

F.I.A. Recognition No. 524  
Group 3 - Grand Touring

ADO41/66



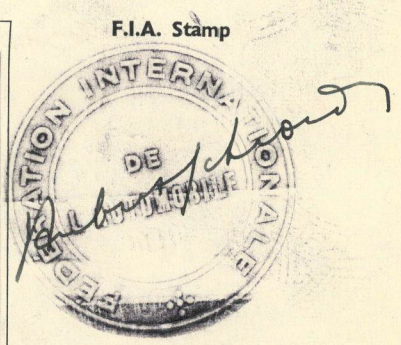
# ROYAL AUTOMOBILE CLUB

31, Belgrave Square, London, S.W.1

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

Austin Motor Company Ltd. in assoc. with	Cylinder-capacity	1098	cm. <sup>3</sup>	67.0	in. <sup>3</sup>
Manufacturer <u>Donald Healey Motor Co. Ltd.</u>	Model	<u>Austin Healey Sprite Mk III</u>			
Serial No. of chassis/body <u>H-AN8</u>	Manufacturer	<u>British Motor Corporation</u>			
Serial No. of engine <u>10 CC</u>	Manufacturer	<u>British Motor Corporation</u>			
Recognition is valid from <u>1st Febr. 1966</u>	List	<u>14/2</u>			
The manufacturing of the model described in this recognition form started on <u>4th January</u> 19 <u>64</u>					
and the minimum production of <u>500</u> identical cars, in accordance with the specifications of					
this form was reached on <u>5th March</u> 19 <u>64</u> .					

Photograph A, 3/4 view of car from front



R.A.C. Stamp



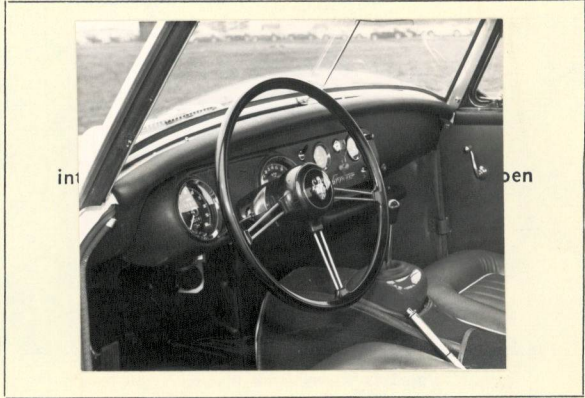
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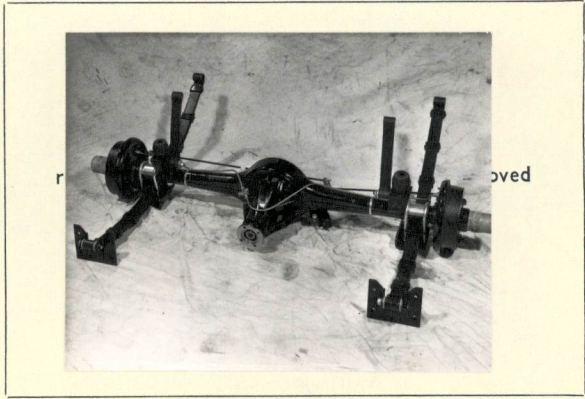
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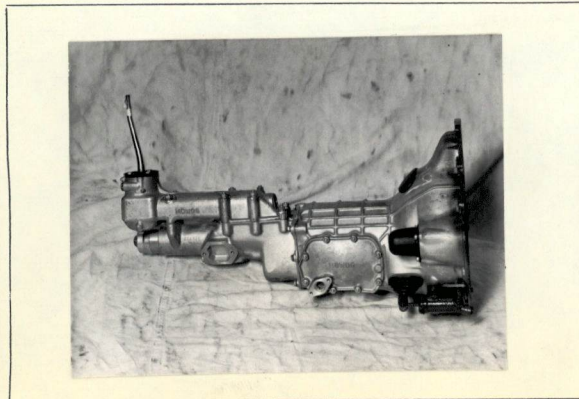
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G



