F.I.A.	Recognition	No. 5230
Group	,	1



ROYAL AUTOMOBILE CLUB

31, Belgrave Square, London, S.W.I

Form of recognition in accordance with appendix J to the International Sporting Code of the FEDERATION INTERNATIONALE DE L'AUTOMOBILE

	Cylinder-capacity 1724 cm. ³ 105.2 in. ³
Manufacturer Rootes Motors Ltd.	Model Humber Sceptre
Serial No. of chassis/body B.111000100	Manufacturer Rootes Motors Ltd.,
Serial No. of engine B.111000100	Manufacturer Rootes Motors Ltd.
Recognition is valid from 1st May '69	List 1960/6
The manufacturing of the model described in this recog	gnition form started on 16th May. 19.67
and the minimum production of 5,000	dentical cars, in accordance with the specifications of
this form was reached on 8th March, 1968	

Photograph A, 3/4 view of car from front





R.A.C. Stamp

D

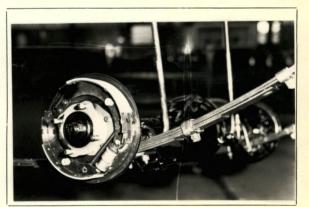








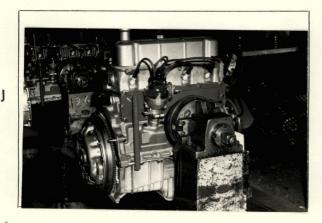


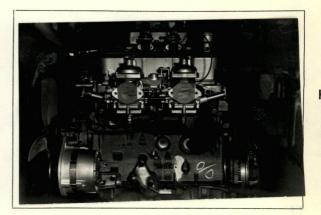


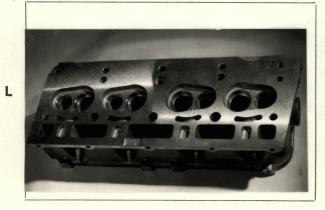




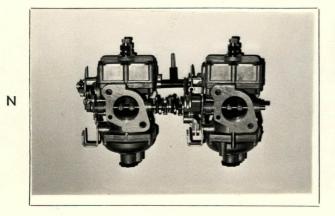
E



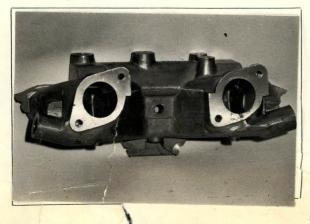












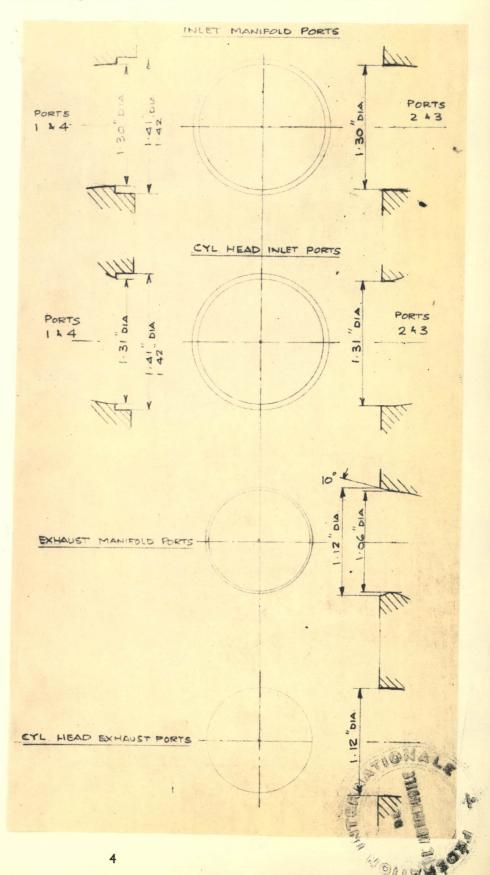


Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

Drawing of exhaust manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

Drawing of exit to exhaust port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



NOTE 1.

All dimensions must be given in two measuring systems, see Note 3.

