R/15/57



F.I.A. Recognition No....

1217

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.I.

Federation Internationale de l'Automobile.

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

Manufacturer.	RILEY MOTOR LIMITED	
Model	RILEY ONE POINT FIVE.	Year of Manufacture 1957
	Chassis R/HS2 or HSR1.	
Serial No. of	Engine 15R-U-H or 15 RB.	
Type of Coach	work SALOON - 4 door.	
Recognition is	valid from 9 5 63	In category Tourisme



Melion S

General description of car:

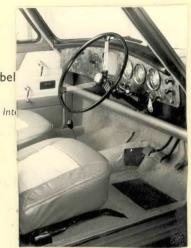
Specify here material/s of chassis/body construction

4 seater saloon of steel unitary construction powered by 4 cylinder OHV pushrod engine driving hypoid \(\frac{3}{4} \) floating axle through 4 speed synchromesh gearbox.

Suspension by torsion bars at front and semi-elliptic leaf springs at rear.

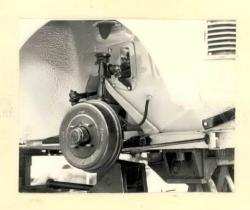


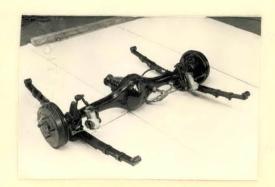
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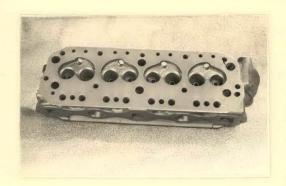




No. of cylinders 4

No. of cylinders4	in V				
	opposed				
Cycle Four stroke					
Capacity 1489	.c. Bore 73.0)25 m.m	. Stroke	38.9	.m.m.
Maximum rebore 0.040	tt	Resultant ca	apacity 1531	1	c.c.
Maximum rebore 0.040 Material of cylinder block	Cast Iron/ pol	Lished fini Material of s	sh. leeves, if fitted		
Distance from crankshaft ce face of block at centre li	ntro line to ton				
Material of cylinder head.Ca					
Compression ratio 9.0:1					
Material of piston. Alumin		No	of piston rings	4	
Distance from gudgeon pin o					
Crankshaft mai	n hearings: Type	hite metal	Dia	50.82	
Bearings Connecting roo	n bearings: Type	opper lead	Dia	47.66	.111.111.
	•5		D1a		.m.m.
Crankshaft 13	.15	Kg.			
Weights Connecting ro					
	ngs 0.290	-			
Gudgeon pin	0.088	ka			
No. of valves per cylinder	2	Mothod of w	alvo operation	Push rod	
No. of camshafts	1	Leastian of	arve operation	inder bloc	k
Type of camshaft drive					
	39.8				m m
Diameter of port	33.33		xhaust 29.		
Tappet clearance for	0,610		xhaust 0.6	10	
0					
	24° BTDC 64° ABDC	E	xhaust 59° xhaust 29°	BBDC	
Valves close: Inlet					
Maximum valve lift: Inlet Degrees of crankshaft rotat	ion from zero to-		xhaust 9.		
Maximum lift: Inlet	165° 107°	E	xhaust 165°		
3 Maximum lift: Inlet.	107	E	xhaust 165° xhaust 107°		
Valve springs:	Inlet			xhaust	
Туре	Coil		Co	1	
No. per val	/e2		2		
Carburettor: Type Sem	i down draught		fitted 2		
	lown draft, horizont	cai)			
Make S.U.		,	HJ.		
Make S.U. Flange hole diameter 3		Model	H4 ameter Varia		m.m.

Air filter: Type Oil bath	No. fitted One
Inlet manifold:	
Diameter of flange hole at carburettor 38.89	m.m.
Diameter of flange hole at port 35, 718	m.m.





Exhaust manifold:

Diameter of flange hole at portOuter 30.16 x 38.0 Centre 33.3 x 38.0 m.m.

Diameter of flange hole at connection to silencer inlet pipe 45.2 m.m.



iffixed here.



m.m.

ENGIN

Make of fuel pump	S.U.	No. fitted 1
Method of operation	Electric	
Type of ignition system.	Coil	coil or magneto
Make of ignition	Lucas	Model DM2
Method of advance and re	tard Centrifugal & Vac	uum
Make of ignition coil	Lucas	Model HA12
No. of ignition coils	1	Voltage 12
Make of dynamo	Lucas	Model C40/1
Voltage of dynamo	12	Maximum output 19 amps.
Make of starter motor	Lucas	Model M35G/1
Battery: No. fitted	1 Voltage 12	Capacity 58 at 20 Hmp. hour
		Capacity pints

