



FEDERATION INTERNATIONALE
DE L'AUTOMOBILE

Groupe / Group

N

Homologation N°

N-5719

Extension N°

16/08 VO

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

Homologation valable à partir du
Homologation valid as from

01 AVR. 2011

NOT VALID FOR S2000-RALLY



VO

Variante Option / Option-Variant

101. CONSTRUCTEUR DU VEHICULE / MANUFACTURER OF THE VEHICLE

PROTON

102. MODÈLE ET TYPE DE VEHICULE / MODEL AND TYPE OF THE VEHICLE

a) Modèle et type
Model and type

SATRIA NEO

ARMATURE DE SECURITE / SAFETY CAGE

a) Fabricant
Manufacturer

PROTON

b) Numéro type d'identification de l'armature
Typical identification number of the cage

PSN11RC

c) Poids total de l'armature (y compris fixations)
Total weight of the cage (including fastenings)

42.5

kg

d) Armature soudée à la coque (châssis)
Cage welded to the bodyshell (chassis)

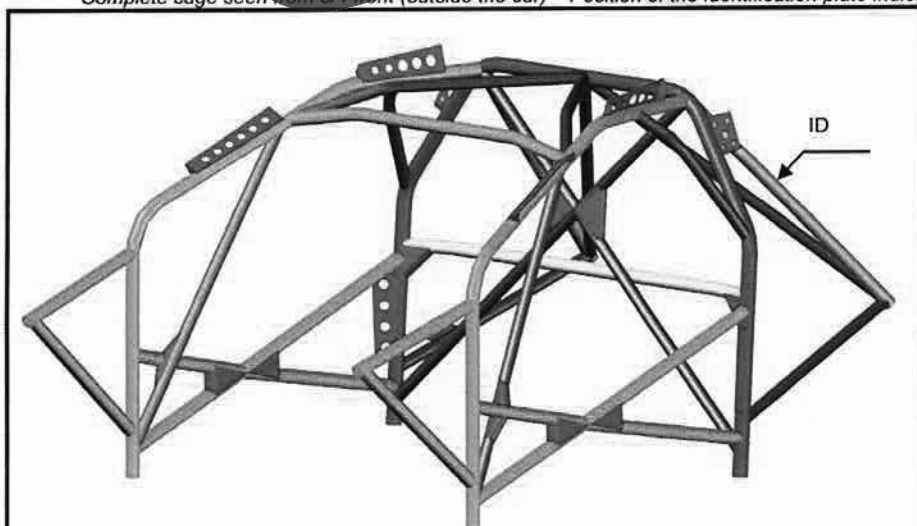
Oui / Yes



Non / No



SC-0) Armature complète vue de 3/4 avant (hors de la voiture) – Position de la plaque d'identification indiquée par la flèche
Complete cage seen from 3/4 front (outside the car) – Position of the identification plate indicated by the arrow



Nous attestons que la présente
Armature de Sécurité est conformes au
Règlement d'Homologation
pour
Armatures de Sécurité
en vigueur à la date d'homologation

We certify that the present
Safety Cage complies with the
Homologation Regulations
for
Safety Cages
In force at the homologation date

Nom et signature du représentant du
Constructeur du véhicule
Name and signature of the car manufacturer
representative

DATO SYED ZAINAL ABIDIN BIN SYED
MOHAMED TAHIR
MANAGING DIRECTOR
PROTON HOLDING BERHAD.

Fédération Internationale de l'Automobile
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DIMENSIONS DES TUBES DE L'ARMATURE / DIMENSION OF CAGE TUBING						
Numéro Label	Nom du composant Name of the component	Nuance d'acier Grade of steel	Diamètre extérieur Outer diameter ± 0.1 mm	Epaisseur Wall thickness ± 0.1 mm	Résistance à la traction Tensile strength N/mm ²	Limite élastique Yield strength N/mm ²
01	Arceau principal Main rollbar	*JIS - G3445 STKM13C cold drawn seamless steel	45.0	2.6	510	460
02	Entretoises diagonales d'arceau principal Diagonal members of the main rollbar	JIS - G4053 SCM430 cold drawn seamless steel	35.0	1.5	830	740
03	Arceau avant / Latéral Front / Lateral rollbar	JIS - G4053 SCM430 cold drawn seamless steel	40.0	1.6	830	740
04	Jambes de force Backstays	JIS - G4053 SCM430 cold drawn seamless steel	40.0	1.6	830	740
05	Transversal of the main rollbar	JIS - G3445 STKM13C cold drawn seamless steel	40.0	2.0	510	460
06	Diagonal member on the backstays	JIS - G4053 SCM430 cold drawn seamless steel	35.0	1.5	830	740
07	Roof reinforcements	JIS - G4053 SCM430 cold drawn seamless steel	35.0	1.5	830	740
08	Doorbars	JIS - G4053 SCM430 cold drawn seamless steel	40.0	1.6	830	740
09	Windscreen pillar reinforcements	JIS - G4053 SCM430 cold drawn seamless steel	35.0	1.5	830	740
10	Extension to front suspension upper mounting point	JIS - G4053 SCM430 cold drawn seamless steel	40.0	1.6	830	740
11	Reinforcement of junctions of the main rollbar	JIS - G4053 SCM430 cold drawn seamless steel	35.0	1.5	830	740
12	Reinforcement of Backstays and main rollbar	JIS - G4053 SCM430 cold drawn seamless steel	35.0	1.5	830	740
*JIS : Japanese Industrial Standards **The total length of all the tubes with less Ø40, is 11.26M. (tube label 02,06,07,09,11,12)						

