F.I.A. Recognition No. 3026

Group III

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 1558 cm.³ 95 in.³

Manufacturer Lotus Cars Limited — Model Elan Plus Two

Serial No. of chassis/body 50/0001 onwards — Manufacturer Lotus Cars Limited

Serial No. of engine F/ — Manufacturer Lotus Cars Limited

Recognition is valid from 1/7/70 — List 7o/7

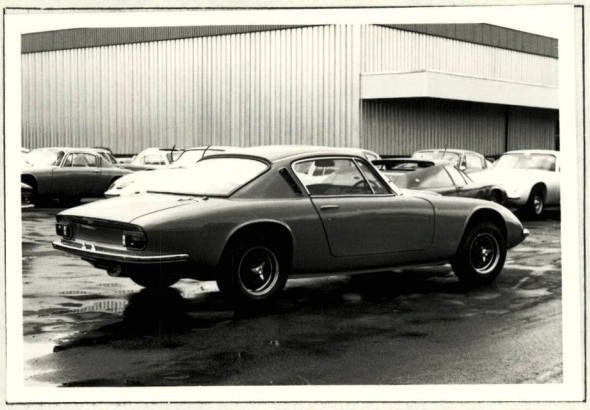
The manufacturing of the model described in this recognition form started on 6th January 19 69 and the minimum production of 1,000 identical cars, in accordance with the specifications of this form was reached on 10th November 19 69

Photograph A, ¾ view of car from front

F.I.A. Stamp

R.A.C. Stamp

B



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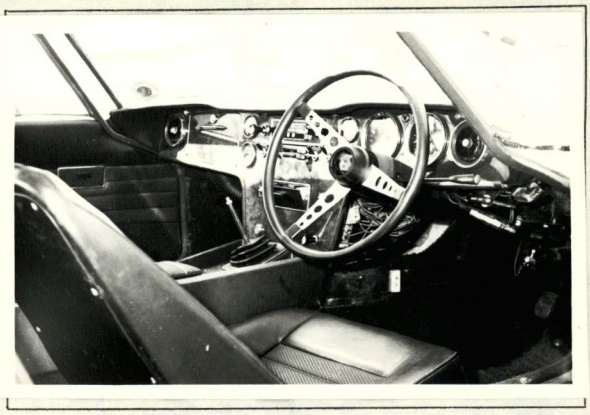

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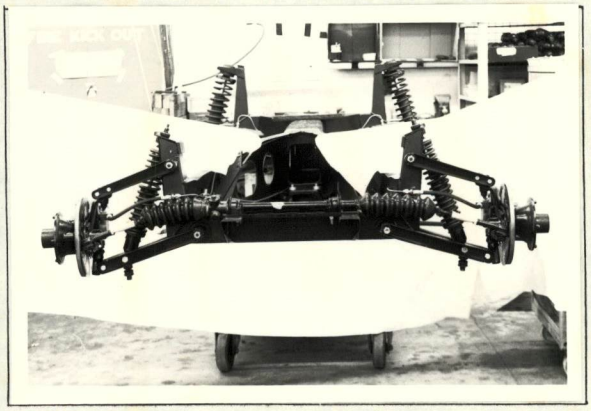

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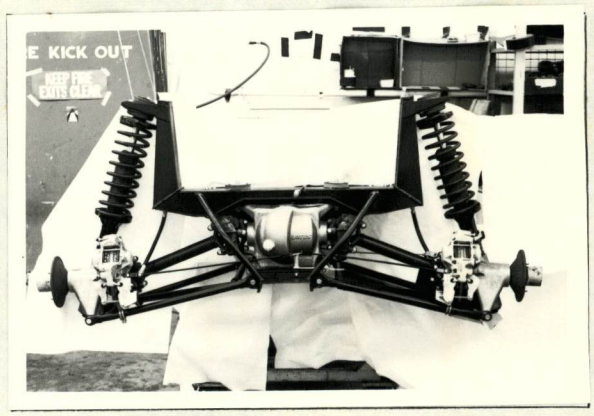

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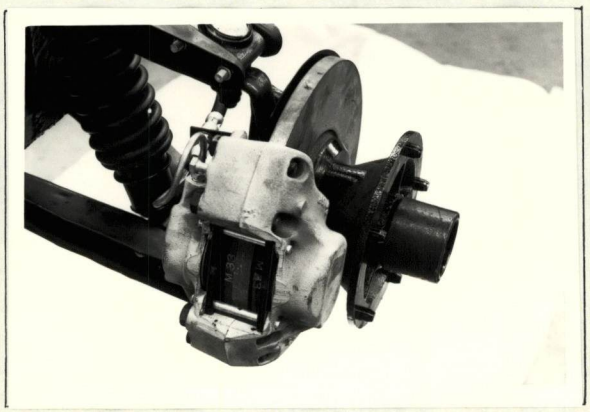

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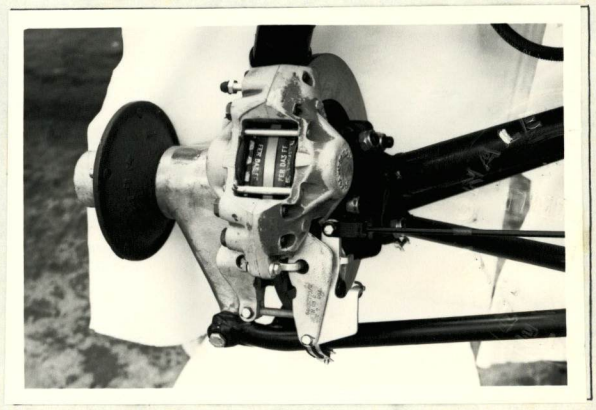

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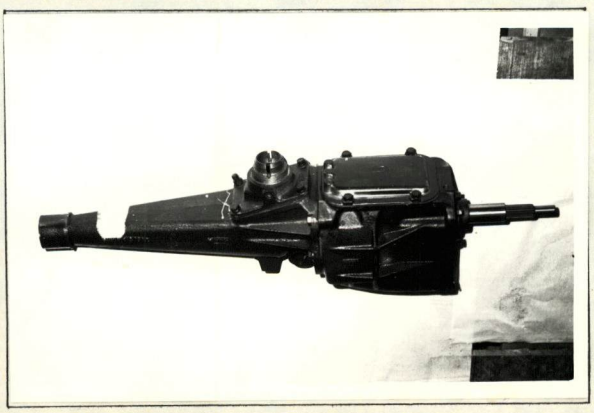

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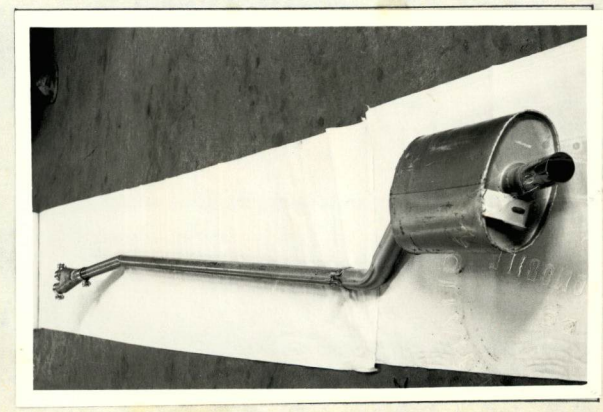

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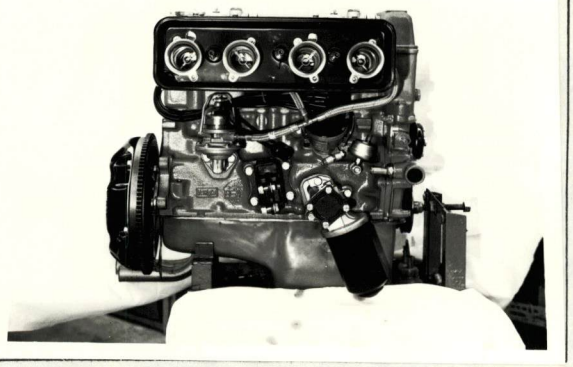

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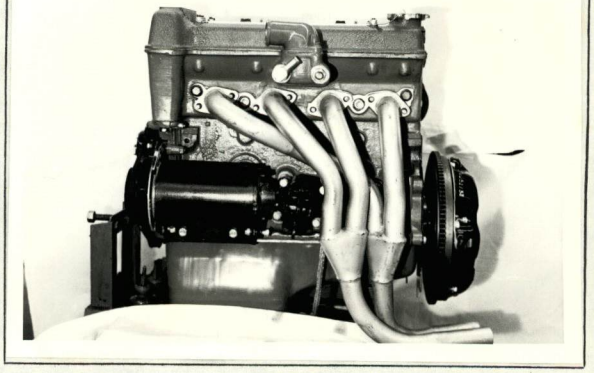

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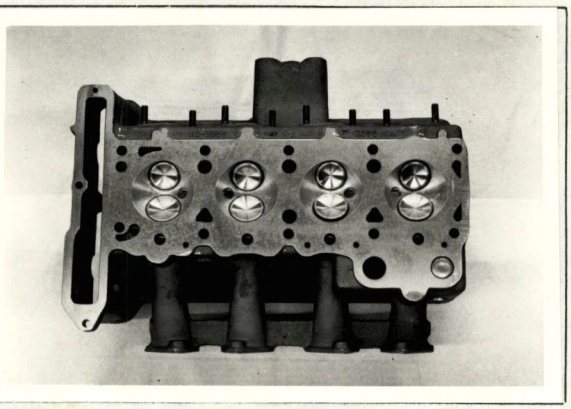

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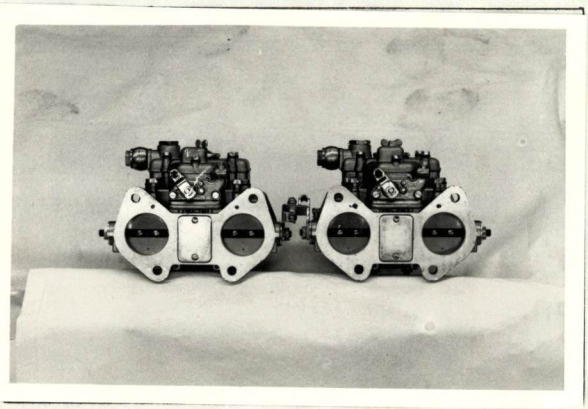

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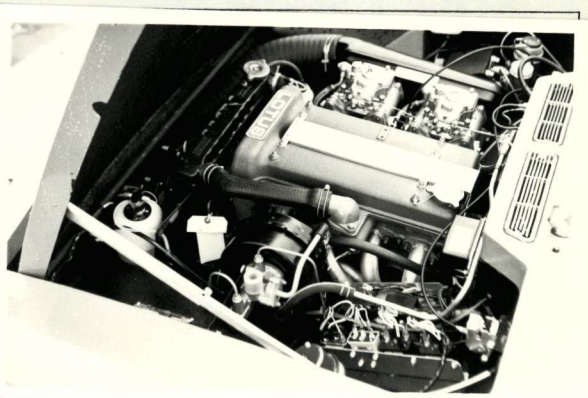

