



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 G.T. COUPE

Recognition is valid from _____ In category _____

Photograph to be affixed here $\frac{1}{2}$ view of car from front



Ar. de 4 fibres

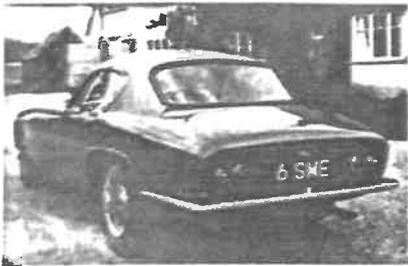


Stamp of F.I.A. to be
affixed here.

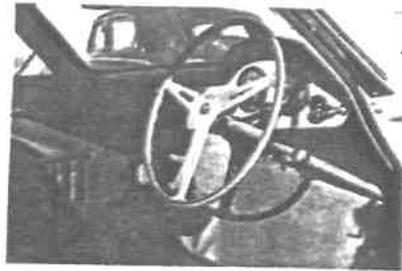
General description of car:

Photographs to be affixed below.

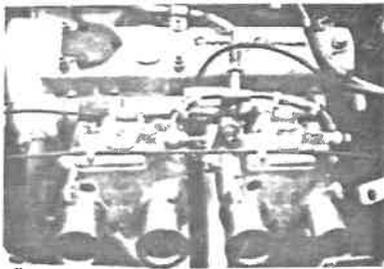
3/4 view of car from rear left.



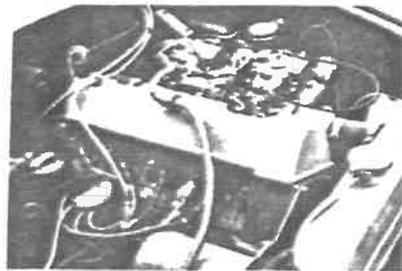
Interior view of car through driver's door



Engine unit with accessories from right.



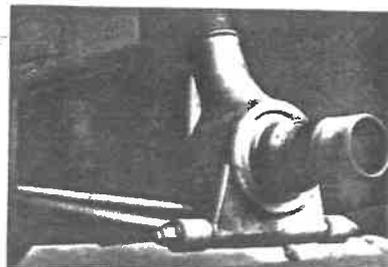
Engine unit with accessories from left.



Front axle complete (without wheels).



Rear axle complete (without wheels)



ENGINE

In line YES

No. of cylinders FOUR ~~XXX~~

Cycle 4 STROKE ~~opposed~~ 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

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 scrape

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°

¼ Maximum lift: Inlet 114° Exhaust 114°

Valve springs: Inlet COIL Exhaust COIL

Type COIL No. per valve 2

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

Make WEBER Model 40 DCOE

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

Main jet identification No. 125

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.
 Over-drive 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. y
 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
Inside diameter of brake drums	-	m.m.	-
No. of shoes per brake	-		-
Outside diameter of brake discs	241.295	m.m.	241.295
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.	-
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 cm.

Width of windscreen:

Maximum width 119.5 cm. Minimum width 101.5 cm.

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 preceding information:—

Dynamo c 22290 - 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.I.Mech.E., 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 C.H.C.
8.5 or 10.5 compression ratio.

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

<u>CLUTCH</u>	<u>GEARS</u>
Borg & Beck single 8" dry plate mounted on engine flywheel. Aluminium clutch housing in unit with gear box casing.	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% cwts.

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: -

The Royal Automobile Club

Pall Mall, London, S.W.1



Please address all Communications to

THE SECRETARY

Quoting the following Reference :

CBE/267.

Telegram: AUTOMOBILE LONDON
Telephone: WHITEHALL 2345 (26 lines)

29th. April, 1961.

Monsieur H. Schroeder,
Secretary, C.S.I.,
Federation Internationale de l'Automobile,
8 Place de la Concorde,
Paris VIIIe,
France.

Dear M. Schroeder,

Please find enclosed seven forms of recognition for the Lotus Elite. These are of the new type, and designed to replace the older, duplicated forms, which is why I am sending them direct to you rather than through M. Peyerimhoff.

Would you please stamp and return the two original copies, and also stamp one of the photostat copies and forward it to the Monza Organising Committee, who will require a form for their coming race meeting?

Yours sincerely,

Bruce Burn,
for Manager,
Competitions Dept.

The Royal Automobile Club

Pall Mall, London, S.W.1.

132.131

Please address all Communications to

THE SECRETARY

Quoting the following Reference :

C RE/DHD/SMW/3372



Telegrams: AUTOMOBILE LONDON
Telephone: WHITEHALL 2345 (26 lines)

Monsieur H. Schroeder,
F.I.A.,
8, Place de la Concorde,
Paris 8, France.

11th February 1959.

Dear Monsieur Schroeder,

Lotus Elite.

I enclose herewith copies of photographs and forms of recognition for this vehicle with a request for it to be homologated as a Grand Touring car. I would certify that the minimum production requirement has now been exceeded.

Yours sincerely,

D.H. Delamont.

Manager - Competitions Dept.

Enc.



