

F.I.A. Recognition No. 3028
Group IV

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

Manufacturer <u>Lotus Cars Ltd.</u>	Cylinder-capacity <u>1470</u> cm. ³ <u>89.71</u> in. ³
Serial No. of chassis/body <u>46/001 onwards</u>	Model <u>Europa : Europe</u>
Serial No. of engine <u>0001 onwards</u>	Manufacturer <u>Lotus Cars Ltd.</u>
Recognition is valid from <u>1/7/70</u>	Manufacturer <u>Renault Ltd.</u>
	List <u>70/7</u>

The manufacturing of the model described in this recognition form started on 9th January 19 69
and the minimum production of 1000 identical cars, in accordance with the specifications of
this form was reached on 11th September 19 69

Photograph A, ¾ view of car from front



F.I.A. Stamp

R.A.C. Stamp



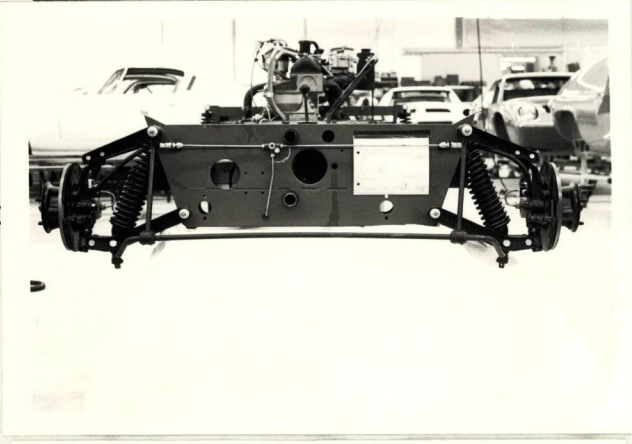
B



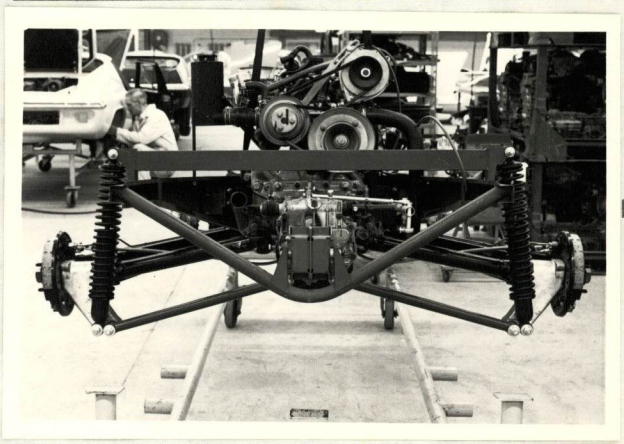
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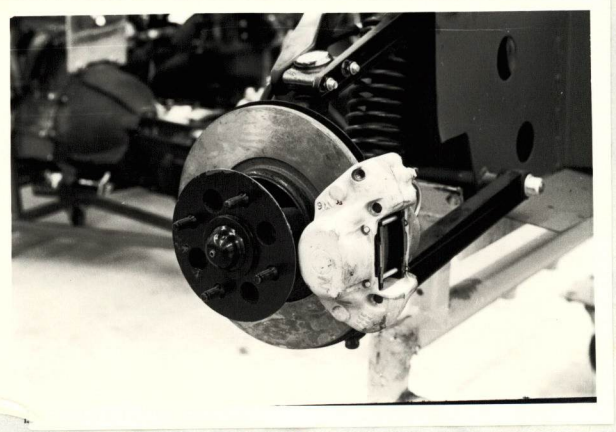
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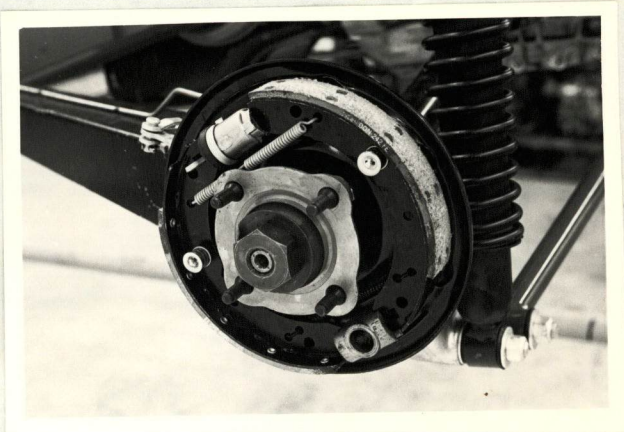
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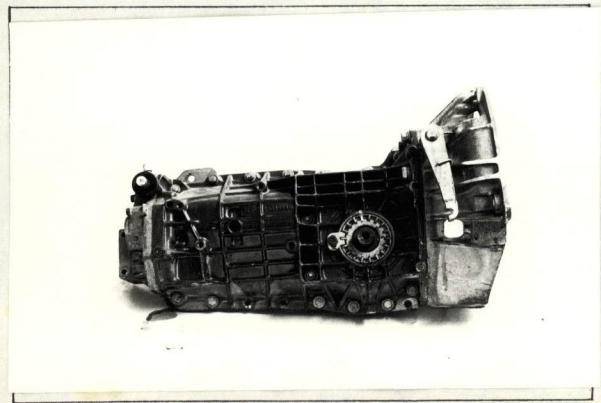
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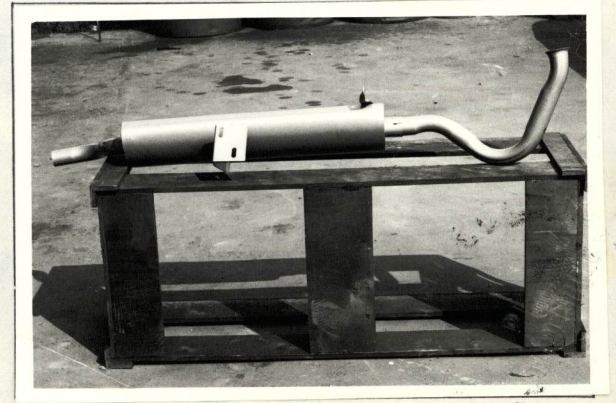
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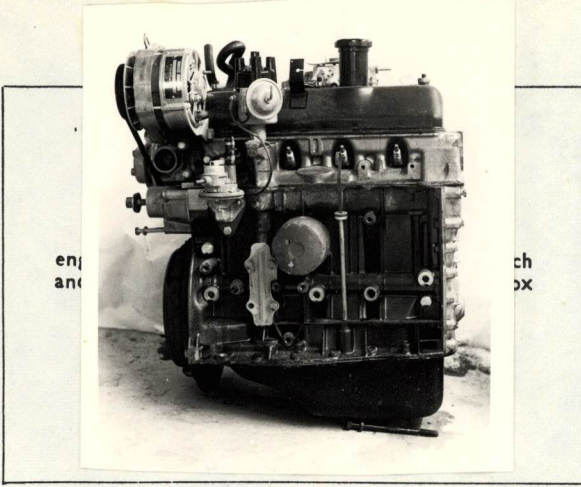


