



F.I.A. Recognition No. 36

ROYAL AUTOMOBILE CLUB

PALL MALL, LONDON, S.W.1.

Federation Internationale de l'Automobile.

*Form of Recognition in accordance with
Appendix J to the
International Sporting Code.*

Manufacturer LOTUS CARS LIMITED

Model ELITE

Year of Manufacture 1961

Serial No. of Chassis

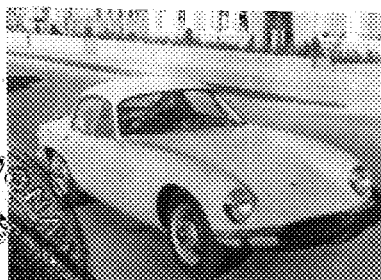
Engine

Type of Coachwork C.I. COUPE

Recognition is valid from

In category

Photograph to be affixed here & view of car from front



Dr. A. F. F. F. F.

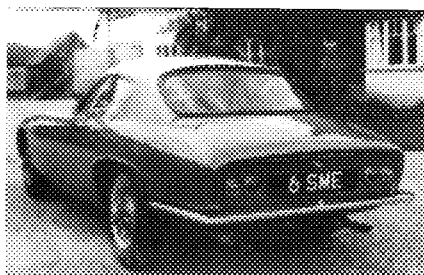


Stamp of F.I.A. to be
affixed here.

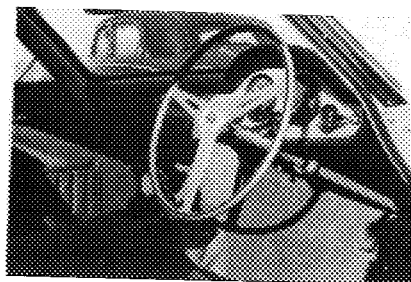
General description of car

Photographs are arranged below

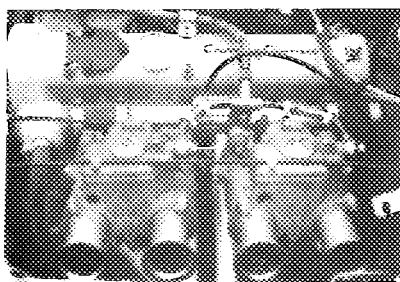
Exterior front view



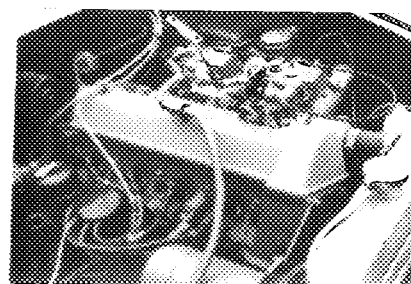
Interior front view, driver's side



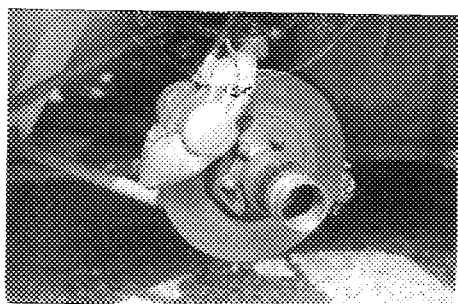
Engine compartment view



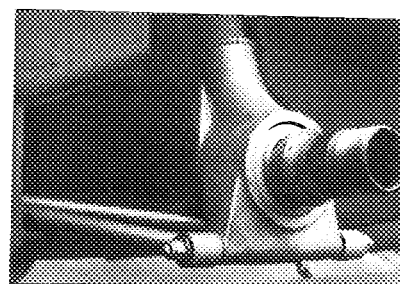
Transmission and rear view



Close-up view of the front end



Close-up view of the rear end



ENGINE

in line YES

No. of cylinders FOUR ~~XXX~~

Cycle 4 STROKE ~~XXXXXXXXXX~~

Firing order 1 - 3 - 4 - 2

Capacity 1216 c.c. Bore 76.2 m.m. Stroke 66.67 m.m.

Maximum rebore .060 Resultant capacity 1254 c.c.

Material of cylinder block ALUMINIUM Material of sleeves, if fitted CAST IRON

Distance from crankshaft centre line to top face of block at centre line of cylinders 190.5 mm ~~XXX~~

Material of cylinder head ALUMINIUM Volume of one combustion chamber 28.8 c.c.

Compression ratio 10:1

Material of piston ALUMINIUM No. of piston rings 2 compression, 1 scraper

Distance from gudgeon pin centre line to highest point of piston crown 36.207 m.m.

Bearings { Crankshaft main bearings: Type SHELL Dia. 53.975 m.m.
Connecting rod big end: Type SHELL Dia. 47.62 m.m.

Weights { Flywheel 6.82 kg.
Crankshaft 11.567 kg.
Connecting rod .461 kg.
Piston with rings .320 kg.
Gudgeon pin .099 kg.

No. of valves per cylinder Two Method of valve operation DIRECT

No. of camshafts ONE Location of camshafts O.H.C.

Type of camshaft drive DUPLEX CHAIN

Diameter of valves: Inlet 34.29 m.m. Exhaust 30.48 m.m.

Diameter of port at valve seat: Inlet 28.575 m.m. Exhaust 26.67 m.m.

Tappet clearance for checking timing: Inlet 0.01 m.m. Exhaust 0.01 m.m.

Valves open: Inlet 30° BTDC Exhaust 60° BBDC

Valves close: Inlet 60° ABDC Exhaust 30° ATDC

Maximum valve lift: Inlet 9.14 m.m. Exhaust 9.14 m.m.

Degrees of crankshaft rotation from zero to—

Maximum lift: Inlet 175° Exhaust 175°

1/2 Maximum lift: Inlet 114° Exhaust 114°

Valve springs: Inlet Exhaust

Type COIL COIL

No. per valve 2 2

Carburettor: Type HORIZONTAL (upside down, horizontal) No. fitted 2

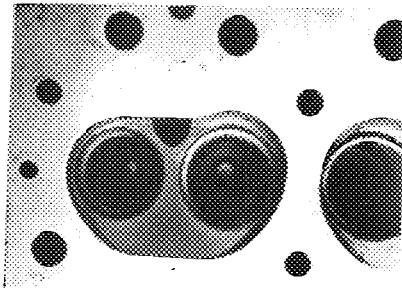
Make WEBER Model 40 DCOE

Flange diameter 40 m.m. Choke diameter 33 m.m.