RACMSA Recognition No: 1467

Date Valid From: 230896

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

SAFETY ROLL BAR CERTIFICATE

BLOCK CAPITALS

Manufacturer: COLIN MICKROVE RACING Roll Bar Model No/Designation: LE/CHR 01

Address: LANES END GARAGE, KENJWORTH RD., MEER END, NR. KENJWORTH, WARKS, CVR 1PT

CARS FOR WHICH ROLL BAR IS DESIGNED

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

ROLL BAR SPECIFICATION

Main tube Dia: 1 1/2 ins. 38.1 mm. Brackets 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 Hayes Name: RICHARD HAYES
Professional Qualifications: C. Eng. H. I. Mech. E.

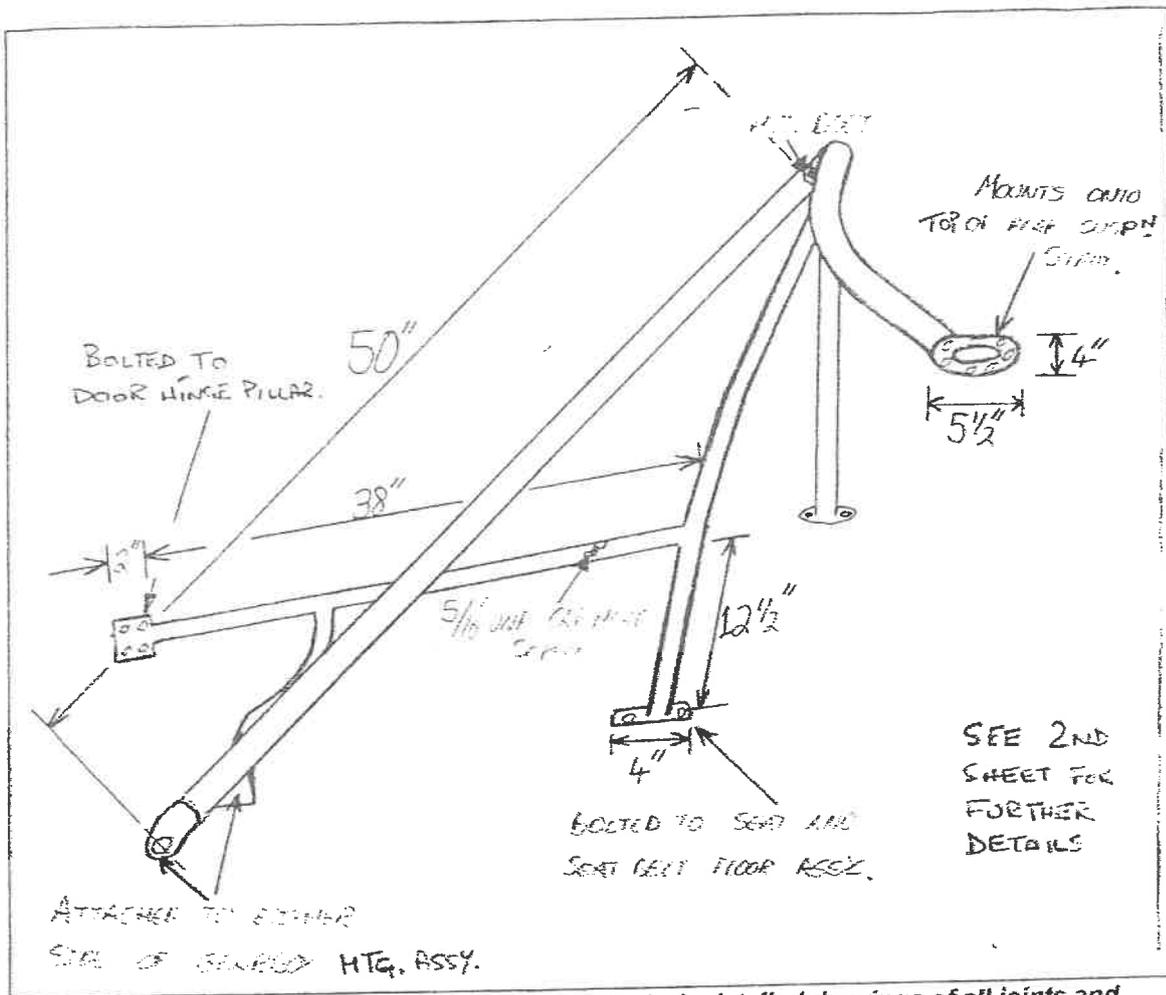
Acceptable signatories must be a Corporate Member of the Royal Aeronautical Society or the Institution of Civil, Mechanical or Structure Engineers.

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.

