

Manufacturers Reference No. for Application

ADC 159R/63



F.I.A. Recognition No.

1198

ROYAL AUTOMOBILE CLUB

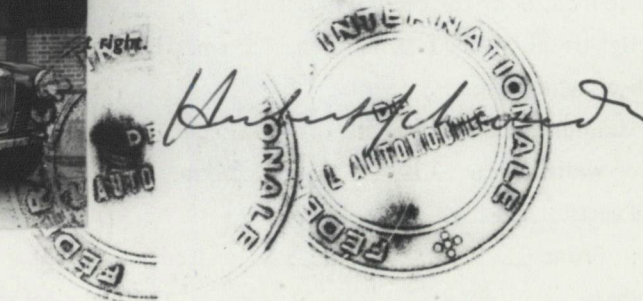
PALL MALL, LONDON, S.W.1.

Federation Internationale de l'Automobile.

Form of Recognition in accordance with
Appendix J to the
International Sporting Code.

Manufacturer..... Riley Motors Limited
Model..... Riley Elf MK II Year of Manufacture..... 1963
Chassis..... R/A2S2
Serial No. of Engine..... 9WR-U-H & 9WR-FAU-H
Type of Coachwork..... Saloon - 2 door
Recognition is valid from..... 9/5/63 In category..... Touring

Phot



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

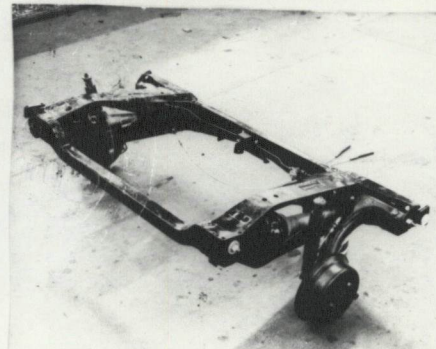
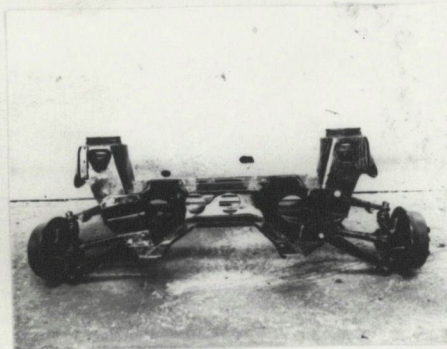
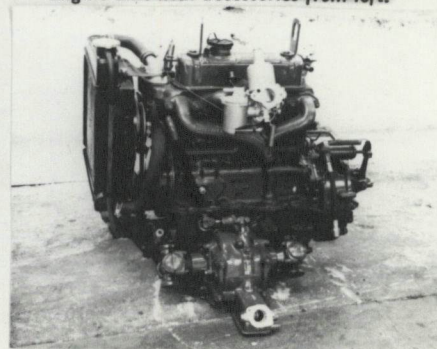
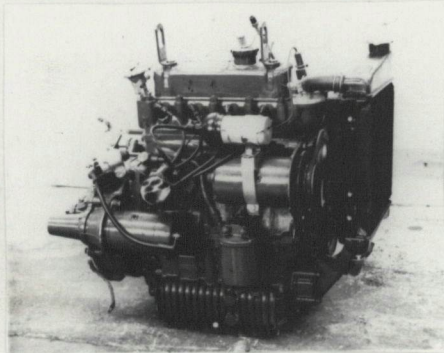
Form: R.F.I.A.

General description of car:

Specify here material/s of
chassis/body construction

2 door saloon of unitary construction powered by transversely mounted 4 cylinder
OHV engine/transmission unit driving front wheels. All independent suspension
via rubber cone springs.

Photographs to be affixed below.



ENGINE

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

Cycle Four stroke Firing order 1,3,4,2.
 Capacity 998 c.c. Bore 64.57/64.60 m.m. Stroke 76.20/76.33 m.m.
 Maximum rebore +.020" Resultant capacity 1016 c.c. (Max)
 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 218.31/218.57 m.m.
 Material of cylinder head Cast Iron Volume of one combustion chamber 24.5 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 33.96/34.09 m.m.

