

F.I.A. Recognition No. 600

Group III - Grand 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

Manufacturer Lotus Cars Limited Cylinder-capacity 1470 cm.³ 89.71 in.³
Model Europa : Europe
Serial No. of chassis/body 46/001 onwards Manufacturer Lotus Cars Limited
Serial No. of engine 0001 onwards Manufacturer Renault Motors, Paris
Recognition is valid from 1st ~~October~~ ^{Nov.} 1968 List 1968/10
The manufacturing of the model described in this recognition form started on 1st February 1967
and the minimum production of 500 identical cars, in accordance with the specifications of
this form was reached on 1st February 1968.

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

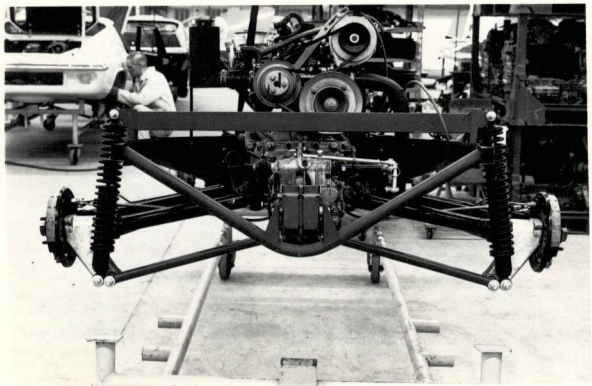
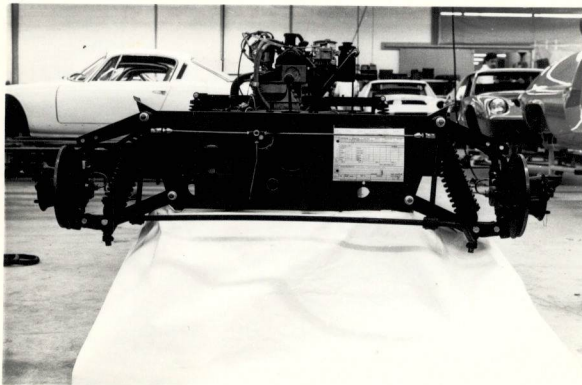


F.I.A. Stamp

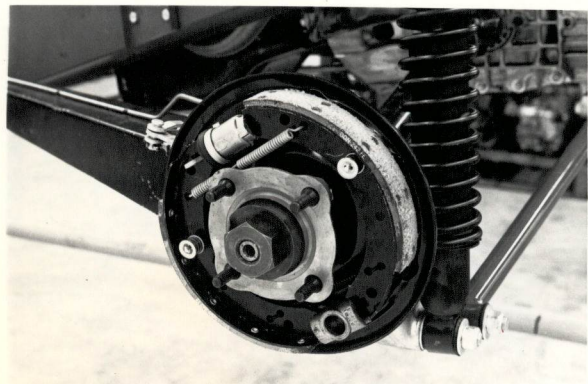
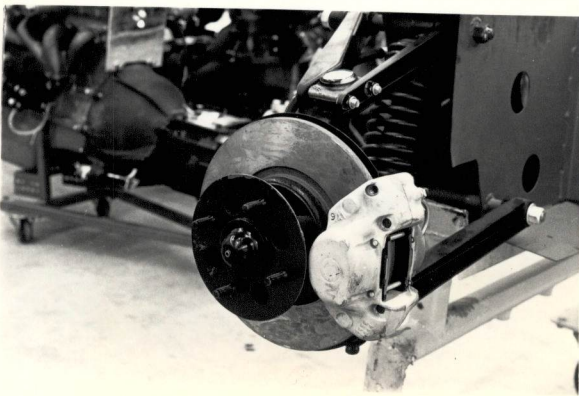
R.A.C. Stamp