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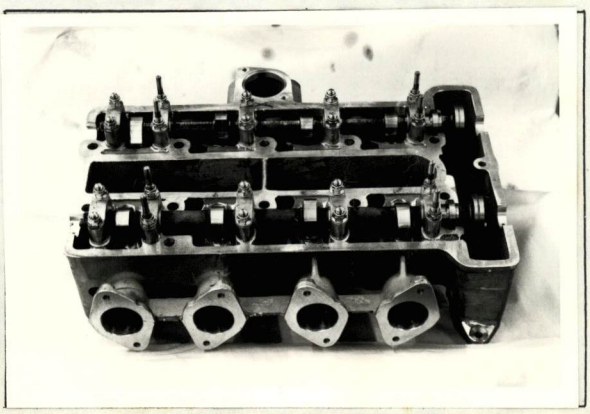

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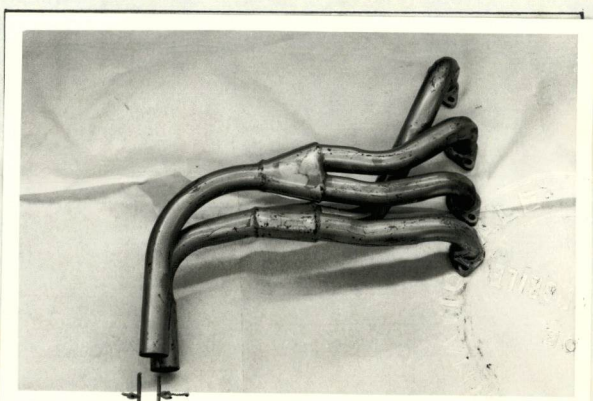


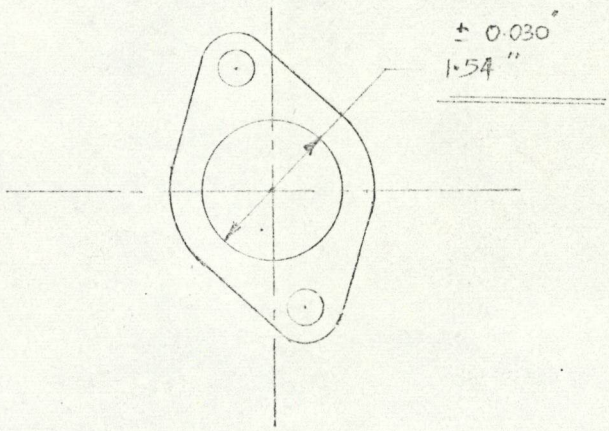
31·75 mm/1·25"

Make Lotus Model Elan Plus Two F.I.A. Rec. No. 3026

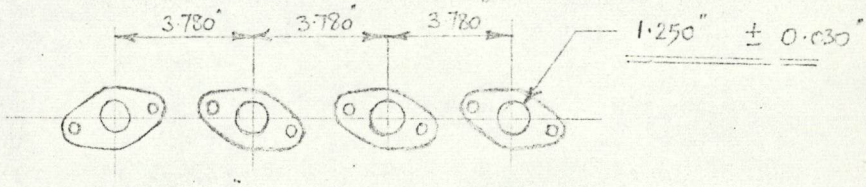
Drawing inlet manifold ports, side of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.

Integral with cylinder head

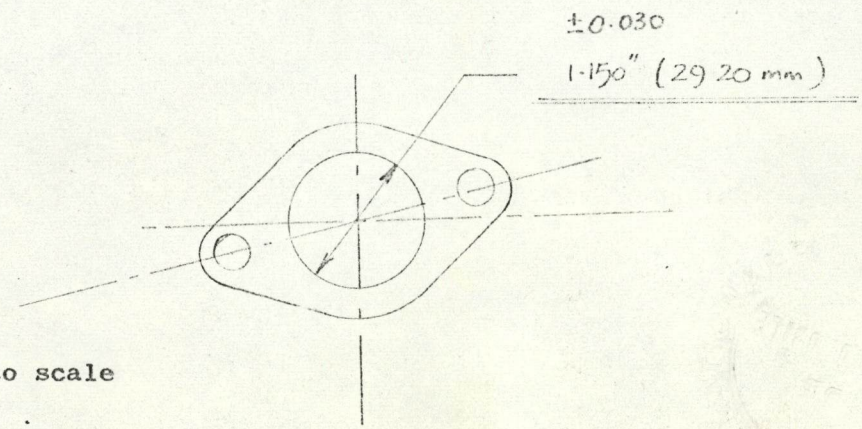
Drawing of entrance to inlet port of cylinderhead. Indicate scale or dimensions and manufacturing tolerance.



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.



N.B. Drawings not to scale

Make Lotus Model Elan Plus Two F.I.A. Rec. No. 3026

NOTE 1.

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

CAPACITIES AND DIMENSIONS

1. Wheelbase 2438 mm. 96 inches

2. Front track 1370 mm. 54 inches

Ground clearance at bottom of front box assembly is 6ins 15.2 cm.

See Note 2

See photograph D

3. Rear track 1397 mm. 55 inches

Ground clearance at bottom of chassis on rear axle centre line is 6 ins 15.2 cms.

See Note 2

See photograph E

4. Overall length of the car 428.6 cm. $168\frac{3}{4}$ inches

5. Overall width of the car 168.2 cm. $66\frac{1}{4}$ inches

6. Overall height of the car 119.3 cm. 47 inches

7. Capacity of fuel tank (reserve included)

59 ltrs. 15.6 gall. U.S. 13 gall. Imp.

8. Seating Capacity. Two plus occasional two

9. Weight. Total weight of the car with normal equipment, water, oil, and spare wheel but without fuel or repair tools :

946 kg. 2086 lbs. 18.625 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.

Make Lotus Model Elan Plus Two F.I.A. Rec. No. 3026

CHASSIS AND COACHWORK (Photographs A, B and C)

20. Chassis/body construction: separate/unitary construction
21. Unitary construction, material(s) N/A
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 Toughened Glass
28. Material(s) of windscreen Laminated Glass
29. Material(s) of front-door windows Toughened 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 : kg. 30 lbs.
43. Rear seats, type of seat and upholstery Bench type with fixed console, in leathercloth
44. Front bumper, material(s) Chromed Steel Weight kg. 5 lbs.
45. Rear bumper, material(s) Chromed Steel Weight kg. 6 lbs.

WHEELS

50. Type Lotus 'Knock-On'
51. Weight (per wheel, without tyre) kg. 11½ lbs.
52. Method of attachment Central Knock-on nut 5 locating studs
53. Rim diameter mm. 13 ins. 54. Rim width mm. 5½ ins.

STEERING

60. Type Rack and Pinion
61. Servo-assistance : ~~yes~~ — no
62. Number of turns of steering wheel from lock to lock 3¼
63. In case of servo-assistance N/A

Make Lotus Model Elan Plus Two F.I.A. Rec. No. 3026

SUSPENSION

70. Front suspension (photograph D), type: Independent
71. Type of spring: Coil
72. Stabiliser (if fitted): Torsional Anti roll bar fitted
73. Number of shock absorbers: Two — 74. Type: Telescopic hydraulic
78. Rear suspension (photograph E), type: Chapman strut
79. Type of spring: Coil
80. Stabiliser (if fitted): Not fitted
81. Number of shock absorbers: Two — 82. Type: Telescopic hydraulic

BRAKES (photographs F and G)

90. Method of operation: Hydraulic
91. Servo-assistance (if fitted), type: Girling Hydraulic Vacuum
92. Number of hydraulic master cylinders: One
93. Number of cylinders per wheel: One

	FRONT		REAR	
94. Bore of wheel cylinder(s)	53.975 mm.	$2\frac{1}{8}$ inches	34 mm.	1.34 inches
Drum Brakes Not fitted				
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				
99. Total area per brake	$mm.^2$	sq. in.	$mm.^2$	sq. in.
Disc Brakes				
100. Outside diameter	254 mm.	10 inches	254 mm.	10 inches
101. Thickness of disc	12.7 mm.	0.5 inches	12.7 mm.	0.5 inches
102. Length of brake linings	64.2 mm.	2.53 inches	46.5 mm.	1.83 inches
103. Width of brake linings	51.5 mm.	2.03 inches	38 mm.	1.50 inches
104. Number of pads per brake	Two			
105. Total area per brake	6613 $mm.^2$	10.26 sq. in.	3534 $mm.^2$	5.5 sq. in.

Make Lotus Model Elan Plus Two F.I.A. Rec. No. 3025

ENGINE (photographs J and K)

130. Cycle Four stroke
131. Number of cylinders Four
132. Cylinder Arrangement In line (Vertical)
133. Bore 82.55 mm. 3.25 in.
134. Stroke 72.75 mm. 2.864 in.
135. Capacity per cylinder 389.5 cm.³ 23.75 cu. in.
136. Total cylinder capacity 1558 cm.³ 95.2 cu. in.
137. Material(s) of cylinder block Cast Iron
138. Material(s) of sleeves (if fitted) None
139. Cylinder head, material(s) Aluminium Alloy Number fitted One
140. Number of inlet ports Four
141. Number of exhaust ports Four
142. Compression ratio 9.8 : 1 ± 0.3
143. Volume of one combustion chamber 44.4 cm.³ 2.71 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 40.44 mm. 1.595 in.
147. Crankshaft : moulded/~~stamped~~
148. Type of crankshaft: integral/Cast with balance weights
149. Number of crankshaft main bearings Five
150. Material of bearing cap Cast Iron
151. System of lubrication : ~~dry sump~~/oil in sump
152. Capacity, lubricant 3.977 ltrs. 7.00 pts. 4.2 quarts U.S.
153. Oil cooler : ~~yes~~/no
154. Method of engine cooling Water
155. Capacity of cooling system 7.9 ltrs. 14 pts. 4.2 quarts U.S.
156. Cooling fan (if fitted) dia. 27.94 cm. 11 in.
157 Number of blades of cooling fan Two

Bearings

158. Crankshaft main, type Steel backed shell dia. 54 m.m. 2.125 in.
159. Connecting rod big end, type Steel backed shell dia. 49.205 m.m. 1.937 in.

Weights

160. Flywheel (clean) 7.0 kg. 15.5 lbs.
161. Flywheel with clutch (all turning parts) 13.0 kg. 28.7 lbs.
162. Crankshaft 11.0 kg. 24.5 lbs.
163. Connecting rod .551 kg. 1.0 lbs.
164. Piston with rings and pin .517 kg. 1.16 lbs.

Make Lotus Model Elan Plus Two F.I.A. Rec. No. 3025

FOUR STROKE ENGINES

170. Number of camshafts Three
171. Location Two in head one in block
172. Type of camshaft drive Chain
173. Type of valve operation Overhead camshafts and tappets

INLET (see page 4)*

180. Material(s) of inlet manifold Aluminium alloy integral with head
181. Diameter of valves 38.86 mm. 1.53 ins.
182. Max. valve lift 9.54 mm. .372 in.
183. Number of valve springs Eight
184. Type of spring Coil
185. Number of valves per cylinder One
186. Tappet clearance for checking timing (cold/warm) 1.52 mm. .006 ins.
187. Valves open at (with tolerance for tappet clearance indicated) 26° B.T.D.C.
188. Valves close at (with tolerance for tappet clearance indicated) 66° A.B.D.C.
189. Air filter, type Dry element

EXHAUST (see page 4)*

195. Material(s) of exhaust manifold Cast Iron
196. Diameter of valves 33.66 mm. 1.325 ins.
197. Max. valve lift 9.54 mm. .372 in.
198. Number of valve springs Eight
199. Type of spring Coil
200. Number of valves per cylinder One
201. Tappet clearance for checking timing (cold/warm) 1.77 mm. .007 ins.
202. Valves open at (with tolerance for tappet clearance indicated) 66° B.B.D.C.
203. Valves close at (with tolerance for tappet clearance indicated) 26° A.T.D.C.
204. Diameter outlet orifice exhaust manifold 31.75 mm. 1.25 ins.