Main jet identification No. 125

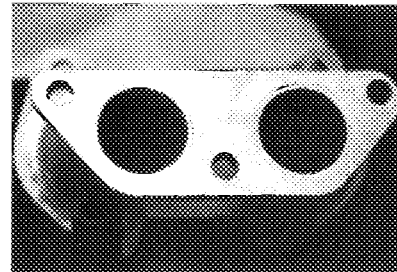
Air filter: Type No. fitted

Inlet manifold:
 Diameter of flange at carburettor 40 m.m.
 Diameter of flange at port 27.94 m.m.



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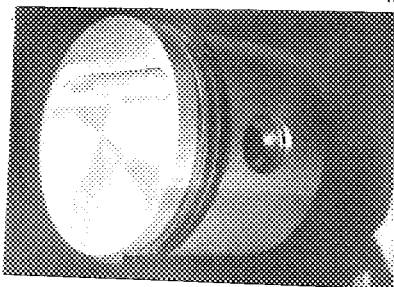
Photograph of inlet manifold to be affixed here.



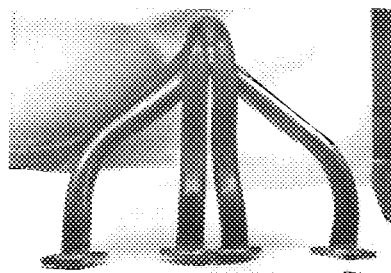
Exhaust manifold:

Diameter of flange at port 28.57 m.m.
 Diameter of flange at connection to silencer inlet pipe 38.1 m.m.

Photograph of piston showing crown to be affixed here.



Photograph of exhaust manifold to be affixed here.



ENGINE ACCESSORIES

Make of fuel pump	S.U.	No. fitted	ONE
Method of operation	ELECTRIC		
Type of ignition system	COIL		coil or magneto
Make of ignition	LUCAS	Model	D3 AH 4A
Method of advance and retard	CENTRIFUGAL		
Make of ignition coil	LUCAS	Model	H.A.12 or L.A.12
No. of ignition coils	ONE	Voltage	12
Make of dynamo	LUCAS	Model	C39-PVR2
Voltage of dynamo	12	Maximum output	19 amps.
Make of starter motor	LUCAS	Model	M35G
Battery: No. fitted	ONE	Voltage	12
		Capacity	48 at 20 amp. hour
			42 at 10

Make LOTUS Model ELITE F.I.A. Recognition No.

TRANSMISSION

Make of clutch BORG & BECK Type SINGLE DRY PLATE
Diameter of clutch plate 8" No. of plates ONE
Method of operating clutch HYDRAULIC
Make of gearbox ZAHNRADFABRIK Type S4-12
No. of gearbox ratios FOUR FORWARD, ONE REVERSE.
Method of operating gearshift DIRECT MECHANICAL
Location of gearshift CENTRAL (ON PROP-SHAFT TUNNEL)
Is overdrive fitted? NO
Method of controlling overdrive, if fitted -

	GEARBOX RATIOS		ALTERNATIVE RATIOS					
	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth	Ratio	No. of Teeth
1.	2.52	14/33			3.64	11/28	2.45	11/28
2.	1.71	20/32			2.22	20/31	1.62	19/32
3.	1.23	27/31			1.37	26/25	1.27	22/29
4.	1.00	-			1.00	-	1.00	-
5.	Z.F.					B.M.C.		

Type of final drive Hypoid Crown Wheel and Pinion
Type of differential Bevel gear or Z.F. limited slip (optional extra)
Final drive ratio 4.55:1 Alternatives 3.7; 3.9; 4.2; 4.6; 4.9; 5.4
No. of teeth 9/41 11/41; 10/39; 9/38; 8/37; 8/39; 8/43.
Overdrive ratio, if fitted -

WHEELS

Type SPOKED Weight 6.7 or 5.0 kg. X
Method of attachment 'Knock-on' Splined.
Rim diameter 381 m.m. Rim width 114.2 or 127.0 m.m. /
Tyre size Front 5.00 Rear 5.00

BRAKES

Method of operation HYDRAULIC
Is servo assistance fitted? NO
Type of servo, if fitted -
No. of hydraulic master cylinders ONE Bore 22.224 m.m.

	Front		Rear
No. of wheel cylinders	FOUR		FOUR
Bore of wheel cylinders	42.835	m.m.	38.151 m.m.
Inside diameter of brake drums	-	m.m.	- m.m.
No. of shoes per brake	-		-
Outside diameter of brake discs	241.295	m.m.	241.295 m.m.
No. of pads per brake	TWO		TWO
Dimensions of brake linings per shoe or pad (if all shoes or pads in each brake are not of same dimensions, specify each)			

	Front		Rear
Length	-	m.m.	- m.m.
	-	m.m.	- m.m.
Width	-	m.m.	- m.m.
Total area per brake	7096.76	m.m. ²	8709.66 m.m. ²

SUSPENSION

	Front	Rear
Type	WISHBONE	STRUT TYPE
Type of spring	HELICAL COIL	HELICAL COIL
Is stabiliser fitted?	YES	NO
Type of shock absorber	TELESCOPIC HYDRAULIC	TELESCOPIC HYDRAULIC
No. of shock absorbers	TWO	TWO

STEERING

Type of steering gear RACK AND PINION

Turning circle of car 10.35 m approx

No. of turns of steering wheel from lock to lock 2½

CAPACITIES AND DIMENSIONS

Fuel tanks 47.25 rear 32.75 o/s litres Sump 4.55 litre X

Radiator 6.75 litres

Overall length of car 378 cm. Overall width of car 51 cm.

Overall height of car, unladen (with hood up, if appropriate) 119.5 cm.

Distance from floor to top of windscreen:

Highest point 90 cm. Lowest point 36.5

Width of windscreen:

Maximum width 119.5 cm. Minimum width 101.5

Interior width 120.5 cm.

No. of seats TWO

Track: Front 120.5 cm. Rear 122 cm.

Wheelbase 223.5 cm. Ground clearance 15.2 m.m.

(To be measured at the immediate rear of the steering wheel, and the width quoted to be maintained in a vertical plane of not less than 25 cms.)

Overall weight with water, oil and spare wheel, but without fuel 576 kgs.

Optional equipment affecting preceeding information:—

Dynamo 22200 - 23 amp. maximum output.

