F.I.A. Recognition No. 1239

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.I.

Federation Internationale de l'Automobile.

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

Manufacturer.		SUNBEA	M TALBOT	LIMITED		
Model	SUNBEAM RAPIER IV				Year of Manufacture	1963
	Chassis	В 33000	OO1 /HHO			•
Serial No. of	Engine	B 33000	001/нно			
Type of Coach				Saloon		
Recognition is	valid from	4th	Novun	1963	In category	TOURING
		1		list	9/24	

Photograph to be affixed here 3 view of car from front right.



affixed here.

Stamp of F.I.A./R.A.C. to be Aubut/chia

Form: R.F.I.A.

General description of car:

Specify here material/s of chassis/body construction

2 Door 4 Seater Steel Saloon Convertible and Hard Top Models Available.

Photographs to be affixed below.

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



Engine unit with accessories from right.



Front axle complete (without wheels).



Interior view of car through driver's door.



Engine unit with accessories from left.



Rear axle complete (without wheels).



2 No. per valve. Downdraft No. fitted 2 Carburettor: Type.. (up or down draft, horizontal) Zenith 36 WI Make Model Flange hole diameter 36 .m.m. Choke diameter..... 30 m.m. 150 Main jet identification No.... 3

Air filter: Type Wire Gauze	No. fitted	2
Inlet manifold:	36	and man
Diameter of flange hole at port	- 0 d	m.m.
		12 20 20 B
Photograph of combustion chamber to be affixed here	Photograph of inlet were:	Cald and the state of the state

Photograph of inlet manifold to be affixed here.

Exhaust manifold:

48.26 Diameter of flange hole at port..... .m.m. Diameter of flange hole at connection to silencer inlet pipeNo Flange Clip

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			1
Type of ignition system	Coil and Di	stributor		coil or magneto
Make of ignition Lucas			Model	D.M.2.
Method of advance and retard	d Centrifu	gal and Va	cuum	
Make of ignition coil	Lucas			H.A.12
No. of ignition coils	1			12
Make of dynamoI				C40
Voltage of dynamo	12			utput 22 amps.
Make of starter motorLu	icas			M 35C
Battery: No. fitted 1			Capacity	38 or 51 _{amp. hour}
Oil Cooler (if fitted) type.				

Manufacturers Reference No. of Application......SUN RAP IV

TRANSMISSION

Make of clutch Borg and Beck	Туре	Dry
Diameter of clutch plate 8 inch	No. of	plates One
Method of operating clutch Mechanical and Hydr	aulic	
Make of gearbox Rootes	Туре	Constant Mesh
No. of gearbox ratios 4 Forward and Reverse		
Method of operating gearshift Manual		
Location of gearshift Centre Floor Lever		
Is overdrive fitted? Optional		
Method of controlling overdrive, if fitted Electrical	1 thro	ugh Solenoid

	GEARBOX RATIOS			ALTERNATIVE RATIOS				
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	3.346	29 x 30 20 15	3.32	27 x 30 21 13				
2.	2.141	29 x 31 20 21	1.9	27 x 31 21 21				
3.	1.392	29 x 24 20 25	1.24	27 x 24 21 25				
4.	1.00	Direct	1.00	~~				
5. REV	4.329	29 x 30 20 13	x 19 15					

Type of final duity	Hypoid			
	Hypoid Bevel			
Type of differentia	4 Bevel	TITION		
Final drive ratio	3.89:1	Alternatives	3.70 4.22	4.44 4.86
No. of teeth	35/9		37/10 38/9	40/9 34/7
Overdrive ratio, if	f fitted 803	8:1	*	
WHEELS				
Type Pressed	Steel Disc	Weight	5.76	kg.
Method of attachn	ment 4 Stud	7/16 UNF		
Rim diameter	330.2	m.m. Rim widt	h 116.5	m.m.
	600 x 13			
BRAKES				
Method of operation	on	Hydrauli	_c	
s servo assistance	fitted? Yes			
Type of servo, if fi	tted Lockheed	d	y 188	
	aster cylinders 1			m.m.