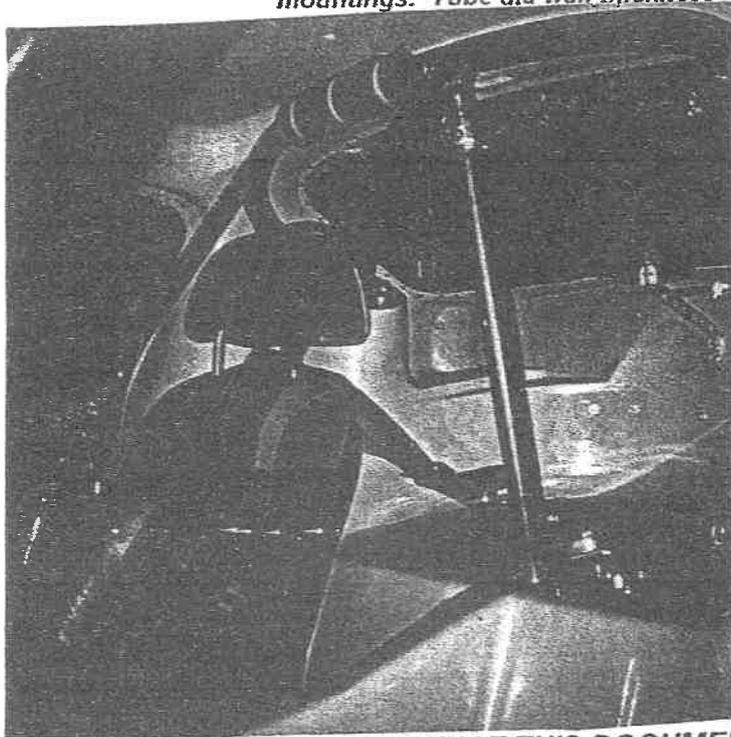
Date: 23.7.96 Signature: Colin Mickrove Name: COLIN MICKROVE
Status: Principal

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.



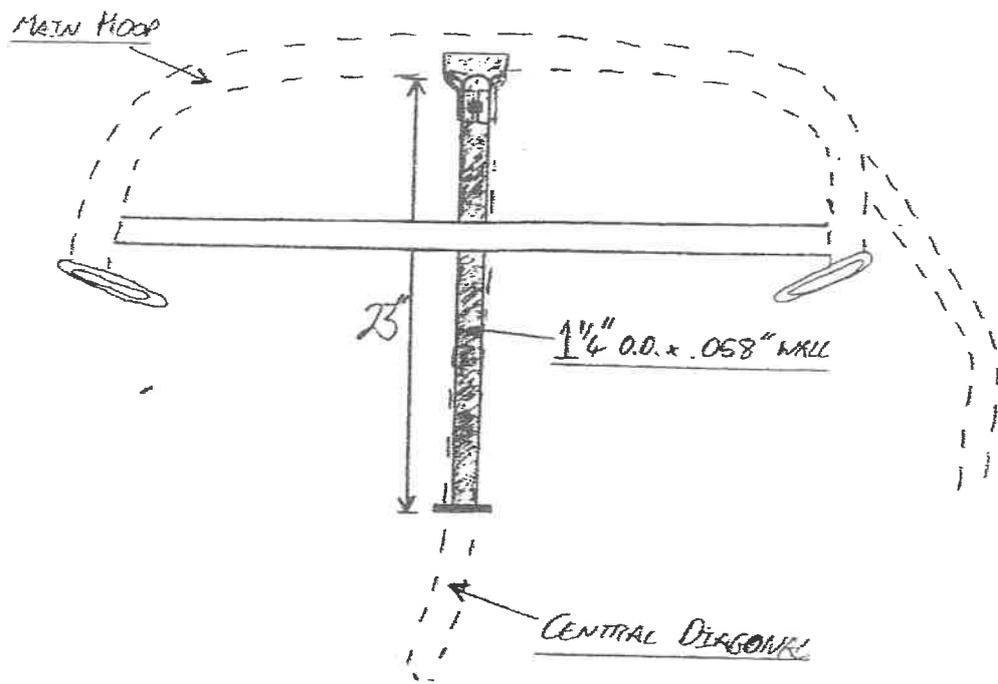
(Signed): RACMSA TECHNICAL COMMISSIONER

(Countersigned): RACMSA LIMITED 23 8.96

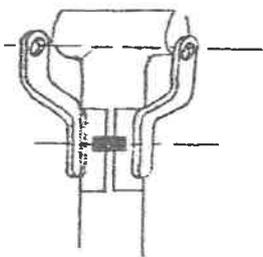


THE RACMSA ACCEPT THAT THIS DOCUMENT HAS BEEN COMPLETED IN ACCORDANCE WITH THE REGULATIONS.

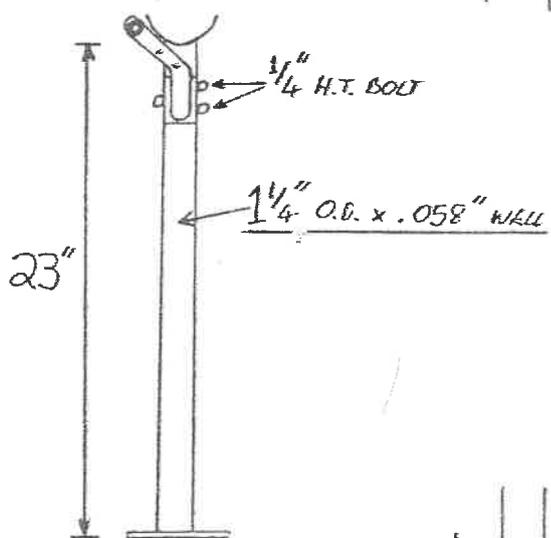
NOT VALID UNLESS PERFORATED WITH AN RACMSA SEAL