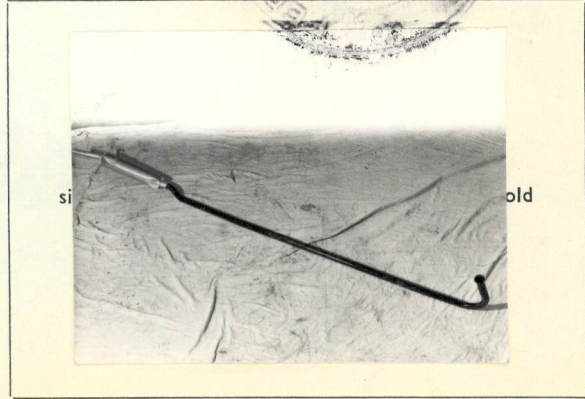
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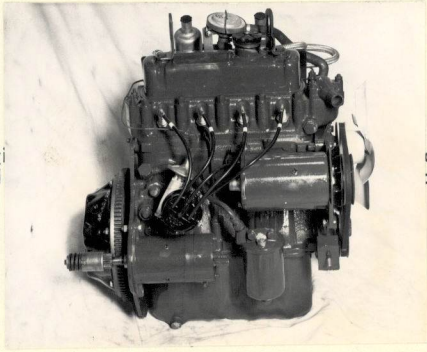
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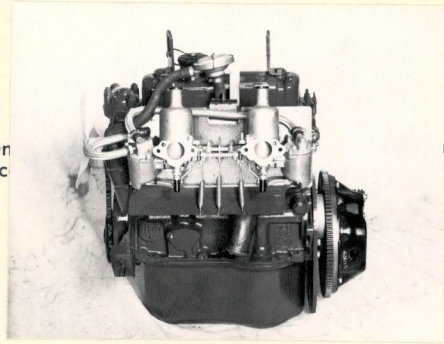
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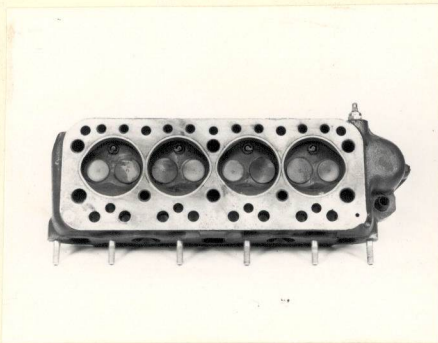
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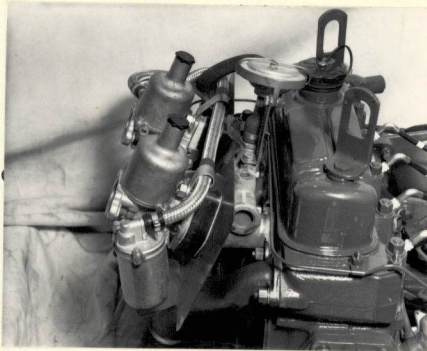
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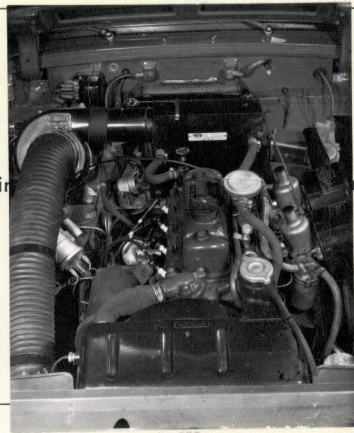
