| F.I.A. | Recognition | No. 555 |
|--------|-------------|---------|
| Group |) | 3 |



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

| Rootes Group. | Cylinder-capacity 1724 cm. ³ 105. ² in. ³ |
|---|--|
| Manufacturer Sunbeam Talbot Limited. | Model Sunbeam Alpine V and G.T. |
| Serial No. of chassis/body 395000001 | Manufacturer Rootes Group. |
| Serial No. of engine 395000001 | Manufacturer Rootes Group. |
| Recognition is valid from 114 Jan 1967 | List 15/2 |
| The manufacturing of the model described in this recogn | nition form started on 10th August 1965 |
| and the minimum production of 500 ic | lentical cars, in accordance with the specifications of |
| this form was reached on 25th October 19 65 | |

Photograph A, 3/4 view of car from front



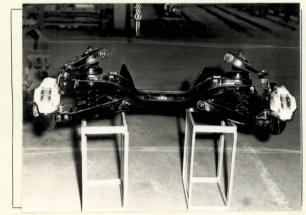




D

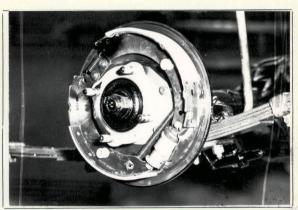




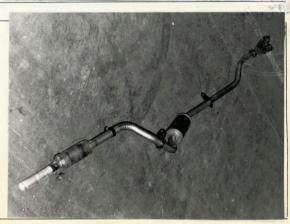




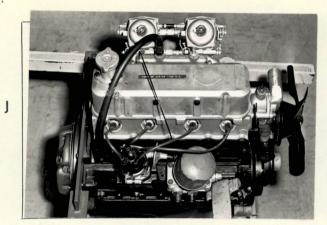


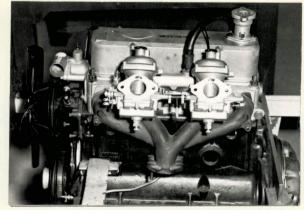






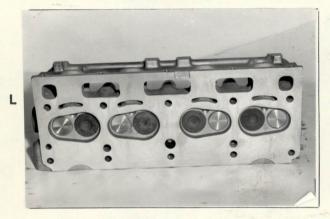
C



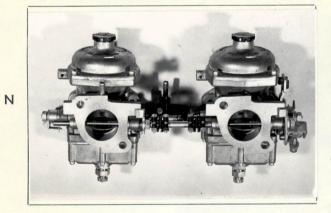


K

Q



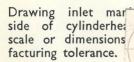


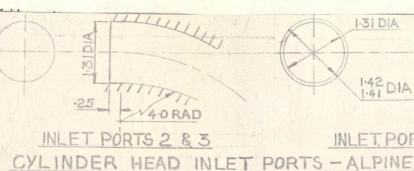


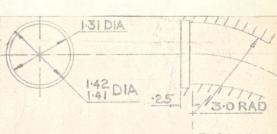






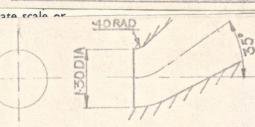


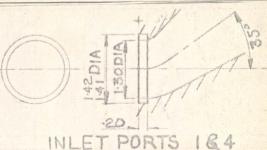




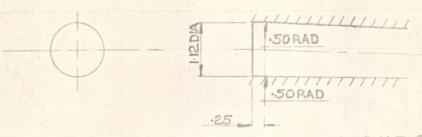
- ALPINE & RAPIER

Drawing of entrance of cylinderhead. Indicate scale or dimensions and tolerance.





Drawing of exhaports, side of cylincate scale or dir manufacturing toler MANIFOLD INLET PORTS - ALPINE



Drawing of exit to of cylinderhead. Indimensions and tolerance.