Tyres. Dunlop 500 x 15
 Michelin 135 x 15 4 ply rating high performance
 Pirelli 155 x 15 tyres.
 Firestone 480 x 15

Oil Cooler. Type No.C.94470

Manufactured by H.O. Serck, Manchester, England.

Optional. Carburettors 1 or 2 x H4 S.U. units.

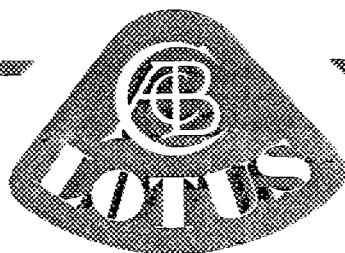
Z.F. limited slip differential h.292.

Additional fuel pump.

HOMOLOGATION FORM - APPENDIX J. CATEGORY 2.

LOTUS

FITZROY 1777



ENGINEERING Co. Ltd

Directors: A. C. B. CHAPMAN, B.Sc. (Eng.), S. F. CHAPMAN, M.Inst.E., A.M.Inst.P. H. P. CHAPMAN

7 TOTTENHAM LANE, HORNSEY, LONDON, N.8

AUTOMOBILE AND COMPONENT MANUFACTURERS - RACING AND COMPETITION CAR DESIGN AND DEVELOPMENT

Your ref: MANUFACTURER: LOTUS

Our ref:

MODEL TITLE: ELITE TWO SEATER COUPE

NUMBERS AND LETTERS OF PREFIXES: Engine: FWE/
Chassis: From 1000 R.H. or L.R. Drive.

DESCRIPTION OF BODY: Two Seater Coupe.

DESCRIPTION OF ENGINE: 1.3 Litre. 4 Cylinder, single O.H.C.
8.5 or 10.5 compression ratio.

DESCRIPTION AND POSITION OF CLUTCH AND GEARS - MATERIAL OF CASINGS:

CLUTCH

Borg & Beck single 8" dry plate
mounted on engine flywheel. Aluminium
clutch housing in unit with gear box
casing.

GEARS

Four speed single helical and
straight spur gears, synchromesh.

SUSPENSION. Front: wishbone coil spring suspension
Rear: strut type independent coil spring.

TOTAL WEIGHT, WITH FUEL. (tolerance of 5% permitted) 10% cwt.

WHEEL BASE: 88"

TRACK: Front: 47"
Rear: 48"

WHEELS: Wire or disc

TYRES: 480 - 520 x 15 or 135 x 15 front and rear.

INNER TUBES: 480 - 520 x 15 or 135 x 15 front and rear.

RIMS: 4"

ENGINE: (desaxe or not) Not.

BORE: 76.2 mm.

MANUFACTURERS OF THE LOTUS CHASSIS FRAME



MAXIMUM REBORE:

TOLERANCE: 2.5 mm.

STROKE: 66.6 mm.

CYLINDER CAPACITY: 1216 c.c.

CARBURETTOR TYPE: Twin S.U. Standard, Single S.U. - Optional.

IGNITION SYSTEM: Coil.

TYPE: Coil and distributor

MAKE: Lucas

NUMBER OF RATIOS IN GEARBOX: 4 and reverse.

Ratio in First gear	3.67:1	No. of gears in gear:	4	
" " Second "	2.20:1	" " " " "	4	
" " Third "	1.32:1	" " " " "	4	
" " Fourth "	1 - 1	" " " " "	-	
or				
" " First "	2.45	" " " " "	4	
" " Second "	1.62:1	" " " " "	4	
" " Third "	1.268:1	" " " " "	4	
" " Fourth "	1 - 1	" " " " "	-	

OVERDRIVE (if any) No.

AXLE RATIOS: 5.375, 4.875, 4.55, 4.22, 3.73.

Internal Measurements:

Measurement 'D'. Height taken vertically at 15 cm. from the back on top of the front cushion and rear cushion - (minimum 85 cm.)

Front: 86 cm.

Rear: -

The Measurements are therefore:

$$A + B + C = 125 \text{ cm.}$$

Inside width to be measured 15 cm. from the back of the front and rear seats and on top of the seats.

Front Width: 125 cm.

Rear Width: -

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

SAFETY ROLL BAR CERTIFICATE

BLOCK CAPITALS

Manufacturer: COLIN MUXROVE RACING Roll Bar Model No/Designation: LE/CNR 01

Address: LANES END GARAGE, KENILWORTH RD., MEER END
NR. KENILWORTH, WARCS. CV2 1PT

CAR/S FOR WHICH ROLL BAR IS DESIGNED

Make: LOTUS ELITE FIA Homologation No: 93/1373
Model s: ELITE (CAR 2417 GTS)
Weight of Car/s 1232 lbs 550 kgs

ROLL BAR SPECIFICATION

Main tube Dia: 1 1/2 ins. 38.1 mm. Brace/s Dia 1 1/4 ins. 31.75 mm. 1 3/4"; 44.45 mm
Thickness: 0.065 ins. 1.65 mm. Thickness 0.058 ins. 1.47 mm. 0.049"; 1.25 mm
Type of welding: GAS Weight of total assembly 17.92 lbs. 8 kgs
Type of material: 4130 HEAT TREATED - ALLOY STEEL Material Specification "T45"; FULL SPEC. ENCLOSED
Type of mounting: HIGH TENSILE BOLTS

DECLARATION BY DESIGNER for Roll Bars not complying with FIA design details

I declare the roll bar described has been *

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

(b) shown by own stress calculations

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

To meet the strength requirements specified in current FIA 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: 20th August 1996 Signature: Richard Haines Name: RICHARD HAINES

Professional Qualifications: C. Eng. H. I. Mech. E.