CARBURETION (photograph N)

210. Number of carburettors fitted Two
211. Type Twin Choke Horizontal
212. Make Weber
213. Model 40 DCOE
214. Number of mixture passages per carburettor Two
215. Flange hole diameter of exit port(s) of carburettor 40 mm. 1.575 ins.
216. Minimum diameter of venturi/minimum diam. with piston at maximum height (example: SU) 33 mm. 1.30 ins.

INJECTION (if fitted) Not 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 Elan Plus Two F.I.A. Rec. No. 1026

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 V Belt from crankshaft pulley

238. Voltage of generator 12 volts

239. Battery, number One

240. Location Under floor of boot

241. Voltage of battery 12 volts

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

250. Max. engine output 118 (type of horsepower: BHP) at 6250 r.p.m.

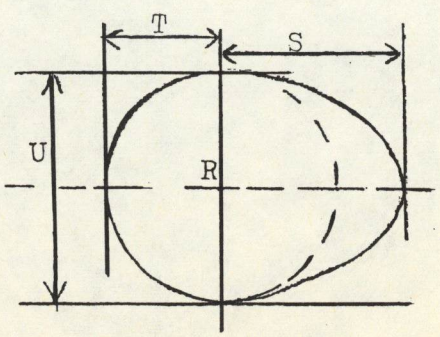
251. Max. r.p.m. 6,500 output at that figure

252. Max. torque 106 lbs ft (14.655 kg. m) at 5000 r.p.m.

253. Max. speed of the car Not quoted by manufacturer km./hour miles/hour

R = centre of camshaft

a55



Inlet cam

S =	mm.	0.95 inches
T =	mm.	0.60 inches
U =	mm.	1.20 inches

Exhaust cam

S =	mm.	0.95 inches
T =	mm.	0.60 inches
U =	mm.	1.20 inches

Make Lotus Model Elan Plus Two F.I.A. Rec. No. 3026

DRIVE TRAIN

CLUTCH

260. Type of clutch Diaphragm

261. No. of plates One

262. Dia. of clutch plates 203.2 cm. 8.00 ins.

263. Dia. of linings, inside 146.05 cm. 5.75 ins.

outside 203.2 cm. 8.00 ins.

264. Method of operating clutch Hydraulic

GEAR BOX (photograph H)

270. Manual type, make Ford Method of operation Manual

271. No. of gear-box ratios forward Four 272. Synchronized forward ratios Four

273. Location of gear-shift Central on transmission tunnel

274. Automatic, make type

275. No. of forward ratios 276. Location of gear shift

277.	Manual Ratio	Manual No. teeth	Automatic Ratio	Automatic No. teeth	Alternative manual/automatic Ratio	Alternative manual/automatic No. teeth	Alternative manual/automatic Ratio	Alternative manual/automatic No. teeth
1	2.972:1	30/19 32/17						
2	2.009:1	30/19 28/22						
3	1.396:1	30/19 23/22						
4	1.000:1	direct						
5								
6								
reverse	3.324:1	40/22/19						

278. Overdrive, type Not fitted

279. Forward gears on which overdrive can be selected

280. Overdrive ratio

FINAL DRIVE

290. Type of final drive Hypoid Bevel 291. Type of differential Bevel Gear

292. Type of limited slip differential (if fitted in series-production)

293. Final drive ratio 3.77 : 1 Number of teeth 34/9

Make Lotus Model Elan Plus Two F.I.A. Rec. No. 3025

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.

LOE/2S/* ALLOY ROAD WHEELS

LOE/2S/2 ENGINE MODIFICATIONS see attached sheet

LOE/2S/3 ALLOY DIFF CASING

LOE/2S/4 ALLOY GEARBOX HOUSING

LOE/2S/5 ALLOY BELL HOUSING

LOE/2S/6 ALLOY GEARBOX HOUSING EXTENSION

LOE/2S/7 ALTERNATOR

LOE/2S/8 OIL COOLER

LOE/2S/9 OPTIONAL FINAL DRIVE RATIO 3.55:1

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

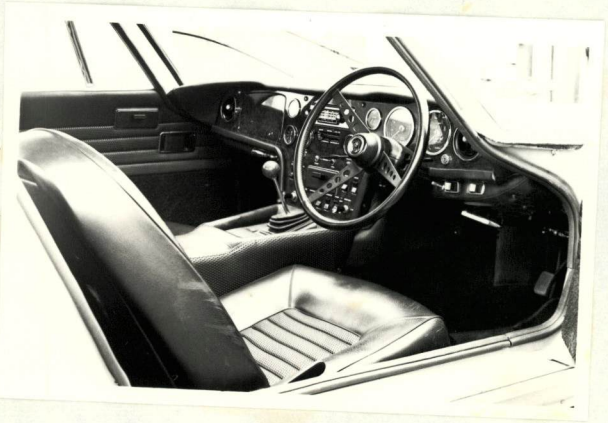
Manufacturer Lotus
Model Elan Plus Two
F.I.A. Recognition No. 3026
~~*Amendment No.*~~ 70/17

Amendment to Form of Recognition

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. | Reference No.

As from December 1969 this model is re-named the Elan + 2'S' with re-designed interior and the addition of fog and spot lamps moulded into the front body section.



Date amendment is valid from 1/7/70

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

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

Manufacturer LOTUS
Model + 2'S'
F.I.A. Recognition No. 3026
Amendment No. 1/1E.

Amendment to Form of Recognition

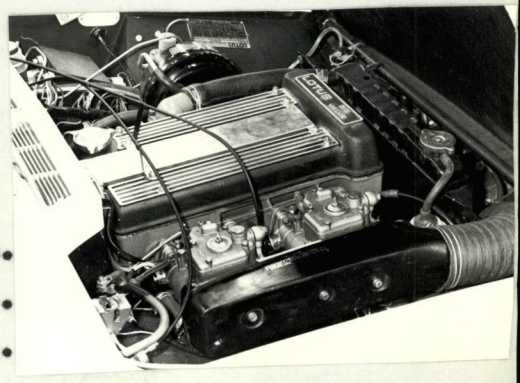
FEDERATION INTERNATIONALE DE L'AUTOMOBILE

No. | Reference No.

MODEL LOTUS + 2'S' NOW DESIGNATED LOTUS + 2'S' 130
SILVER CABIN AREA 'BIG VALVE' CAMSHAFT COVER

Amendments as follows:-

142.	10.3 to I ± 0.1	
143.	35.6 cubic centimetres	2.17 cu.in.
156.	DELETED	
181.	39.70 m.m.	1.563 in.
182.	9.23 m.m.	0.360 in.
250.	126 BHP SAE	
252.	113 lb.ft. @ 5.500 r.p.m.	



INLET CAM.

S =	0.930 in.	23.62 m.m.
T =	0.570 in.	14.48 m.m.
U =	1.140 in.	28.96 m.m.

EXHAUST CAM.

S =	0.930 in.	23.62 m.m.
T =	0.570 in.	14.48 m.m.
U =	1.140 in.	28.96 m.m.

ALL OTHER DETAILS ARE AS PREVIOUSLY HOMOLOGATED.

Date amendment is valid from 1/7/71

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

F.I.A. Recognition No. .....

Group .....

ROYAL AUTOMOBILE CLUB

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

PRODUCTION CERTIFICATE

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Date 24th April 1970

Manufacturer: Lotus Cars Limited

Car Model: Elan Plus Two

Production Period From 6th January 1969 to 2nd January 1970

Monthly Production

Month/Year	Number
TOTAL 12 months	1195
Remarks Available as left or right hand drive	

I HEREBY certify that the production mentioned hereabove concerns cars which are entirely completed, identical and in conformity with the recognition form submitted for the said model.

(Signature)

Position: Group Sales & Marketing Director

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Homologation N°
3026

Groupe / Group ~~A / B / N~~ III

Extension N°
2 / 1 / V

FICHE D'EXTENSION D'HOMOLOGATION POUR ARMATURE DE SECURITE
FORM OF HOMOLOGATION EXTENSION FOR SAFETY CAGE

[X] VO Variante option / Option variant

Véhicule : Constructeur / Vehicle : Manufacturer: LOTUS

Modèle et type / Model and type: ELAN S3

Homologation valable à partir du / Homologation valid as from: 01/01/2000

	Arceau principal Main rollbar	Entretoise longitudinale Longitudinal strut	Entretoise diagonale Diagonal strut	Arceau avant Front rollbar
Matériau / Material	Fe 45.2	Fe 45 2	Fe 45.2	Fe 45.2
Diamètre extérieur / Exterior diameter	50 mm	40 mm	40 mm	40 mm
Epaisseur de paroi / Wall thickness	2 mm	2 mm	2 mm	2 mm
Limite élastique / Elastic limit	300 N/mm²	300 N/mm²	300 N/mm²	300 N/mm²
Résistance à la traction / Tensile strength	450 N/mm²	450 N/mm²	450 N/mm²	450 N/mm²

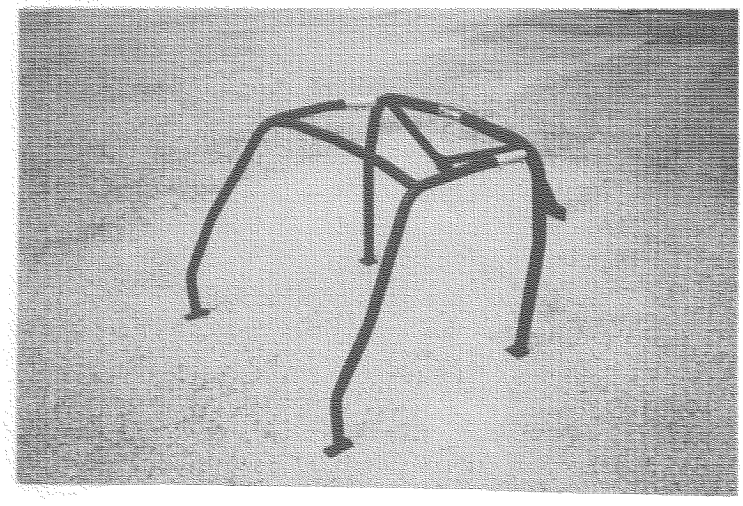
Fabricant de l'armature / Structure manufacturer: SASSA ROLL-BAR S.A.S.

Poids total y compris les fixations / Total weight including fixations: 40 kg

Arceau soudé / Welded rollbar: [ ] oui / yes [X] non / no

Armature complète hors de la voiture / Complete structure outside the car

(Indiquer par une flèche la position de la plaque d'identification)
(Indicate the position of the identification plate with an arrow)



Fédération Internationale de l'Automobile
2 chemin de Blandonnet
CH-1215 GENEVE 15
Tél.: 41 22 544 44 00
Fax Sport: 41 22 544 44 50

Nous attestons que la présente armature de sécurité répond aux dispositions de l'Annexe J de la FIA, en particulier en ce qui concerne ses implantations, ses connexions, et ses résistances aux contraintes.

We certify that the present safety structure complies with the conditions of the FIA Appendix J, in particular with regard to its attachments, its connections, and its stress resistances.