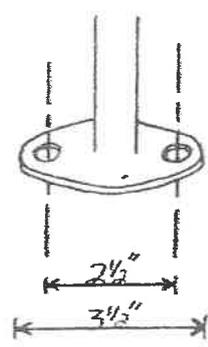
5/16" H.T. Bolt

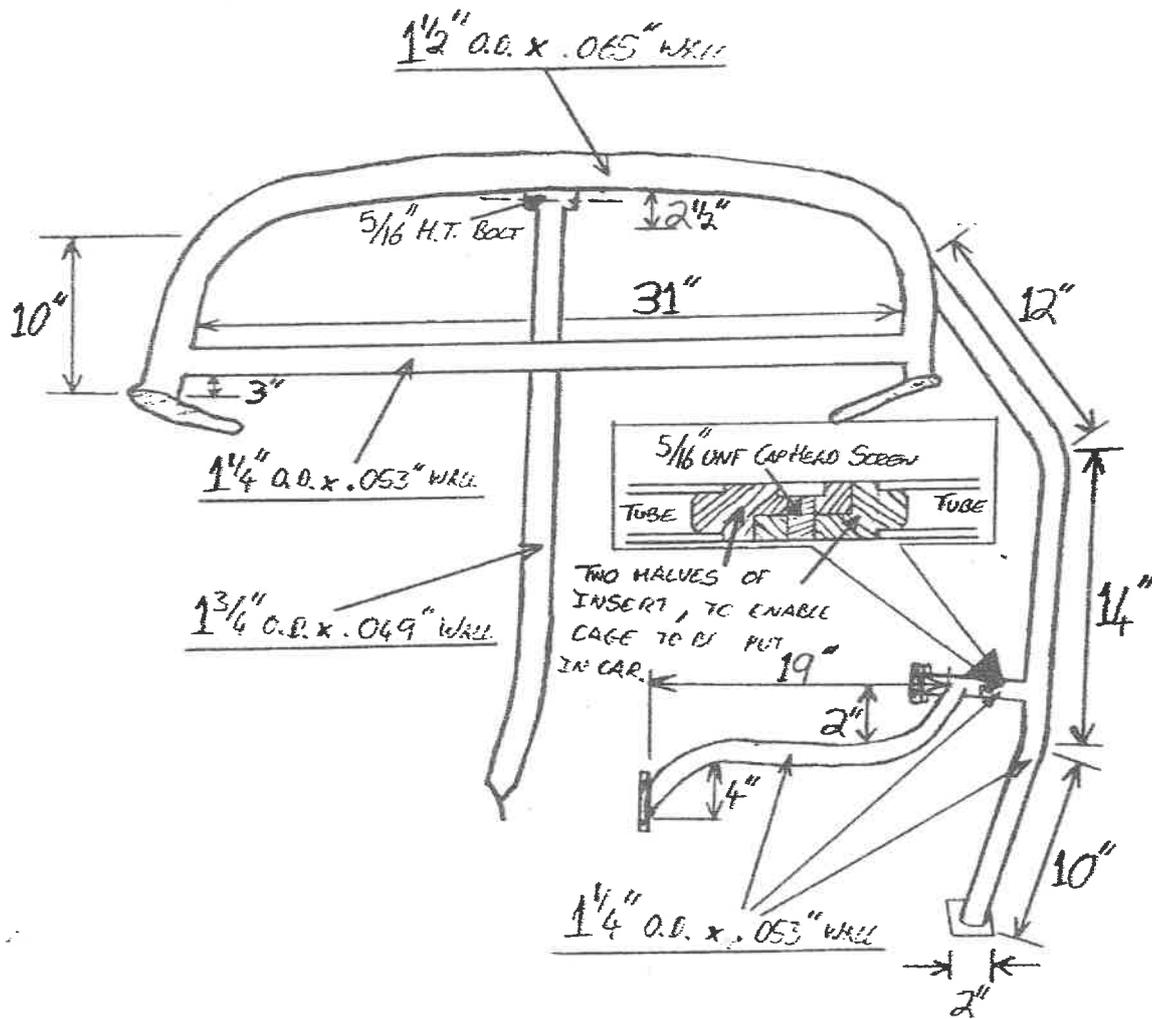


THE TOP OF THE BAR IS MOUNTED AND CLAMPED TO THE JUNCTION OF THE MAIN HOOP AND CENTRAL ASSEMBLY. THE CLAMP PROVIDES LATERAL HOLDING A POSITIVE LOCK ON THE SIDE LOCK WHICH FIXES THE CENTRAL ASSEMBLY TO THE MAIN HOOP. YOUR DIMENSIONS FOR ALL PARTS ARE TO BE USED.



THE BOTTOM OF THE BAR IS ATTACHED TO REAR TO ASSEMBLY.