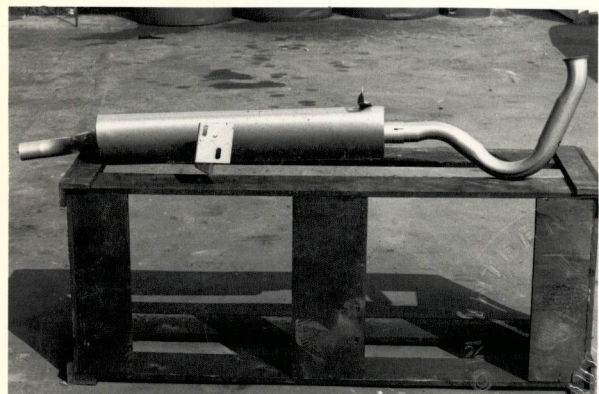
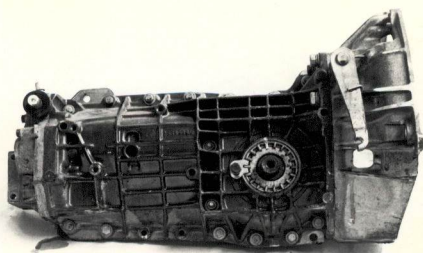
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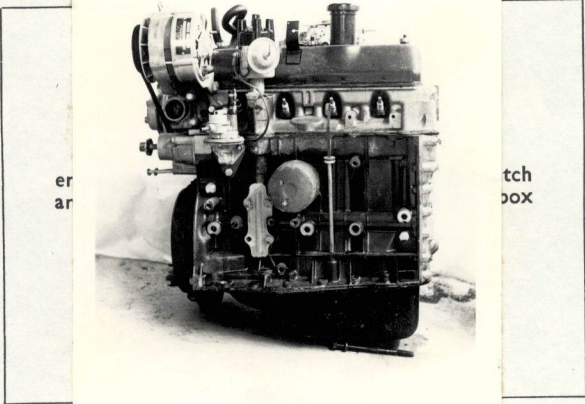


E



G

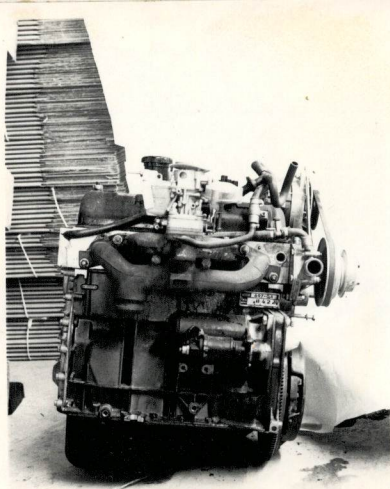




J

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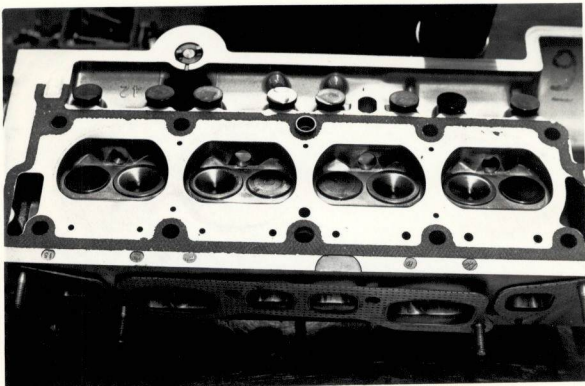
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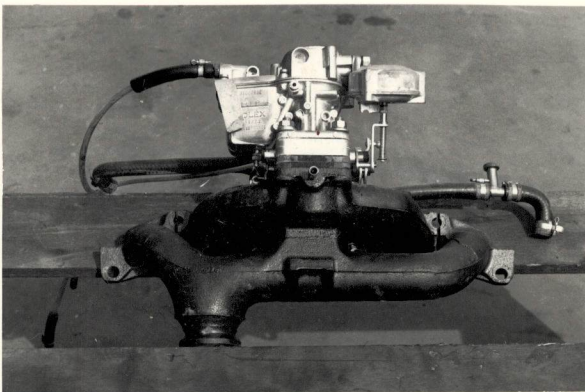
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L