CAPACITIES AND DIMENSIONS

1. Wheelbase

2502

98.5 mm.

inches

2. Front track

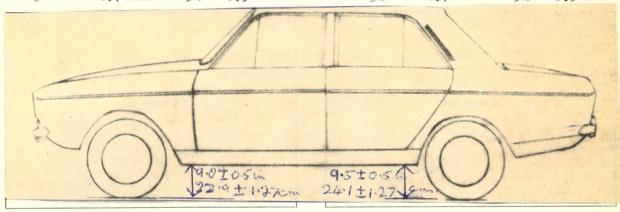
3. Rear track

1321 # 12.7 mm.

52 + 0.5 inches

1321 + 12.7mm.

52 - 0.5 inches



4. Overall length of the car

430.5 cm. 169.5 inches

5. Overall width of the car

164.5

cm.

64.76 inches

6. Overall height of the car

142.2

cm.

inches

7. Capacity of fuel tank (reserve included)

45

Itrs.

12

gall. U.S.

10

gall. Imp.

- 8. Seating Capacity.
- 4/5
- 9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools:

955

kg.

2103

lbs.

18.78

cwts.

NOTE 2.

Differences in track caused by the use of other wheels with different rim widths must be stated when recognition is requested for the wheels concerned. Specify ground clearance in relation to the track and give drawing of two easily recognisable points at front and rear at which measurements are taken. These ground clearance dimensions are only for information when checking the track and can in no way affect the eligibility of the car.

NOTE 3.

CONVERSION TABLE

1 1 1	inch/pouce foot/pied sq. inch/pouce carre cubic inch/pouce cube	=	2.54 30.4794 6.452 16.387	cm. cm. cm. ² cm. ³	1	quart US pint (pt) gallon Imp. gallon US
	pound/livre (lb)		453.593	gr.		hundred weight (cwt.)

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction: separate/unitary constructi	20.	Chassis/body	construction:	separate/unitary	construction
--	-----	--------------	---------------	------------------	--------------

21.	Unitary	construction,	material(s)	1	Steel
	Ollical,	constituction,	macci iail 3	1	D 0001

22. Separate construction, Material(s) of chassis

23. Material(s) of coachwork Steel

24. Number of doors 4 Material(s) Steel

25. Material(s) of bonnet Steel

26. Material(s) of boot lid Steel

27. Material(s) of rear-window Safety glass

28. Material(s) of windscreen Safety glass

20. Material(s) of willdscreen Salety glass

29. Material(s) of front-door windows
30. Material(s) of rear-door windows
Safety glass

31. Sliding system of door windows Vertical winding

32. Material(s) of rear-quarter light Safety glass

ACCESSORIES AND UPHOLSTERY

38. Interior heating: yes—no 39. Air conditioning: yes—no

40. Ventilation : yes — no 41. Front seats, type of seat and upholstery Ambla

42. Weight of front seat(s), complete with supports and rails, out of the car: plastic foam underlay

(one seat) 12.15 kg. 27

43. Rear seats, type of seat and upholstery Ambla, plastic foam underlay

44. Front bumper, material(s) Steel Weight 2.5 kg. 5.5 lbs.

45. Rear bumper, material(s) Steel Weight 2.54g. 5.609 lbs.

WHEELS

50. Type Pressed steel ventilated disc

51. Weight (per wheel, without tyre) 5.9 kg. 13 lbs.

52. Method of attachment 4 stud

53. Rim diameter 330.2 mm. 13 ins. 54. Rim width 114.3 mm. 4.5 ins.

STEERING

- 60. Type Recirculating ball
- 61. Servo-assistance : yes no
- 62. Number of turns of steering wheel from lock to lock 3.3
- 63. In case of servo-assistance



lbs.