Nom et signature du représentant du constructeur du véhicule ou nom et signature du fabricant de l'arceau muni d'une contre signature de l'ASN dont dépend le constructeur de l'arceau

Name and signature of the car manufacturer representative or name and signature of the rollbar manufacturer with a counter-signature of the manufacturer's ASN

SASSA ROLL-BAR S.A.S.
63040 MALTIC ... ASCOLI P.
Via Bonifica ... 0736/402228
C.F. e P.I. ... 00223670449

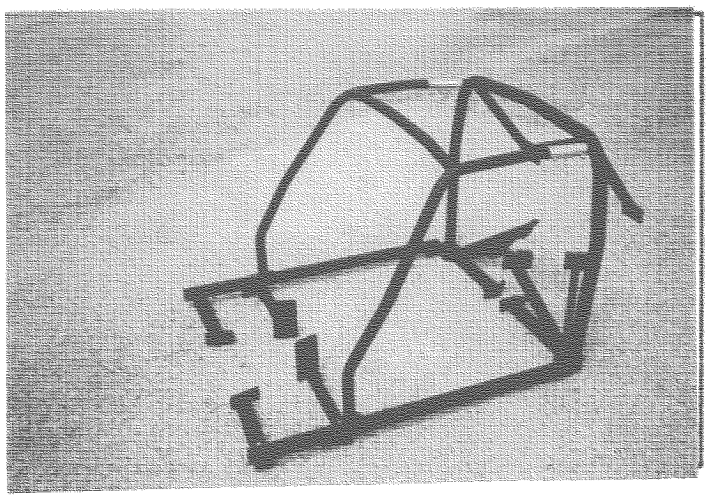
SASSA ROLL-BAR s.a.s.
L'Amministratore

Marque / Make _____ Modèle / Model _____

Homologation No

Extension No

PHOTO No 1



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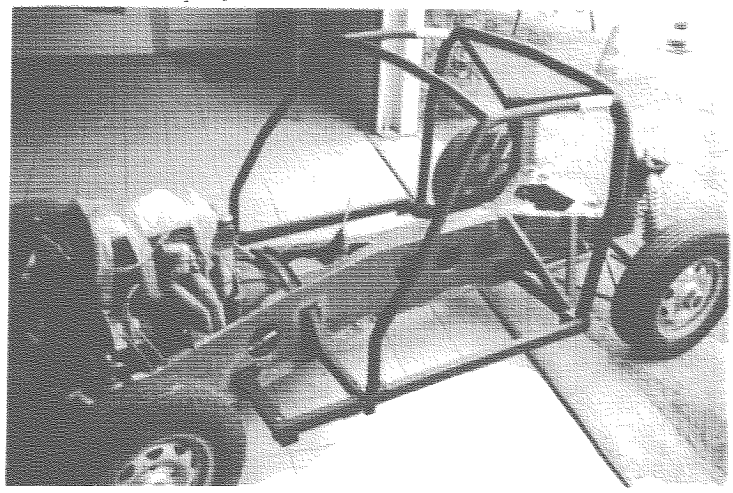

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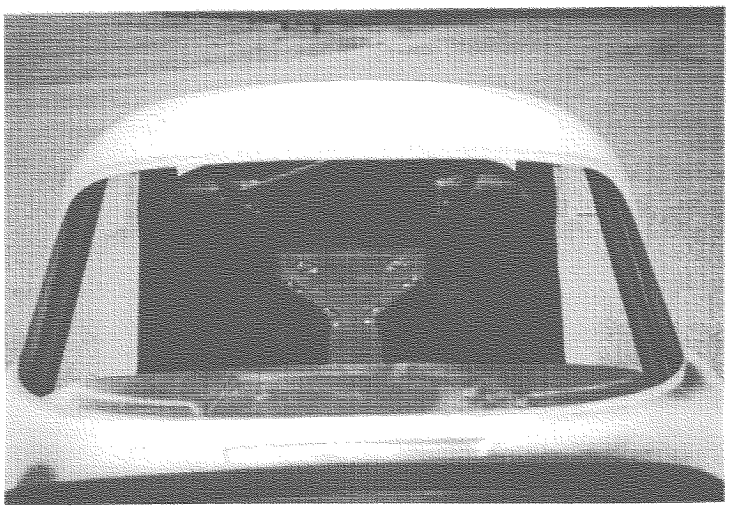

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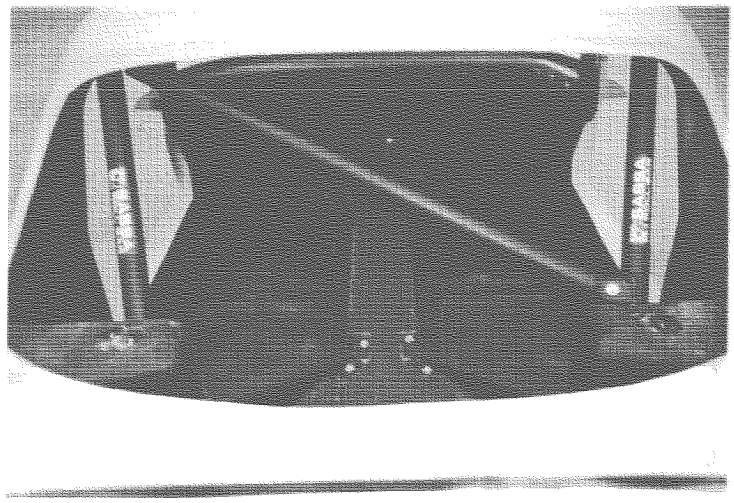

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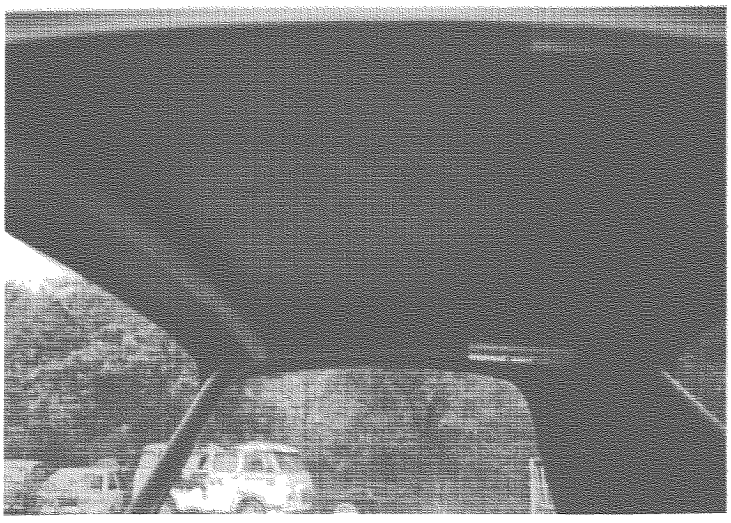

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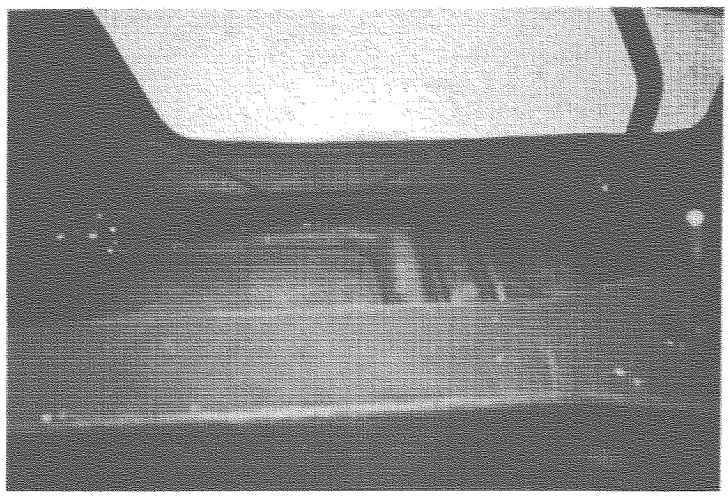


(c) FISA - FC- 1990 - 005 01 FEB 10.90

Fédération Internationale de l'Automobile
2 chemin de Blandonnet
CH-1215 GENEVE 15
Tél.: 41 22 544 44 00
Fax Sport: 41 22 744 44 50

Marque
Make

Modèle
Model

Homologation No

Extension No

PHOTO No 7

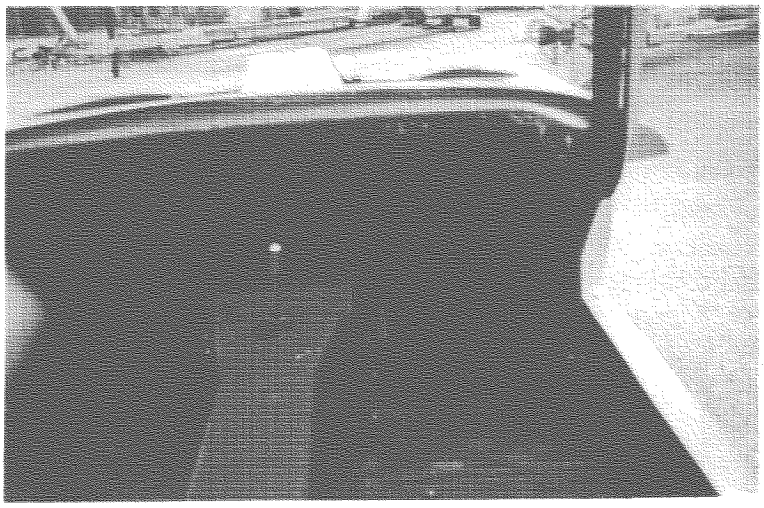
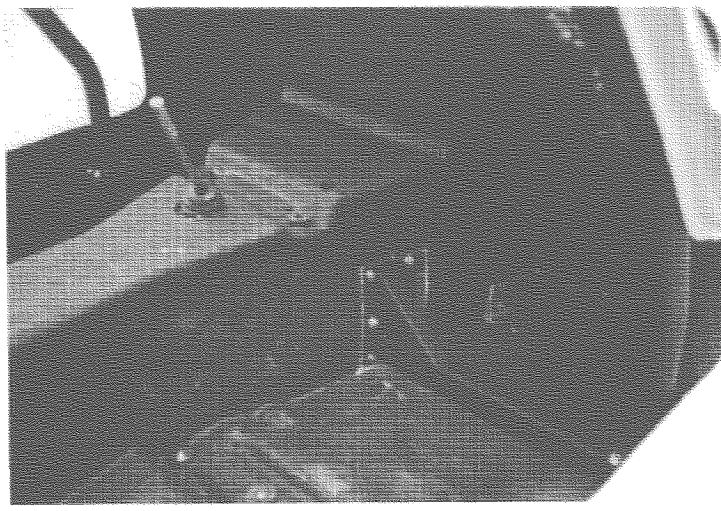