Make

LOTUS

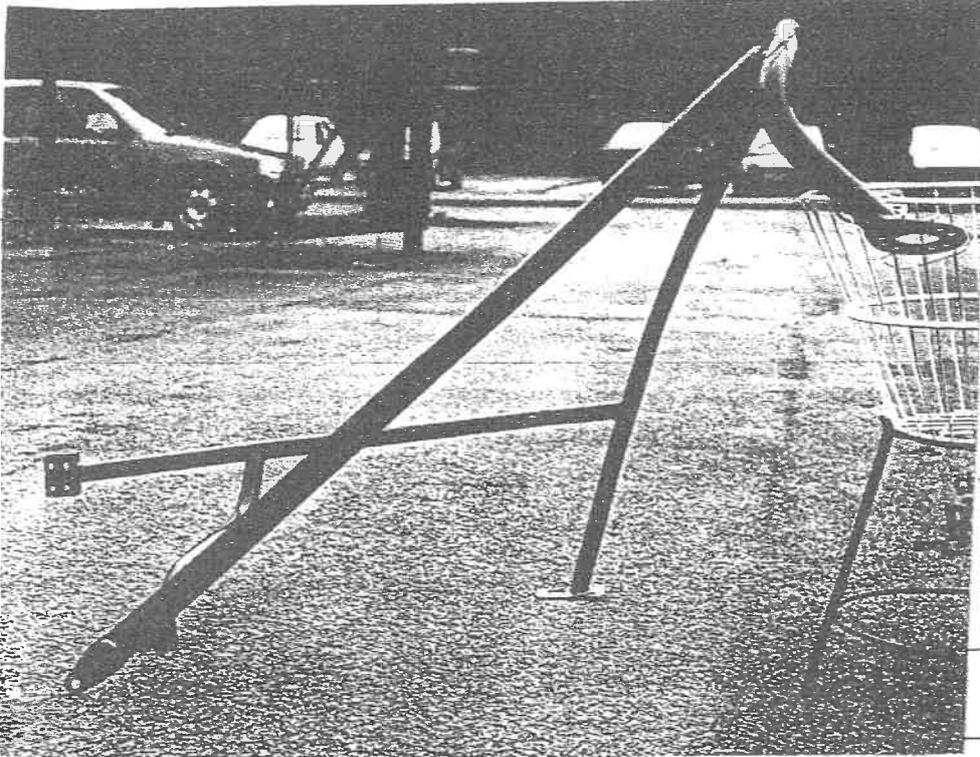
Model

ELITE

Nº

1467

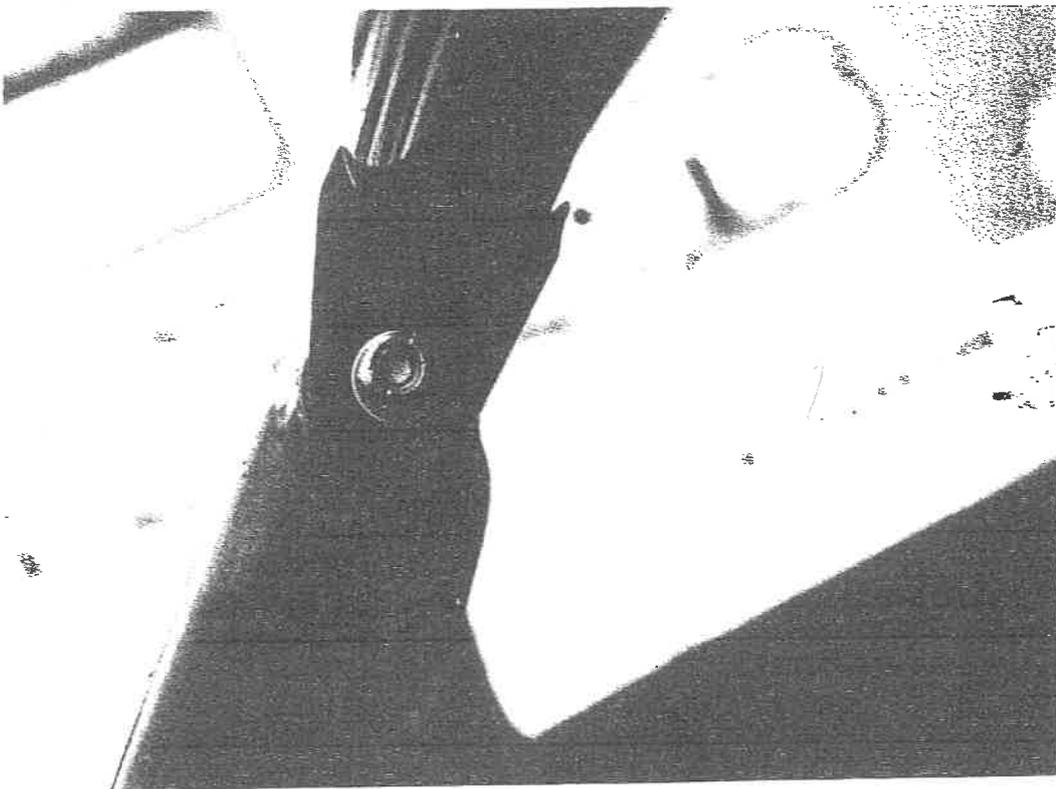
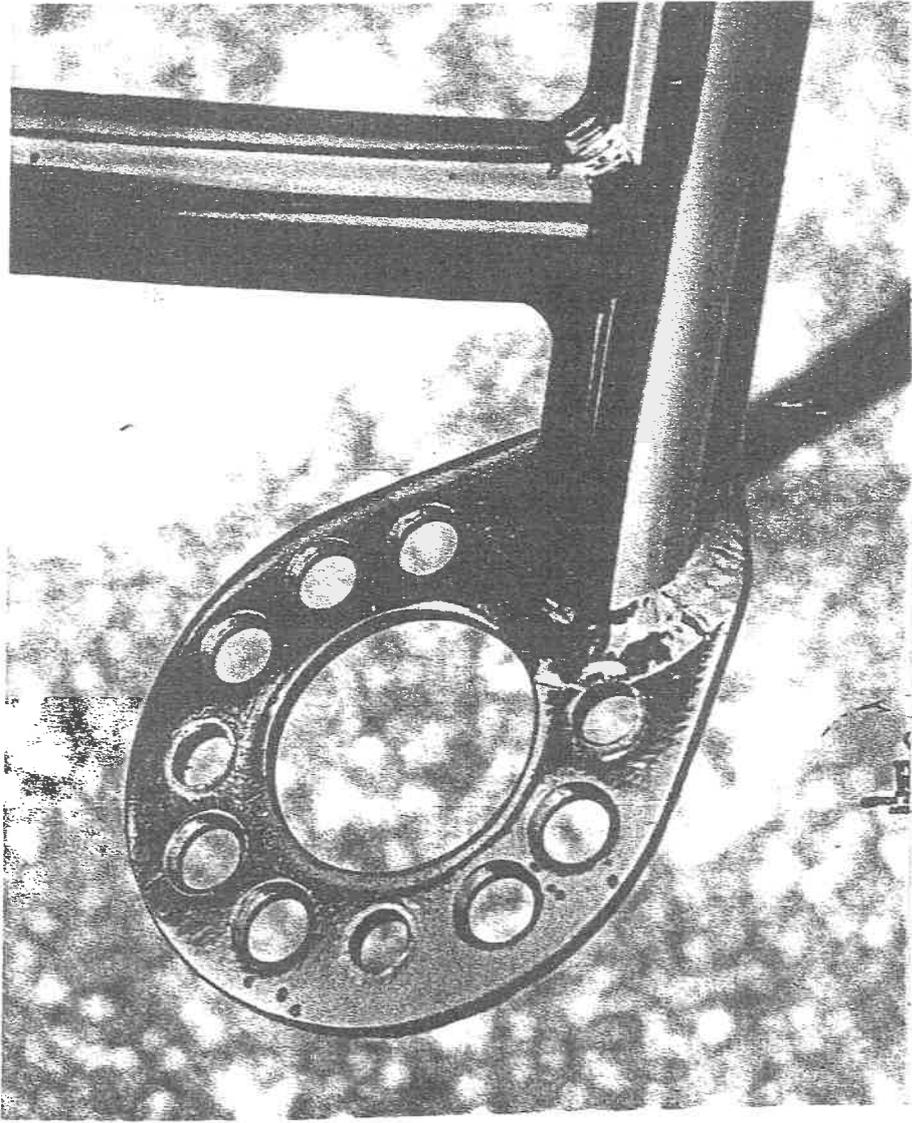
PHOTOS