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

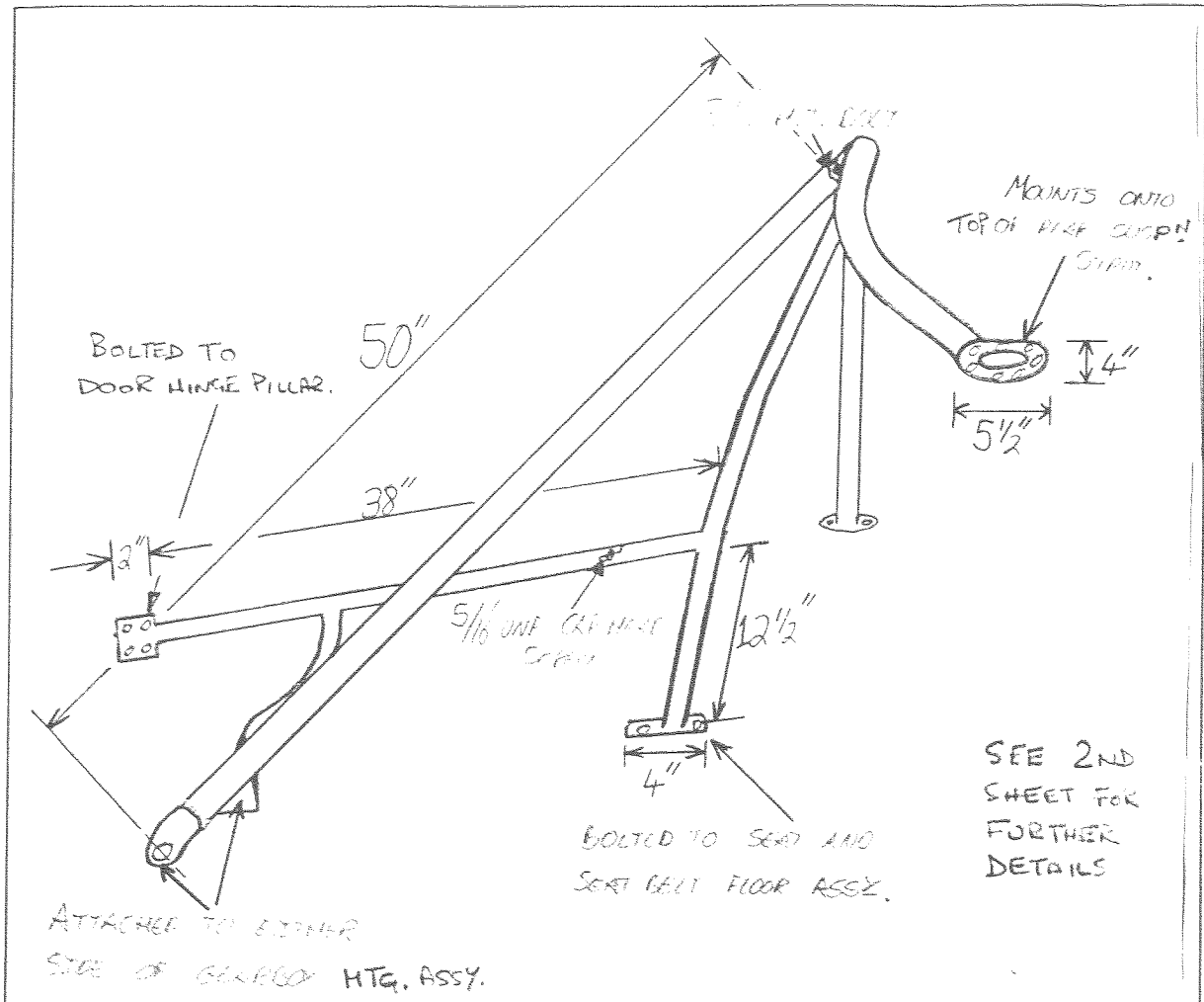
DECLARATION BY MANUFACTURER I certify that the present safety structure complies with the conditions of the FIA Appendix J. In particular with regard to its attachments, its connections, and its stress resistances.

Date: 23.7.96 Signature: Colin Muxrove Name: COLIN MUXROVE

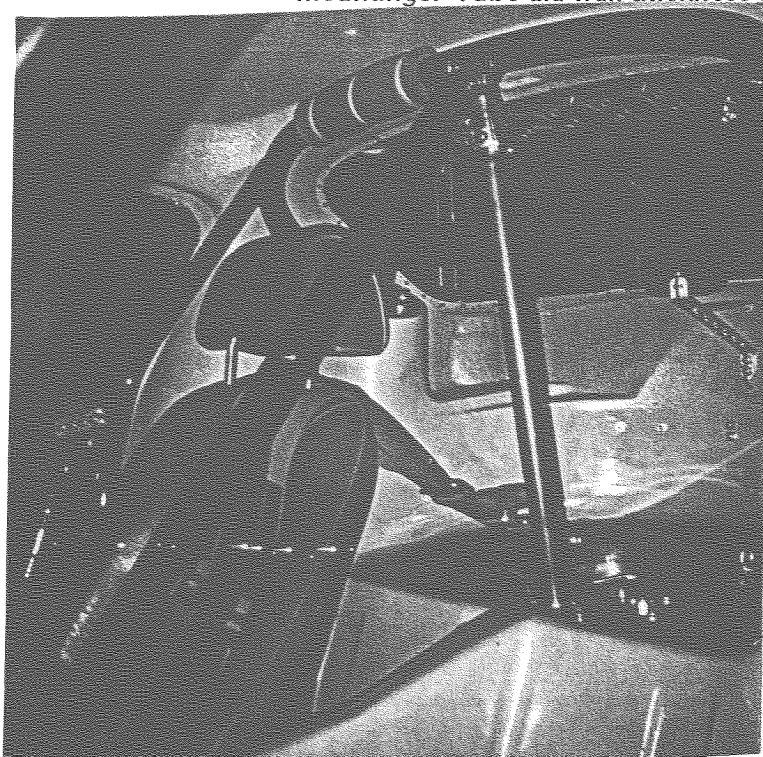
Status: PERMANENT

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

NOT VALID UNLESS PERFORATED WITH RACMSA SEAL.