PHOTO No 8



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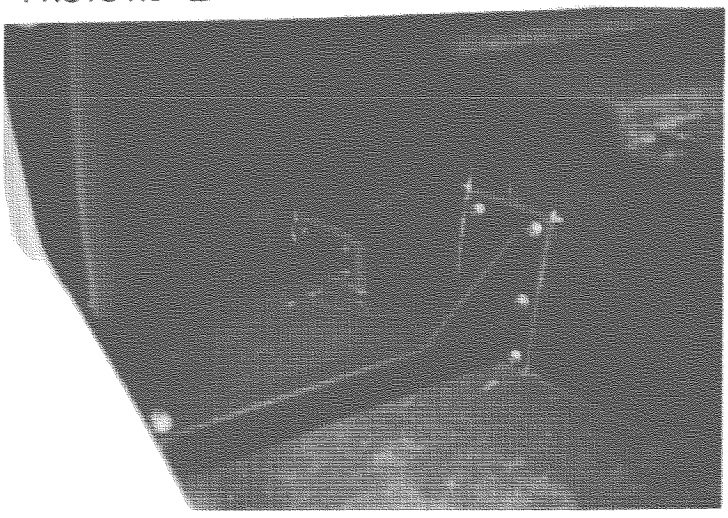
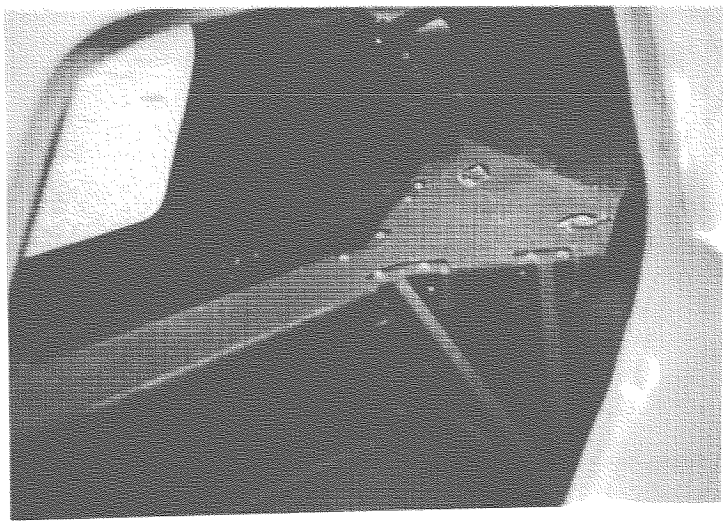


PHOTO No 10



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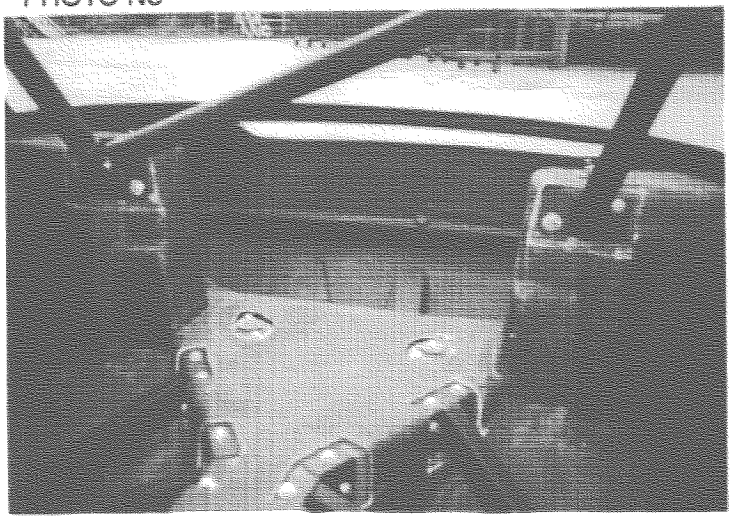

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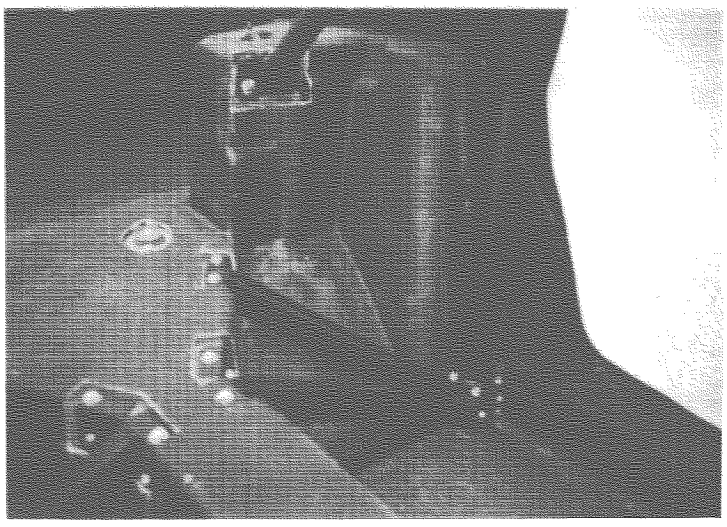


Fédération internationale de l'A...
2 chemin de Blandonn...
CH-1215 GENEVE 1
Tél.: 41 22 544 44 00
Fax: 41 22 544 44

RAC MSA Recognition No. 1114

Valid From 120793

FIA n°: 3026

Ext n°: 3/2V

MOTOR SPORTS ASSOCIATION

Motor Sports House, Riverside Park, Colnbrook, Slough SL3 0HG

SAFETY ROLL BAR CERTIFICATE

BLOCK CAPITALS

Manufacturer SAFETY DEVICES Roll bar model No/Designation E01X

Address 30 REGAL DRIVE, SOHAM, CAMBS CB7 5BE

Car/s for which roll bar is designed:

Make/s	LOTUS		
Model/s	ELAN		
F.I.A. Homologation No/s			
Weight of Car/s	lbs.	lbs.	lbs.
	kgs.	kgs	kgs

ROLL BAR SPECIFICATION

Main tube Dia.	1.5 ins.	38 mm.	Brace/s Dia.	1.5 ins.	38 mm.
Thickness	.064 ins.	1.6 mm.	Thickness	.064 ins.	1.6 mm.
Type of welding	MIG		Weight of total assembly	38 lbs	17 kgs
Type of material	STEEL		Material Specification	BS632314 CFS 3BK	
Type of mounting	BOLTED INTO VEHICLE				

DECLARATION BY DESIGNER for Roll Bars not complying with F.I.A. design details

*I declare the the roll bar described has been **

(a) ~~tested under my personal supervision~~

(b) shown by my own stress calculations

or *(c) ~~shown by stress calculations carried out under my personal supervision~~*

to meet the strength requirements specified in current F.I.A. regulations. In addition, I declare that all details of the roll bar design including joints, moutings and attachments are also in conformity with these regulations.

*Delete as appropriate

Date 8.7.93 Signature S Jowitt Name JOWITT

Professional Qualifications Eur Ing CEng FRAeS FIEE FIDA MIMechE MSAE

Acceptable signatories must be a Corporate Member of the Royal Aeronautical Society or the Institution of Civil, Mechanical or Structural Engineers.

DECLARATION BY MANUFACTURER

I declare that the roll bar described is in conformity with the F.I.A. regulations as to design.

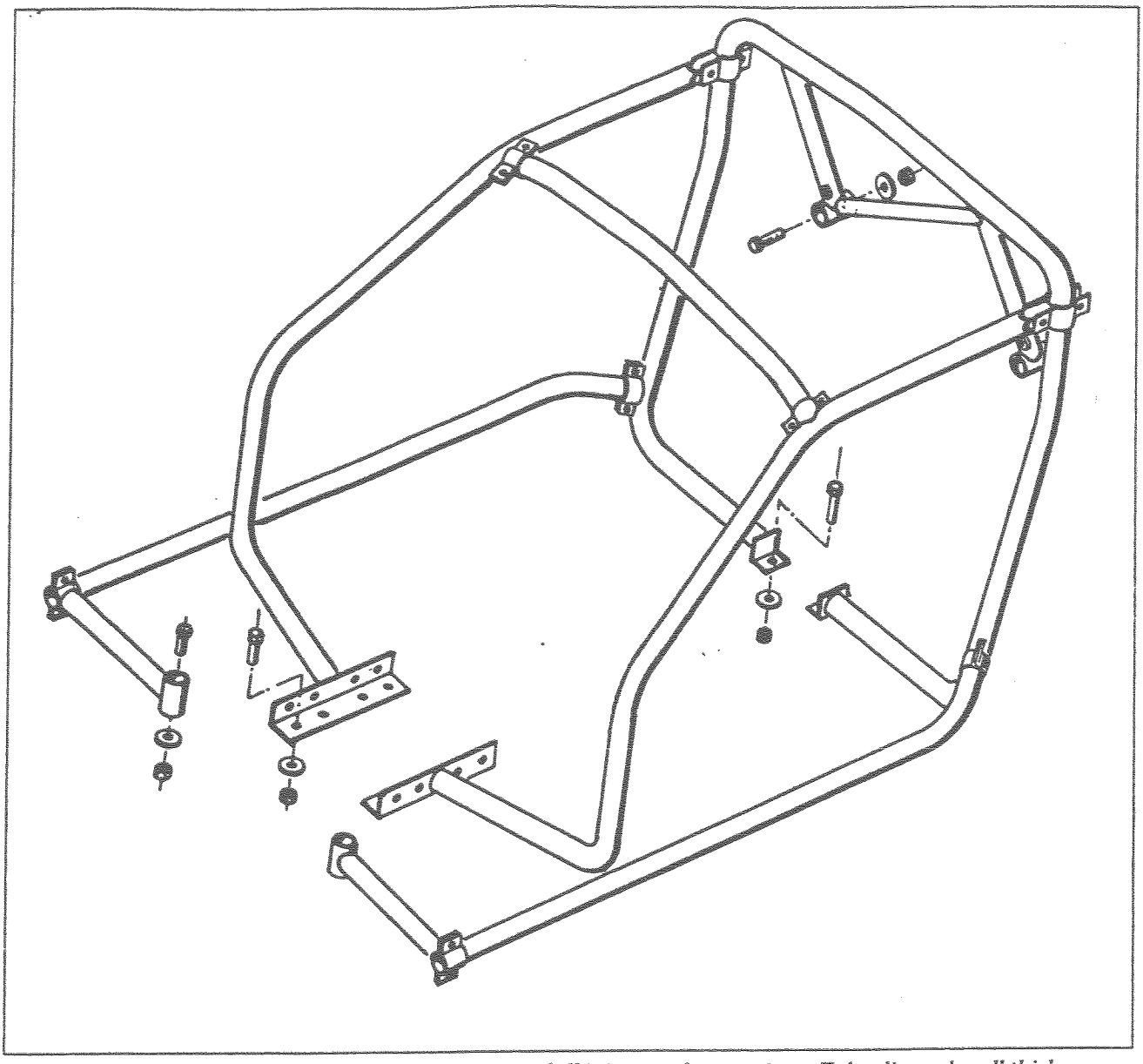
Date 29.6.93 Signature F J Young Name F J YOUNG

Status PRODUCTION ENGINEER

THIS CERTIFICATE BECOMES INVALID IF THE ROLL BAR STRUCTURE IS MODIFIED IN ANY WAY FROM THE DESIGN OVERLEAF

NOT VALID UNLESS PERFORATED WITH RAC MSA SEAL

RAC MSA Recognition No. 1114



Drawing of roll-bar to include detailed drawings of all joints and mountings. Tube dia and wall thickness must be specified.

