

F.I.A. Rec. No 5028
 Group 1 Series Production
 AD050S/66 Touring

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

British Motor Corporation in Manufacturer: assoc. with Cooper Car Co.	Cylinder-capacity.....1275.....cm ³77.9.....in ³
Serial No. of chassis.....K/A284 & C/A2S7	Model.....Austin/Morris Mini Cooper "S".....
engine.....9F-SA-I.....	Manufacturer.....British Motor Corporation.....
Recognition is valid from.....1st Jun. 66	Manufacturer.....British Motor Corporation.....
	List.....14.....

The manufacturing of the model described in this recognition form was started on
7.12.....1964* and the minimum production of.....5000.....identical cars,
 in accordance with the specifications of this form was reached on.....3.12.....1965

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



F.I.A. Stamp



R.A.C. Stamp

BMC

No. 5025

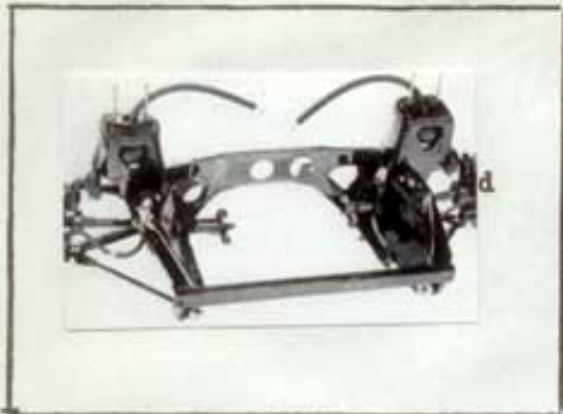
Model Mini Cooper "S"
1275

F.I.A. Rec.no.



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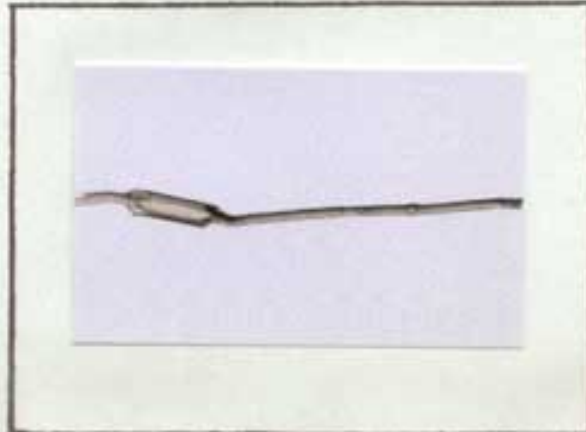
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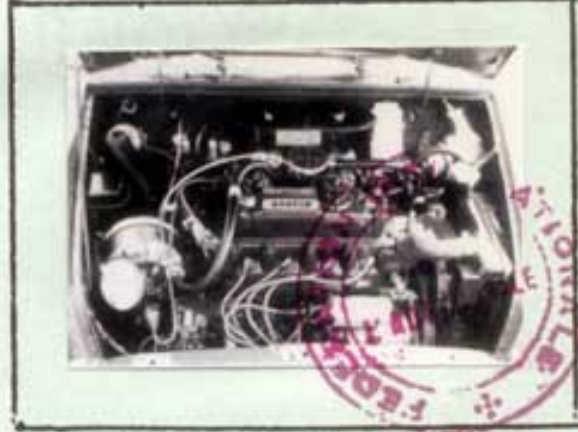
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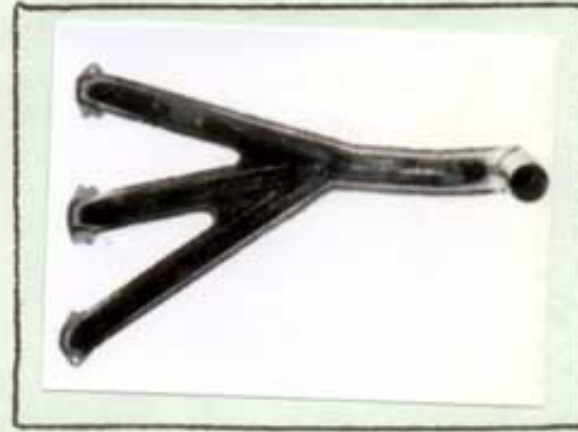