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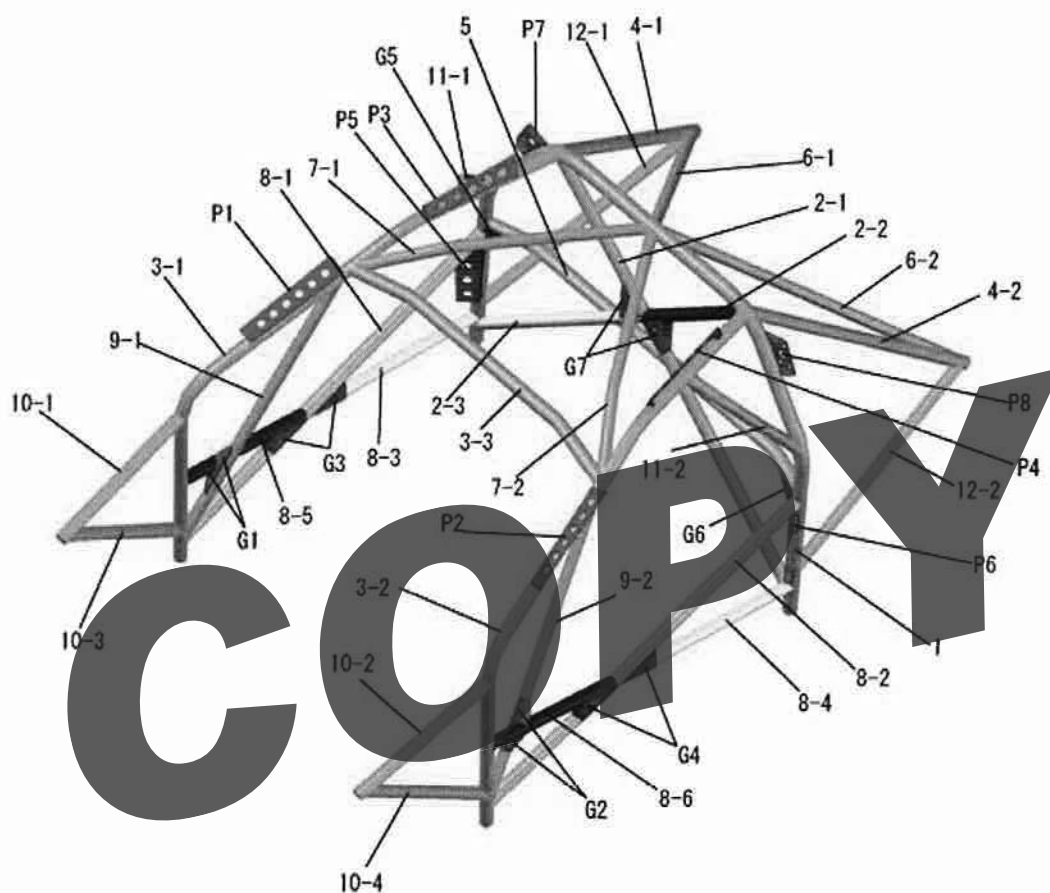
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Tube Label	DIMENSION	Tube Label	DIMENSION	Tube Label	DIMENSION	Tube Label	DIMENSION
1	φ 45.0 x 2.6	7-1	φ 35.0 x 1.5	10-3	φ 40.0 x 1.6	G7	Gusset t 1.2
2-1	φ 35.0 x 1.5	7-2	φ 35.0 x 1.5	10-4	φ 40.0 x 1.6	P1	Plate t 1.2
2-2	φ 35.0 x 1.5	8-1	φ 40.0 x 1.6	11-1	φ 35.0 x 1.5	P2	Plate t 1.2
2-3	φ 35.0 x 1.5	8-2	φ 40.0 x 1.6	11-2	φ 35.0 x 1.5	P3	Plate t 1.2
3-1	φ 40.0 x 1.6	8-3	φ 40.0 x 1.6	12-1	φ 35.0 x 1.5	P4	Plate t 1.2
3-2	φ 40.0 x 1.6	8-4	φ 40.0 x 1.6	12-2	φ 35.0 x 1.5	P5	Plate t 1.2
3-3	φ 40.0 x 1.6	8-5	φ 40.0 x 1.6	G1	Gusset t 1.2	P6	Plate t 1.2
4-1	φ 40.0 x 1.6	8-6	φ 40.0 x 1.6	G2	Gusset t 1.2	P7	Plate t 1.2
4-2	φ 40.0 x 1.6	9-1	φ 35.0 x 1.5	G3	Gusset t 1.2	P8	Plate t 1.2
5	φ 40.0 x 2.0	9-2	φ 35.0 x 1.5	G4	Gusset t 1.2		
6-1	φ 35.0 x 1.5	10-1	φ 40.0 x 1.6	G5	Gusset t 1.2		
6-2	φ 35.0 x 1.5	10-2	φ 40.0 x 1.6	G6	Gusset t 1.2		