M



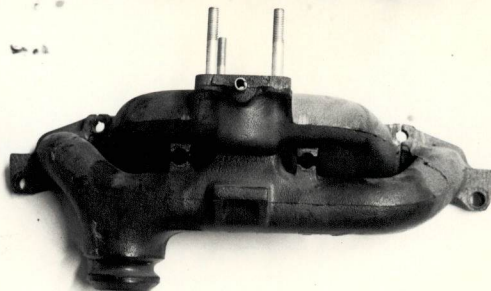
N

engine in car wi



P

in



haust manifold

Q

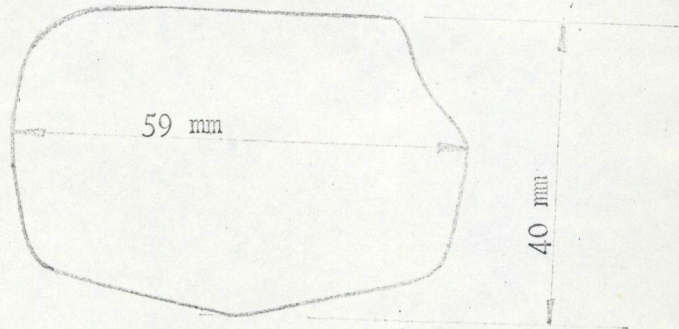
4 EXITS
31mm = 27mm

Make..... LOTUS

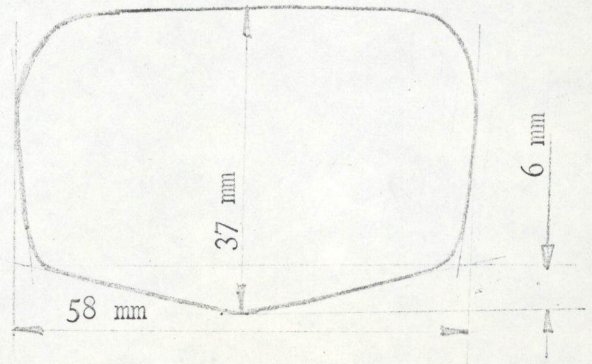
Model..... EUROPA

F.I.A. Rec. No.....

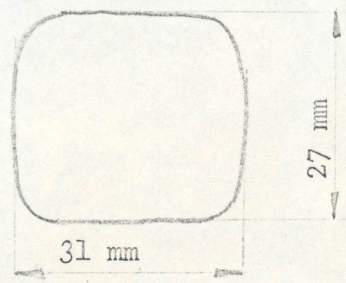
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



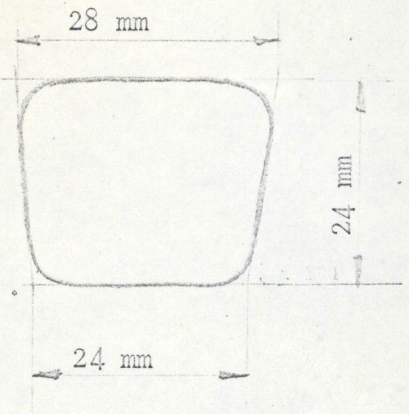
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



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 6.5ins; 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 | 153.8 | 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 | Unitary |
| 21. Unitary construction, material(s) | Steel and Fibreglass |
| 22. Separate construction, Material(s) of chassis | |
| 23. Material(s) of coachwork | Glass Fibre |
| 24. Number of doors Material(s) | 2 Glass Fibre |
| 25. Material(s) of bonnet | Glass Fibre |
| 26. Material(s) of boot lid | Glass Fibre |
| 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 | Fixed |
| 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 : | |
| | 9.52 kg. 21 lbs. |
| 43. Rear seats, type of seat and upholstery None | |
| 44. Front bumper, material(s) Weight | 2.04 kg. 4½ lbs. |
| 45. Rear bumper, material(s) Weight | 2.49 kg. 5½ lbs. |

WHEELS

- | | |
|--|---|
| 50. Type Disc | |
| 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 fitted**
- 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.**
- 79. Type of spring **Combined coil spring and damper unit.**
- 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 **None**
- 92. Number of hydraulic master cylinders **One**
- 93. Number of cylinders per wheel **2**
- 94. Bore of wheel cylinder(s) **48.01** mm. **1.89** inches