Car
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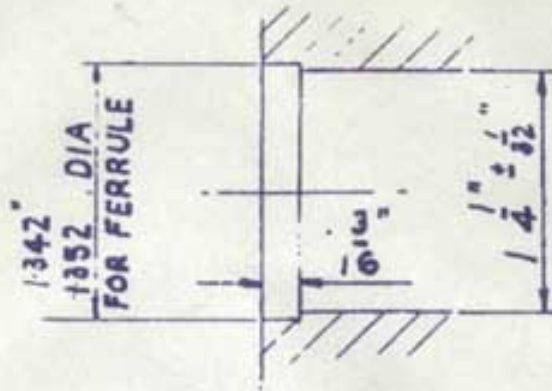
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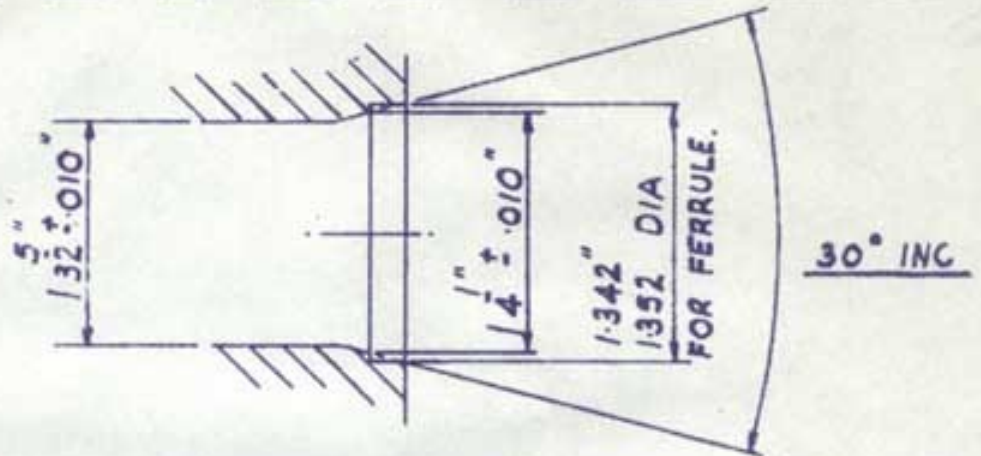
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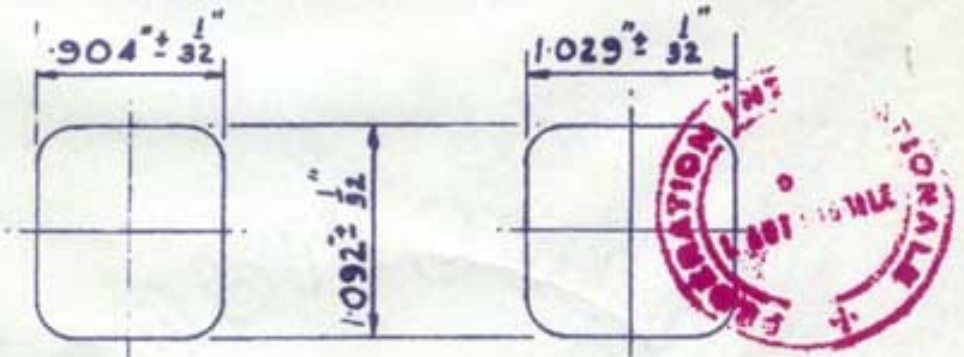
Drawing inlet manifold ports, side of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



Drawing of entrance to inlet port of cylinder-head. Indicate scale or dimensions and manufacturing tolerance.