MAKE - LOTUS

MODEL - ELITE.

146+





OBERSTE NATIONALE SPORTKOMMISSION FÜR DEN AUTOMOBILSPORT IN DEUTSCHLAND

Waidmannstr. 47, 6000 Frankfurt/Main 70, TEL. (0 69) 63 50 97

6330070

ZERTIFIKAT

Certificate/Certificat

für Überrollbügel/Überrollkäfig/Ersatzkonstruktion

For Rollbar/Rollcage/Substitute-Construction
pour arceau de sécurité/cage de sécurité/construction de remplacement



Laut 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 05021/5066

Typ:
Type

Gewicht: Stahl/ steel 25 kg
Weight
Poids: Aluminium/ alloy 20 kg

Verwendung in Fahrzeugen

Apparats in der Klasse
Utilisation dans les véhicules

Fabrikat:
Constructor
Marque

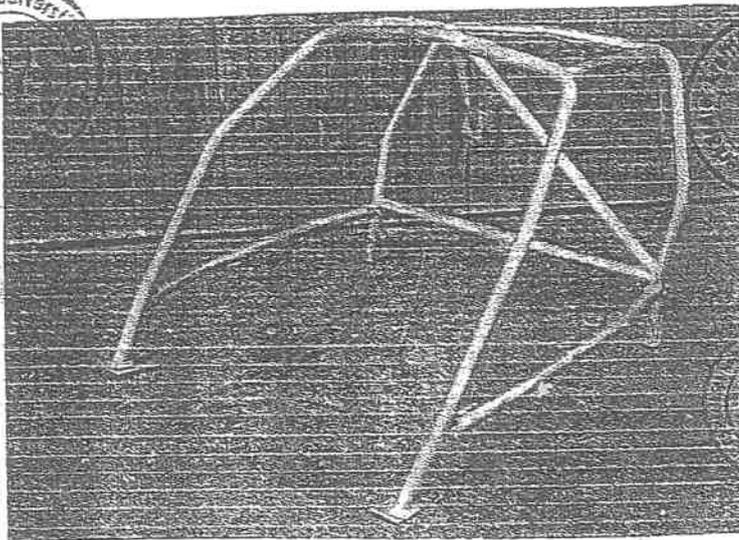
Lotus

Typ:
Type

Elite

Gruppe:
Group
Groupe

alle Klassen ge-
mäß Anhang K/
all classes
according
appendix K

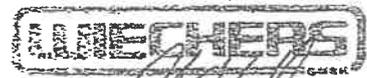


Hiermit wird bestätigt, daß der beschriebene Überrollbügel den Anforderungen des Internationalen Automobil-Sportgesetzes der FIA und den hierzu erlassenen Bestimmungen der ONS entspricht.
Hereby it is confirmed that the described rollbar is in accordance with the regulations and the international Automobile 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, le

Unterschrift (ONS)
Signature (ONS)