PHOTOGRAPHS

(Signed) _____

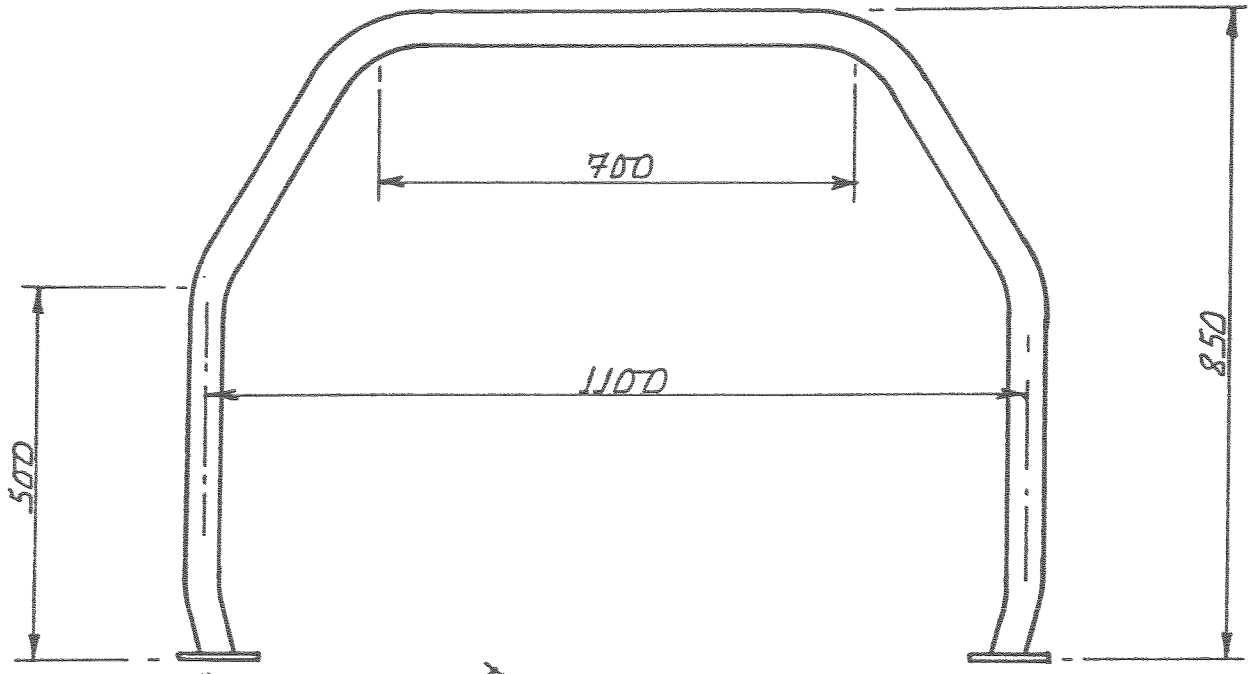
RAC MSA GROUP 1 SCRUTINEER

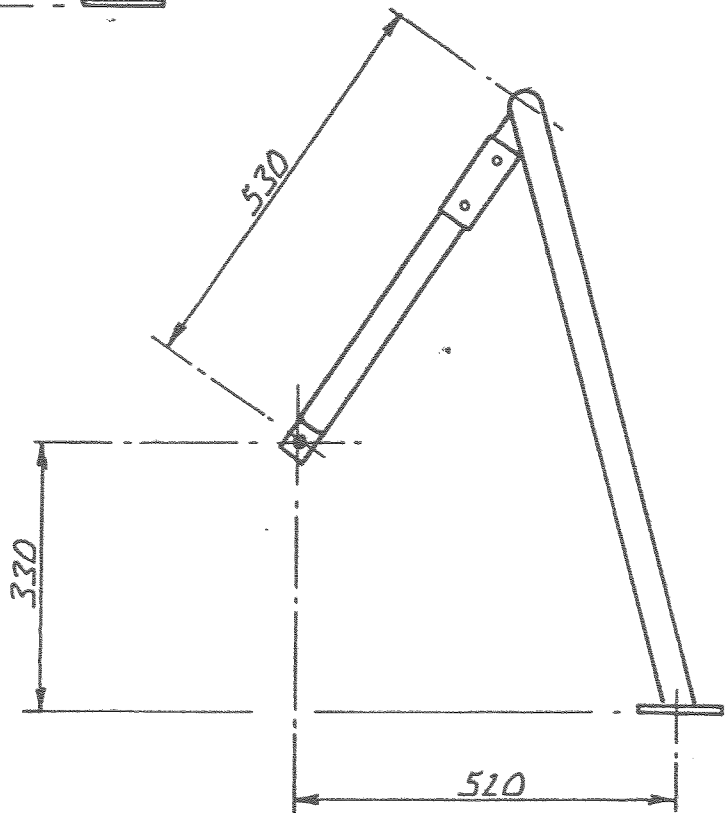
(Countersigned) _____

RAC MSA Ltd

THE RAC MSA ACCEPT THAT THIS DOCUMENT HAS BEEN COMPLETED IN ACCORDANCE WITH THE REGULATIONS.

VEHICLE Maserati	MODEL 6C	PART NUMBER 111 4
Hoop & Backstay Dimensions		SHEET 1 OF 1





DRAWING CHANGES		

MATERIAL		FINISH	
DRAWN R Hale	DATE 2/6/93	ISSUE 1	PART NO.
Safety Devices			DRG. NO.

RAC MSA Recognition No. 0739

Valid From 22/03/89

FIA no: 3026

Ext no: 4/3V

RAC MOTOR SPORTS ASSOCIATION

Motor Sports House, Riverside Park, Colnbrook, Slough SL3 0HG

SAFETY ROLL BAR CERTIFICATE

BLOCK CAPITALS

Manufacturer SAFETY DEVICES (ENGINEERING) LTD. Roll bar model No/Designation E1

Address 176, EXNING ROAD, NEWMARKET, SUFFOLK, CB8 0AF. ENGLAND

Car/s for which roll bar is designed:

Make/s	LOTUS		
Model/s	ELAN		
F.I.A. Homologation No/s			
Weight of Car/s	1543 lbs. / 700 kgs.	lbs. / kgs	lbs. / kgs

ROLL BAR SPECIFICATION

Main tube Dia.	1 1/2 ins.	38 mm.	Brace/s Dia.	1 1/2 ins.	38 mm.
Thickness	0.064 ins.	1.62 mm.	Thickness	0.064 ins.	1.62 mm.
Type of welding	M.I.G.		Weight of total assembly	38.5 lbs	17.5 kgs
Type of material	STEEL		Material Specification	CDS 2 BS 6323	
Type of mounting	TO CHASSIS FRAME				

DECLARATION BY DESIGNER for Roll Bars not complying with F.I.A. design details.

*I declare the the roll bar described has been **

(a) ~~tested under my personal supervision~~

(b) shown by my own stress calculations

or *(c) ~~shown by stress calculations carried out under my personal supervision~~*

to meet the strength requirements specified in current F.I.A. regulations. In addition, I declare that all details of the roll bar design including joints, moutings and attachments are also in conformity with these regulations.

*Delete as appropriate

Date 20.3.89 Signature S Howitt Name P.F. HOWITT

Professional Qualifications C.ENG, F.R.Ae.S. F.I.Prod.E., F.I.Q.A., M.I Mech.E.

Acceptable signatories must be a Corporate Member of the Royal Aeronautical Society or the Institution of Civil, Mechanical or Structural Engineers.

DECLARATION BY MANUFACTURER

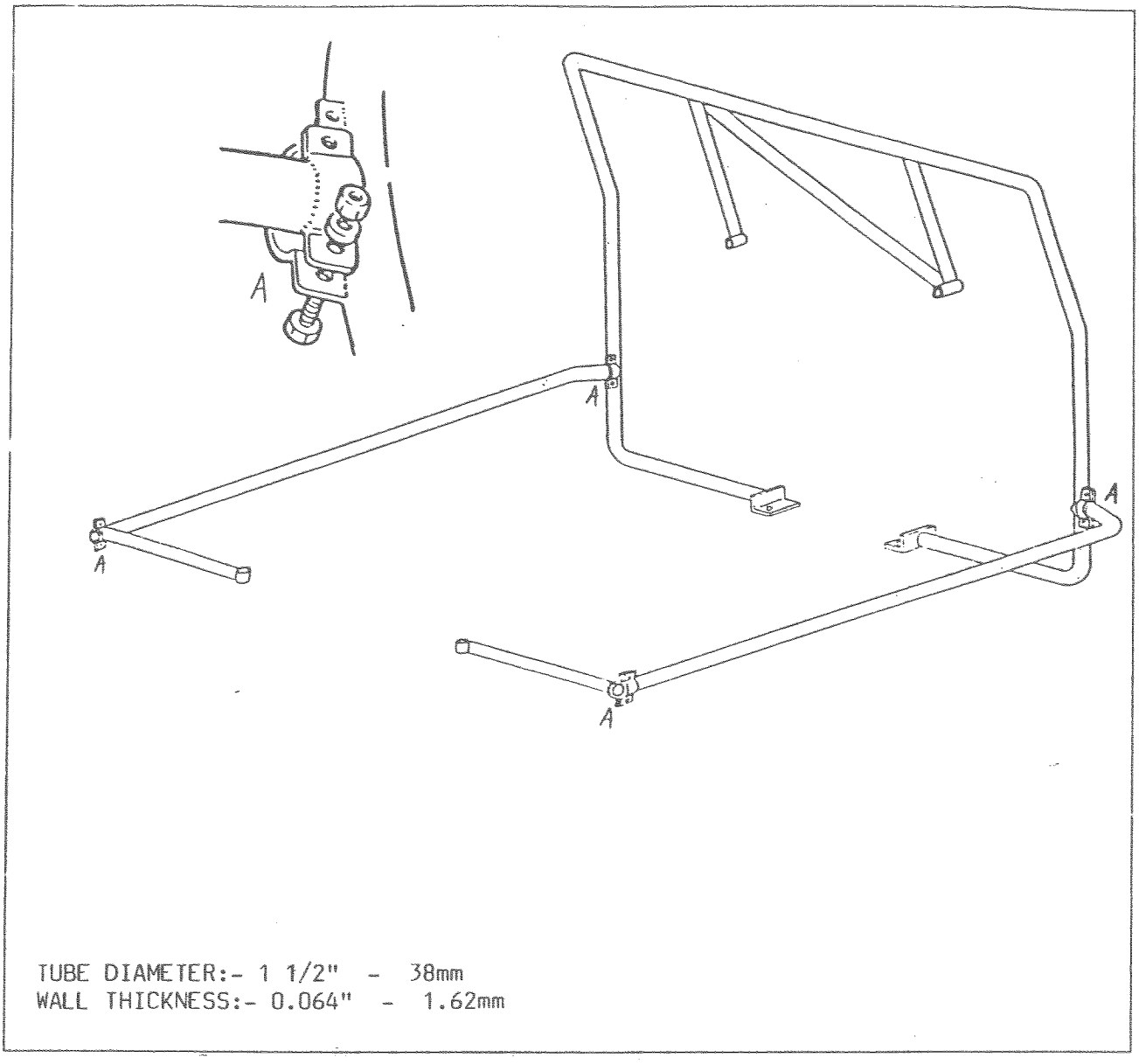
I declare that the roll bar described is in conformity with the F.I.A. regulations as to design.

Date 15th MARCH 1989 Signature P.H. Gilbert Name P.H. GILBERT

Status PRODUCTION MANAGER.

NOT VALID UNLESS PERFORATED WITH RAC MSA SEAL

RAC MSA Recognition No. 0739



Drawing of roll-bar including details of joints, mountings, and tube dia and wall thickness

PHOTOGRAPHS

(Signed) _____

RAC MSA GROUP 1 SCRUTINEER

(Countersigned) _____

RAC MSA Ltd

NOT VALID UNLESS PERFORATED WITH RAC MSA SEAL

R.A.C. Recognition No. 10

Valid From. 1·6·72

IMPORTANT
NOT VALID UNLESS EMBOSSED WITH R.A.C. STAMP

Ext: 5/4 V

ROYAL AUTOMOBILE CLUB

31 Belgrave Square, London, SW1X 8QH

SAFETY ROLL BAR CERTIFICATE

Manufacturer. Aleybars Limited ..... Roll bar model No/Designation. 032/M

Car/s for which roll bar is designed:

Make/s	Lotus		
Model/s	Elan		
F.I.A. Homologation No/s.	3027		
Weight of Car/s	1540 lbs.	lbs.	lbs.
	698.5 kgs.	kgs.	kgs.