2

SUSPENSION

70. Front suspension (photograph D), type

71. Type of spring

72. Stabiliser (if fitted)

73. Number of shock absorbers 2

78. Rear suspension (photograph E), type

79. Type of spring

80. Stabiliser (if fitted)

81. Number of shock absorbers

Independent Armstrong strut

Coil

Bar and brake reaction rod

74. Type Telescopic

Rigid axle

Semi elliptic leaf

Nil

82. Type Telescopic

BRAKES (photographs F and G)

90. Method of operation

91. Servo-assistance (if fitted), type

92. Number of hydraulic master cylinders

93. Number of cylinders per wheel

94. Bore of wheel cylinder(s)

Drum Brakes

95. Inside diameter

96. Length of brake linings

97. Width of brake linings

99. Total area per brake

Hydraulic

Lockheed type 6, Remove vacuum servo

FRONT 2

53.98 mm. 2.125 inches 19.05mm. 0.75 inches

98. Number of shoes per brake

mm.

inches 228.6 mm. 9 inches

inches 219 mm. 8.62 inches

inches 43.68 mm. 1.72 inches

mm.

mm.2

sq. in. 17967.7mm.227.85 sq. in.

Disc Brakes

100. Outside diameter

101. Thickness of disc

102. Length of brake linings (tapered)

103. Width of brake linings

104. Number of pads per brake

105. Total area per brake

243.84 mm. 9.6 inches

8.64 - 8.89nm. 0.34 inches

mm.

mm.

78.74 mm. 3.10 inches

46.5 mm. 1.83 inches

6219.7 mm.29.64 sq. in.

mm.

inches

inches

inches

ENGINE (photographs J and K)

130. Cycle 4 stroke

131. Number of cylinders 4.

132. Cylinder Arrangement In line inclined at 10°

133. Bore 81.5 mm. 3.21 in. 134. Stroke 82.5 mm. 3.25 in.

135. Capacity per cylinder 431 cm.³ 26.3 cu. in.

136. Total cylinder capacity 1724 cm.³ 105.2 cu. in.

137. Material(s) of cylinder block Cast iron 138. Material(s) of sleeves (if fitted)

139. Cylinder head, material(s) Aluminium Number fitted

140. Number of inlet ports 4 141. Number of exhaust ports 4

142. Compression ratio 9.2:1 (8.57 - 9.72)

143. Volume of one combustion chamber 38.6 ± 0.8 cm.3 2.36 ± .06 \text{Lu. in.}

144. Piston, material Aluminium 145. Number of rings 3

146. Distance from gudgeon pin centre line to highest point of piston crown 46.86 - 47.0 mm. 1.845 - 1.85 in.

147. Crankshaft: moulded/stampedx 148. Type of crankshaft: integral/....Yes....

149. Number of crankshaft main bearings 5

150. Material of bearing cap Cast iron

152. Capacity, lubricant 3.7 ltrs. 6.5 pts. 3.95 quarts U.S. Without filter, 7.5 pints with

153. Oil cooler: xes/no 154. Method of engine cooling Water

155. Capacity of cooling system 7.1 ltrs. 12.6 pts. 7.56 quarts U.S.

156. Cooling fan (if fitted) dia. 37.0 cm. 14.5 in.

157 Number of blades of cooling fan

Bearings

158. Crankshaft main, type Shell dia. 60.3 m.m. 2.374 in.

159. Connecting rod big end, type Shell dia. 54.0 m.m. 2.126 in.

8

Weights

160. Flywheel (clean) 10.036 kg.

161. Flywheel with clutch (all turning parts)

14.72 kg

162. Crankshaft 14.97 kg. 33 lbs. 163. Connecting rod 0.751 kg.

164. Piston with rings and pin 0.626kg.

225. Minimum diameter of inlet pipe

ENGINE ACCESSORIES

- 230. Fuel pump: mechanical and/or electrical
- 231. No. fitted

1

- 232. Type of ignition system
- Coil
- 233. No. of distributors

- 234. No. of ignition coils
- 235. No. of spark plugs per cylinder
- 236. Generator, type: dynamo/alternator-number
- 237. Method of drive

Belt

- 238. Voltage of generator 12
- volts

- 239. Battery, number

12

- 240. Location
- Engine compartment
- 241. Voltage of battery
- volts

ENGINE AND CAR PERFORMANCES (as declared by manufacturer in catalogue)

- 250. Max. engine output
- 94 (type of horsepower:
- B. H. P.
-) at
- 5,200r.p.m.

r.p.m.