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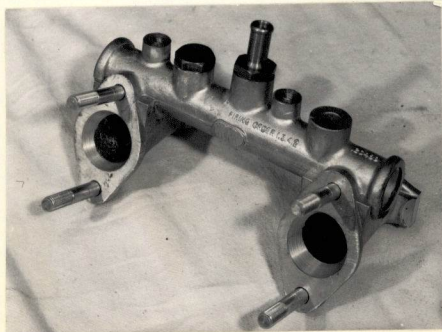
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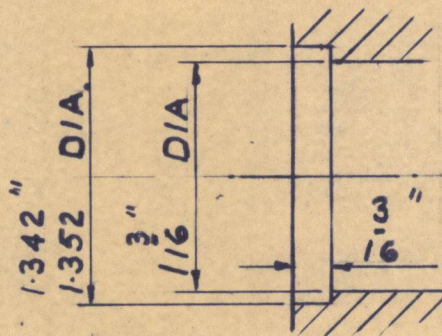
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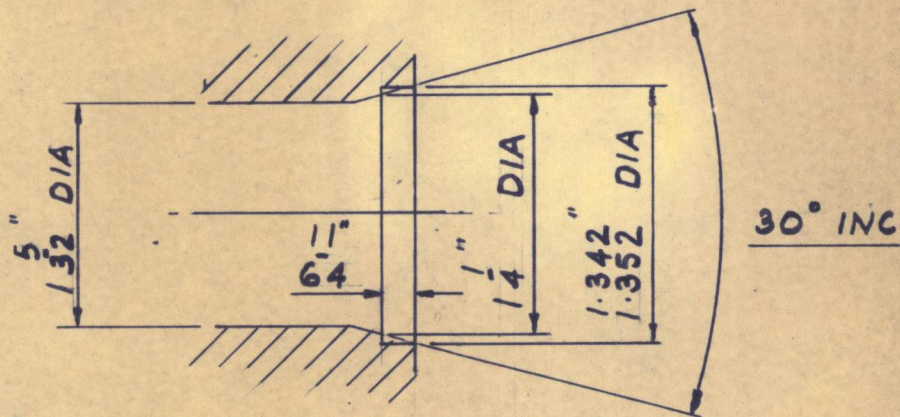
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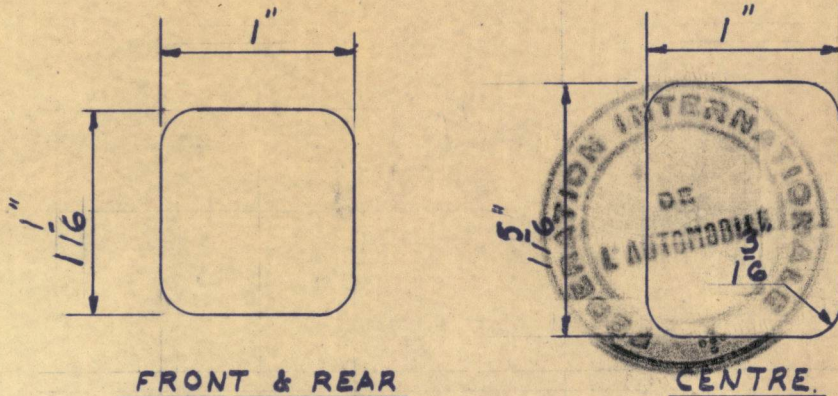
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



