

ADO15A/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

Cylinder-capacity. ⁸⁴⁸.....cm³. ^{51.7}.....in³

Manufacturer. Austin Motor Company Limited. Austin Mini
Serial No. of chassis. N/A287. Manufacturer. British Motor Corporation
engine. 8AM. Manufacturer. British Motor Corporation
Recognition is valid from. 1st. Jan. 66. List. 14.

The manufacturing of the model described in this recognition form was started on
..30..9.....1964 and the minimum production of...5000...identical cars,
in accordance with the specifications of this form was reached on..21..10.....1964

Photograph A, $\frac{3}{4}$ view of car from front



R.A.C. Stamp

Make Austin

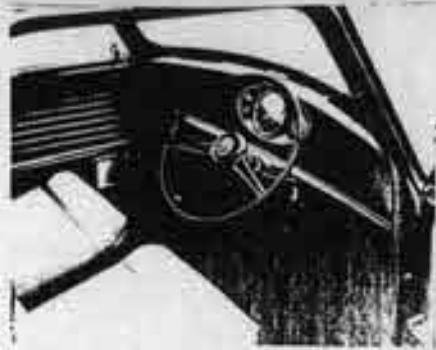
Model Austin Mini

F.I.A. Rec.no.

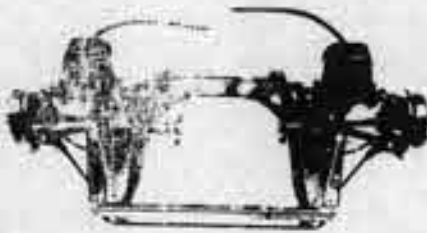
B



C



D



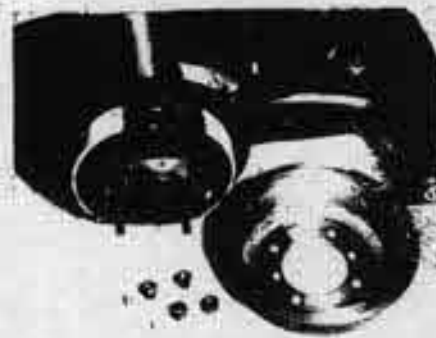
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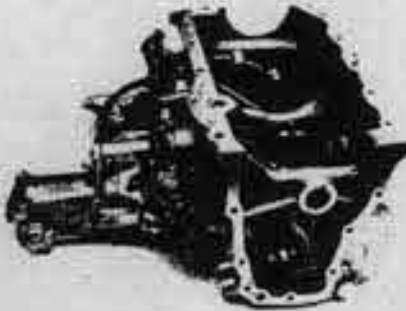
F