Drum Brakes

- | | | FRONT | | REAR | |
|-------------------------------|--|------------------|---------|------------------|---------|
| 95. Inside diameter | | mm. | inches | mm. | inches |
| 96. Length of brake linings | | mm. | inches | mm. | inches |
| 97. Width of brake linings | | mm. | inches | mm. | inches |
| 98. Number of shoes per brake | | | | 2 | |
| 99. Total area per brake | | mm. ² | sq. in. | mm. 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. |

ENGINE (photographs J and K)

- | | | | |
|---|------------------------------------|---|--|
| 130. Cycle | 4-stroke | 131. Number of cylinders | 4 |
| 132. Cylinder Arrangement | Vertical inline | | |
| 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 | 4 |
| 140. Number of inlet ports | 4 | 141. Number of exhaust ports | 4 |
| 142. Compression ratio | 10.25 : 1 | | |
| 143. Volume of one combustion chamber | 35.9cc | | 2.191 cm. ³ cu. in. |
| 144. Piston, material | Aluminium | 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 : moulded /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 | 0.580 kg. 1.279 lbs. |
| 164. Piston with rings and pin | | 0.460 kg. | 1.014 lbs. |

Make.....

Model.....

F.I.A. Rec. No.....

FOUR STROKE ENGINES

- | | | | |
|------------------------------|--------|---------------|------|
| 170. Number of camshafts | One | 171. Location | Side |
| 172. Type of camshaft drive | Chain | | |
| 173. Type of valve operation | O.H.V. | | |

INLET (see page 4)*

- | | | | |
|--|-------------------|------------------------------------|---------------------------|
| 180. Material(s) of inlet manifold | Iron | | |
| 181. Diameter of valves | | 35.75 mm. | 1.41 ins. |
| 182. Max. valve lift | 8.1 mm. 0.319 in. | 183. Number of valve springs | 8 |
| 184. Type of spring | Coil | 185. Number of valves per cylinder | One |
| 186. Tappet clearance for checking timing (cold) | | .315 mm. | .0124 ins. |
| 187. Valves open at (with tolerance for tappet clearance indicated) | | 35° B.B.D.C. |) tolerance not specified |
| 188. Valves close at (with tolerance for tappet clearance indicated) | | 65° B.T.D.C. | |
| 189. Air filter, type | Paper element | | |

EXHAUST (see page 4)*

- | | | | |
|--|-------------------|------------------------------------|---|
| 195. Material(s) of exhaust manifold | Iron | | |
| 196. Diameter of valves | | 31.5 mm. | 1.24 ins. |
| 197. Max. valve lift | 8.2 mm. 0.323 in. | 198. Number of valve springs | 8 |
| 199. Type of spring | Coil | 200. Number of valves per cylinder | One |
| 201. Tappet clearance for checking timing (cold) | | as inlet (as 186) | 0.155 mm. 0.0061 ins. |
| 202. Valves open at (with tolerance for tappet clearance indicated) | | 65° A.T.D.C. | |
| 203. Valves close at (with tolerance for tappet clearance indicated) | | 35° A.B.D.C. | |

CARBURETION (photograph N)

- | | | | |
|--|------|----------------|-----------------|
| 210. Number of carburettors fitted | One | 211. Type | Downdraught |
| 212. Make | Sole | 213. Model | 35 DIDSA 2 |
| 214. Number of mixture passages per carburettor | 2 | | |
| 215. Flange hole diameter of exit port(s) of carburettor | | 26;32 mm. | 1.02; 1.26 ins. |
| 216. Minimum diameter of venturi/minimum diam., with piston at maximum height (example : SU) | | 23.5; 27.0 mm. | 0.92; 1.06 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.

Make.....**LOTUS**.....

Model.....**EUROPA**.....

F.I.A. Rec. No.....