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



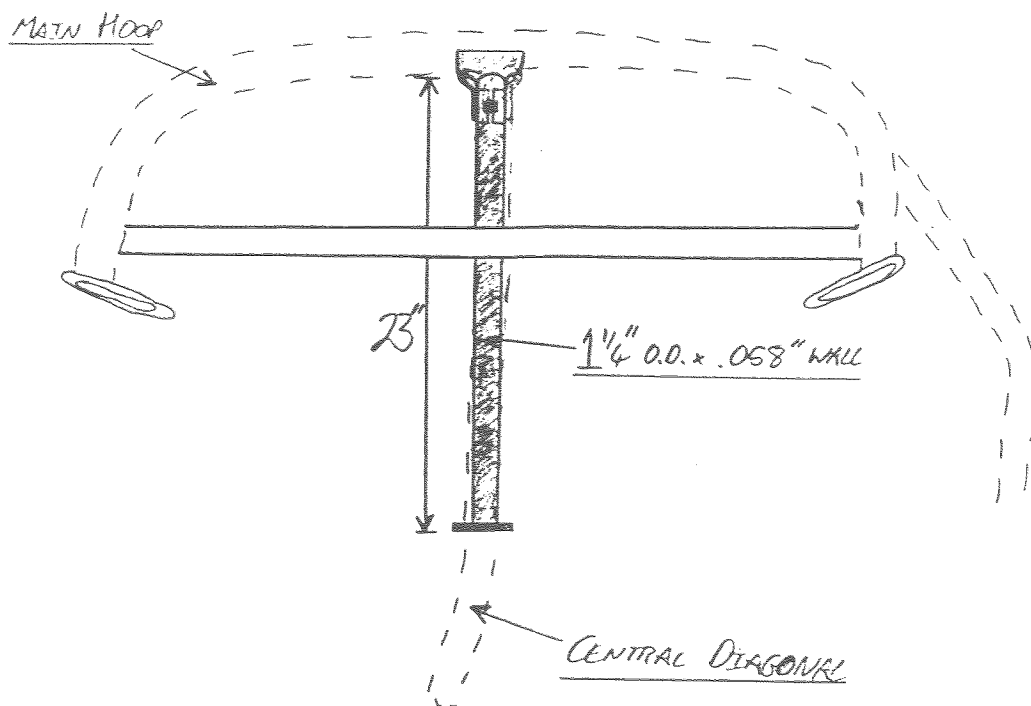
(Signed): 
 RACMSA TECHNICAL COMMISSIONER

(Countersigned): 
 RACMSA LIMITED 23 8.96

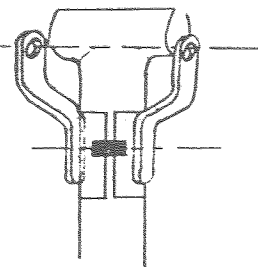


THE RACMSA ACCEPT THAT THIS DOCUMENT HAS BEEN COMPLETED IN ACCORDANCE WITH THE REGULATIONS.

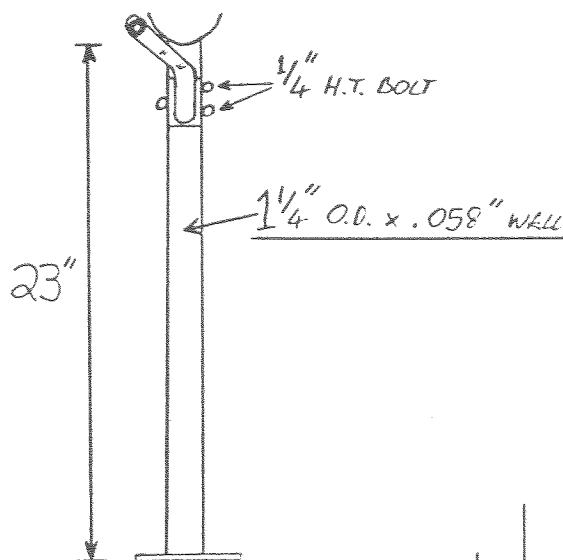
NOT VALID UNLESS PERFORATED WITH AN RACMSA SEAL



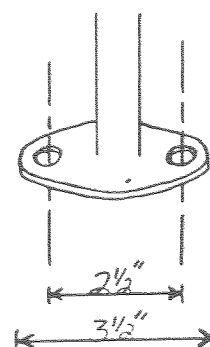
5/16" H.T. Bolt



THE TOP OF THE BAR IS MOUNTED AND CLAMPED AT THE JUNCTION OF THE MAIN HOOP AND CENTRAL DIAGONAL. THE CLAMP RESTRICTS LATERAL MOTION IN A POSITIVE MANNER. THE SIDE BOLT THEN FIXES THE CENTRAL DIAGONAL TO THE MAIN HOOP. THE YOKE ELIMINATES FORE AND AFT MOTION, AND VERTICAL MOTION.

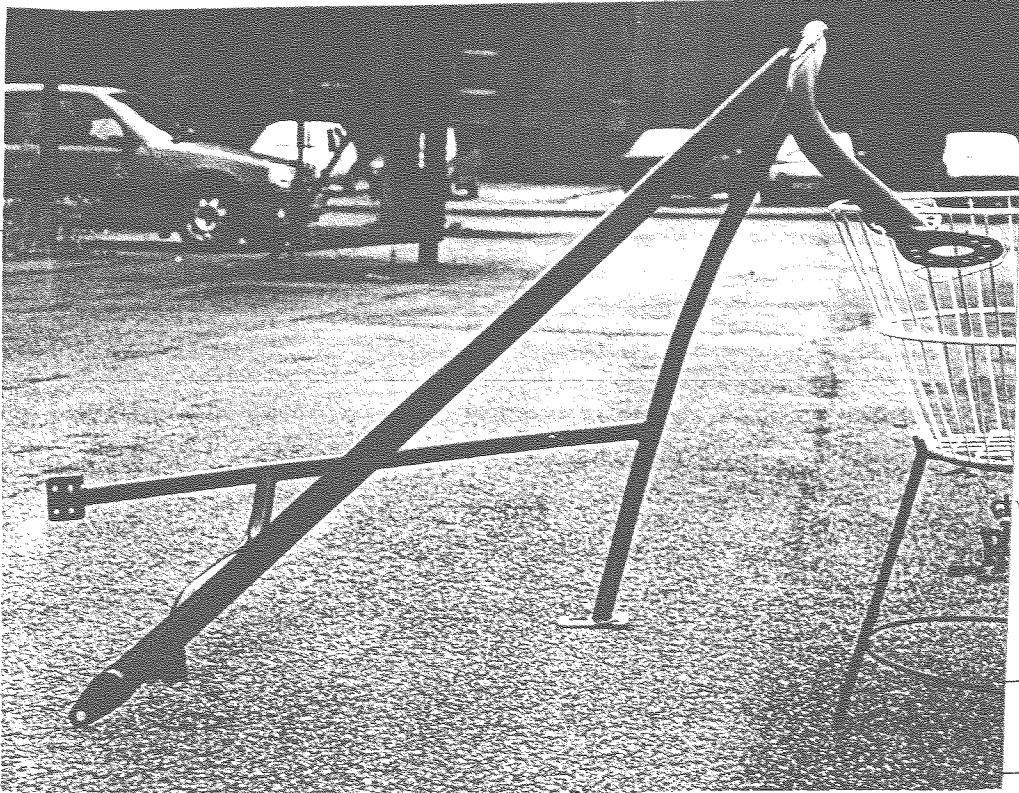


THE BOTTOM OF THE BAR IS LOCKED TO REAR FLOOR ASSEMBLY.



