

Manufacturers Reference No. for Application

SUPER MINX III



F.I.A. Recognition No.

1357

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 Car Company, Ltd.,

Model Super Minx III Year of Manufacture 1964

Serial No. of Chassis B14000001

Engine B14000001

Type of Coachwork Saloon

Recognition is valid from 16th November 1964 In category Touring



Stamp of F.I.A./R.A.C. to be
affixed here.



Date amendment is valid from.....

Form: R.F.I.B.

General description of car:

Specify here material/s of
chassis/body construction

4 Door 5 seater Saloon Car.

All Steel integral Chassis/Body unit.

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.



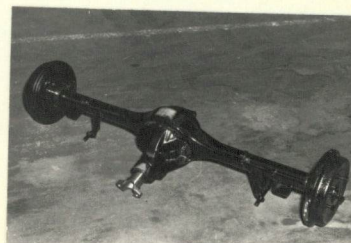
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels).



ENGINE

in line
 No. of cylinders 4 in V
 opposed
 Cycle 4 Stroke. Firing order 1342
 Capacity 1592 c.c. Bore 81.5 m.m. Stroke 76.4 m.m.
 Maximum rebore 82.25 MM. 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
 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. Dia. 57.13 m.m.
 Connecting rod big end: Type Aluminium Tin. 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 29.8 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 m.m. Exhaust .5 m.m.
 Valves open: Inlet 14° BTDC Exhaust 56° BBDC.
 Valves close: Inlet 52 ABDC Exhaust 10° ATDC
 Maximum valve lift: Inlet 8.13 m.m. Exhaust 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 Downdraft. No. fitted 1.
 (up or down draft, horizontal)
 Make Solex. Model 33 PSE1
 Flange hole diameter 33 m.m. Choke diameter 25 m.m.
 Main jet identification No. 112.5

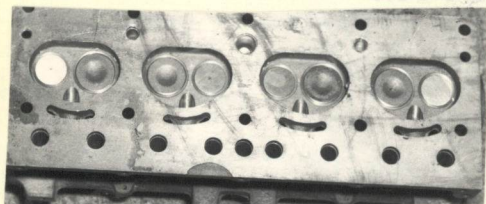
Air filter: Type Techalemit Foam. No. fitted 1.

Inlet manifold:
Diameter of flange hole at carburettor 33. m.m.

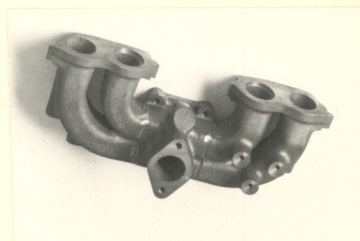
Diameter of flange hole at port 32 m.m.



Photograph of combustion chamber to be affixed here.



Photograph of inlet manifold to be affixed here.



Exhaust manifold:

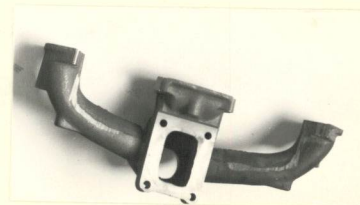
Diameter of flange hole at port 27 m.m.

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 AC No. fitted 1.

Method of operation Mechanical.

Type of ignition system Coil. coil or magneto

Make of ignition Lucas. Model DMZ.

Method of advance and retard Centrifugal & Vacuum.

Make of ignition coil Lucas. Model HA.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

Oil Cooler (if fitted) type..... Capacity..... pints

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

TRANSMISSION

Make of clutch Borg & Beck Type Diaphragm
 Diameter of clutch plate 7 1/2" No. of plates 1
 Method of operating clutch Hydraulic
 Make of gearbox Rootes Type All Synchronesh
 No. of gearbox ratios 4 Forward 1 Reverse
 Method of operating gearshift Manual
 Location of gearshift On Floor. Or Optional Column Change
 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.						
5.	3.57	$\frac{29}{20} \times \frac{32}{25}$						

Type of final drive Hypoid
 Type of differential Normal. - 2 Pinions & Side Gears
 Final drive ratio 4.22 : 1 Alternatives 3.89 4.44 4.86
 No. of teeth 38/9 35/9 40/9 34/7
 Overdrive ratio, if fitted _____

WHEELS

Type Pressed Steel Weight 5.75 kg.
 Method of attachment 4 Studs 7/16 UNF
 Rim diameter 330.2 m.m. Rim width 114.3 m.m.
 Tyre size: Front 600 x 13 Rear 600 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		1	
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	247.5	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.
	6452	m.m. ²	19500	m.m. ²
Total area per brake				

SUSPENSION

	Front		Rear	
Type	Independent.		Live Axle.	
Type of spring	Coil.		Semi Elliptic.	
Is stabiliser fitted?	Yes.		No.	
Type of shock absorber	Telescopic.		Telescopic.	
No. of shock absorbers	2		2	

STEERING

Type of steering gear..... 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..... litres

Radiator..... 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..... 129.5..... cm. Minimum width..... 119..... cm.

*Interior width of car..... 129..... 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 available for export territories.



Front Springs	1217971
Front Dampers	5220510
Rear Springs	1216048
Rear Dampers	5220511

2. Long range fuel tank available capacity 100 Litres 1219155.
3. Borg Warner Automatic Transmission available 1216344.

Ratios.	1st	2.39	: 1
	2nd	1.45	: 1
	3rd	1.00	: 1
	Rev.	2.09	: 1

4. Oil Cooler available 1215674.
Capacity $1\frac{1}{2}$ pints.
5. Sump Guard available (1202502).