G

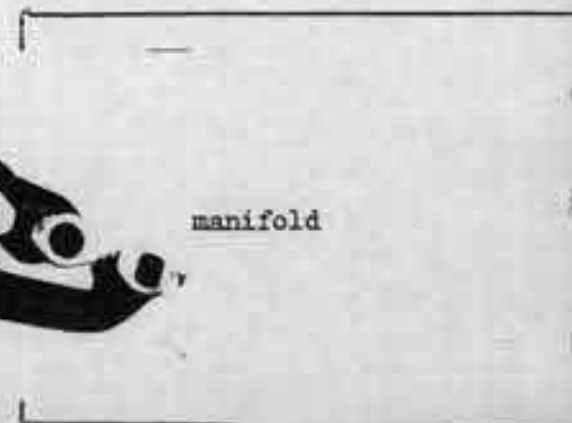
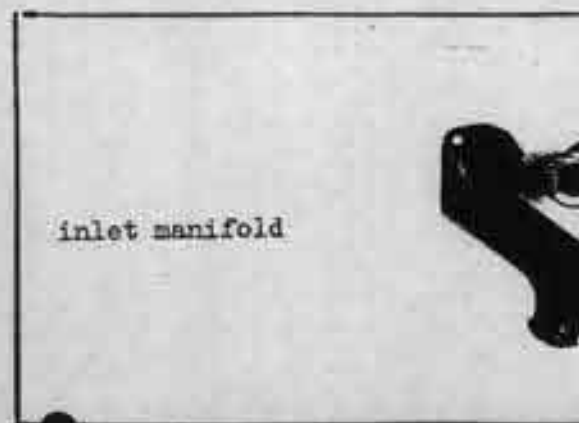
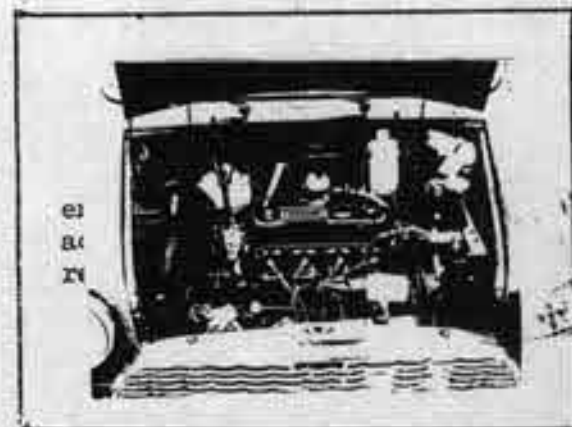
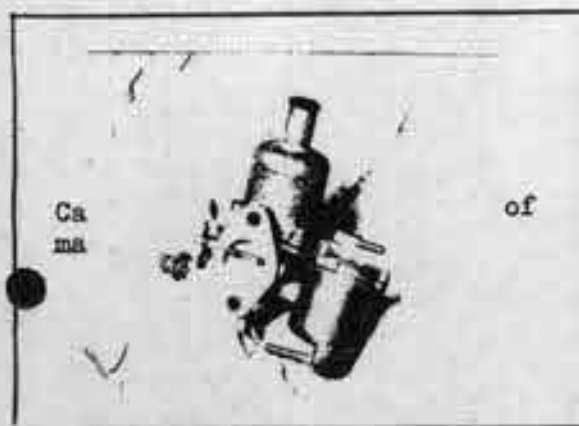
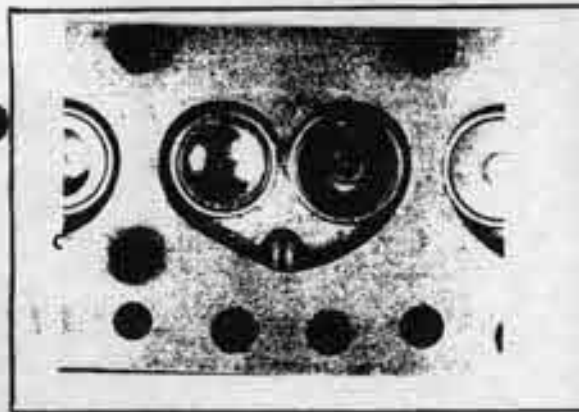
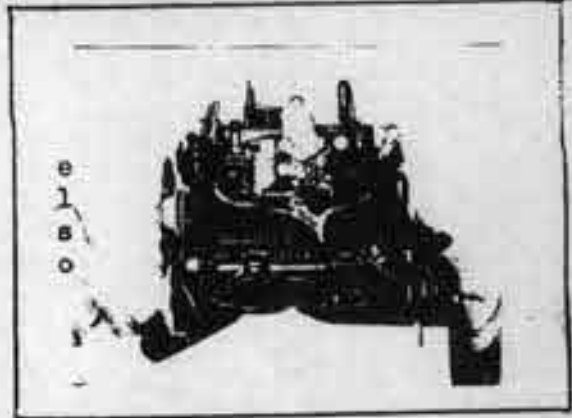
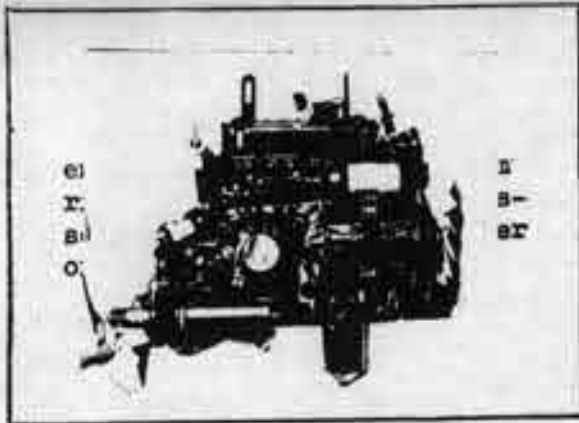


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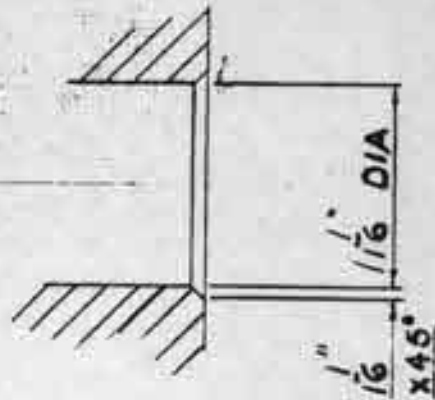