Rudolf-Diesel-Str. 6, 3070 Nienburg
Telefon (0 50 21) 50 66

Unterschrift (Hersteller)
Signature (Constructor)
Signature (Constructeur)

Hauptbügel
Main Hoop / Arceau Principal

Materiál: Material / Matériau:	Stahl/ steel St. 52	Aluminium/ alloy AL Zn 4,5 Mg
Streckgrenze: N/mm ² Elastic Limit / Limite Elastique:	340 N/ mm ²	210 N/ mm ²
Zugfestigkeit: N/mm ² Tensile Strength / Resistance a la Traction:	510 N/ mm ²	340 N/ mm ²
Nenn Durchmesser in mm: Nominal Diameter:	40 mm	40 mm
Nennstärke in mm: Nominal Thickness / Epaisseur:	2 mm	3,5 mm
Bemerkungen: Remarks / Remarques:		

Längsstreben
Longitudinal Brace-Rods / Jambes de Force Longitudinales

Materiál: Material / Matériau:	Stahl/ steel St. 52	Aluminium/ alloy AL Zn 4,5 Mg
Streckgrenze: N/mm ² Elastic Limit / Limite Elastique:	340 N/ mm ²	210 N/ mm ²
Zugfestigkeit: N/mm ² Tensile Strength / Resistance a la Traction:	510 N/ mm ²	340 N/ mm ²
Nenn Durchmesser in mm: Nominal Diameter:	40 mm	40 mm
Nennstärke in mm: Nominal Thickness / Epaisseur:	2 mm	3,5 mm
Bemerkungen: Remarks / Remarques:		



Diagonalestrebe
Diagonal Strut / Renfort Diagonal

Materiál: Material / Matériau:	Stahl/ steel St. 52	Aluminium/ alloy AL Zn 4,5 Mg
Streckgrenze: N/mm ² Elastic Limit / Limite Elastique:	340 N/ mm ²	210 N/ mm ²
Zugfestigkeit: N/mm ² Tensile Strength / Resistance a la Traction:	510 N/ mm ²	340 N/ mm ²
Nenn Durchmesser in mm: Nominal Diameter:	40 mm	40 mm
Nennstärke in mm: Nominal Thickness / Epaisseur:	2 mm	3,5 mm
Bemerkungen: Remarks / Remarques:		



festigung
nection / Fixation

für Stahl u. Aluminium
for steel and alloy

siehe Fotos/ see photos

Typ:

8 mm ϕ 8 g, 10 mm ϕ 8 g

Maßgröße:
Dimensions / Dimensions de Vis:

Merkmale:
Merks / Remarques:

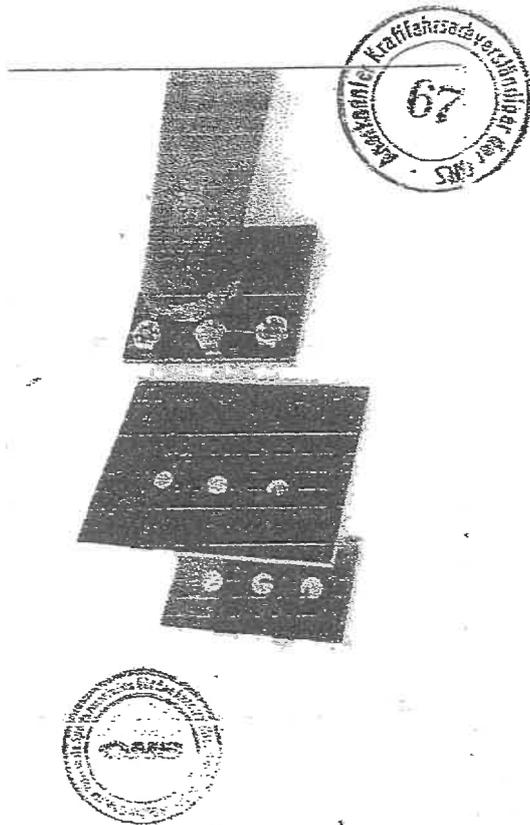
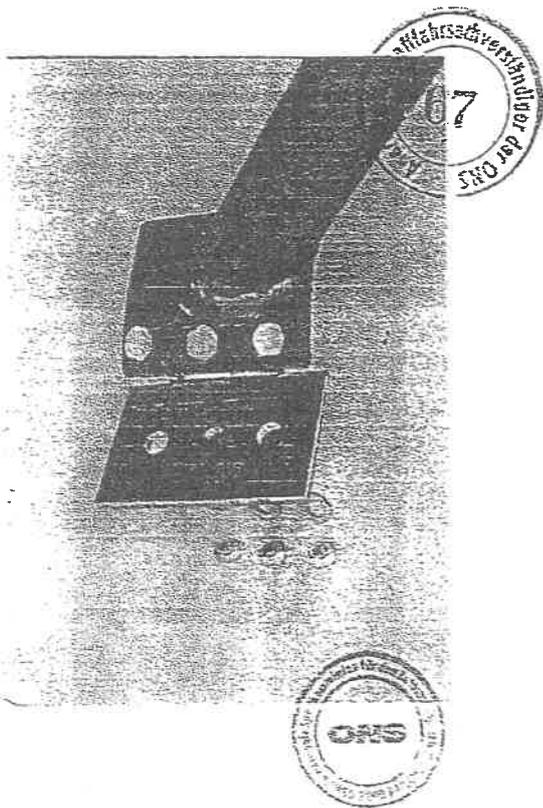
Bodenblech- Blechplatte 120 cm², 3mm stark
steelplate for car- body 120 cm², 3mm thick