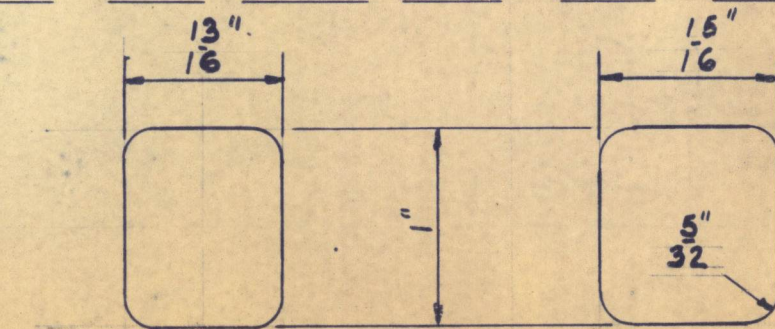
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



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.



FRONT & REAR CENTRE  
GENERAL TOLERANCE ± .010"

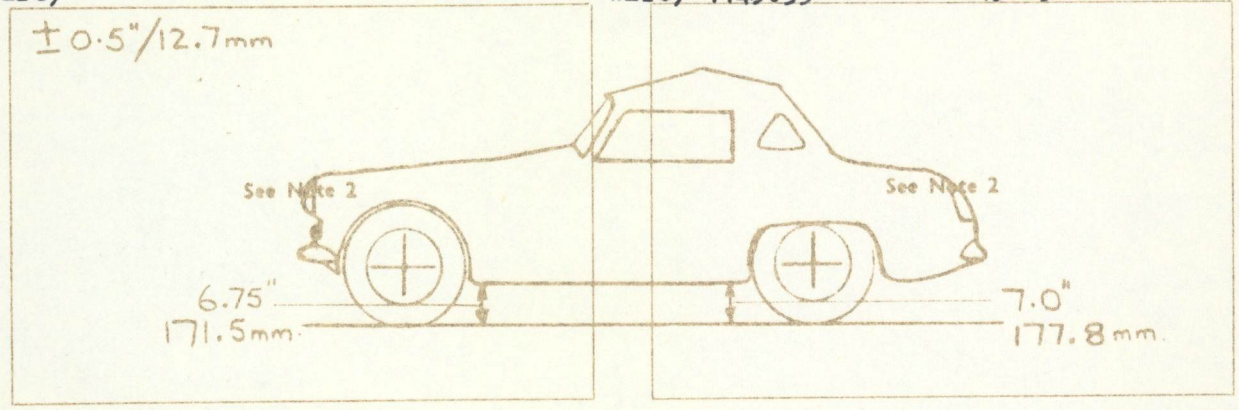


**NOTE 1.**

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

**CAPACITIES AND DIMENSIONS**

1. Wheelbase	2032.0	mm.	80.0	inches			
2. Front track							
				3. Rear track			
Disc) 1175.9	mm.	46.3	inches	Disc) 1127.65	mm.	44.75	inches
Wire) 1175.9				Wire) 1149.35		45.25	



4. Overall length of the car	348.932	cm.	137.375	inches		
5. Overall width of the car	Disc 139.382	cm.	54.876	inches		
	Wire 143.510		56.5			
6. Overall height of the car	123.19	cm.	48.5	inches		
7. Capacity of fuel tank (reserve included)	27.24	ltrs.	7.2	gall. U.S. / 6	gall. Imp.	
8. Seating Capacity.	2					
9. Weight. Total weight of the car with normal equipment, water, oil, and spare tire but without fuel or repair tools:	684.8	kg.	1510		383.48	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. 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 inch/pouce	— 2.54	cm.	1 quart US	— 0.9464	ltrs.
1 foot/pied	— 30.4794	cm.	1 pint (pt)	— 0.568	ltrs.
1 sq. inch/pouce carre	— 6.452	cm. <sup>2</sup>	1 gallon Imp.	— 4.546	ltrs.
1 cubic inch/pouce cube	— 16.387	cm. <sup>3</sup>	1 gallon US	— 3.785	ltrs.
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**
- 22. Separate construction, Material(s) of chassis **Steel**
- 23. Material(s) of coachwork **Steel**
- 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
- 28. Material(s) of windscreen **Laminated glass**
- 29. Material(s) of front-door windows **Safety glass**
- 30. Material(s) of rear-door windows
- 31. Sliding system of door windows **Vertical winding**
- 32. Material(s) of rear-quarter light

**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 **Leathercloth**
- 42. Weight of front seat(s), complete with supports and rails, out of the car :
 

7.91	kg.	17.4	lbs.
------	-----	------	------
- 43. Rear seats, type of seat and upholstery
- 44. Front bumper, material(s) **Steel** Weight **5.56** kg.
- 45. Rear bumper, material(s) **Steel** Weight **4.65** kg.

**WHEELS**

- 50. Type **Disc or wire spoke**
- 51. Weight (per wheel, without tyre)
 

Wire 5.51	
Disc 5.209	kg.
- 52. Method of attachment **4 studs or centre lock cap**
- 53. Rim diameter **330.2** mm. **13.0** ins.
- 54. Rim width **88.9** mm. **3.5** ins.