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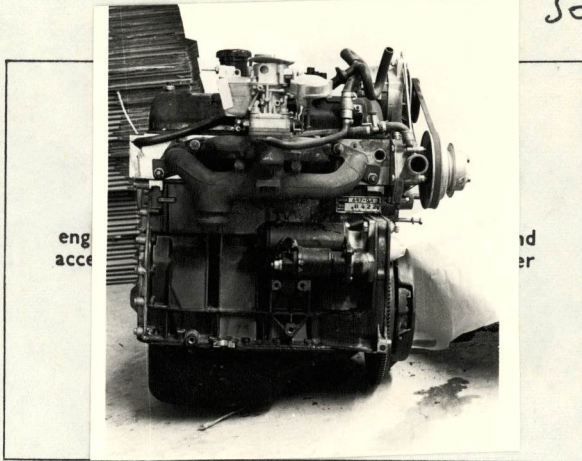
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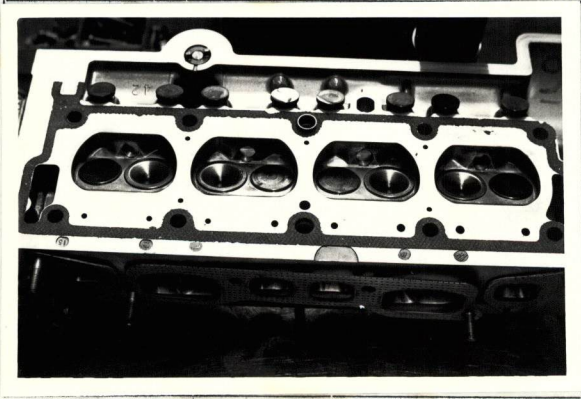
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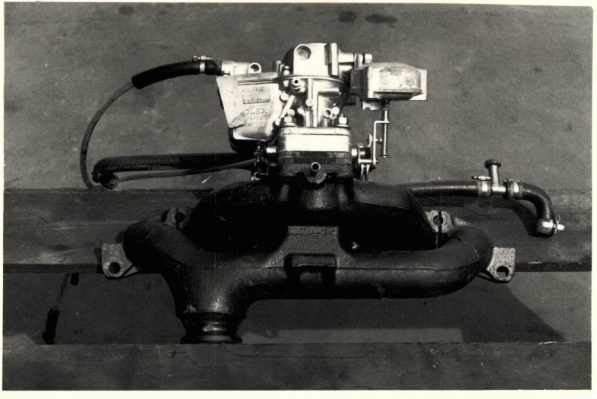
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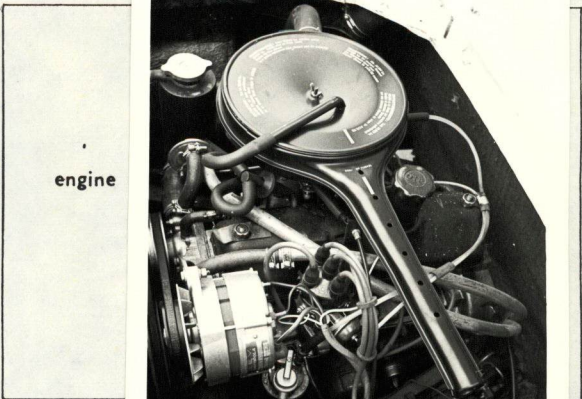
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M

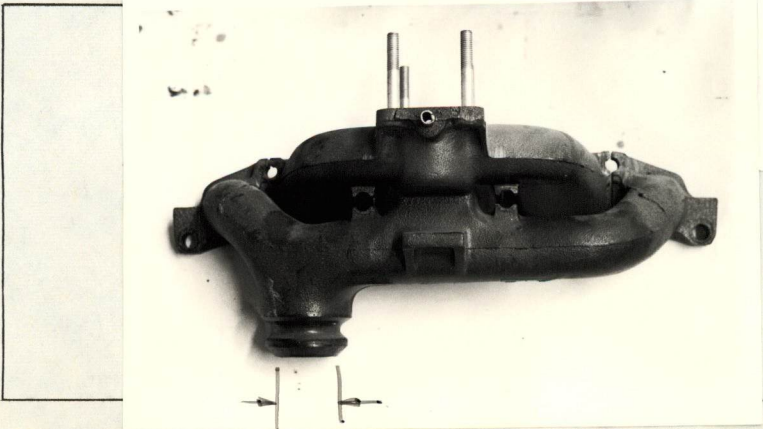


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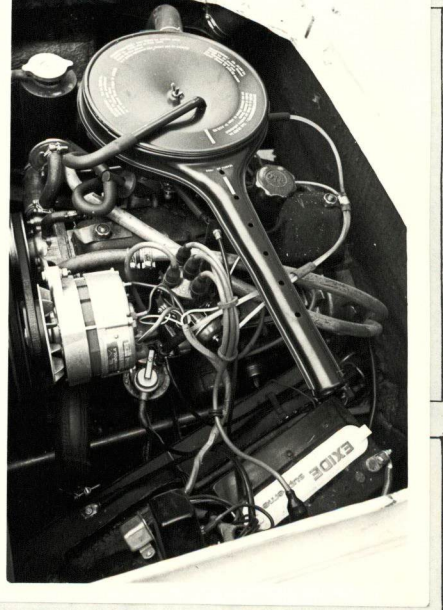