- 251. Max. r.p.m.
- 6,200
- output at that figure Not available for publication

- 252. Max. torque
- 107 lbs. ft.

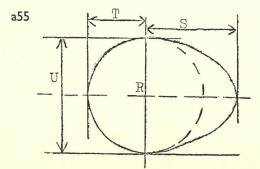
4,000 at

mm.

mm.

- 253. Max. speed of the car
- 156
- km./hour
- 97
- miles/hour

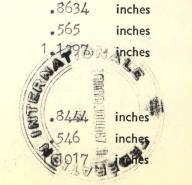
R = centre of camshaft



and Exhaust Cam (except No. 3 exhaust)

- 21.93 mm.
- 14.35
- 28.95 mm.
- Exhaust cam (No. 3)
- 21.45 mm.
- 13.87 mm. U =27.98

10



Make Humber

Model Sceptre

F.I.A. Rec. No.

7.5

ins.

DRIVE TRAIN

CLUTCH

260. Type of clutch Dry Plate, diaphragm 261. No. of plates

262. Dia. of clutch plates 19.05 cm.

263. Dia. of linings, inside 13.65 cm. 5.375 ins.

outside 19.05 cm. 7.5 ins.

264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

270. Manual type, make Rootes Method of operation Manual

271. No. of gear-box ratios forward 4 272. Synchronized forward ratios 4

273. Location of gear-shift Centre floor

274. Automatic, make Borg Warner type 35

275. No. of forward ratios 3 276. Location of gear shift Gentre floor

277.	Ratio	Manual No. teeth	Aut Ratio	omatic No. teeth	Ratio	Alternative ma No. teeth	nual/automat Ratio	ic No. teeth
1	3.353	37 16	2.39	67 28				
2	2.141	31 21	1.45	67 32		j		1
3	1.392	24 25	1.0	Direct				
4	1.0	20 29						
5								
6								
reverse	3.569	32 13	2.09	67 32				

278. Overdrive, type Lay-cock epicyclic

279. Forward gears on which overdrive can be selected 3, 4

280. Overdrive ratio 0.803

FINAL DRIVE

290. Type of final drive Hypoid 291.

291. Type of differential

Bevel gear

292. Type of limited slip differential (if fitted)

293. Final drive ratio 3.89 : 1

Number of teeth

35/9

Maka	Humber	
MAKE	110211001	

Model Sceptre F.I.A. Rec. No.

IMPORTANT—The conformity of the car with the following items of the present recognition form is to be disregarded during the scrutineering, when the vehicle has been entered in group 2 (Touring cars) or 3 (Grand Touring cars): 41, 72, 80, 91, 142, 143, 144, 145, 146, 153, 156, 157, 160, 161, 162, 163, 164, 182, 186, 187, 188, 189, 201, 202, 203, 212, 213, 215, 216 222, 225, 230, 250, 251, 252, 253, 255 photographs I, M and N and page 4.

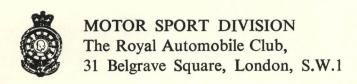
During the scrutineering of cars entered in group 4 (Sportscars) only the following items of the present recognition form are to be taken into consideration: 1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158, 159, 170, 171, 172, 173, 185, 200, 270, 271, 274, 275, 290, 291, 292 and photographs A, B, D, E, F, G, H, I, K and O.

The vehicle described in this form has been subject to the following amendments:

on1	9	rec. no	List	.on	.19	rec. no.	List
on1	9	rec. no	List	.on	.19	rec. no	List
on1							
on1							
on1	9	rec. no	List	.on	. 19	rec. no	List

Optional equipment affecting preceding information. This to be stated together with reference number.





Manufacture Rootes Motors Ltd. Model Humber Sceptre

F.I.A. Recognition No. 5230

Amendment No.

