

Manufacturers Reference No. for Application

R72/61



F.I.A. Recognition No.

1114

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 Riley Motors Ltd.

Model Riley 4/Seventy Two Year of Manufacture 1961

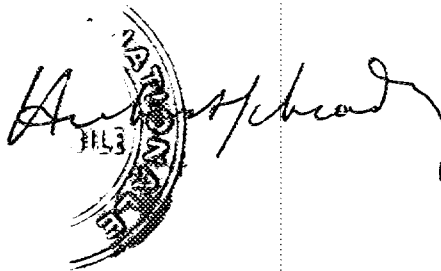
Serial No. of Chassis R-HS3

Engine 16 RA/U/H or 16RA/U/L

Type of Coachwork Saloon - 4 door

Recognition is valid from 27.5.1962 In category Touring

liste générale 9
additionnelle 7



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

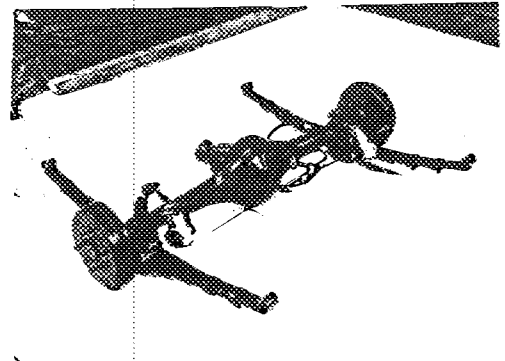
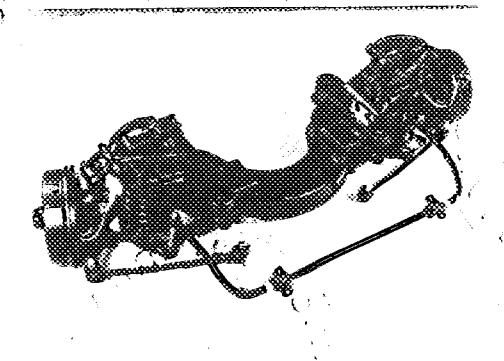
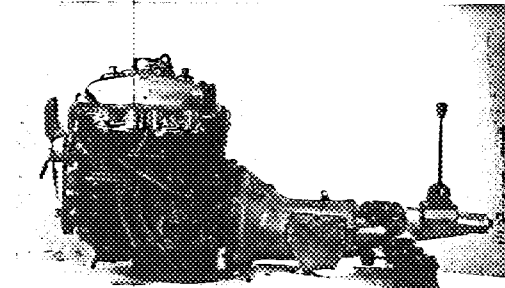
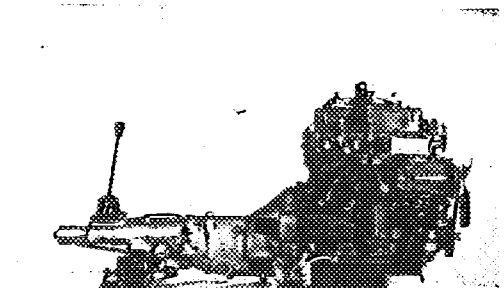
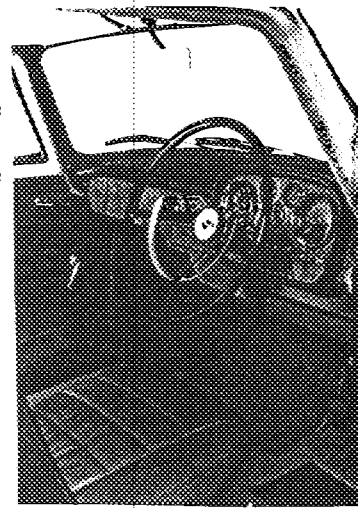
Form: R.F.I.A.

General description of car:

Specify here material/s of chassis/body construction

4 door steel saloon of unitary construction powered by 4 cylinder twin carburettor OHV engine driving rear wheels through 4 speed synchromesh or automatic gearbox. Suspension by wishbone and coil spring at front and semi elliptic leaf spring at rear.

Photographs to be affixed b



ENGINE

in line Yes

No. of cylinders 4 in V -
 opposed -

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

Capacity 1622 c.c. Bore 76.2 m.m. Stroke 88.9 m.m.

Maximum rebore 1.016mm Resultant capacity 1666 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 252.273/252.527 m.m.