**STEERING**

- 60. Type **Rack & Pinion**
- 61. Servo-assistance : ~~yes~~ — no
- 62. Number of turns of steering wheel from lock to lock **2 1/4**
- 63. In case of servo-assistance

**SUSPENSION**

- 70. Front suspension (photograph D), type **Independent**
- 71. Type of spring **Coil**
- 72. Stabiliser (if fitted) **No**
- 73. Number of shock absorbers **2**                      74. Type **Hydraulic lever arm**
- 78. Rear suspension (photograph E), type **Semi elliptic**
- 79. Type of spring **Leaf**
- 80. Stabiliser (if fitted)
- 81. Number of shock absorbers **2**                      82. Type **Hydraulic lever arm**

**BRAKES** (photographs F and G)

- 90. Method of operation **Hydraulic**
- 91. Servo-assistance (if fitted), type **No**
- 92. Number of hydraulic master cylinders **1**
- 93. Number of cylinders per wheel **2**                      **FRONT**                      **1**                      **REAR**
- 94. Bore of wheel cylinder(s) **50.8** mm. **2.0** inches | **19.05** mm. **0.75** inches

**Drum Brakes**

- 95. Inside diameter mm. inches | **177.8** mm. **7.0** inches
- 96. Length of brake linings mm. inches | **169.6** mm. **6.68** inches
- 97. Width of brake linings mm. inches | **31.8** mm. **1.25** inches
- 98. Number of shoes per brake **2**
- 99. Total area per brake mm.<sup>2</sup> sq. in. | **1077.5** mm.<sup>2</sup> **16.7** sq. in.

**Disc Brakes**

- 100. Outside diameter **209.5** mm. **8.25** inches | mm. inches
- 101. Thickness of disc **7.62** mm. **0.30** inches | mm. inches
- 102. Length of brake linings approx **66.5** mm. **2.625** inches | mm. inches
- 103. Width of brake linings approx **44.0** mm. **1.75** inches | mm. inches
- 104. Number of pads per brake **2**
- 105. Total area per brake **580.6** mm.<sup>2</sup> **9.0** sq. in. | mm.<sup>2</sup> sq. in.





**ENGINE** (photographs J and K)

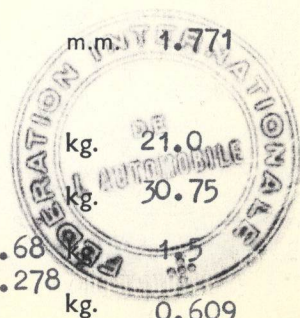
- |   |   |   |  |
|---|---|---|--|
| 130. Cycle  | <u>4 stroke</u>                             | 131. Number of cylinders                            | <u>4</u>                                   |
| 132. Cylinder Arrangement   | <u>In line</u>                              |   |  |
| 133. Bore   | <u>64.58 mm. 2.543 in.</u>                  | 134. Stroke   | <u>83.72 mm. 3.296 in.</u>                 |
| 135. Capacity per cylinder  |   |   | <u>274.5 cm.<sup>3</sup> 16.75 cu. in.</u> |
| 136. Total cylinder capacity  |   |   | <u>1098 cm.<sup>3</sup> 67.0 cu. in.</u>   |
| 137. Material(s) of cylinder block  | <u>Cast iron</u>                            | 138. Material(s) of sleeves (if fitted)             |  |
| 139. Cylinder head, material(s)   | <u>Cast iron</u>                            | Number fitted                                       | <u>1</u>                                   |
| 140. Number of inlet ports  | <u>2</u>                                    | 141. Number of exhaust ports                        | <u>3</u>                                   |
| 142. Compression ratio  | <u>8.9:1</u>                                |   |  |
| 143. Volume of one combustion chamber                                       |   |   | <u>28.29 cm.<sup>3</sup> 1.725 cu. in.</u> |
| 144. Piston, material   | <u>Aluminium alloy</u>                      | 145. Number of rings                                | <u>4</u>                                   |
| 146. Distance from gudgeon pin centre line to highest point of piston crown |   |   | <u>34.024 mm. 1.348 in.</u>                |
| 147. Crankshaft: <del>moulded</del> /stamped                                |   | 148. Type of crankshaft: integral/ <u>Yes</u> ..... |  |
| 149. Number of crankshaft main bearings                                     | <u>3</u>                                    |   |  |
| 150. Material of bearing cap  | <u>Cast iron</u>                            |   |  |
| 151. System of lubrication: <del>dry sump</del> /oil in sump                |   |   |  |
| 152. Capacity, lubricant  | <u>3.69 ltrs. 6.5 pts. 3.89 quarts U.S.</u> |   |  |
| 153. Oil cooler: <u>yes</u> /no   |   | 154. Method of engine cooling                       | <u>Pressurised water</u>                   |
| 155. Capacity of cooling system   | <u>5.67 ltrs. 10 pts. 5.99 quarts U.S.</u>  |   |  |
| 156. Cooling fan (if fitted) dia.   |   |   | <u>25.4 cm. 10.0 in.</u>                   |
| 157. Number of blades of cooling fan  | <u>4</u>                                    |   |  |