	Front	Rear
No. of wheel cylinders	2 per wheel	One per wheel
Bore of wheel cylinders	54 m.m.	19.1 m.m.
Inside diameter of brake drums	m.m.	228.6 m.m.
No. of shoes per brake	S	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 pa	ads in each brake are not of same
dimensions, specify each)	Front	Rear
L a march	Available Volume m.m.	
Length	29.6 cm ³ m.m.	
NAC: I. I.		1.1.5
Width	6260 m.m.	19,500 m.m. ²
Total area per brake	6260 m.m.²	
SUSPENSION	Front	Rear
Туре	Independant	Live Axle
Type of spring	Coil	Semi Elliptic Leaf No
Is stabiliser fitted?	Yes	
Type of shock absorber	Telescopic	
No. of shock absorbers	2	2
STEERING		
Type of steering gear		
Turning circle of car		m., approx.
No. of turns of steering wheel	from lock to lock $3\frac{1}{4}$	
CAPACITIES AND DIMENSION	IS	
Fuel tank 45.4	litres Sump	4.55 litres
Radiator	litres	
Overall length of car413	cm. Overall width	of car 155 cm.
Overall height of car, unladen (v	vith hood up, if appropriate)	147 cm.
Distance from floor to top of wi		
Highest point108	cm. Lowest point	104.7 cm.
Width of windscreen:		
Maximum width1155	cm. Minimum wid	th 108 cm.
*Interior width of car		
No. of seats 4		
Track: Front 131	cm. Rear	125 cm.
Wheelbase 244	cm. Ground clearance	e 144.5 m.m.
*(To be measured at the immediate re in a vertical plane of not less to	than 25 cms.)	
Overall weight with water, oil an	d spare wheel, but without fue	900 kgs.
	6	

System of cylinder scavenging			
Type of lubrication	•		
Size of inlet port:	1		
Length measured around cylinder	er wall		m.
Height	m.m.	Area	m.n
Size of exhaust port:			
Length measured around cylinder			
Height	m.m.	Area	m.r
Size of transfer port:		*	
Length measured around cylinde	er wall		m.
Height	m.m.	Area	m.r
Size of piston port			
Size of piston port:			
Length measured around pistor			
Height			
Method of pre-compression Bore and stroke of pre-compressio			
sore and stroke of pre-compression		rred	m
Distance from top of cylinder bloc	k to lowest poi	nt of inlet port	m.
Distance from top of cylinder bloc Distance from top of cylinder bloc	k to lowest poi	oint of exhaust port	m.
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Distance from top of cylinder block Distance from top of cylinder	k to lowest point to highest point to high po	oint of exhaust port	mm
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Distance from top of cylinder block Distance from top of cylinder	k to lowest point to highest point to high po	oint of exhaust port	m.
Distance from top of cylinder block Distance from top of cylinder	k to lowest point to highest point to high point	oint of exhaust port	m.
Distance from top of cylinder block Distance from top of cylinder	k to lowest poi	oint of exhaust port	m.

Optional equipment affecting preceeding information:—

1.	Oil Cooler R.G. 416
2.	ong Range Fuel Tank 100 Litres R.G. 0410
3.	Power Lock Diff Assembly R.G. 1041
4.	Lightwei ght Seats R.G.M. 6
5.	Wire Wheels Available Rim 4.5 x 13 Tyre Size 6.00 x 13 Front and Rear
6.	Pressed Steel Wheels available Rim Diam. = 381 mm Rim Width 101.6 mm Tyre Size 5.60/5.90 x 15 Front and Rear
7.	Touring. Carburation System Available 1 Solex 32 P.A.I.A. Flange Holes Diam.= 33 MM Chokes Diam = Primary 24 mm Secondary 26 mm Main Jets Primary 117.5 Secondary 130
8.	Touring. Cast Iron One Piece Exhaust Manifold P. 2575298

SUN. RAP. IV.



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Amendment to Form of Recognition

Manufacturer Sunbeam-Talbot Ltd.	
Model Rapier IV.	

All synchromesh gearbox now fitted to this model is standard equipment. Part N o. 5220878.

Stamp of F.A. R.A.C. to be

affixed here.

Date amendment is valid from 1st telemany 1965
Form: R.F.I.B.