Material of cylinder head Cast Iron Volume of one combustion chamber 38.7 c.c.

Compression ratio 8.3:1

Material of piston Aluminium alloy No. of piston rings 4

Distance from gudgeon pin centre line to highest point of piston crown 42.07 m.m.

Bearings { Crankshaft main bearings: Type Copper lead Dia. 50.82 m.m.
 Connecting rod big end: Type Copper lead Dia. 47.66 m.m.

Weights { Flywheel 13.5 kg.
 Crankshaft 14.9 kg.
 Connecting rod 1.02 kg.
 Piston with rings .36 kg.
 Gudgeon pin .11 kg.

No. of valves per cylinder 2 Method of valve operation Push rod & rockers

No. of camshafts One Location of camshafts Cylinder block

Type of camshaft drive Chain

Diameter of valves: Inlet 38.1 m.m. Exhaust 32.54 m.m.

Diameter of port at valve seat: Inlet 33.34 m.m. Exhaust 30.00 m.m.

Tappet clearance for checking timing: Inlet .53 m.m. Exhaust .53 m.m.

Valves open: Inlet T.D.C. Exhaust 35° B.B.D.C.

Valves close: Inlet 50° A.B.D.C. Exhaust 15° A.T.D.C.

Maximum valve lift: Inlet 7.899 m.m. Exhaust 7.899 m.m.

Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 115° A.T.D.C. Exhaust 80° A.B.D.C.
 ¾ Maximum lift: Inlet 66° A.T.D.C. Exhaust 31° A.B.D.C.

Valve springs: Inlet Single coil Exhaust Single coil
 Type Single coil No. per valve Two

Carburettor: Type Semi down draught No. fitted 2
 (up or down draft, horizontal)

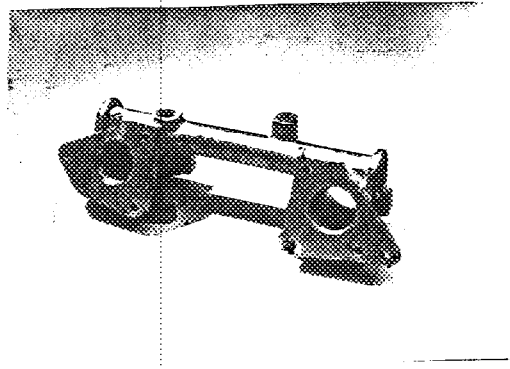
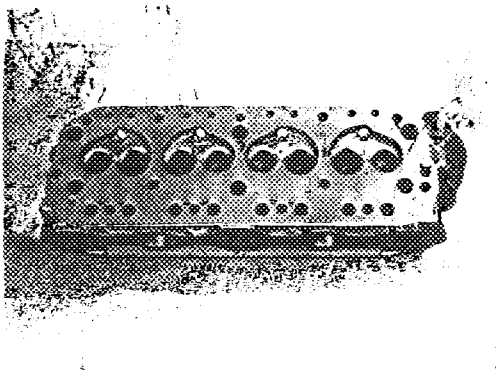
Make S.U. Model HD4

Flange hole diameter 38.1 m.m. Choke diameter - m.m.

Main jet identification No. Needle HB Spring red

Air filter: Type Oil bath No. fitted One

Inlet manifold:
 Diameter of flange hole at carburettor 38.1 m.m.
 Diameter of flange hole at port 33.33 m.m.



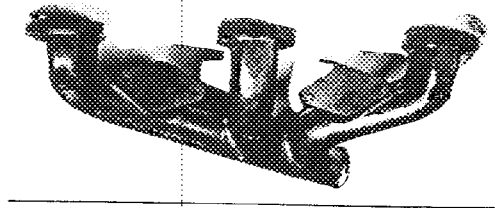
Exhaust manifold:

Diameter of flange hole at port Ends 36.51 x 30.16 Centre 36.51 x 33.33 m.m.
 Diameter of flange hole at connection to silencer inlet pipe 34.92 m.m.