MANIFOLD EXAUST PORT - ALPINE & RAPIER

LIMITS

± . 010 ON ALL DIMENSIONS

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

CAPACITIES AND DIMENSIONS

1. Wheelbase

2184

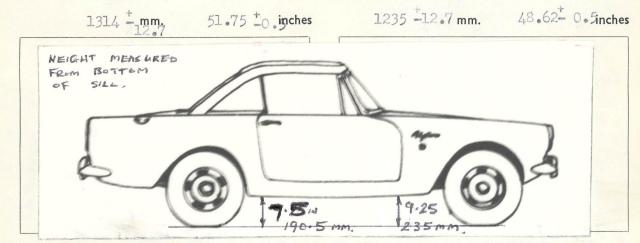
mm.

86

inches

2. Front track

3. Rear track



4. Overall length of the car

396.2

156 cm.

inches

5. Overall width of the car

153.7

60.5 cm.

inches

6. Overall height of the car

(Soft top)

132.0

52 cm.

inches

7. Capacity of fuel tank (reserve included)

51.14

Itrs.

13.5

gall. U.S. 11.25 gall. Imp.

8. Seating Capacity.

2

9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel 2092 lbs. 18 cwt. 2 ots. 18 cwts 20 lbs. or repair tools:

Soft top without overdrive. 949kg.

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 train no way affect the eligibility of the car.

NOTE 3.

CONVERSION TABLE

| the second of th | | | | | | |
|--|------------------|------|-------------------------|---|--------|-------|
| 1 inch/pouce | 2.54 | cm. | 1 quart US | _ | 0.9464 | Itrs. |
| 1 foot/pied | — 30.4794 | cm. | 1 pint (pt) | _ | 0.568 | ltrs. |
| 1 sq. inch/pouce carre | — 6.452 | cm.2 | 1 gallon Imp. | _ | 4.546 | Itrs. |
| 1 cubic inch/pouce cube | — 16.387 | cm.3 | 1 gallon US | _ | 3.785 | Itrs. |
| 1 pound/livre (lb) | — 453.593 | gr. | 1 hundred weight (cwt.) | _ | 50.802 | kg. |

CHASSIS AND COACHWORK (Photographs A, B and C)

- 20. Chassis/body construction: separate/unitary construction
- 21. Unitary construction, material(s) Steel with Fibre hood,
- 22. Separate construction, Material(s) of chassis
- 23. Material(s) of coachwork -
- 24. Number of doors 2 Material(s) Steel.
- 25. Material(s) of bonnet Steel.
- 26. Material(s) of boot lid Steel.
- 27. Material(s) of rear-window I.C.I. "Vybak"
- 28. Material(s) of windscreen Safety Glass, Zone Toughened or Laminated.
- 29. Material(s) of front-door windows Safety Glass.
- 30. Material(s) of rear-door windows nil.
- 31. Sliding system of door windows Vertical winding.
- 32. Material(s) of rear-quarter light Safety Glass (Hard top only)

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 (Reclining)
- 42. Weight of front seat(-3), complete with supports and rails, out of the car:

| (one | seat). | 11.34 | kg. | 25 | lbs. |
|------|--------|-------|-----|----|------|

- 43. Rear seats, type of seat and upholstery Ambla.
- 44. Front bumper, material(s) Steel. Weight 4.2 kg. 9.25 lbs.
- 45. Rear bumper, material(s) Steel. Weight 4.2 kg. 9.5 lbs.

WHEELS

- 50. Type Ventilated Steel Disc.
- 51. Weight (per wheel, without tyre) 5.76 kg.
- 52. Method of attachment 4 Stud.
- 53. Rim diameter 330.2 mm. 13 ins. 54. Rim width 114.2 mm.

STEERING

- 60. Type Recirculating Ball.
- 61. Servo-assistance : yes no
- 62. Number of turns of steering wheel from lock to lock 3.5
- 63. In case of servo-assistance -

SUSPENSION

70. Front suspension (photograph D), type

71. Type of spring

72. Stabiliser (if fitted)

73. Number of shock absorbers

78. Rear suspension (photograph E), type

79. Type of spring

80. Stabiliser (if fitted)

81. Number of shock absorbers

Independent Wishbone.

Coil.

Transverse Torsion.

Telescopic. 74. Type

Live Axle.

Semi Elliptic Leaf.

nil.