Bearings { Crankshaft main bearings: Type Copper lead Dia. 44.46 m.m.
 Connecting rod big end: Type Copper Lead Dia. 41.28 m.m.

Weights { Flywheel 6.69 kg.
 Crankshaft 9.5 kg.
 Connecting rod .68 kg.
 Piston with rings .18 kg.
 Gudgeon pin .057 kg.

No. of valves per cylinder 2 Method of valve operation Push rod & rocker
 No. of camshafts 1 Location of camshafts In crankcase
 Type of camshaft drive Chain

Diameter of valves: Inlet 27.76/27.89 m.m. Exhaust 25.4/25.5 m.m.
 Diameter of port at valve seat: Inlet 24.34 m.m. Exhaust 22.83/23.32 m.m.
 Tappet clearance for checking timing: Inlet .48 m.m. Exhaust .48 m.m.
 Valves open: Inlet 5° BTDC Exhaust 40° BBDC
 Valves close: Inlet 45° ABDC Exhaust 10° ATDC
 Maximum valve lift: Inlet 7.15 m.m. Exhaust 7.15 m.m.
 Degrees of crankshaft rotation from zero to—
 Maximum lift: Inlet 110° ATDC Exhaust 75° ABDC
 $\frac{3}{4}$ Maximum lift: Inlet 62 $\frac{1}{2}$ ° ATDC Exhaust 27 $\frac{1}{2}$ ° ABDC

Valve springs: Inlet _____ Exhaust _____
 Type Coil _____
 No. per valve One _____
 Carburettor: Type Semi down draught No. fitted One
 (up or down draft, horizontal)

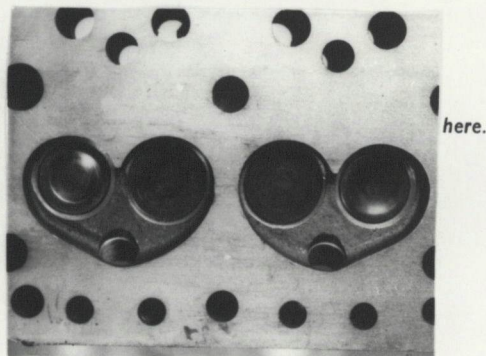
Make S.U Model H.S.2
 Flange hole diameter 31.75 m.m. Choke diameter Variable m.m.
 Main jet identification No. 0.090"

Air filter: Type Combined cleaner - silenced No. fitted One

Inlet manifold:

Diameter of flange hole at carburettor Less chamfer 31.75 m.m.

Diameter of flange hole at port Less chamfer 26.95 m.m.



Exhaust manifold: Outer Ports 26.95 x 22.2
Diameter of flange hole at port Centre Port 26.95 x 25.4 m.m.
Diameter of flange hole at connection to silencer inlet pipe 28.55 m.m.



ere.

Photograph of exhaust manifold to be affixed here.

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 25D4
Method of advance and retard Automatic centrifugal & vacuum control
Make of ignition coil Lucas Model LA12
No. of ignition coils One Voltage 12
Make of dynamo Lucas Model C.40
Voltage of dynamo 12 Maximum output 19 amps.
Make of starter motor Lucas Model M.35G
Battery: No. fitted 1 Voltage 12 Capacity 43. amp. hour
Oil Cooler (if fitted) type _____ Capacity _____ pints

Make Riley Model Elf Mk II F.I.A. Recognition No. _____
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TRANSMISSION

(Newton Bennett)
 Make of clutch BMC (Clutch Plate) Type Direct operational
 Diameter of clutch plate 7 $\frac{1}{8}$ " No. of plates 1
 Method of operating clutch Hydraulic
 Make of gearbox BMC Type Synchromesh
 No. of gearbox ratios 4 forward, 1 reverse
 Method of operating gearshift Manual
 Location of gearshift 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
C/Mesh								
1.	3.627	28/19 32/13						
2.	2.172	28/19						
3.	1.412	23/24						
4.	1							
X Rev	3.627	32/13						