Make of clutch Borg & Beck	Type A6-G.
Diameter of clutch plate 8th 20, 3cm	
Method of operating clutch Hydraulic	
Make of gearbox BMC	Type Synchromesh 2nd, 3rd, 4th
No. of gearbox ratios 4 forward, 1 reverse	
Method of operating gearshift Remote control	
Location of gearshift Central floor	
Is overdrive fitted? No	
Method of controlling overdrive, if fitted	

	GEARBO	X RATIOS		ALTERNATIVE RATIOS				
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
	3.637:1	-	2.45:1	25 11 26 ^x 28				
2.	2.215:1	20 20 31 31	1.62:1	25 x 19 26 x 32				
4.	1.373:1	20 x26 31 x25 Direct	1.268:1	25 29 26 22 Direct				
5/R	4.755:1		3.199:1					

	Type of final drive Hypoid or limite	d slip
	Type of differential Bevel	
	Final drive ratio 3.7:1 Alto	
	No. of teeth 11/41	9/38, 9/41, 8/39, 11/43
	Overdrive ratio, if fitted	
WH	HEELS	
	Type Ventilated disc	Weight 13.61 with tyre kg.
	Method of attachment Four studs & nut	
	Rim diameter 355.6 m.m.	Rim width 76.2 m.m.
	Tyre size: Front 5.60 x 14	Rear 5.60 x 14
BR/	AKES	
	Method of operation Hydraulic	
	Is servo assistance fitted? No	
	Type of servo, if fitted	
	No. of hydraulic master cylinders	Bore 19.05 or 22.22 m.m.

		Front	Rear			
	No. of wheel cylinders	4	2			
	Bore of wheel cylinders	19.05 m.m.	19.05 m.m.			
	Inside diameter of brake drums	228.6 m.m.				
	No. of shoes per brake	2	2			
	Outside diameter of brake discs	m.m.	m.m.			
	No. of pads per brake					
	Dimensions of brake linings per dimensions, specify each)					
		Front	Rear			
	Length	219.9 m.m.	194.5 m.m.			
		m.m.	m.m.			
	Width	57.1 m.m.	38.1 m.m.			
	Total area per brake	25110. m.m.²	14820 m.m.²			
SU	SPENSION	Front	Rear			
	Туре	Independent	Semi elliptic			
	Type of spring	Torsion bar	Leaf			
	Is stabiliser fitted?	No	No			
	Type of shock absorber	Hydraulic piston	Hydraulic piston			
	No. of shock absorbers	2	2			
STE	ERING					
	Type of steering gear	Rack & Pinion				
	Turning circle of car10	0.44	m., approx.			
	No. of turns of steering wheel	from lock to lock 23				
CAI	PACITIES AND DIMENSION	S				
Cooling system	Fuel tank 32 or 73		-5litres			
	Overall length of car 389.2		of car 155.0 cm.			
	Overall height of car, unladen (w					
	Distance from floor to top of wir					
		cm. Lowest point1	34.6 cm.			
	Width of windscreen:					
	Maximum width 114.9	cm. Minimum width	114.9 cm.			
	*Interior width of car 120.6					
	No. of seats 4					
	Track: Front 129.2		127. 7 cm.			
	Wheelbase 218.5					
*(To	be measured at the immediate rea in a vertical plane of not less t	ar of the steering wheel, and the				
	Overall weight with water, oil and		750 kgs.			
		6				

System of cylinder scavenging		
Type of lubrication		••••••••••••
Size of inlet port:		
Length measured around cylinder wall		m.
Heightm	.m. Area	m.n
Size of exhaust port:		
Length measured around cylinder wall		m.ı
Heightm	.m. Area	m.m
Size of transfer port:		
Length measured around cylinder wall		m.r
Heightm.	.m. Area	m.m
Size of piston port:		
Length measured around piston		m.r
Heightm		
Method of pre-compression		
Bore and stroke of pre-compression cylinder	, if fitted	m.ı
Distance from top of cylinder block to lowes	t point of inlet port	m.r
Distance from top of cylinder block to highe	est point of exhaust port	m.ı
Distance from top of cylinder block to highe	est point of transfer port	m.r
Drawing of	cylinder ports.	
2,4,1,1,1	c,der perso.	
rcharger, if fitted		
Make	Model or Type No.	
Type of drive		
injection, if fitted	Madal - T	
Make of pump		
Make of injectors		
I acabian of injustant		

Supplementary fuel tank - ARH. 106 - 9 gall./41 litres. Sump guard - AHH. 5879

Touring Equipment - Camshaft - 1H.603 -

I.O. 5° BTDC EX.O. 40° BBDC

I.C. 45° ABDC EX.C. 10° ATDC.

Max Lift. 8.18 m.m.

Low compression pistons - 8.3:1 Compression ratio.

Part No. 1H. 1087

Exhaust manifold. - ACH.8530