Make LOTUS Model ELITE N° 1467

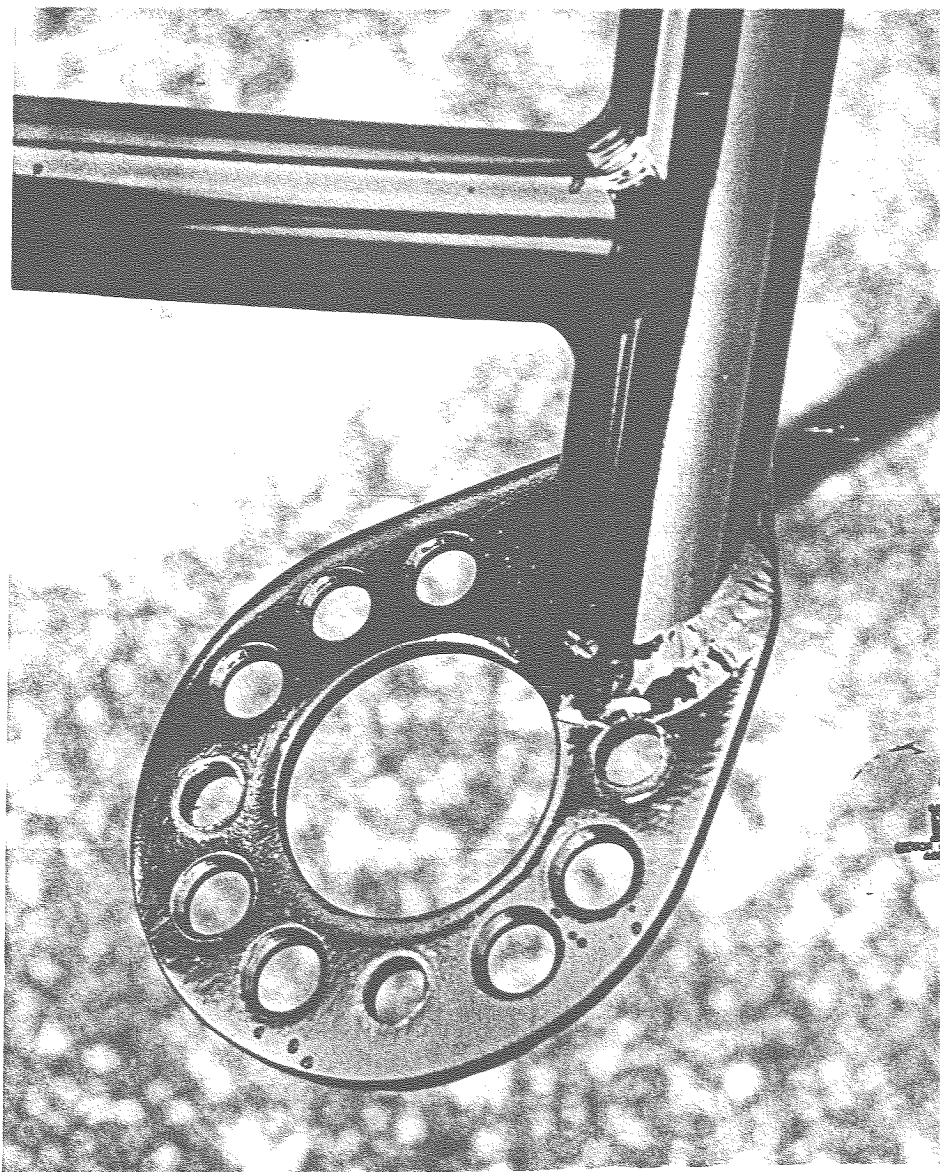
PHOTOS



MAKE - LOTUS

MODEL - ELITE.

1467





RECEIVED

- 4 AUG 1984

TECHNICAL SERVICES

**OBERSTE NATIONALE SPORTKOMMISSION
FÜR DEN AUTOMOBILSPORT IN DEUTSCHLAND**

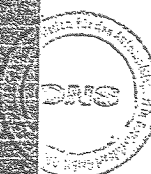
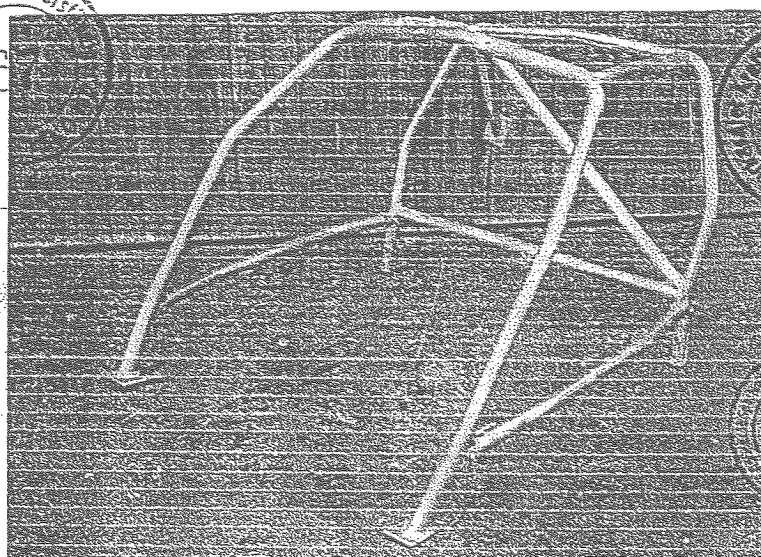
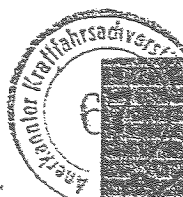
WAIDMANNSTR. 47, 6000 FRANKFURT/MAIN 70, TEL. (0 69) 63 50 97

6330070

ZERTIFIKAT

Certifikat / Certificat

für Überrollbügel / Überrollkäfig / Ersatzkonstruktion

For Rollbar / Rollcage / Substitute-Construction
pour arceau de sécurité / cage de sécurité / construction de remplacementLaut Prüfbericht Nr.: 308/67
According to Testreport No.
Conformément au rapport d'examen n°:Hersteller: Wiechers GmbH, Rudolf- Diesel- Str. 6, 3070 Nienburg
Constructor
Constructeur: Telefon 05021/5066Typ:
TypeGewicht: Stahl / steel 25 kg
Weight
Poids: Aluminium / alloy 20 kgVerwendung in Fahrzeugen
Application in cars
Utilisation dans les véhiculesFabrikat: Lotus
Constructor
MarqueTyp: Elite
TypeGruppe: alle Klassen ge-
Group mäß Anhang K/
Groupe all classes
according
appendix K

Hiermit wird bestätigt, daß der beschriebene Überrollbügel den Anforderungen des Internationalen Automobil-Sportgesetzes der FIA und den hierzu erlassenen Bestimmungen der ONS entspricht.