I

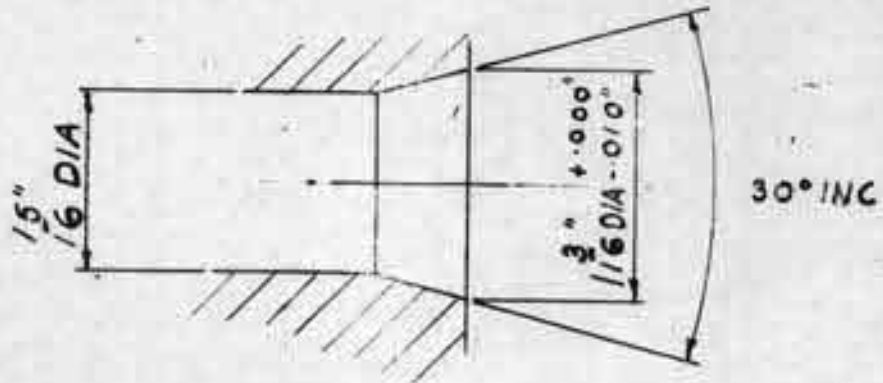




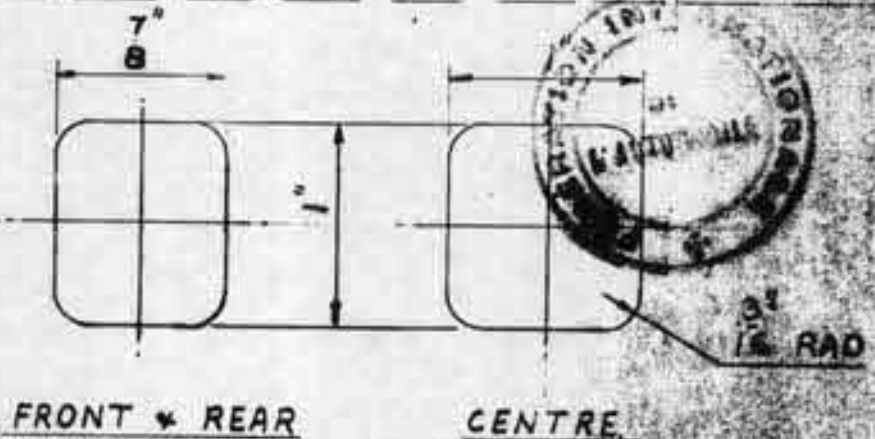
ing inlet manifold
side of cylinder-
head. Indicate scale or
dimensions and manufact-
uring tolerance.



of entrance to
port of cylinder-
head. Indicate scale or
dimensions and manufact-
uring tolerance.



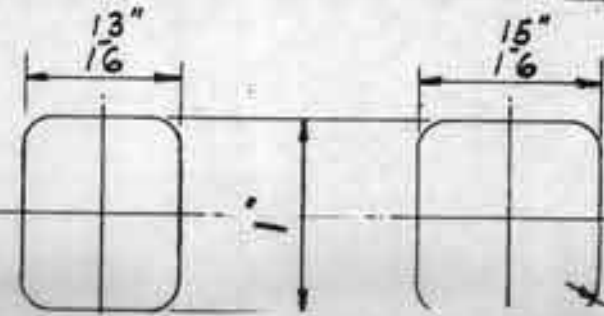
of exhaust man-
ifold ports, side of
cylinder head. Indicate
scale or dimensions and
manufacturing tolerance.



FRONT & REAR

CENTRE

ing of exit to
cylinder head. Indicate
scale or dimensions
and manufacturing
tolerance.