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

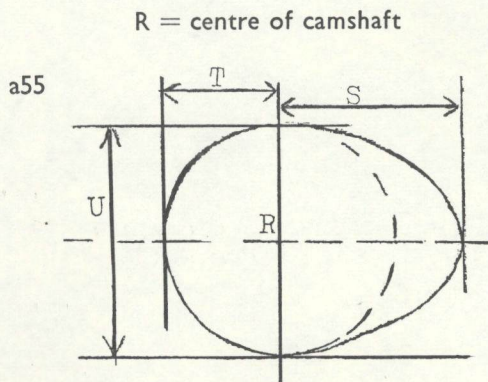
ENGINE AND CAR PERFORMANCES (as declared by manufacturer in catalogue)

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

Make **Lotus**

Model **Europa**

F.I.A. Rec. No.

DRIVE TRAIN

CLUTCH

260. Type of clutch **Diaphragm**
261. No. of plates **One**
262. Dia. of clutch plates **20.0** cm. **7 $\frac{1}{2}$** ins.
263. Dia. of linings, inside **20.0** cm. **7 $\frac{1}{2}$** ins.
- outside **13.02** cm. **5 $\frac{1}{2}$** ins.
264. Method of operating clutch **Mechanical**

GEAR BOX (photograph H)

270. Manual type, make **Renault** Method of operation **Remote**
271. No. of gear-box ratios forward **4** 272. Synchronized forward ratios **All**
273. Location of gear-shift **Floor**
274. Automatic, make **n/a** 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	3.61:1	13/47						
2	2.25:1	19/43						
	2.26:1	20/45						
3	1.48:1	25/37						
	1.03:1	31/32						
4								
5								
6								
reverse	3.08:1	13/40						

278. Overdrive, type **Not fitted**
279. Forward gears on which overdrive can be selected
280. Overdrive ratio

FINAL DRIVE

290. Type of final drive **Crownwheel & Pinion** 291. Type of differential **Bevel Gears**
292. Type of limited slip differential (if fitted) **N/A**
293. Final drive ratio **3.55** Number of teeth **9/32**

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.

Normal Manufacturers Tolerances
+ .005 "General Machining
+. 030 "to + 060 "Fabrications.



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

Manufacturer Lotus Cars Ltd.
Model Europa
F.I.A. Recognition No. _____
Amendment No. 1

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. _____ Reference No. _____

VARIANT TO STANDARD PRODUCTION.

As from chassis No. 46/0297 all Lotus Europas are
to the undernoted amendment.



2

31- sliding system for door windows- REMOVABLE.

Date amendment is valid from _____

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



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

Manufacturer Lotus Cars Ltd.

Model..... Europa.....

F.I.A. Recognition No.

Amendment No. 2

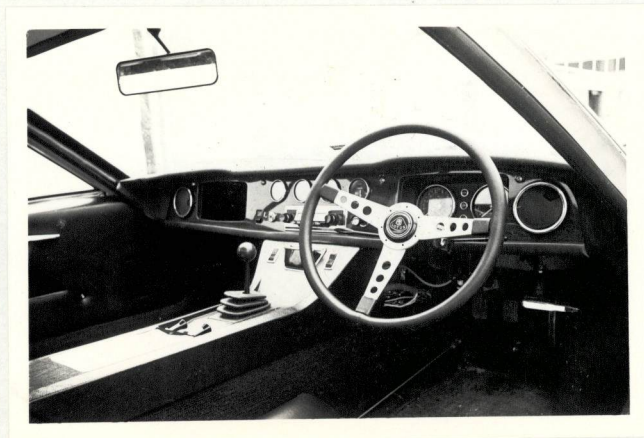
Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. | Reference No.

VARIANT TO STANDARD PRODUCTION.

As from chassis No. 54/0645 all Lotus Europas are subject to the undernoted amendment.



Interior Revised.

1

2

20. Body Chassis Seperate

3

22. Chassis Steel

Date amendment is valid from.....

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



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

Manufacturer Lotus Cars Ltd.

Model Europa

F.I.A. Recognition No. _____

Amendment No. 3

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No.

Reference No.

VARIANT TO STANDARD PRODUCTION.

As from chassis No. 54/0645 all Lotus Europas
are subject to the undernoted amendment.



31.- Sliding system for door windows-ELECTRICALLY
OPERATED VERTICAL SLIDE.

Date amendment is valid from _____

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