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

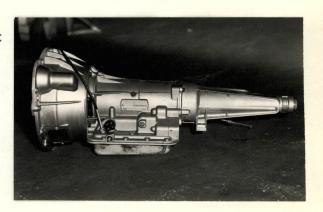
No.

Reference No.

OPTIONAL EQUIPMENT - GROUP 1 and 2

278 Automatic equipped variant

Photograph H, Automatic gearbox



293 Final drive ratio on car fitted with automatic gearbox 3.70

Number of teeth 37 - 10

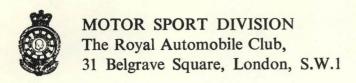
Weight: Total weight of car with normal equipment, water, oil, and spare wheel, but without petrol and repair tools.

Automatic 973 kg. 2134 lbs. 19.12 cwt.

9

Date amendment is valid from 1st May 1968.

Wish 1968/6



Manufacturer Rootes Motors Itd.

Model Humber Sceptre

F.I.A. Recognition No. 5230

Amendment No. 2/21

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. | Reference No.

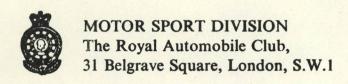
OPTIONAL EQUIPMENT - GROUP 2

7	Long Range Fuel Tank, Part No. 1241800
	Capacity of tank 100.0 litres 21.9 galls. Imp 26.6 galls. U.S.
292	Type of limited slip differential (if fitted): Borg Warner Part No. 1241807
292	Type of limited slip differential (if fitted): Salisbury Powr Lok Part No. 1241808
60	Steering - type: Recirculating ball
61	Servo assistance: No
62	Number of turns from lock to lock of steering wheel: 3.25
63	In case of servo assistance: -
290	Final drive type: Hypoid 291. Type of differential: Bevel gear
292	Type of limited slip differential (if fitted): Nil
293	Final drive ratio: 4.22 No. of teeth 9 - 38
290	Final drive - type: Hypoid 291. Type of differential: Bevel gear
292	Type of limited slip differential (if fitted): Nil
293	Final drive ratio: 4.86 No. of teeth: 7 - 34

Date amendment is valid from.....

1st May 1968. Cust 1968/6





Manufacturer Rootes Motors Ltd.

Model HUMBER SCEPTRE.

F.I.A. Recognition No. 5230

Amendment No. 3/3V GRI

Amendment to Form of Recognition

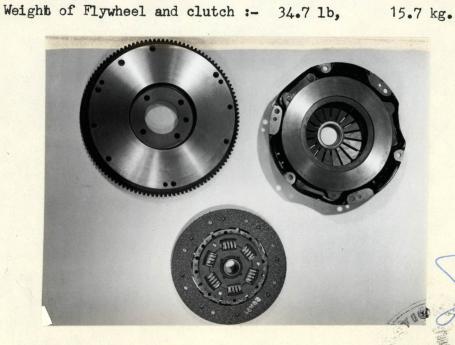
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. | Reference No.

260, 261, 262, 263,

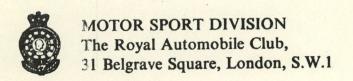
264. 160.

<u>OP</u>	TIONAL EXT	RAS (Not	valid in Group 1)
HOLBAY TYPE CLUTCH.	CTS NO's	1246220,	1801582, 1801583.
Туре	:-	Diaphragm.	
No of Plates	:-	1	
Diameter of Plates	:-	8.5 in,	21.5 cm.
Diameter of Lining	I.D. :- O.D. :-	5.75 in, 8.5 in,	14.6 cm. 21.5 cm.
Method of operation	:-	Hydraulic.	
Weight of Flywheel	:-	21.1 1b,	9.6 kg.



Date amendment is valid from 1/4/73 -73/4

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



Manufacturer Rootes Motors Ltd.

Model HUMBER SCEPTRE

F.I.A. Recognition No. 5230

Amendment No. 4/4V GRIL

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No.

OPTIONAL EXTRAS (Not valid in Group 1)

COMPETITION UNDERSHIELD, CTS 180010.

Width (max) :- 29 in, 73.5 cm.

Length :- 24 in, 61 cm.

Height :- 10 in, 25.4 cm.