**Bearings**

- |                                   |                    |      |                             |
|-----------------------------------|--------------------|------|-----------------------------|
| 158. Crankshaft main, type        | <u>Copper lead</u> | dia. | <u>54.5 m.m. 2.1465 in.</u> |
| 159. Connecting rod big end, type | <u>Copper lead</u> | dia. | <u>44.99 m.m. 1.771 in.</u> |

**Weights**

- |   |                            |                             |                             |
|---|----------------------------|-----------------------------|-----------------------------|
| 160. Flywheel (clean)                         |                            | <u>9.52 kg. 21.0 lbs.</u>   |                             |
| 161. Flywheel with clutch (all turning parts) |                            | <u>13.97 kg. 30.75 lbs.</u> |                             |
| 162. Crankshaft                               | <u>10.1 kg. 22.25 lbs.</u> | 163. Connecting rod         | <u>.68 kg. 1.5 lbs.</u>     |
| 164. Piston with rings and pin                |                            |                             | <u>0.278 kg. 0.609 lbs.</u> |





Make Austin Healey

Model Sprite Mk III

F.I.A. Rec. No. 524

**FOUR STROKE ENGINES**

170. Number of camshafts 1 171. Location Cylinder block  
172. Type of camshaft drive Chain  
173. Type of valve operation OHV pushrod

**INLET** (see page 4)\*

180. Material(s) of inlet manifold Aluminium alloy  
181. Diameter of valves 30.94 mm. 1.218 ins.  
182. Max. valve lift 8.1 mm. 0.318 in. 183. Number of valve springs 2 per valve  
184. Type of spring Coil 185. Number of valves per cylinder 1  
186. Tappet clearance for checking timing (cold) 0.533 mm. 0.021 ins.  
187. Valves open at (with tolerance for tappet clearance indicated) 5° BTDC  
188. Valves close at (with tolerance for tappet clearance indicated) 45° ABDC  
189. Air filter, type Replaceable element

**EXHAUST** (see page 4)\*

195. Material(s) of exhaust manifold Cast iron  
196. Diameter of valves 25.4 mm. 1.005 ins.  
197. Max. valve lift 8.1 mm. 0.318 in. 198. Number of valve springs 2 per valve  
199. Type of spring Coil 200. Number of valves per cylinder 1  
201. Tappet clearance for checking timing (cold) 0.533 mm. 0.021 ins.  
202. Valves open at (with tolerance for tappet clearance indicated) 51° BBDC  
203. Valves close at (with tolerance for tappet clearance indicated) 21° ATDC

**CARBURETION** (photograph N)

210. Number of carburettors fitted 2 211. Type Variable choke  
212. Make S.U. 213. Model HS2  
214. Number of mixture passages per carburettor 1  
215. Flange hole diameter of exit port(s) of carburettor 31.75 mm. 1.25 ins.  
216. ~~Minimum diameter of venturi~~/minimum diam., with piston at maximum height (example : SU) 23.01 mm. 0.906 ins.

**INJECTION** (if fitted)

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. ins.

\* For additional information concerning two-stroke engines and super-charged engines, see page 13.



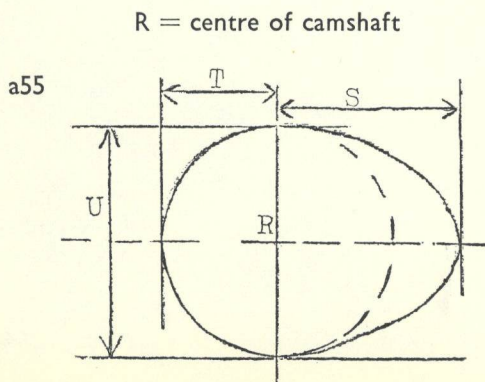


**ENGINE ACCESSORIES**

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

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

250. Max. engine output 59 (type of horsepower: BHP ) at 5750 r.p.m.
251. Max. r.p.m. 6000 output at that figure
252. Max. torque 65 at 3500 r.p.m.
253. Max. speed of the car 147.7 km./hour 91.8 miles/hour