82. Type Telescopic.

BRAKES (photographs F and G)

90. Method of operation

91. Servo-assistance (if fitted), type Girling Vacuum.

92. Number of hydraulic master cylinders

93. Number of cylinders per wheel

94. Bore of wheel cylinder(s)

Drum Brakes

| 95. | Insid | | |
|-----|-------|--|--|
| | | | |

96. Length of brake linings

97. Width of brake linings

98. Number of shoes per brake

99. Total area per brake

Hydraulic.

| 1 | | | | | | |
|------|-------------------|---------|--------------------|------------------|-------|---------|
| | FRONT | | | REA | AR | |
| 54 | FRONT 2 mm. 2.125 | inches | 19 | mm. | 0.75 | inches |
| | | | | | | |
| | mm. | inches | 229 218 44•4 | mm. | 9 | inches |
| | mm. | inches | 218 | mm. 8 | 3.6 | inches |
| | mm. | inches | 44.4 | mm. | 1.75 | inches |
| | | | | 2 | | |
| | mm. ² | sq. in. | 195 | mm. ² | 30.2 | sq. in. |
| | | | | | | |
| 250 | mm. 9.85 | inches | | mm | | inches |
| | | | 100 | S.A.B. | 200 | inches |
| 12.7 | mm. 0.50 | inches | (A) (I) | mm. | ar ar | inches |

Disc Brakes

100. Outside diameter

101. Thickness of disc

102. Length of brake linings

103. Width of brake linings

104. Number of pads per brake

105. Total area per brake

73.66 mm. 2.9 inches mm. 2.05 inches

mm.210.4 sq. in. 67.1

inches mm. Inches

sq. in.

Taper.

4

lbs.

lbs.

| ENGINE | (photographs | I and K) |
|--------|-------------------|----------|
| | (Pine cog. apine | , |

130. Cycle 4 Stroke.

131. Number of cylinders

132. Cylinder Arrangement In line vertical.

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 1

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

142. Compression ratio 9.2 : 1 Nominal.

143. Volume of one combustion chamber 38 cm.³ 2,28 cu. in.

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

146. Distance from gudgeon pin centre line to highest point of piston crown
46.99 mm. 1.850 in.

149. Number of crankshaft main bearings 5

150. Material of bearing cap cast iron.

151. System of lubrication: dry sump/oil in sump

152. Capacity, lubricant 4.25 ltrs. 7.5 pts. 4.5 quarts U.S.

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

155. Capacity of cooling system 7.1 ltrs. 12.5 pts. 7.5 quarts U.S.

156. Cooling fan (if fitted) dia. 3.175 cm. 12.5 in.

157 Number of blades of cooling fan 4

Bearings

158. Crankshaft main, type Shell dia. 60.32 m.m. 2.375 in.

159. Connecting rod big end, type Shell dia. 55.97 m.m. 112.125 in.

Weights

160. Flywheel (clean) 10.036

161. Flywheel with clutch (all turning parts)

14.90

32.86 | blbs.

162. Crankshaft 15.40 kg. 34 lbs. 163. Connecting rod 0.737 kg

164. Piston with rings and pin 0.613 kg. 1.352 lbs.

FOUR STROKE ENGINES

170. Number of camshafts 1 171. Location Right hand side of block.

172. Type of camshaft drive Single Stage Chain.

173. Type of valve operation Push Rod and Rocker Arm.

INLET (see page 4)*

180. Material(s) of inlet manifold

38.12 - 38.22 mm.l.501 - 1.505 ins. 181. Diameter of valves

182. Max. valve lift 10.31 mm. 0.406 183. Number of valve springs 2 in.

184. Type of spring Coil. 185. Number of valves per cylinder

0.012 186. Tappet clearance for checking timing (cold) 0.305 ins.

187. Valves open at (with tolerance for tappet clearance indicated) 29° B.T.D.C.

188. Valves close at (with tolerance for tappet clearance indicated) 63° A.B.D.C.

189. Air filter, type Paper Element.

EXHAUST (see page 4)*

Cast iron. 195. Material(s) of exhaust manifold

196. Diameter of valves 30.53 - 30.63 mm.1.202 - 1.206 ins.

198. Number of valve springs 197. Max. valve lift 10.26 mm. 0.404 in.

199. Type of spring Coil. 200. Number of valves per cylinder 1

0.014 201. Tappet clearance for checking timing (cold) mm. ins.