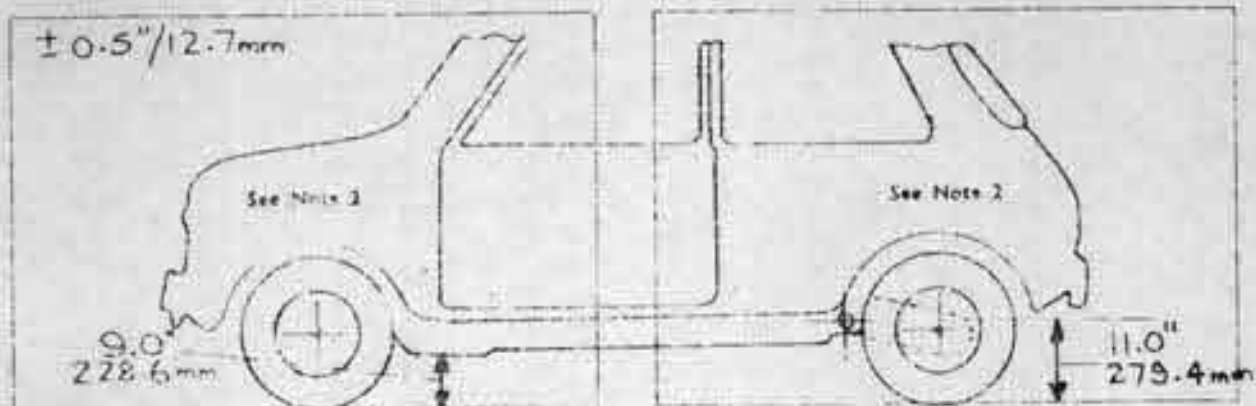


NOTE 1.

All dimensions must be given in two measuring systems, see Note 1

CAPACITIES AND DIMENSIONS

- | | | | | |
|---|--------|-----|--------|--------|
| 1. Wheelbase | 2036.0 | mm. | 80.15 | inches |
| 2. Front track (± 6.35 mm / 0.25") | | | | |
| | 1205.0 | mm. | 47.437 | inches |
| 3. Rear track (± 6.35 mm / 0.25") | | | | |
| | 1165.0 | mm. | 45.875 | inches |



- | | | | | |
|--|-------|-------|------------|--------|
| 4. Overall length of the car | 305.5 | cm. | 120.25 | inches |
| 5. Overall width of the car | 141.0 | cm. | 55.5 | inches |
| 6. Overall height of the car | 135.0 | cm. | 53.0 | inches |
| 7. Capacity of fuel tank (reserve included) | 25 | ltrs. | gall. U.S. | 5.5 |
| 8. Seating Capacity | 4 | | | |
| 9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools | 606 | kg. | 1334.0 | lbs. |



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 inch/pouce	— 2.54	cm.	1 quart U.S.	— 0.9464	ltrs.
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	ltrs.
1 cubic inch/pouce cube	— 16.267	cm. ³	1 gallon U.S.	— 3.785	ltrs.
1 pound/livre (lb)	— 453.593	gr.	1 hundred weight (cwt.)	— 50.802	kg.

Make Austin

Model Austin Mini

F.I.A. Rec.no. 5027

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction : ~~separate~~ / unitary construction

21. Unitary construction, material(s) Steel

SEPARATE CONSTRUCTION - MATERIALS

22. Chassis

23. Coachwork

24. Number of doors 2 Material(s) Steel

25. Bonnet Steel 26. Boot Lid Steel

27. Rear Window Safety glass 28. Windscreen Toughened or laminated glass

29. Front door windows Safety glass 30. Rear door windows

31. Sliding system of door windows Horizontal channels

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

ACCESSORIES AND UPHOLSTERY

38. Interior heating : yes - ~~no~~ 39. Air conditioning : ~~yes~~ - no

40. Ventillation : yes - ~~no~~

41. Front seats, type of upholstery Leathercloth

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

7.27 kg. 16.0 lbs.

43. Rear seats, type of upholstery Leathercloth

44. Front bumper, material(s) Steel Weight 2.15 kg.

45. Rear bumper, material(s) Steel Weight 2.15 kg.

WHEELS

50. Type Ventilated disc

51. Weight (per wheel, without tyre) 3.175 kg.

52. Method of attachment 4 studs

53. Rim diameter 254.0 mm. 10.0 ins.

54. Rim width 88.9 mm. 3.9 ins.

STEERING

60. Type Rack & Pinion

61. Servo-assistance : ~~yes~~ - no

62. Number of turns of steering wheel from lock to lock 2.33

63. In case of servo-assistance.



Make Austin

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SUSPENSION

70. Front suspension (photograph D), type Independent
71. Type of spring Hydrolastic displacer unit
72. Stabiliser (if fitted)
73. Number of shock absorbers 2 74. Type Incorporated in hydrolastic unit
78. Rear suspension (photograph E), type Independent
79. Type of spring Hydrolastic displacer unit
80. Stabiliser (if fitted)
81. Number of shock absorbers 2 82. Type Incorporated in hydrolastic unit

BRAKES (photographs F and G)