Hereupon it is confirmed that the described rollbar is in accordance with the requirements of the International Automobile Sports Code and the regulations enacted by the ONS about them.

Nous confirmons que l'arceau de sécurité décrit dans le présent certificat répond aux exigences du Code Sportif international de l'Automobile de la FIA ainsi qu'aux prescriptions de l'ONS à ce sujet.

Frankfurt/Main, den 11.06.90
Frankfurt/Main, leUnterschrift (ONS)
Signature (ONS)Rudolf-Diesel-Str. 6, 3070 Nienburg
Telefon (0 50 21) 50 66Unterschrift (Hersteller)
Signature (Constructor)
Signature (Constructeur)

1. Hauptbügel

Main Hoop / Arceau Principal

Material:
Material / Matériau:

Stahl / steel
St. 52

Aluminium / alloy
AL Zn 4,5 Mg

Streckgrenze: N/mm²
Elastic Limit / Limite Élastique:

340 N / mm²

210 N / mm²

Zugfestigkeit: N/mm²
Tensile Strength / Résistance à la Traction:

510 N / mm²

340 N / mm²

Durchmesser in mm:
Diameter / Diamètre:

40 mm

40 mm

Wandstärke in mm:
Wall Thickness / Épaisseur:

2 mm

3,5 mm

Bemerkungen:
Remarks / Remarques:

2. Längsstreben

Longitudinal Brace-Rods / Jambes de Force Longitudinales

Material:
Material / Matériau:

Stahl / steel
St. 52

Aluminium / alloy
AL Zn 4,5 Mg

Streckgrenze: N/mm²
Elastic Limit / Limite Élastique:

340 N / mm²

210 N / mm²

Zugfestigkeit: N/mm²
Tensile Strength / Résistance à la Traction:

510 N / mm²

340 N / mm²

Durchmesser in mm:
Diameter / Diamètre:

40 mm

40 mm

Wandstärke in mm:
Wall Thickness / Épaisseur:

2 mm

3,5 mm

Bemerkungen:
Remarks / Remarques:



3. Diagonalstrebe

Diagonal Strut / Renfort Diagonal

Material:
Material / Matériau:

Stahl / steel
St. 52

Aluminium / alloy
AL Zn 4,5 Mg

Streckgrenze: N/mm²
Elastic Limit / Limite Élastique:

340 N / mm²

210 N / mm²

Zugfestigkeit: N/mm²
Tensile Strength / Résistance à la Traction:

510 N / mm²

340 N / mm²

Durchmesser in mm:
Diameter / Diamètre:

40 mm

40 mm

Wandstärke in mm:
Wall Thickness / Épaisseur:

2 mm

3,5 mm

Bemerkungen:
Remarks / Remarques:



4. Befestigung
Connection/Fixation

für Stahl u. Aluminium
for steel and alloy

Art:
Type/Type:

siehe Fotos/ see photos

Schraubengröße:
Screw Dimensions/Dimensions de Vis:

8 mm $\varnothing$ 8 g, 10 mm $\varnothing$ 8g

Bemerkungen:
Remarks/Remarques:

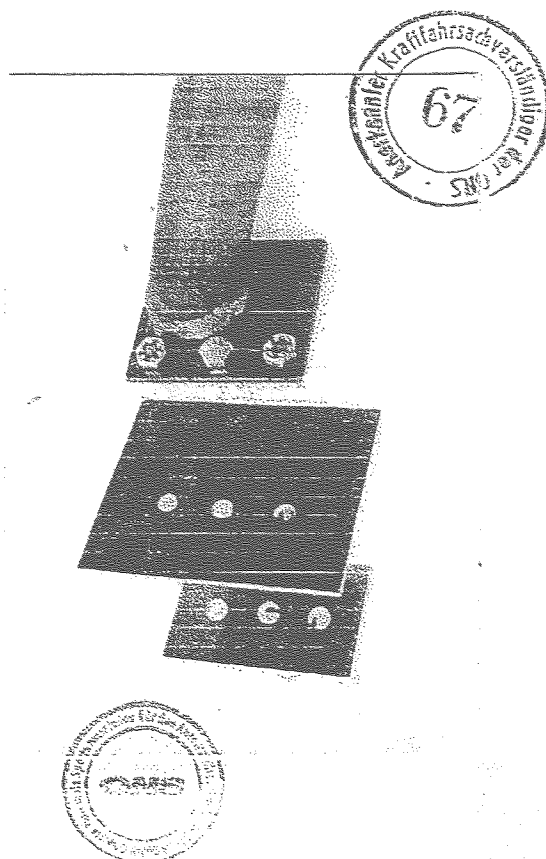
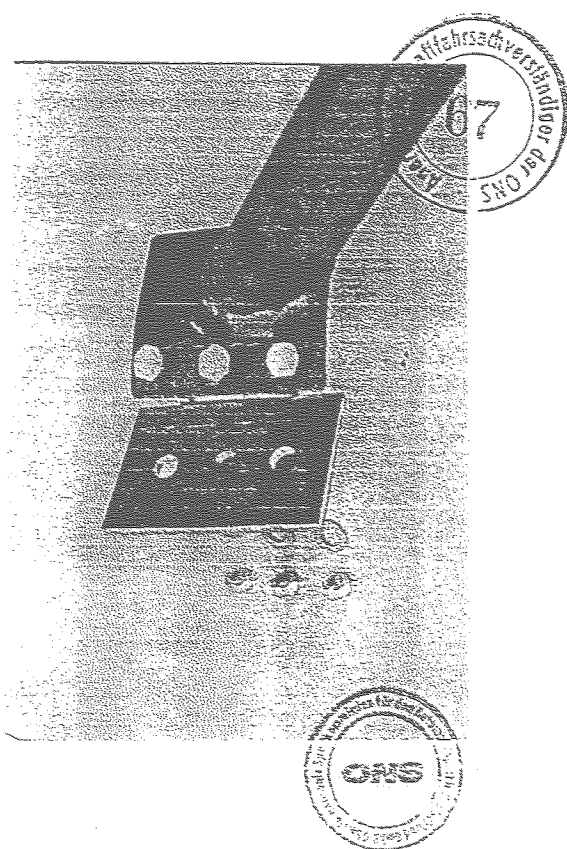
Bodenblech- Blechplatte 120 cm², 3mm stark
steelplate for car- body 120 cm², 3mm thick