engine

O



P



exhaust manifold

Q



33mm / 1.30"

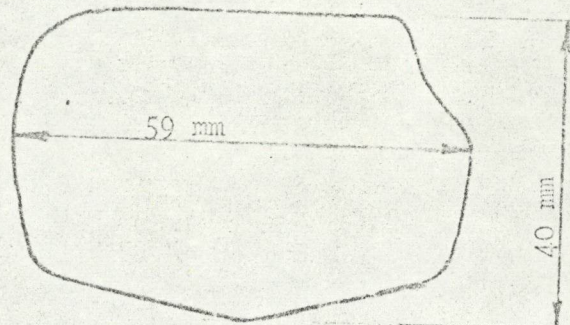
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Make..... LOTUS

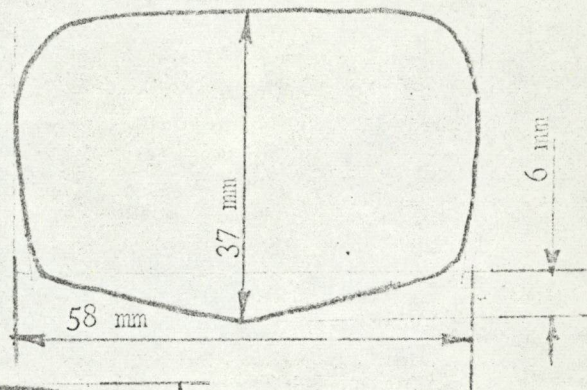
Model..... EUROPA

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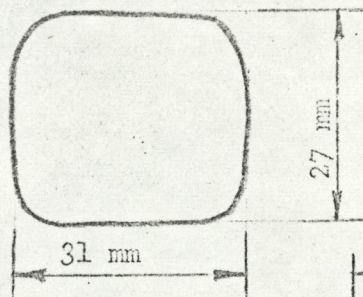
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



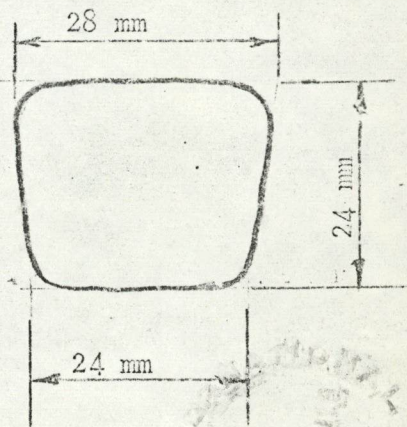
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



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.



Scale Full size

Casting tolerances for all parts ± 1 mm

NOTE 1.

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

CAPACITIES AND DIMENSIONS

- | | | | | |
|----------------|------|-----|-------|--------|
| 1. Wheelbase | 2311 | mm. | 90.98 | inches |
| 2. Front track | | | | |
| | 1346 | mm. | 53 | inches |
| 3. Rear track | 1346 | mm. | 53 | inches |

Ground Clearance Under Chassis Front Section Between Wishbones is 6.5 ins; 16.55 cm

See Note 2

See Photograph D

Ground Clearance Under Lowest Point of Gearbox Mounting Cross Member is 6.75 ins; 17.15 cm

See Note 2

See Photograph E

- | | | | | | |
|--|--------|-------|------------|--------|------------|
| 4. Overall length of the car | 399.42 | cm. | 157.25 | inches | |
| 5. Overall width of the car | 163.8 | cm. | 64.48 | inches | |
| 6. Overall height of the car | 107.9 | cm. | 42.48 | inches | |
| 7. Capacity of fuel tank (reserve included) | 32 | ltrs. | gall. U.S. | 7.039 | gall. Imp. |
| 8. Seating Capacity. | 2 | | | | |
| 9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools : | 614.62 | kg. | 1355 | lbs. | 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 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.)	— 50.802	kg.