Type of final drive Helical spur gears
 Type of differential Bevel gears
 Final drive ratio 3.765 Alternatives 3.44:1
 No. of teeth 64/17 18/62
 Overdrive ratio, if fitted No

WHEELS

Type Disc Weight 3.175 kg.
 Method of attachment Four studs & nuts
 Rim diameter 254 m.m. Rim width 88.9 m.m.
 Tyre size: Front 5.20 x 10 Rear 5.20 x 10

BRAKES

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

	Front	Rear
No. of wheel cylinders per brake	Two	One
Bore of wheel cylinders	20.32 m.m.	15.88 m.m.
Inside diameter of brake drums	177.8 m.m.	177.8 m.m.
No. of shoes per brake	Two	Two
Outside diameter of brake discs	m.m.	m.m.
No. of pads per brake	m.m.	m.m.
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	171.45 m.m.	171.45 m.m.
	m.m.	m.m.
Width	38.10 m.m.	31.75 m.m.
Total area per brake	13060 m.m. ²	10887 m.m. ²

SUSPENSION

	Front	Rear
Type	Transverse wishbone	Trailing arm
Type of spring	Rubber cone	Rubber cone
Is stabiliser fitted?	No	No
Type of shock absorber	Telescopic	Telescopic
No. of shock absorbers	One per wheel	One per wheel

STEERING

Type of steering gear..... Rack & Pinion

Turning circle of car..... 31 FT. 9.45 m., approx.

No. of turns of steering wheel from lock to lock 2 $\frac{1}{3}$

CAPACITIES AND DIMENSIONS

Fuel tank 25 litres Sump 5.12 litres

Radiator 3.5 litres

Overall length of car 327.02 cm. Overall width of car 140.97 cm.

Overall height of car, unladen (with hood up, if appropriate) 134.62 cm.

Distance from floor to top of windscreen:

Highest point 101.6 cm. Lowest point 71.75 cm.

Width of windscreen:

Maximum width 113.39 cm. Minimum width 113.39 cm.

*Interior width of car 116.84 cm.

No. of seats 4

Track: Front 120.7 cm. Rear 117.66 cm.

Wheelbase 203.5 cm. Ground clearance 156.4 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 639 kgs.

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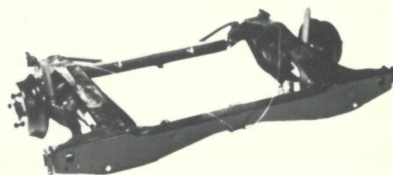
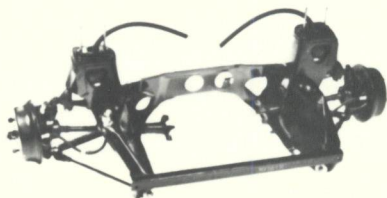
Federation Internationale de l'Automobile.

Amendment to Form of Recognition

Manufacturer Riley Motors Limited

Model Riley Elf MK II

Introduction of Hydrolastic Suspension



Suspension

Type

Type of Spring

Is stabilizer fitted?

Type of Shockabsorber

Front

Transverse wishbone

Hydrolastic Displacer

No

Incorporated in Displacer

Rear

Trailing Arm

Hydrolastic Displacer

No

Incorporated in Displacer

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

Date amendment is valid from

Form: R.F.I.B.

Optional equipment affecting preceding information:—

Sump guard - 21A.1037

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ADO

159/R 63
159/W 63



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Federation Internationale de l'Automobile.

Amendment to Form of Recognition

Manufacturer The British Motor Corporation

Model Riley Elf Mk II / Wolseley Hornet Mk II

Add to optional equipment

High Traction Differential Part No. C/AJJ 3303



[Handwritten signature]

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

Date amendment is valid from

1st April 1965

Form: R.F.I.B.