90. Method of operation Hydraulic
91. Servo-assistance (if fitted), type
92. Number of hydraulic master cylinders 1

	FRONT	REAR
93. Number of cylinders per wheel	2	1
94. Bore of wheel cylinder(s)	20.32 mm. 0.8 inches	15.87 mm. 0.625 inches
Drum Brakes		
95. Inside diameter	177.8 mm. 7.0 inches	177.8 mm. 7.0 inches
96. Length of brake linings	171.5 mm. 6.75 inches	171.5 mm. 6.75 inches
97. Width of brake linings	38.1 mm. 1.5 inches	31.75 mm. 1.25 inches
98. Number of shoes per brake	2 mm. inches	2 mm. inches
99. Total area per brake	13070.0 mm ² 20.25 sq.in.	10840.0 mm ² 16.8 sq.in.
Disc Brakes		
100. Outside diameter	mm. inches	mm. inches
101 Thickness of disc	mm. inches	mm. inches
102 Length of brake linings	mm. inches	mm. inches
103 Width of brake linings	mm. inches	mm. inches
104 Number of pads per brake		
105 Total area per brake	mm ² sq.in.	mm ² sq.in.



ENGINE (photographs J and K)

130. Cycle	4 stroke	131. Number of cylinders	4
132. Cylinder Arrangement	In line		
133. Bore	62.94 mm. 2.478 in.	134. Stroke	68.26 mm. 2.687 in.
135. Capacity per cylinder		212.0	cm ³ 12.93 cu.in.
136. Total cylinder capacity		848.0	cm ³ 51.7 cu.in.
137. Material(s) of cylinder block	Cast iron		
138. Material(s) of sleeves (if fitted)	Cast iron		
139. Cylinder head, material(s)	Cast iron	Number fitted	1
140. Number of inlet ports	2	141. Number of exhaust ports	3
Compression ratio	8.3:1		
143. Volume of one combustion chamber		24.5	cm ³ 1.49 cu.in.
144. Piston, material	Aluminium alloy	145. Number of rings	4
146. Distance from gudgeon pin centre line to highest point of piston crown		38.05	mm. 1.498 in.
147. Crankshaft : moulded / Stamped		148. Type of crankshaft :	integral/.Yes....
149. Number of crankshaft main bearings	3		
150. Material of bearing cap	Cast iron		
151. System of lubrication :	dry-sump / oil in sump		
152. Capacity, lubricant	4.83 ltrs. 8.5 pts.		Quarts U.S.
153. Oil cooler : yes / no		154. Method of engine cooling	Pressurised water
155. Capacity of cooling system	3.55ltrs. 6.25 pts.		quarts U.S.
156. Cooling fan (if fitted) dia.		26.5	cm. 10.4 in.
Number of blades of cooling fan	16		
Bearings			
58. Crankshaft main, type		Dia. 44.46/44.47	mm. 1.7505/1.751 in.
59. Connecting rod, big end		Dia. 40.88/40.89	mm. 1.6254/1.6259 in.
Weights			
50. Flywheel (clean)		7.64	kg. 16.812 lbs.
51. Flywheel with clutch (all turning parts)		11.56	kg. 25.44 lbs.
52. Crankshaft	8.52 kg. 18.75 lbs.	163. Connecting rod	0.69 kg. 1.53 lbs.
4. Piston with rings and pin		0.28	kg. 0.625 lbs.



FOUR STROKE ENGINES

170. Number of camshafts 1 171. Location Cylinder block
 172. Type of camshaft drive Roller chain
 173. Type of valve operation OHV pushrod
 INLET (see page 4)*
180. Material(s) of inlet manifold Cast iron
 181. Diameter of valves 27.8 mm. 1.09 ins.
 182. Max. valve lift 7.14 mm. 0.28 in. 183. Number of valve springs 1
 184. Type of spring Coil 185. Number of valves per cylinder 1
 186. Tappet clearance for checking timing (cold) 0.3 mm. 0.012 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 Combined air cleaner /silencer

EXHAUST (see page 4)

195. Material(s) of exhaust manifold Cast iron
 196. Diameter of valves 25.4 mm. 1.00 ins.
 197. Max. valve lift 7.14 mm. 0.28 in. 198. Number of valve springs 1
 199. Type of spring Coil 200. Number of valves per cylinder 1
 201. Tappet clearance for checking timing (cold) 0.3 mm. 0.012 ins.
 202. Valves open at (with tolerance for tappet clearance indicated) 40° BBDC
 203. Valves close at (with tolerance for tappet clearance indicated) 10° ATDC

CARBURETION (photograph N)

