HUMSCEPTRE I



F.I.A. Recognition No.

1203

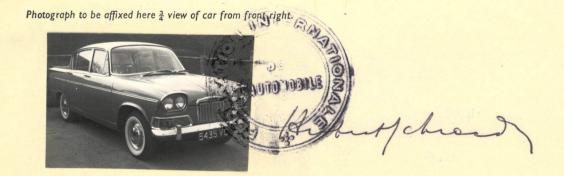
ROYAL AUTOMOBILE CLUB

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.	HUMBER LIMITED		
Model	SCEPTRE	Year of Manufacture	1963
Serial No. of	Chassis B3100001/0D/HS0 Engine B3100001/0D/HS0		
Type of Coach	Saloon		
	valid from 25th April, 1963	In category	Touring
	9/5/63		



Stamp of F.I.A. to be affixed here.

General description of car:

4 DOOR 5 SEATER SALOON CAR

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).



ENGINE in line	In Line
No. of cylinders 4 in V	
opposed	-
Cycle 4 stroke	Firing order 1.3.4.2
Capacity 1592 c.c. Bore 8	1.6 m.m. Stroke 76.2 m.m.
Maximum rebore 1.016 mm	Resultant capacity 1630 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 Aluminium V	olume of one combustion chamber 38 c.c.
Compression ratio 9.1:1	
Material of piston Heplex	No. of piston rings 3 per piston
Distance from gudgeon pin centre line to high Bearings { Crankshaft main bearings: Type Connecting rod big end: Type	white Metal Dia. 50.825/50.813 pperELead Indium 50.825/50.813 Dia. m.m.
Flywheel 9.48	kg.
Crankshaft 17.07	
Weights Connecting rod 0.709	kg. C/W small end bush 8 bolts
Piston with rings 0.29 Gudgeon pin 0.141	kg.
	Method of valve operation Pushrod
	Location of camshafts Cylinder Block
25 10 (25 2	ive from Crankshaft 8 m.m. Exhaust 29.87/29.77 m.m.
Diameter of valves: Inlet 37.40/37.3	m.m. Exhaust $27 \cdot 07.7 \cdot 27 \cdot 77$ m.m.
at valve seat: Inlet 34.9	m.m. Exhaust 26.9 m.m.
Tappet clearance for checking timing: Inlet	m.m. Exhaust •356 m.m.
Valves open: Inlet 140 BTDC	
	Exhaust 10° ATDC
	alve lift Exhaust 9.24 m.m.
Degrees of crankshaft rotation from zero to-	
Maximum lift: Inlet 1480	Exhaust 143°
Maximum/lift: Inlet 1480 A Maximum/lift: Inlet 960	Exhaust 920
Valve springs: Inlet	Exhaust
Type Helical Coil	Helical Coil
No. per valve2	2
Carburettor: Type Downdraugh (up or down draft, horizo	ontal)
Make Zenith	Model 36 - W.I.A.3
Flange hole diameter 36 m.n	
Main jet identification No. 120	

Air filter: Type Paper Element	No. fitted 2	
Inlet manifold:	50.04	
Diameter of flange hole at carburettor		m.m.m.
Diameter of flange hole at port	50.8	m.m.m.

Photograph of combustion chamber to be affixed here.



Exhaust manifold:

Diameter of flange hole at port.....

Photograph of inlet manifold to be affixed here.



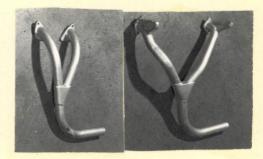
28.4

m.m. 45.7 Diameter of flange hole at connection to silencer inlet pipe. m.m.

Photograph of piston showing crown to be affixed here.



Photograph of exhaust manifold to be affixed here.



ENGINE ACCESSORIES

	No. fitted 1
Method of operation Mechanical	
Type of ignition system Coil and D.	istributor coil or magneto
Make of ignition Lucas	Model 25 D4
Method of advance and retard Centrift	ugal and Vacuum
Make of ignition coil Lucas	Model HA 12
No. of ignition coils One	Voltage 12 V
Make of dynamo Lucas	Model C 40 L
Voltage of dynamo 12 V	Maximum output 25 amps.
Make of starter motor Lucas	Model M 35 G
Battery: No. fitted 1 Voltage	12 Capacity 38 amp. hour

4.239 29x30x19

Manufacturers Reference No. of Application HUMSCEPTRE I

TRANSMISSION

Make of clutch Borg & Beck	Type Single Dry Plate
Diameter of clutch plate 8 inch	No. of plates
Method of operating clutch Hydraulic - Foot	Operated
Make of gearbox Rootes	Type Synchromesh
No. of gearbox ratios 4 forward and reve	rse
Method of operating gearshift Manual remote co	ontrol
Location of gearshift Central floor chan	ge
Is overdrive fitted? Yes	
Method of controlling overdrive, if fitted Electric s	witch- driver control

	GEARBO	X RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	
I.	3.346	29x30 20 13			3.32	21x31 27 12	2.97	21 x 30	
2.	2.141	29 x31 20 21			1.9	21x31	1.9	21x31 27 21	
3.	1.392	29x24 20 25			1.24	21x24 27 25	1.24	21.24	
4.	1.000	Direct				-1 -)		c/ c)	

Type of final drive	Hypoid					
Type of differential	Normal -		pinions and side			
Final drive ratio	22:1		Alternatives 4.86:1	4.44:1	3.70:1	.3.89:1
No. of teeth 9	/38		34/7	40/9	37/10	35/9
Overdrive ratio, if fitt	ed 24.5	6%	(.803:1)			
HEELS						

WH

Rev

Type Pressed Steel Disc	Weight 5.76. kg.
Type Pressed Steel Disc Method of attachment 4 - 7/16"	UNF Studs
	Rim width 116.5 m.m.
	Rear 6.00 x 13

BRAKES

Method of operation	Hydraulic	
	Yes	
Type of servo, if fitted Loc	ckheed	
No. of hydraulic master cylinde	-	19.05 m.m.