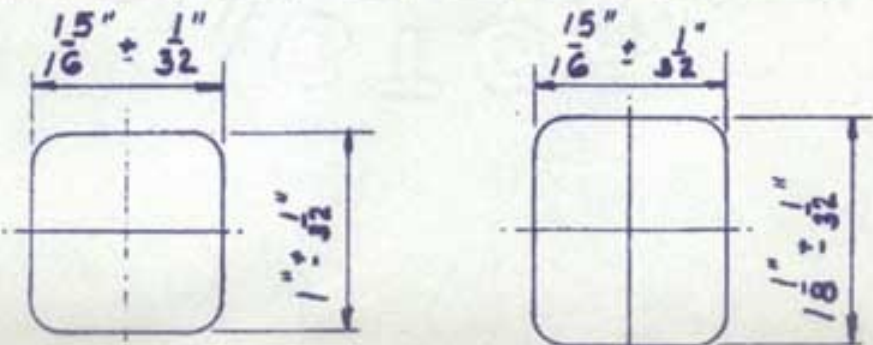
ring of exhaust manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



FRONT & REAR

CENTRE

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

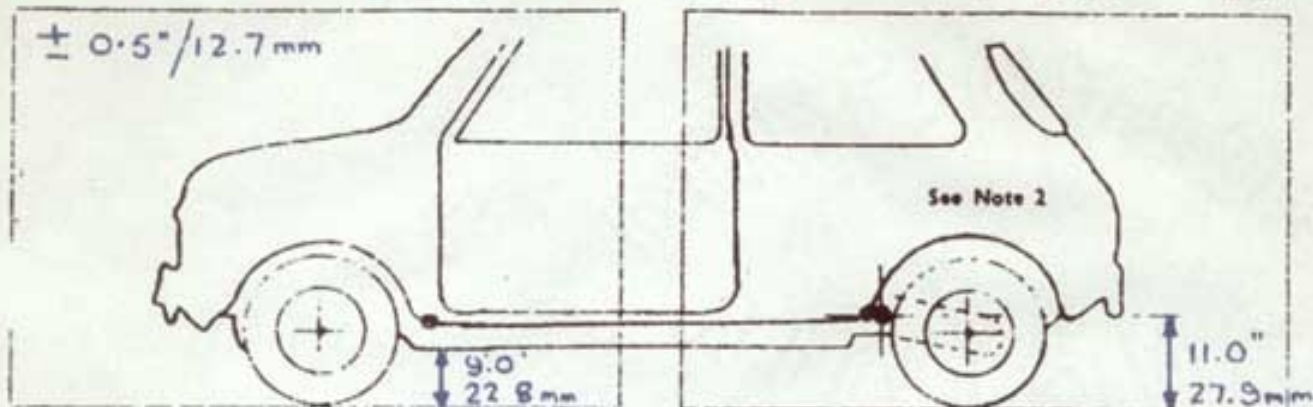


Make MG Model Mini Cooper "S" 1275 F.I.A. Rec. No. _____NOTE 1.

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

CAPACITIES AND DIMENSIONS

1. Wheelbase	2036.0	80.15	inches
2. Front track (± 6.35 mm/0.25")	3. Rear track (± 6.35 mm/0.25")		
1222.4	mm.	48.125	inches
		1176.0	mm.
		46.31	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)				
For Group 2 Only	50.0	gall. U.S.	11.0	gall. Imp.
For Group 1 Only	25.0	ltrs.	5½	"
8. Seating Capacity.				
9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel repair tools:	651.0	kg.	1435.0	lbs.

NOTE 2.

Differences in track caused by the use of other wheels with different rim widths must be noted 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 US	-- 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	-- 16.387	cm. ³	1 gallon US	-- 3.785	ltrs.
1 pound/livre (lb)	-- 453.593	gr.	1 hundred weight (cwt.)	-- 50.902	kg.