202. Valves open at (with tolerance for tappet clearance indicated) 69° B.B.D.C.

203. Valves close at (with tolerance for tappet clearance indicated) 23° A.T.D.C.

CARBURETION (photograph N)

Horizontal. 210. Number of carburettors fitted 211. Type

Zenith Stromberg. C.D. 150. 212. Make 213. Model

214. Number of mixture passages per carburettor 1

38.1 1.5 215. Flange hole diameter of exit port(s) of carburettor mm. ins.

216. Minimum diameter of venturi/minimum diam., with piston at maximum height (example: SU) 25.4 mm.

DE

ins.

INJECTION (if fitted) NIL.

220. Make of pump 221. Number of plungers

222. Model or type of pump 223. Total number of injectors

224. Location of injectors

225. Minimum diameter of inlet pipe mm.

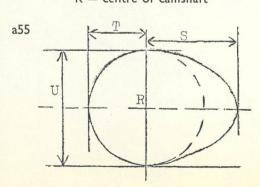
ENGINE ACCESSORIES

- 230. Fuel pump: mechanical and/or electrical
- 231. No. fitted
- 232. Type of ignition system Coil. 233. No. of distributors
- 234. No. of ignition coils 1 235. No. of spark plugs per cylinder 1
- 236. Generator, type: dynamo/alternator—number 1.
- 237. Method of drive Belt.
- 238. Voltage of generator 12 volts
- 239. Battery, number
- 240. Location Under Rear Seat Platform.
- 241. Voltage of battery 12 volts

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

- 250. Max. engine output 100 (type of horsepower: B.H.P.) at 5500 r.p.m.
- 251. Max. r.p.m. 6450 output at that figure Not available.
- 252. Max. torque 110.2 lb.ft. at 3700 r.p.m.
- 253. Max. speed of the car 160 km./hour 100 miles/hour Exhaust Cam 3.

R = centre of camshaft



- $S = 21.45 \pm 0.08 \text{ mm} \cdot 0.8444 \pm 0.003 \text{ ins} \cdot$
- T = 13.87 mm. 0.546 ins. T = 27.98 0.0 mm. 1.1017 0.002 ins.
- J = 27.98 0.0 mm. 1.1017 0.002 in Inlet cam

Inlet cam

- $S = 21.93 \pm 0.08$ mm. 0.8634 ± 0.03 inches T = 14.35 mm. 0.8634 ± 0.03 inches
- $U = 28.95 \pm 0.05$ mm, 1.1397 ± 0.002 inches

Exhaust cam 1, 2 and 4

- $S = 21.93 \pm 0.08$ mm. 0.565 inc
- $U = 28.95 \pm 0.05$ mm. 1.1397 ± 0.002 inches

DRIVE TRAIN

CLUTCH

Diaphragm. 260. Type of clutch 261. No. of plates 1

262. Dia. of clutch plates 19.1 7.52 ins. cm.

5.12 263. Dia. of linings, inside 30.0 ins. cm.

19.1 7.52 outside ins. cm.

264. Method of operating clutch Hydraulic.

GEAR BOX (photograph H)

270. Manual type, make Rootes. Method of operation Manual.

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

Centre Floor. 273. Location of gear-shift

274. Automatic, make nil. type

275. No. of forward ratios 276. Location of gear shift

| 277. | Ratio Mai | No. teeth | Automatic Ratio No. teeth | Alternative manual/automatic Ratio No. teeth Ratio No. teeth |
|---------|-----------|-----------|------------------------------|--|
| 1 | 3.122 | 37 16 | | |
| 2 | 1.993 | 31 21 | | |
| 3 | 1.296 | 24 25 | | |
| 4 | 1.00 | 20 27 | | |
| 5 | | | | |
| 6 | | | | |
| reverse | 3.323 | 32 13 | | |

- 278. Overdrive, type Laycock Epicyclic Optional.
- 279. Forward gears on which overdrive can be selected 3 and 4
- 280. Overdrive ratio 0.803:1

FINAL DRIVE

290. Type of final drive Hypoid. 291. Type of differential

292. Type of limited slip differential (if fitted)

Number of teeth 293. Final drive ratio 35 - 93.89:1



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.