CHASSIS AND COACHWORK (Photographs A, B and C)

- | | |
|--|--------------------------------------|
| 20. Chassis/body construction: separate/unitary construction | Separate |
| 21. Unitary construction, material(s) | |
| 22. Separate construction, Material(s) of chassis | Steel |
| 23. Material(s) of coachwork | Glass Fibre Reinforced Plastic |
| 24. Number of doors 2 Material(s) | Glass Fibre Reinforced Plastic |
| 25. Material(s) of bonnet | Glass Fibre Reinforced Plastic |
| 26. Material(s) of boot lid | Glass Fibre Reinforced Plastic |
| 27. Material(s) of rear-window | 'Triplex' Toughened |
| 28. Material(s) of windscreen | 'Triplex' Laminated |
| 29. Material(s) of front-door windows | Glass |
| 30. Material(s) of rear-door windows | N/A |
| 31. Sliding system of door windows | Electrically operated Vertical Slide |
| 32. Material(s) of rear-quarter light | N/A |

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 | Individual Leathercloth |
| 42. Weight of front seat(s), complete with supports and rails, out of the car : | 9.52kg. | 21 lbs. |
| 43. Rear seats, type of seat and upholstery | None | |
| 44. Front bumper, material(s) Weight | 2.04kg. | 4½ lbs. |
| 45. Rear bumper, material(s) Weight | 2.49kg. | 5½ lbs. |

WHEELS

- | | | |
|--------------------------------------|----------------|-------------------------|
| 50. Type | Disc (steel) | |
| 51. Weight (per wheel, without tyre) | 5.22 kg. | 11½ lbs. |
| 52. Method of attachment | Bolt-on 4 stud | |
| 53. Rim diameter 330.2 mm. | 13 ins. | 54. Rim width 114.3 mm. |
| | | 4½ ins. |

STEERING

- | | |
|---|---------------------|
| 60. Type | Rack and pinion |
| 61. Servo-assistance : | yes — no |
| 62. Number of turns of steering wheel from lock to lock | 2¼ |
| 63. In case of servo-assistance | N/A |



SUSPENSION

- 70. Front suspension (photograph D), type **Independent. Unequal length wishbones combined coil spring and damper unit**
- 71. Type of spring
- 72. Stabiliser (if fitted) **Anti roll bar bitted**
- 73. Number of shock absorbers **2**
- 74. Type **Telescopic**
- 78. Rear suspension (photograph E), type **Independent. Wide based forward radius arms with track controlling lower link and fixed length drive shaft. Combined coil and spring and damper unit.**
- 79. Type of spring
- 80. Stabiliser (if fitted)
- 81. Number of shock absorbers **2**
- 82. Type **Telescopic**

BRAKES (photographs F and G)

- 90. Method of operation **Hydraulic**
- 91. Servo-assistance (if fitted), type **Not fitted**
- 92. Number of hydraulic master cylinders **One**

	FRONT	REAR
93. Number of cylinders per wheel 2		
94. Bore of wheel cylinder(s)	48.01 mm. 1.89 inches	19.05 mm. 0.75 inches

Drum Brakes

95. Inside diameter	mm.	inches	203.2 mm.	8 inches
96. Length of brake linings	mm.	inches	195.5 mm.	7.7 inches
97. Width of brake linings	mm.	inches	31.75 mm.	1 1/4 inches
98. Number of shoes per brake			2	
99. Total area per brake	mm. ²	sq. in.	12.387mm. ²	19.2 sq. in.