Photog



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ENGINE ACCESSORIES

Make of fuel pump S.U. No. fitted One
 Method of operation Electrical
 Type of ignition system Coil coil or magneto
 Make of ignition Lucas Model 25 D.4.
 Method of advance and retard Vacuum & centrifugal
 Make of ignition coil Lucas Model L.A.12
 No. of ignition coils One Voltage 12
 Make of dynamo Lucas Model G40
 Voltage of dynamo 12 Maximum output 22 amps.
 Make of starter motor Lucas Model M.35G
 Battery: No. fitted One Voltage 12 Capacity 57 amp. hour
 Oil Cooler (if fitted) type - Capacity - pints

Make Riley Model Seventy Two F.I.A. Recognition No. _____

Manufacturers Reference No. of Application R72/61

TRANSMISSION

Make of clutch Borg & Beck Type 8A6G
 Diameter of clutch plate 8" 203mm No. of plates One
 Method of operating clutch Hydraulic
 Make of gearbox British Motor Corporation Type 4 speed synchromesh or automatic
 No. of gearbox ratios Four forward, 1 reverse
 Method of operating gearshift Mechanical
 Location of gearshift Central on floor
 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.	3.6363	$\frac{30}{21} \times \frac{28}{11}$	2.44:1	$\frac{25}{26} \times \frac{11}{28}$				
2.	2.2143	$\frac{30}{21} \times \frac{31}{20}$	1.618:1	$\frac{25}{26} \times \frac{19}{32}$				
3.	1.3736	$\frac{30}{21} \times \frac{25}{26}$	1.266:1	$\frac{25}{26} \times \frac{29}{22}$				
4.	1.0	-	1.0					
∑ R	4.755	$\frac{30 \times 28 \times 17}{21 \times 11 \times 13}$	3.199:1					

Type of final drive Hypoid bevel - Three quarter floating.
 Type of differential Bevel
 Final drive ratio 4.3/1 Alternatives 4.55:1, 4.875:1
 No. of teeth 10/43 9/41, 8/39
 Overdrive ratio, if fitted -

WHEELS

Type Disc Weight 6.75 kg.
 Method of attachment Studs in brake drum
 Rim diameter 355.6 m.m. Rim width 101.6 m.m.
 Tyre size: Front 5.90 x 14 Rear 5.90 x 14

BRAKES

Method of operation Hydraulic
 Is servo assistance fitted? No
 Type of servo, if fitted -
 No. of hydraulic master cylinders No Bore 17.78 m.m.

	Front	Rear
No. of wheel cylinders	2 per wheel	1 per wheel
Bore of wheel cylinders	22.225 m.m.	22.225 m.m.
Inside diameter of brake drums	228.6 m.m.	228.6 m.m.
No. of shoes per brake	Two	Two
Outside diameter of brake discs	- m.m.	- m.m.
No. of pads per brake	-	-
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	219 m.m.	219 m.m.
	- m.m.	- m.m.
Width	63.5 m.m.	44.45 m.m.
Total area per brake	27820 m.m. ²	20110 m.m. ²

SUSPENSION

	Front	Rear
Type	Independent	Semi elliptic
Type of spring	Coil	Leaf
Is stabiliser fitted?	Yes	Yes
Type of shock absorber	Hydraulic lever type	Hydraulic lever type
No. of shock absorbers	Two	Two

STEERING

Type of steering gear	Cam & peg
Turning circle of car	11.43 m., approx.
No. of turns of steering wheel from lock to lock	2 $\frac{5}{8}$

CAPACITIES AND DIMENSIONS

Fuel tank	45.4 litres	Sump	4.5 litres
Radiator	6.8 litres		
Overall length of car	148 cm.	Overall width of car	161 cm.
Overall height of car, unladen (with hood up, if appropriate)	149 cm.		
Distance from floor to top of windscreen:			
Highest point	139.7 cm.	Lowest point	103.5 cm.
Width of windscreen:			
Maximum width	127 cm.	Minimum width	111.7 cm.
*Interior width of car	133 cm.		
No. of seats	Four		
Track: Front	128.6 cm.	Rear	131.1 cm.
Wheelbase	254.6 cm.	Ground clearance	149 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	1085 kgs.
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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:—



FEDERATION INTERNATIONALE DE L'AUTOMOBILE

RILEY - 4/72

MARQUE ET MODELE

2/52

VALIDITE HOMOLOGATION

1114

FICHE NR.

Blank rectangular box for additional information.

T/2000

GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES
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Multiple horizontal lines for entering data in the DESCRIPTION column.

Autres homologations du modèle

Vérifiée le 22/2/56 par [Signature] visée ce jour le _____ par _____