bindungsteile
nection Parts / Parts Connection

siehe Fotos/ see photos

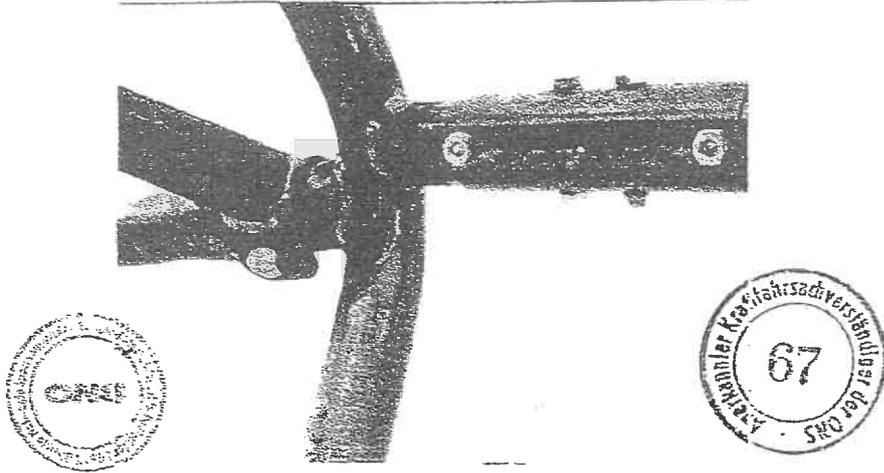
Fotos oder Zeichnungen der Befestigungen an der Karosserie:

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

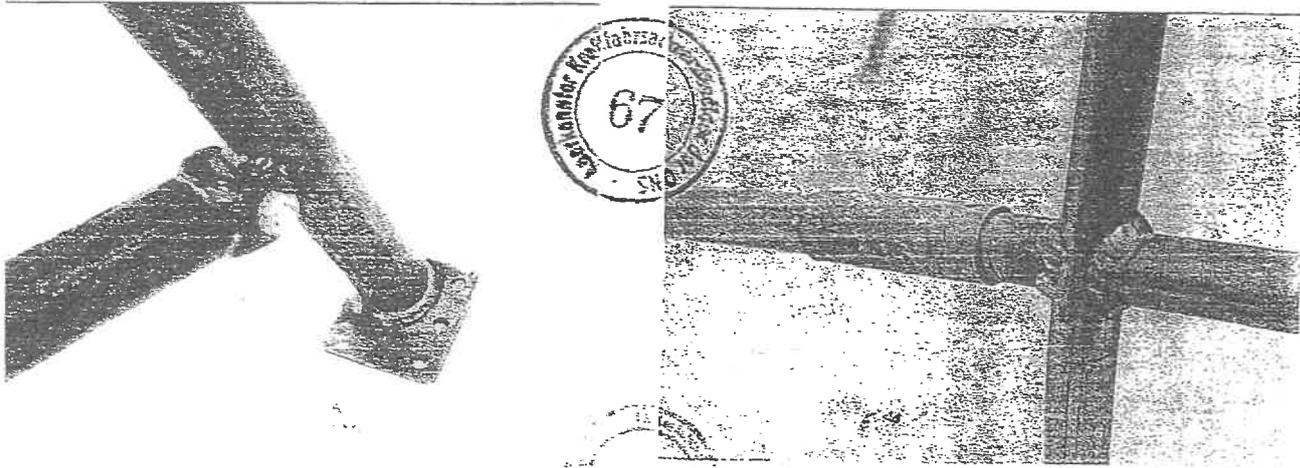


Fotos oder Zeichnungen der Befestigungen an der Karosserie:

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

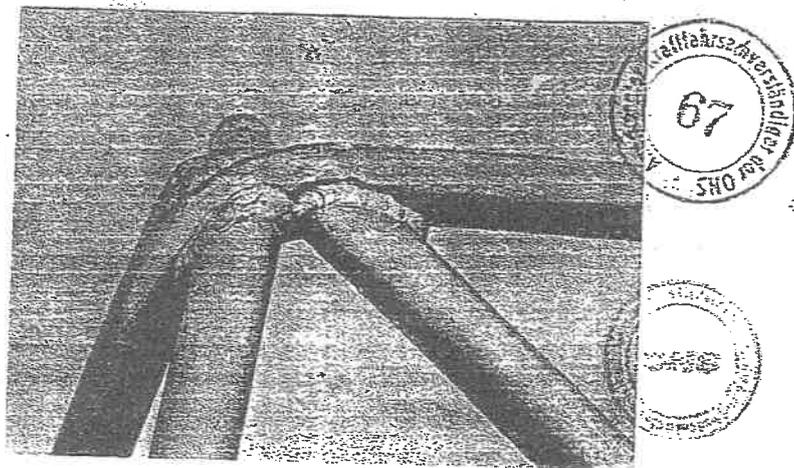


Rohrverbindung mit Muffe
sleeve-coupling



Flankenschutz, demontierbar
side-protection, detachable

H-Strebe, demontierbar
H-strut, detachable



Diagonalstrebe, demontierbar
diagonal-strut, detachable