Disc Brakes

100. Outside diameter	234.95 mm.	9.25 inches	mm.	inches
101. Thickness of disc	9.65 mm.	0.38 inches	mm.	inches
102. Length of brake linings	42 mm.	1.65 inches	mm.	inches
103. Width of brake linings	62 mm.	2.44 inches	mm.	inches
104. Number of pads per brake		2		
105. Total area per brake	6.710 mm. ²	10.4 sq. in.	mm. ²	sq. in.

Make Lotus Model Europa F.I.A. Rec. No. 3028

ENGINE (photographs J and K)

130. Cycle	4-stroke	131. Number of cylinders	4
132. Cylinder Arrangement	Vertical in-line		
133. Bore	76 mm. 2.99 in.	134. Stroke	81 mm. 3.189 in.
135. Capacity per cylinder		367.5 cm. ³	22.43 cu. in.
136. Total cylinder capacity		1470 cm. ³	89.71 cu. in.
137. Material(s) of cylinder block	Alloy	138. Material(s) of sleeves (if fitted)	Cast Iron
139. Cylinder head, material(s)	Alloy	Number fitted	One
140. Number of inlet ports	4	141. Number of exhaust ports	4
142. Compression ratio	10.25 : 1		
143. Volume of one combustion chamber	35.9 cc	cm. ³	2.191 cu. in.
144. Piston, material	Aluminium Alloy	145. Number of rings	3
146. Distance from gudgeon pin centre line to highest point of piston crown		44.45 mm.	1.750 in.
147. Crankshaft: rounded /stamped		148. Type of crankshaft: integral/.....	
149. Number of crankshaft main bearings	5		
150. Material of bearing cap	Alloy		
151. System of lubrication: dry sump /oil in sump			
152. Capacity, lubricant	4.28 ltrs. 7.54 pts.	quarts U.S.	With Filter
153. Oil cooler: yes /no		154. Method of engine cooling	Water
155. Capacity of cooling system	10 ltrs. 17.61 pts.	quarts U.S.	
156. Cooling fan (if fitted) dia.		25.4 cm.	10 in.
157. Number of blades of cooling fan	4		

Bearings

158. Crankshaft main, type	Shell	dia.	54.81 m.m.	2.158 in.
159. Connecting rod big end, type	Shell	dia.	48.01 m.m.	1.890 in.

Weights

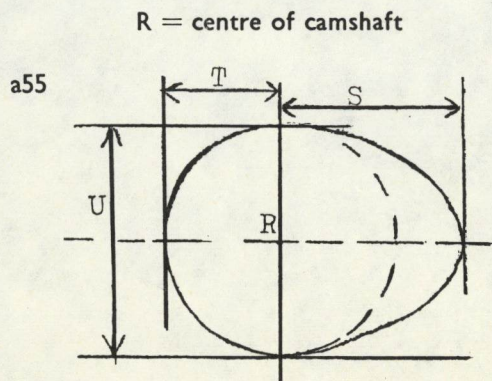
160. Flywheel (clean)		7.500 kg.	16.63 lbs.
161. Flywheel with clutch (all turning parts)		13.006 kg.	28.87 lbs.
162. Crankshaft	11.900 kg. 26.23 lbs.	163. Connecting rod	0.580kg. 1.279 lbs.
164. Piston with rings and pin		0.460kg.	1.014 lbs.

ENGINE ACCESSORIES

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

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

- 250. Max. engine output 82 (type of horsepower: S. A. E.) at 6,000 r.p.m.
- 251. Max. r.p.m. 6,500 output at that figure 80
- 252. Max. torque 11 Mkg at 4,000 r.p.m.
- 253. Max. speed of the car 186 km./hour 116 miles/hour at 6,500



Inlet cam

S =	20.5	mm.	0.807	inches
T =	14.5	mm.	0.571	inches
U =	29.1	mm.	1.146	inches

Exhaust cam

as inlet cam

S =		mm.		inches
T =		mm.		inches
U =		mm.		inches

IMPORTANT :

During the scrutineering of cars entered in group 5 (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.

Normal Manufacturers Tolerances

- + .005" General Machining
- + .030" to + .060" Fabrications