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction : ~~separate~~ / unitary construction
 21. Unitary construction, material(s) All steel

SEPARATE CONSTRUCTION - MATERIALS

- | | |
|--|---|
| 22. Chassis | 23. Coachwork |
| 24. Number of doors 2 | Material(s) All 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 |
| Sliding system of door windows Horizontal channels | |
| 31. 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. each

- | | |
|-------------------------------------|---------------------------|
| 43. Rear seats, type of upholstery | Leathercloth |
| 44. Front bumper, material(s) Steel | Weight 2.15 kg. 4.75 lbs. |
| 45. Rear bumper, material(s) Steel | Weight 2.15 kg. 4.75 lbs. |

WHEELS

- | | |
|--------------------------------------|---------------------|
| 50. Type | Pressed steel |
| 51. Weight (per wheel, without tyre) | 3.52 kg. 7.75 lbs. |
| 52. Method of attachment | 4 studs |
| 53. Rim diameter | 254.0 mm. 10.0 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 2.33
 63. In case of servo-assistance.



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. Incorporated in displacer 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 displacer unit

BRAKES (photographs F and G)

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

	FRONT		REAR	
93. Number of cylinders per wheel	2		1	
94. Bore of wheel cylinder(s)	44.45 mm.	1.75 inches	15.875 mm.	0.625 inches
Drum Brakes				
95. Inside diameter	mm.	inches	177.8 mm.	7.0 inches
96. Length of brake linings	mm.	inches	171.5 mm.	6.75 inches
97. Width of brake linings	mm.	inches	31.75 mm.	1.25 inches
98. Number of shoes per brake	mm.	inches	mm.	inches
99. Total area per brake	mm ²	sq.in.	1088 mm ²	16.8 sq.in.
Disc Brakes				
100. Outside diameter	190.5 mm.	7.5 inches	mm.	inches
101 Thickness of disc	9.52 mm.	0.375 inches	mm.	inches
102 Length of brake linings approx	69.85 mm.	2.75 inches	mm.	inches
103 Width of brake linings approx	42.85 mm.	1.68 inches	mm.	inches
104 Number of pads per brake	2			
105 Total area per brake	5575.0 mm ²	8.64 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	70.63 mm. 2.78 in.	134. Stroke	81.33 mm. 3.2 in.
135. Capacity per cylinder			318.7 cm ³ 19.4 cu.in.
136. Total cylinder capacity			1275 cm ³ 77.9 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		1
140. Number of inlet ports	2	141. Number of exhaust ports	3
142. Compression ratio	9.75:1		
143. Volume of one combustion chamber		21.4 cm ³	1.30 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		37.91/38.03 mm.	1.492/1.496 in.
147. Crankshaft :	moulded / Stamped	148. Type of crankshaft :	integral/.....
149. Number of crankshaft main bearings	3		
150. Material of bearing cap	S.G. iron		
151. System of lubrication :	dry sump / oil in sump		
152. Capacity, lubricant	5.11 ltrs. 9 pts.		Quarts U.S.
153. Oil cooler : yes / no		154. Method of engine cooling	Pressurised
155. Capacity of cooling system	2.98 ltrs. 5.25 pts.		Quarts U.S.
156. Cooling fan (if fitted) dia.		26.51	
157. Number of blades of cooling fan	16		
Bearings			
158. Crankshaft main, type	Thin wall	Dia.	50.82 mm.
159. Connecting rod, big end	Thin wall	Dia.	41.29 mm.
Weights			
160. Flywheel (clean)		7.30	16.25 lbs.
161. Flywheel with clutch (all turning parts).		11.89	
162. Crankshaft	11.43 kg. 25.25 lbs.	163. Connecting rod	
164. Piston with rings and pin		0.55	