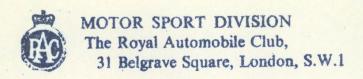
During the scrutineering of cars entered in group 4 (Sportscars) only the following items of the present recognition form are to be taken into consideration: 1, 2, 3, 9, 20, 21, 22, 23, 24, 25, 26, 70, 71, 78, 79, 90, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 147, 148, 149, 150, 158,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

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

| on | 19 | rec. | no | List | .on | 19 | rec. no. | List |
|----|----|------|-----|------|-----|----|----------|------|
| on | 19 | rec. | no | List | .on | 19 | rec. no | List |
| on | 19 | rec. | no | List | .on | 19 | rec. no | List |
| on | 19 | rec. | no | List | .on | 19 | rec. no | List |
| on | 19 | rec. | no. | List | .on | 19 | rec. no | List |

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





| Manufacturer Rootes Group. | |
|----------------------------|------|
| Model Sunbeam Alpine V and | G.T. |
| F.I.A. Recognition No. | |
| Amendment No. 1 | |

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No.

The following variants are available:

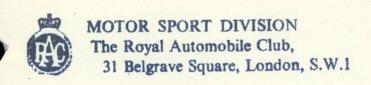
Detachable Hard Top and Grand Touring 2 seater Coupes of similar outward appearance.



Photograph A with Hard Top.

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

Date amendment is valid from 1st Jan 1962



| Manufacturer Rootes Group. | |
|----------------------------|------|
| Model Sunbeam Alpine V and | G.T. |
| F.I.A. Recognition No. | |
| Amendment No. 2 | |

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. Reference No.



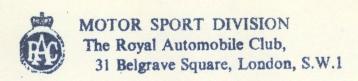
Photograph B with Hard Top.

9. Weights.

Hard Top Tourer. 981 kgs. 2163 lbs. 19 cwts. 7 lbs.

Grand Touring Coupe. 966 kgs. 2130 lbs. 18 ets. 2 qtrs. 2 lbs.

Date amendment is valid from 1st form 1967.



Model Sunbeam Alpine V and G.T.

F.I.A. Recognition No.

Amendment No. 3

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

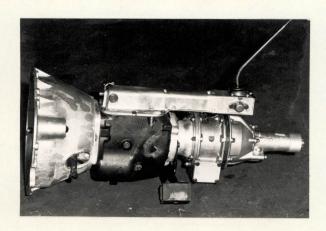
No.

Reference No.

OPTIONAL EQUIPMENT - GROUP 3.

278.

Overdrive equipped variant.



Photograph H Gearbox with overdrive.

293. Final Drive Ratio on cars fitted with overdrive 4.22: 1.

Number of teeth: 38 - 9

9. Weights: Total weight of car with normal equipment, water, oil, and spare wheel but without fuel and repair tools.

1. Hard top variant with overdrive.

1024 kgs. 2163 lbs. 20 cwts. 18 lbs.

11. Grand Touring Variant with overdrive.

1009 kgs. 2225 lbs. 19 cwts. 3 qtrs. 13 lbs.

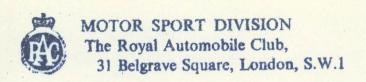
111. Tourer with overdrive.

958 kgs. 2112 lbs.

18 cw. 3 qt. 12 lbs.

Date amendment is valid from 184 Jan. 1967.

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



Manufacturer Rootes Group.

Model Sunbeam Alpine V and G.T.

F.I.A. Recognition No.

Amendment No. 4

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No.

OPTIONAL EQUIPMENT - GROUP 3.

Wheels.

| 50. | Type: Wire Spoke. Part No. 1201361. |
|-----|--|
| 51. | Weight: (Per wheel without tyre) 51 kgs. 12 lbs. |
| 52. | Method of attachment: Splined Centre Lock, Eared or non Eared cap. |
| 53. | Rim diameter: 330.2 mm. 13 ins. |
| 54. | Rim Width: 114.3 mm. 4.5 ins. |

Mubility Lines

Date amendment is valid from 1st Jan 1967.

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