5. Verbindungsteile
Connection Parts/Parts Connection

siehe Fotos/ see photos

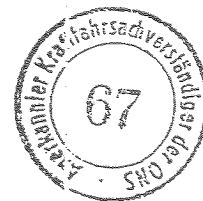
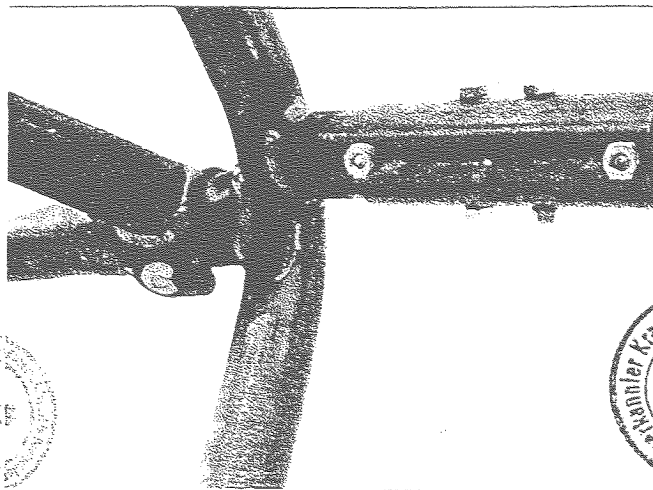
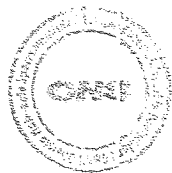
Fotos oder Zeichnungen der Befestigungen an der Karosserie:

Photos or drawings of the attachments on the Body:
Photos ou dessins des fixations sur la coque:

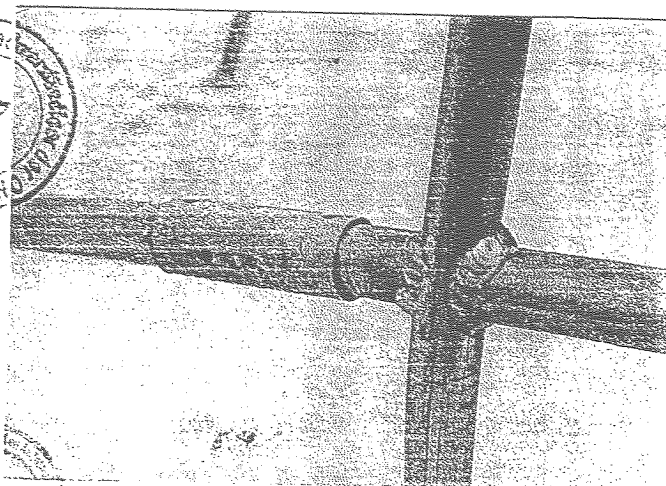
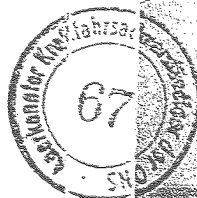
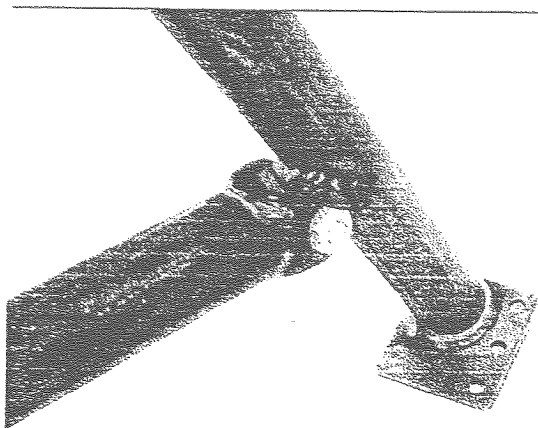


Fotos oder Zeichnungen der Befestigungen an der Karosserie:

Photos or drawings of the attachments on the Body:
Photos ou dessins des fixations sur le corps:

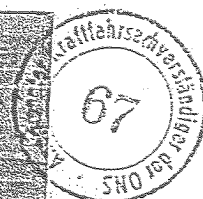
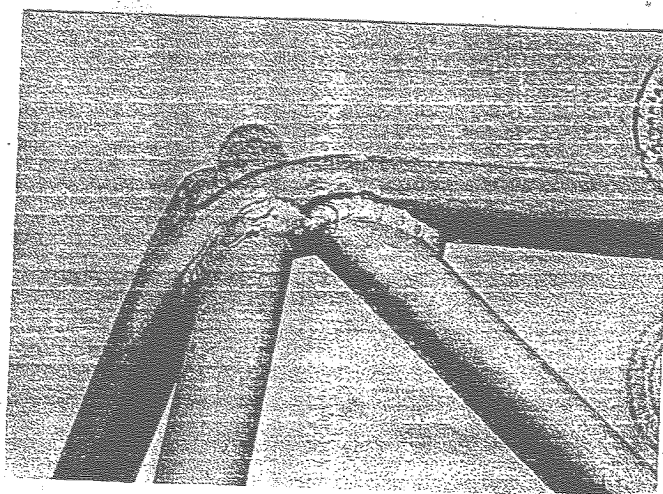


Rohrverbindung mit Muffe
sleeve-coupling



Flankenschutz, demontierbar
side-protection, detachable

H-Strebe, demontierbar
H-strut, detachable



Diagonalstrebe, demontierbar
diagonal-strut, detachable

LOTUS - ELITE

MARQUE ET MODELE

36

FICHE NR.

GT/1300

GROUPE / CLASSE

[illegible]

Autres homologations du modèle

Vérifiée le 6/10/95 par [Signature] visée ce jour le _____ par _____