FOUR STROKE ENGINES

170. Number of camshafts 1 171. Location Cylinder block
 172. Type of camshaft drive Duplex chain
 173. Type of valve operation OHV Pushrod & rocker
- INLET (see page 4)*
180. Material(s) of inlet manifold Aluminium alloy
 181. Diameter of valves 35.59/35.71 mm. 1.401/1.406 ins.
 182. Max. valve lift 7.62 mm 0.300 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) 0.53 mm. 0.021 ins.
 187. Valves open at (with tolerance for tappet clearance indicated) 10° BTDC
 188. Valves close at (with tolerance for tappet clearance indicated) 50° ABDC
 189. Air filter, type Replaceable paper element

EXHAUST (see page 4)

195. Material(s) of exhaust manifold Steel pressing
 196. Diameter of valves 30.86/30.96 mm. 1.214/1.219 ins.
 197. Max. valve lift 8.10 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) 0.53 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 BS2
 214. Number of mixture passages per carburettor 1
 215. Flange hole diameter of exit port(s) of carburettor 31.75 mm.
 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 super-charged engines, see page 13.



BMC

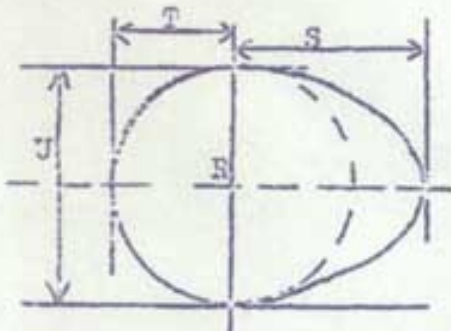
Model Mini Cooper "S" F.I.A. Rec.no.
1275

ENGINE ACCESSORIES

230. Fuel pump : electric.
231. No. fitted 1
232. Type of ignition system HF 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)

250. Max. engine output 75 (type of horsepower: BHP) at rpm
251. Max. rpm output at that figure
252. Max torque 80 lb. ft at 3000 rpm
253. Max speed of the car 152.9 km/hour 95.0 miles/hour

R = centre of
camshaft.Inlet cam

S = 20.37

T = 13.97

U = 26.17

Exhaust cam

S = 20.55

T = 13.79

U = 27.69

mm. 0.809 inches

mm. 0.543 inches

mm. 1.09 inches

mm. 0.809 inches

mm. 0.543 inches

mm. 1.09 inches

Make BMC

Model Mini Cooper "S"
1275

F.I.A. Rec.no.

DRIVE TRAIN

CLUTCH

260. Type of clutch Diaphragm spring 261. No of plates 1
262. Dia. of clutch plates 18.1 cm. 7.125 ins..
263. Dia. of linings, inside 13.34 cm. 5.25 ins.
outside 18.1 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
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	3.2	$\frac{26}{20} \times \frac{32}{13}$			2.57	$\frac{23}{22} \times \frac{32}{13}$		
2	1.916	$\frac{26}{20} \times \frac{28}{19}$			1.72	$\frac{23}{22} \times \frac{28}{17}$		
3	1.357	$\frac{26}{20} \times \frac{24}{23}$			1.25	$\frac{23}{22} \times \frac{24}{20}$		
4	1.0:1				1.0:1			
5								
6								
Reverse	3.2	$\frac{26}{20} \times \frac{18}{15} \times \frac{32}{18}$			2.57	$\frac{23}{22} \times \frac{18}{15} \times \frac{32}{18}$		

78. Overdrive, 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 pinion
292. Type of limited slip differential (if fitted)
293. Final drive ratio 3.44:1
Number of teeth 62/18



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, M 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 26/1/1966 rec.no. 5028/ly List 2 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 - 15/62

Alternative heavy duty export suspension:-

- 71. Hydrolastic displacer unit - Part Number C-21A, 1819
- 79. Hydrolastic displacer unit - Part Number C-21A, 1821