ROLL BAR SPECIFICATION

Main tube Dia. 1.5 ins. 38 mm. Brace/s Dia. 1.5 ins. 38 mm.

Thickness 0.1 ins. 2.6 mm. Thickness 0.1 ins. 2.6 mm.

Type of welding. Argon Arc

Material Specification. CDS 3 Weight of total assembly. 30 lbs. 13.6 kgs

DECLARATION BY DESIGNER for Roll Bars not complying with F.I.A. design details

*I declare that the roll bar described has been **

(a) tested under my personal supervision
(b) shown by my own stress calculations
or (c) shown by stress calculations carried out under my personal supervision

to meet the strength requirements specified in current F.I.A. regulations. In addition, I declare that all details of the roll bar design including joints, mountings and attachments are also in conformity with these regulations.

* Delete as appropriate

Date..... Signature..... Name.....

Professional Qualifications .....

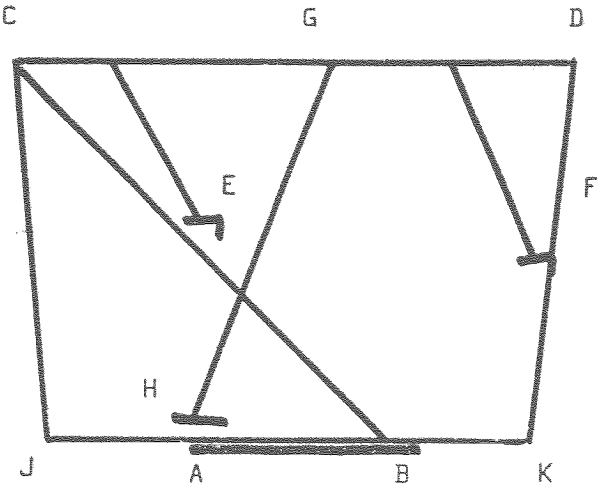
Acceptable signatories must be a Corporate Member of the Royal Aeronautical Society or the Institution of Civil, Mechanical or Structural Engineers.

DECLARATION BY MANUFACTURER

I declare that the roll bar described is in conformity with the F.I.A. regulations as to design.

Date. 15 May 1972 Signature..... Name. J.R. Aley

Status. Director - Aleybars Limited



NOTES.

Diagonal strut may be fitted B/C or A/D for right or left hand drive cars
" " may be omitted when car is not used for circuit racing

No joints

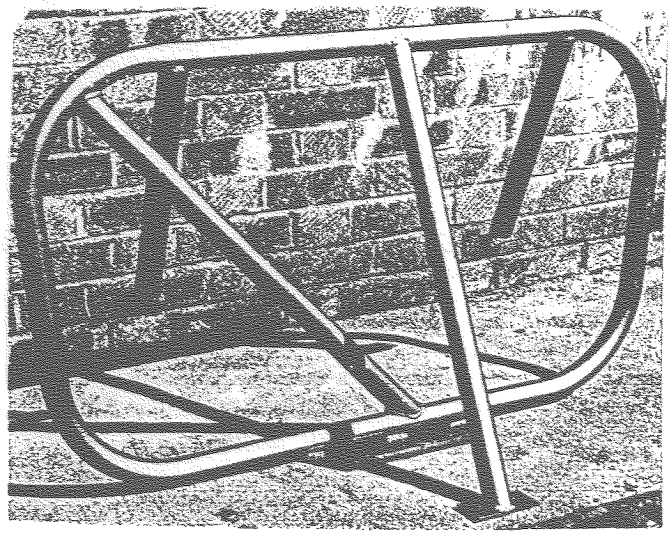
Main mounting plate to bachbone chassis secured by 6 bolts

Backstays (C/E & D/F) mount on to suspension carriers by 1 bolt at each side.

Front stay (G/H) mounts on to centre chassis at point H by 2 bolts

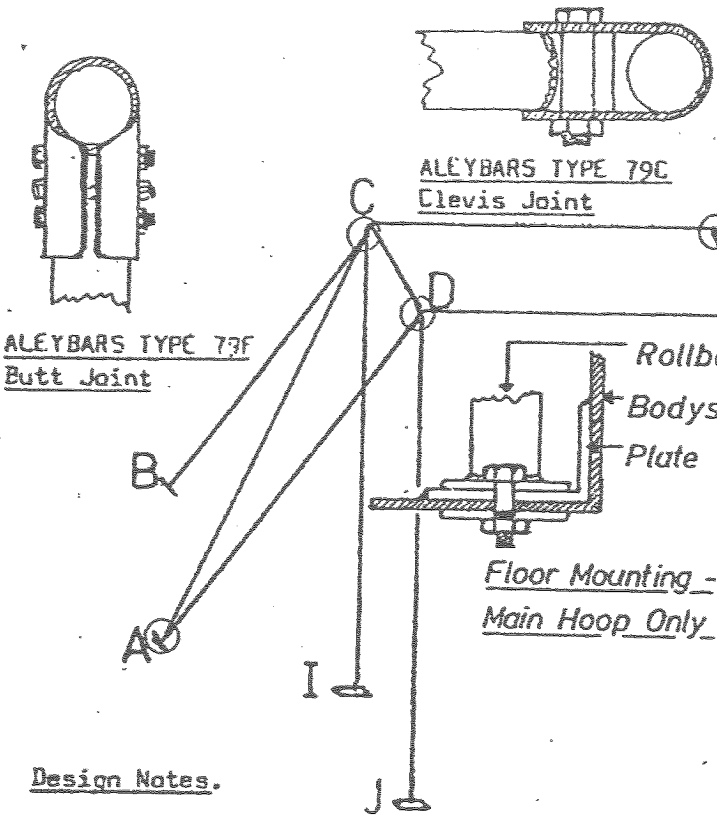
Overall width at J/K .... 39½" (100.3 cm.)

Drawing of roll-bar including details of joints and mountings.



(Signed) [signature] Eng. F.R.Ae.S.
R.A.C. GROUP 1 SCRUTINEER

(Countersigned) [signature]
MOTOR SPORTS ASSOCIATION LIMITED CLUB

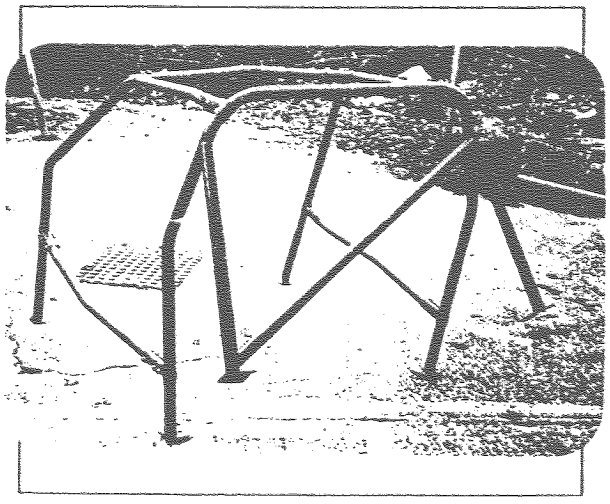


Design Notes.

Main Hoop (I,C,D,J) may contain 2 or more bends to follow body contour.
Front Section (Forward of C,D) may be omitted according to rules.
Rear Section (A,B,C,D) may be removeable by the use of Aleybars Type 79C joints at C & D.
Diagonal Strut (A,C) may be removeable by use of Aleybars Type 79C joints and is not obligatory in rallies.
Front Section (Forward of C,D) is secured to main hoop by Aleybars Type 79F joints or FIA type sleeve joints and spigots.
Front Section has Aleybars Type 79F joints at E & F for ease of fitting.

NOTE: On all cages produced after 1 March 1987 all six floor mountings - A,B,I,J,G,H on drawing - incorporate plates with three bolt holes.

Drawing of roll-bar including details of joints and mountings.



(Signed) ..... R.A.C. GROUP 1 SCRUTINEER

(Countersigned) ..... ROYAL AUTOMOBILE CLUB

DMSB

Deutscher Motor Sport Bund e.V.

Hahnstraße 70 · 60528 Frankfurt am Main · Tel. 069/6330070 · Fax 069/63300730

DMSB–ZERTIFIKAT

für Überrollvorrichtung
for roll over device
pour armature de sécurité

DMSB–Prüfbericht Nr.: **2-473/67-S**
DMSB–Testreport No.:
DMSB–Rapport d'examen no:

Seriennummer:
Serial number:
Numéro de série:

Hersteller der Vorrichtung: Wiechers GmbH, Südring 4, 31582 Nienburg/W.
Structure manufacturer: Telefon 05021 601360 Telefax 05021 12481
Constructeur de l'armature:

Typ:
Type:

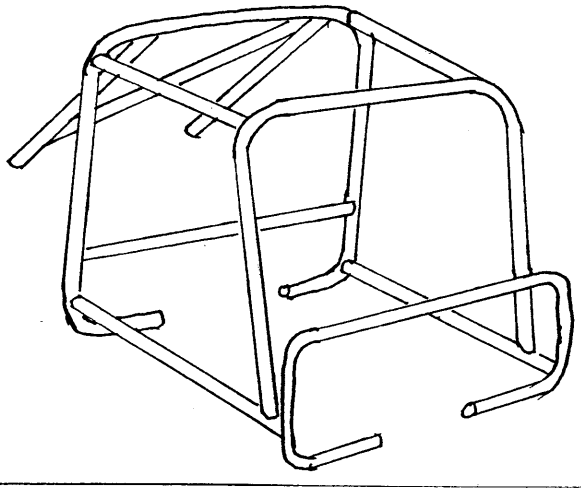
Gesamtgewicht inkl. Befestigungsvorrichtungen: **25,5 kg**
Total weight including fixations:
Poids total fixations comprises:

Verwendung in Fahrzeugen
Application in cars
Utilisation dans les véhicules

Fabrikat: **Lotus** Typ: **Elan**
Make: Type:
Marque:

Gruppe: alle DMSB-Gruppen
Group: und Anhang K
Groupe: all DMSB-groups
and appendix K

Komplette Vorrichtung
ausgebaut
Complete structure outside
the car
Armature compléte en dehors de la voiture



Anerkannter Kraftfahrzeugsachverständiger des DMSB • 67

Hiermit wird bestätigt, dass die beschriebene Überrollvorrichtung den Anforderimgem des Internationalen Automobil–Sportgesetzes der FIA entspricht, insbesondere in Bezug auf ihre Befestigungen, Vebindungen und Beanspruchungs–werte.
We certify that the present safety structure complies with the conditions international sporting code of the FIA in particular with regard to its attachments, its connections, and its stress resistance.
Nous confirmons que l'armature de sécurité décrite répond aux éxigences de la FIA, en particulier en ce qui concerne ses fixations, connexions et valeurs de résistance.