210. Number of carburetors fitted 1 211. 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 31.75mm.
 216. ~~Minimum diameter of venturi~~/minimum diam, with piston at maximum height
 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 supercharged engines see page 37

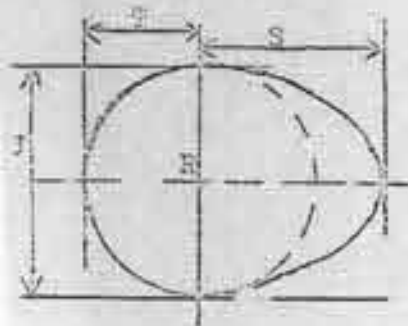


ENGINE ACCESSORIES

- 230. Fuel pump : ~~mechanical and/or~~ electric.
- 231. No.fitted 1
- 232. Type of ignition system HT coil
- 233. No. of distributors 1
- 234. No. of ignition coils 1
- 235. No. of spark plugs per cylinder 1
- 236. Generator, number fitted 1
- 237. Method of drive Wedge belt
- 238. Voltage of generator 12 volts.
- 239. Battery, number 1
- 240. Location Luggage compartment
- 241. Voltage of battery 12 volts

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

- 50. Max. engine output 34 (type of horsepower: BHP) at 5,500 rpm
- 51. Max. rpm output at that figure
- 52. Max torque 44 ft. lb. at 2900 rpm
- 53. Max speed of the car 120.7 km/hour 75.0 miles/hour



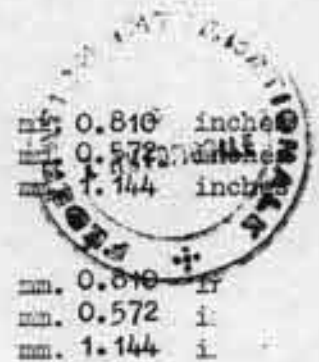
R = centre of camshaft.

Inlet cam

S = 20.57
T = 14.53
U = 29.06

Exhaust cam

S = 20.57
T = 14.53
U = 29.06



Make Austin

Model Austin Mini

F.I.A. Rec.no. 5027

DRIVE TRAIN

CLUTCH

- 260. Type of clutch Disphragm spring
- 261. No of plates 1
- 262. Dia. of clutch plates 18.0 cm. 7.125 ins..
- 263. Dia. of linings, inside 13.34 cm. 5.25 ins.
- outside 18.0 cm. 7.125 ins.
- 264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

- 270. Manual type, make BMC
- 271. No. of gear-box ratios forward 4
- 272. Synchronized forward ratios 3
- 273. Location of gear-shift Central in front of 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	3.627	$\frac{28}{19} \times \frac{32}{13}$	2.69	:	2.57	$\frac{23}{22} \times \frac{32}{13}$:	:
2	2.172	$\frac{28}{19} \times \frac{28}{19}$	1.845	:	1.72	$\frac{23}{22} \times \frac{28}{17}$:	:
3	1.412	$\frac{28}{19} \times \frac{23}{24}$	1.46	:	1.25	$\frac{23}{22} \times \frac{24}{20}$:	:
4	1.0:1	:	1.0:1	:	1.0:1	:	:	:
5								
6								
re- verse	3.627	$\frac{28}{19} \times \frac{32}{18} \times \frac{18}{13}$	2.69	:	2.57	$\frac{23}{22} \times \frac{18}{15} \times \frac{32}{18}$:	:

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

FINAL DRIVE

- 290. Type of final drive Helical spur gear
- 291. Type of differential Bevel
- 292. Type of limited slip differential (if fitted)
- 293. Final drive ratio 3.765:1 { 3.27
- Number of teeth 64/17 { 72/22

AUTOMATIC ONLY



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, 184, 186, 187, 188, 189, 199, 201, 202, 203, 212, 213, 215, 216, 222, 225, 230, 250, 251, 252, 253, and photographs I, H and N.

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.

293. Final drive ratio 4.133:1
Number of teeth - 62/15

*5000 samples
otherwise
group C*





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

Manufacturer B.M.C.
Model Austin Mini
F.I.A. Recognition No. 5027
Amendment No. 1

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. Reference No.

OPTIONAL EQUIPMENT

- | | |
|----|--|
| 1. | Supplementary fuel tank - 5½ gall. |
| 2. | Camshaft gear. |
| 3. | Crankshaft pulley-damper |
| 4. | Final drive ratios - 3.44 3.9 4.26 4.35 |

Date amendment is valid from.....

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