	Fron	it	Rear	
No. of wheel cylinders	Two per whe	el	One per	wheel
Bore of wheel cylinders	54	m.m.	19.1	m.m.
Inside diameter of brake drum		m.m.	228.6	m.m.
No. of shoes per brake	-		2	
Outside diameter of brake disc	cs 247.5	m.m.	-	m.m.
No. of pads per brake	2		-	
Dimensions of brake linings podimensions, specify each)	er shoe or pad (if	all shoes or pad	s in each brake are r	not of same
Avail	lable Volume	t	Rear	
Length	Lable Volume	, m.m.	219	m.m.
	29.6 cm3	m.m.	2.19	m.m.
Width	-	m.m.	44.5	m.m.
Total area per brake	6,260	m.m. ²	19,500	m.m.²
SUSPENSION	Fror	nt	Rear	
Туре Іг	ndependant W	Iishbone	Live A	xle
/ 1	oil			ic leaf spri
Is stabiliser fitted?	Yes		No	
	draulic tel			telescopic
No. of shock absorbers	2		2	
STEERING				
Type of steering gearBurn	nan recircul	ating hal	1	
Turning circle of car				
No. of turns of steering whe				
CAPACITIES AND DIMENSIC				
		S 4.5	4 Sump Only inc oil fil	
Fuel tank 47.73 engine & 6.90 Radiator	litres	Sump	4110 044 444	<u>oor</u> iitres
Overall length of car. 420	3 cm (Duamall width	of car 160.7	C PO
Overall height of car, unladen	(with head up if			СП.
		ppropriate)		
Distance from floor to top of Highest point	windscreen:	Pa J	104	
	6			
width of windscreen:	16	Minimum	110	
Width of windscreen: Maximum width127 *Interior width of car	130	Minimum Wigtr	1	Cm.
*Interior width of car				
No. of seats 4/5 Track: Front 131 Wheelbase 256.5	for the fair	n12	2	
1 rack: Front	cm.	Kearla	165	cm.
*(To be measured at the immediate in a vertical plane of not les	rear of the steering than 25 cms.)	g wheel, and the		maintained
Overall weight with water, oil	and spare wheel, b	ut without fuel	1039 kgs.	

Type of lubrication		6 8 43	
	. 00	- M	7
Size of inlet port:			
Length measured around cy	linder wall	Area	m
			m.
C:	2. 1		
Size of exhaust port:	I		
Height	m.m.	Area	
Size of transfer port:			
Length measured around cy	linder wall	<u> </u>	m
Height	m.m.	Area	m.
Size of piston port:			
	oiston	,	m
		Area	
		71104	
		tted	
Distance from top of cylinder	block to lowest po	int of inlet port	
		oint of exhaust port	
		oint of transfer port	
Distance from top of cynnder			
	Drawing of cylin	der ports. 8.79%	
	0° AT 130		
rcharger if fitted			
		Andel or Type No	
Make		1odel or Type No	
		1odel or Type NoRatio of drive	
MakeType of drive		Ratio of drive	
Type of drive	. Hard halaman e - T	Ratio of drive	
MakeType of drive	. Humbaans e	Ratio of drive	3

Optional equipment affecting preceeding information:—

- 1. Separate Air Filters available
- 2. Qil Cooler
- 3. Long range fuel tank (capacity 100 litres)
- 4. Power Lock differential available
- 5. Lightweight seats available.



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Amendment to Form of Recognition

Manufacturer	HUMBER :	LITO.	 	 ,	***************************************	
Model	SCEPTRE.					

Add to Optional Equipment :

Carburettor with manifold to suit

1 Solex 32 P.I.A.I.

Flange Holes Dia = 33 mm.

Choke Dia. = Primary 24 mm. Secondary 26 mm.

Jets = Primary 117.5 Secondary 130



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

Date amendment is valid from November 4th 1963
Form: R.F.I.B.

Aubut School

HUMSCEPTRE I.



F.I.A. Recognition No. 1203

1203/1/ET

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Federation Internationale de l'Automobile.

Amendment to Form of Recognition

Manufacturer Hu	umber Ltd.	
Model Sc	eptre.	

All synchromesh gearbox now fitted to this model as standard equipment.

Part No. 5220878.

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

affixed here.

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



F.I.A. Recognition No. 1203. /B/V

PALL MALL, LONDON, S.W.I.

Federation Internationale de l'Automobile.

Amendment to Form of Recognition

Manufacturer	HUMBER	LTD.

Alternative Single Carburettor now fitted Part No. 1800503, on Manifold Part No. 5220807.

Type Solex 3Z PAIA (Compound). Flange Hole diameter. 33 MM.

Choke diameters. Primary 24 MM.

Secondary 26 MM.

Main Jets. Primary. 117.5

Secondary 130

This change of carburettion has no effect on performance 15 inch wheels part no. 1214943 available for certain export territories. No change in wheelbase or track.

> Stamp of F.I.A. R.A affixed here.

Date amendment is valid from