
Type	Independent		Live axle	
Type of spring	Coil		Semi-elliptic	
Is stabiliser fitted?	Yes		No	
Type of shock absorber	Hydraulic telescopic		Front and rear	
No. of shock absorbers	2		2	

STEERING

Type of steering gear	Burman recirculating ball			
Turning circle of car	10.97			m., approx.
No. of turns of steering wheel from lock to lock	3.2			

CAPACITIES AND DIMENSIONS

Fuel tank	47.7	litres	Sump	3.9 sump only 4.5 inc. filter	litres
Radiator	and engine 7	litres			
Overall length of car	419	cm.	Overall width of car	162	cm.
Overall height of car, unladen (with hood up, if appropriate)	148				cm.
Distance from floor to top of windscreen:					
Highest point	104	cm.	Lowest point	101	cm.
Width of windscreen:					
Maximum width	129	cm.	Minimum width	119	cm.
*Interior width of car	129.5	cm.			
No. of seats	4/5				
Track: Front	131.4	cm.	Rear	123	cm.
Wheelbase	256.5	cm.	Ground clearance	165	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..... 1040 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:—

1. Heavy duty Suspension with Aeon Rubber Assistance available, export countries: Australia, Africa and New Zealand.
 2. Long Range Fuel Tank available, capacity 100 litres.
 3. Oil Cooler available.
 4. Electrical Petrol Pump available.
 5. Sump Protective Shield available (Africa export).
 6. Borg-Warner Automatic Transmission available.
 7. Spacers available to permit fitting of alternative 650 x 13 tyres, widens rear track to 124 c.m.
 - 1st 2.39 : 1
 - 2nd 1.45 : 1
 - 3rd 1.00 : 1
 - Rev. 2.09 : 1
- Axle ratio 4.22 : 1