Frankfurt/Main, den 27.02.2004
Francfort/Main, le

D. Fürst
Unterschrift (DMSB)
Signature (DMSB)

WIECHERS Sport
Südring 4
31582 Nienburg
Tel. 0 50 21 - 60 13 60
Fax 0 50 21 - 1 24 81

i.A. Krampe
Unterschrift (Hersteller)
Signature (Constructor)
Signature (Constructeur)

DMSB–Prüfbericht Nr.: **2-473/67-S**
DMSB–Testreport No.:
DMSB–Rapport d'examen no:

1.	Hauptbügel Main rollbar Arceau Principal	Längsstrebe Longitudinal strut Entretoise longitudinale	Diagonalstrebe Diagonal strut Entretoise diagonale	Vordebügel Front rollbar Arceau avant
Material: : Material: I: Materiau: I:	**Stahl/steel** **St. 37**	**Stahl/steel** **St. 37**		**Stahl/steel** **St. 37**
Außendurchmesser: I: Exterior diameter: I:	**40,0 mm**	**40,0 mm**		**40,0 mm**
Wandstärke: : Wall thickness: : Epaisseur: :	**2,0 mm**	**2,0 mm**		**2,0 mm**
Streckgrenze: : Elastic limit: : Limite Elastique: :	**240 N/mm**	**240 N/mm**		**240 N/mm**
Zugfestigkeit: : Tensile strength: : Resistance a la Traction: :	**370 N/mm**	**370 N/mm**		**370 N/mm**

2.	Sonstige Streben . Other struts Outres entretoises	Sonstige Streben Other struts Outres entretoises	Sonstige Streben Other strut Outres entretoises	Sonstige Streben Other strut Outres entretoises
Bezeichg. d. Strebe: : Marking of strut: I:	**H-Strebe** **h-strut**	**Diagonalstrebe** **diagonal strut**	**hintere Längsstreben** **back longitudinal struts**	
Material: I: Material: I: Materiau: r:	**Stahl/steel** **St. 37**	**Stahl/steel** **St. 37**	**Stahl/steel** **St. 37**	
Außendurchmesser: : Exterior diameter: :	**40,0 mm**	**40,0 mm**	**40,0 mm**	
Wandstärke: : Wall thickness: : Epaisseur: :	**2,0 mm**	**2,0 mm**	**2,0 mm**	
Streckgrenze: : Elastic limit: : Limite Elastique: :	**240 N/mm**	**240 N/mm**	**240 N/mm**	
Zugfestigkeit: : Tensile strength: : Resistance a la Traction: :	**370 N/mm**	**370 N/mm**	**370 N/mm**	

3. Befestigung mit der Karosserie / Fahrgestell:
Connection to the body / chassis:
Fixation a la carrosserie / chassis:

siehe Fotos/see photos
Käfig ist mit der Karosse verschraubt.
The roll cage is screwed up with the car–body.

Art der Befestigung:
Type of connection:
Type de la fixation:

siehe Fotos/see photos

Schraubengröße:
Screw Dimension:
Dimension de Vis:

Anerkannter Kraftfahrzeugsachverständiger des DMSB • 67

DMSB Deutscher Motor Sport Bund e.V.

4. Verbindungsteile:
Connection parts:
Parts connection:

siehe Fotos/see photos
alle Verbindungen im Käfig sind verschweißt
all connection parts in the cage are welded in

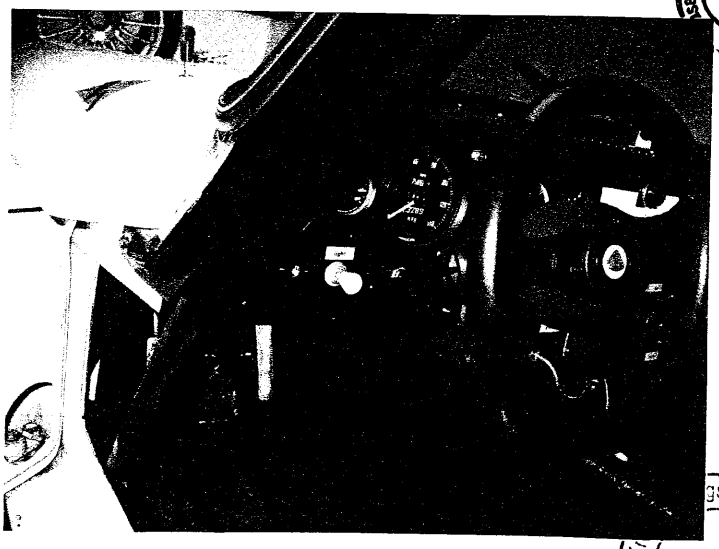
5. Bemerkungen:
Remarks:
Remarques:

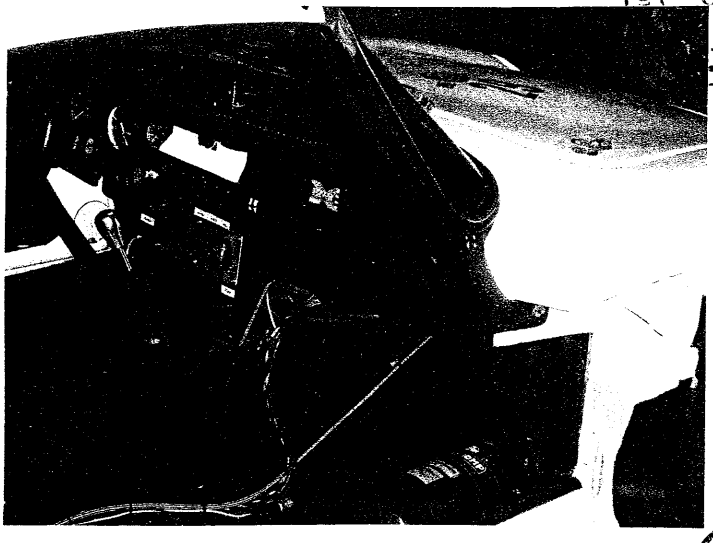
Bodenblech – Blechplatte
steelplate for car–body

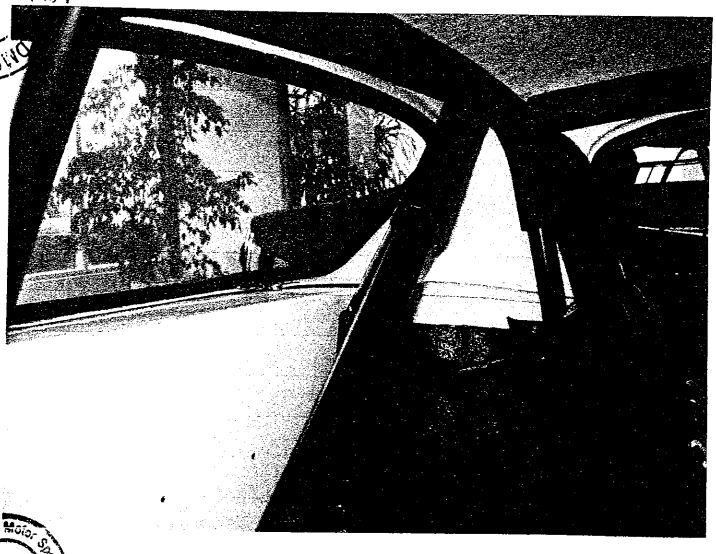
120 cm², 3 mm stark
120 cm², 3 mm thick

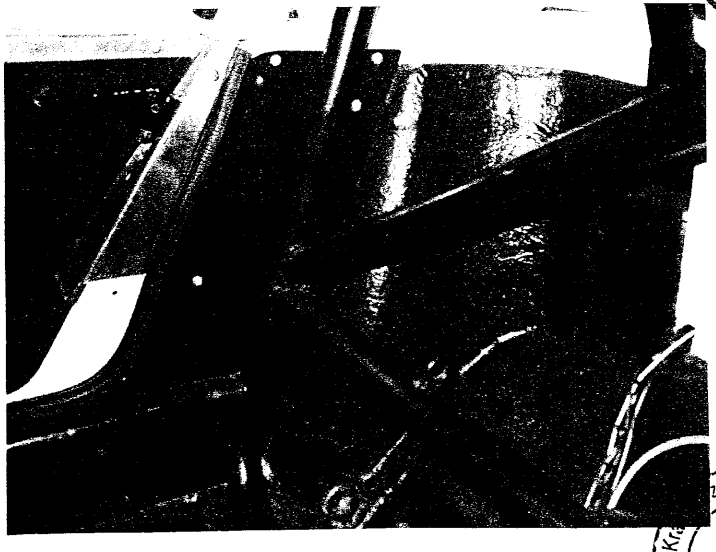
DMSB–Prüfbericht Nr.: **2-473/67-S**
DMSB–Testreport No.:
DMSB–Rapport d'examen no:

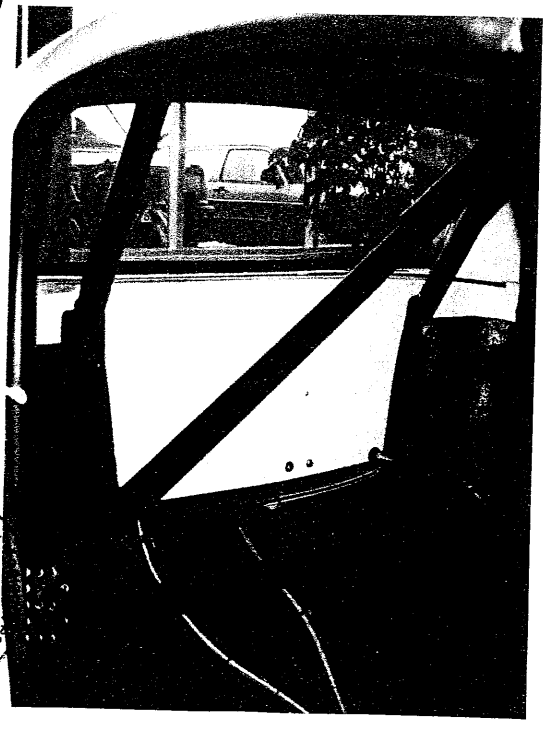
Fotos oder Zeichnungen der Befestigungen und Verbindungen:
Photos or drawing of the attachments and connections:
Photos ou dessins des fixations et raccords:











FEDERATION INTERNATIONALE DE L'AUTOMOBILE

LOTUS - ELAN PLUS TWO	7/72	3026
MARQUE ET MODELE	VALIDITE HOMOLOGATION	FICHE NR.

	3 / 1600
	GROUPE / CLASSE

EXTENSIONS	DEBUT VALIDITE	DESCRIPTION	NOTES
–	7/70	MODELE +2 S	
1/1E	7/71	MODELE +2 S 130	

Autres homologations du modèle

Vérifiée le 25/10/95 par _____ visée ce jour le _____ par _____

FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Homologation N°

3026

Groupe / Group **3 – Grand Touring**

06/02E

FICHE D'HOMOLOGATION POUR INFORMATIONS COMPLEMENTAIRES
HOMOLOGATION FORM FOR COMPLEMENTARY INFORMATION

Erratum

Véhicule : Constructeur / **Vehicle :** Manufacturer: **LOTUS**

Modèle et type / Model and type: **Elan Plus Two**

Homologation valable à partir du / Homologation valid as from: **01/01/2011**

Article	Description
	<u>For all Historic Technical Passports issued after 1 January 2011:</u> Only two of the roll cages specified on this homologation form must be used: - From page 14 to 16, the device made by "Sassa Roll Bar S.A.S." homologated on 01/01/2000 (extension 2/1V). - From page 17 to 19, the device "E1" made by "Safety Device" (extension 3/2V). <u>For all cars after 1 January 2012:</u> Same restriction.

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