**Inlet cam**

- S = 20.56 mm. 0.8094 inches
- T = 13.81 mm. 0.5426 inches
- U = 27.56 mm. 1.085 inches

**Exhaust cam**

- S = 20.56 mm. 0.8094 inches
- T = 13.81 mm. 0.5426 inches
- U = 27.56 mm. 1.085 inches





Make Austin Healey

Model Sprite Mk III

F.I.A. Rec. No. 524

**DRIVE TRAIN**

**CLUTCH**

260. Type of clutch Diaphragm spring 261. No. of plates 1
262. Dia. of clutch plates 18.45 cm. 7.25 ins.
263. Dia. of linings, inside 12.7 cm. 5.0 ins.
- outside 18.45 cm. 7.25 ins.
264. Method of operating clutch Hydraulic

**GEAR BOX** (photograph H)

270. Manual type, make BMC Method of operation
271. No. of gear-box ratios forward 4 272. Synchronized forward ratios 3
273. Location of gear-shift Central between front seats
274. Automatic, make type
275. No. of forward ratios 276. Location of gear shift

277.	Manual		Automatic		Alternative manual/automatic			
	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth	Ratio	No. teeth
1	3.200:1	$\frac{26}{20} \times \frac{32}{13}$			2.93:1	$\frac{25}{21} \times \frac{32}{13}$		
2	1.916:1	$\frac{26}{20} \times \frac{28}{19}$			1.754:1	$\frac{25}{21} \times \frac{28}{19}$		
3					1.242:1	$\frac{25}{21} \times \frac{24}{23}$		
4	1.357:1	$\frac{26}{20} \times \frac{24}{23}$			1.000:1			
5	1.000:1							
6								
reverse	4.120:1	$\frac{26}{20} \times \frac{18}{13} \times \frac{32}{14}$			3.768:1	$\frac{25}{21} \times \frac{18}{13} \times \frac{32}{14}$		

278. Overdrive, type
279. Forward gears on which overdrive can be selected
280. Overdrive ratio

**FINAL DRIVE**

290. Type of final drive Hypoid 291. Type of differential Bevel
292. Type of limited slip differential (if fitted)
293. Final drive ratio 4.22:1 Number of teeth 9/30





**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 1/5 19 66 rec. no. 524 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.

- 293. Final drive ratio - 4.55:1  
Number of teeth - 9/41
- 153. Oil cooler - Part Number ARA.205
- 72. Anti roll bar - Part Number AHA.7013  
Hard top - Part Number AHA.7815/6/7/8







MOTOR SPORT DIVISION  
The Royal Automobile Club,  
31 Belgrave Square, London, S.W.1

Manufacturer B.M.C.  
Model Austin Healey Sprite Mk II  
Amendment No. 1  
F.I.A. Recognition No. 524

Amendment to Form of Recognition

**FEDERATION INTERNATIONALE DE L'AUTOMOBILE**

No.                      Reference No.

OPTIONAL EQUIPMENT

- |    |      |  |                                  |         |
|----|------|--|----------------------------------|---------|
| 1. | 54.  | Wire wheel - C - AHA.7573<br>Rim width - 127.0 mm / 5.0 inches | }      )<br>}      )<br>}      ) | Wheels. |
|    | 51.  | 16.0 lbs./7.27 kgs.  |                                  |         |
| 2. | 292. | BMC Limited Slip Differential C-BTA.696                        |                                  |         |
| 3. | 293. | Final drive ratio  | 3.727    3.9    4.875            |         |
|    |      | No. of teeth   | 11/41    10/39    8/39           |         |
| 4. | 7.   | Supplementary fuel tank 6 gall./27.3 litres C-AHA 7565         |                                  |         |

*Audubert-Chauvy*  
  
 Stamp of F.I.A. R.A.C. to be affixed here

Date amendment is valid from 1st May, 1966