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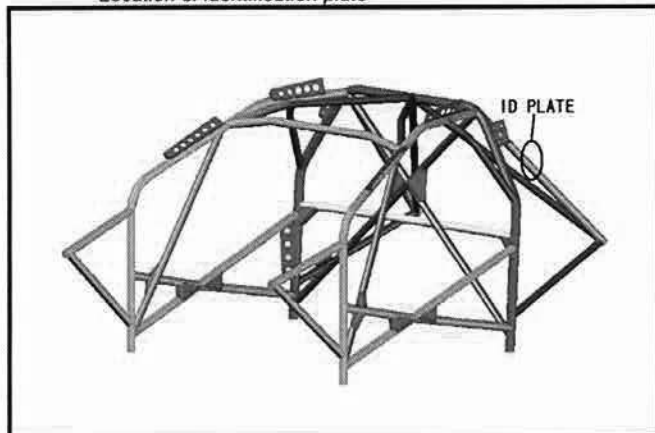
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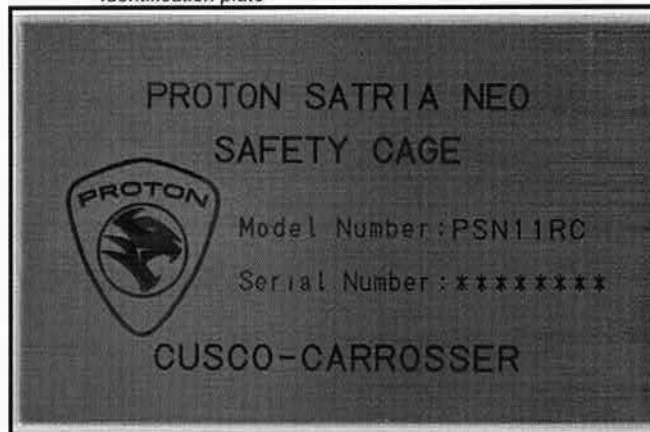
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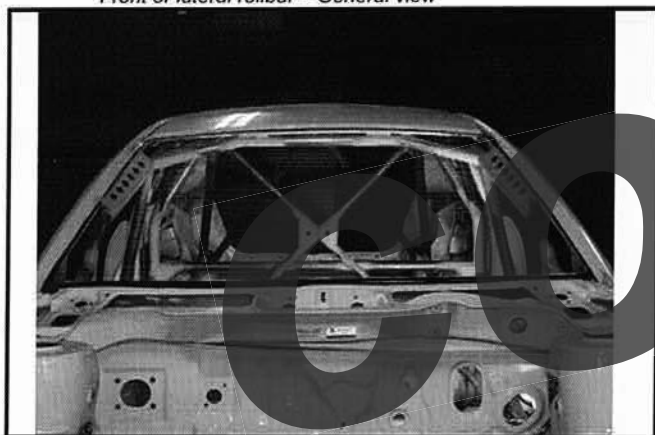
SC-1) Emplacement de la plaque d'identification
Location of identification plate



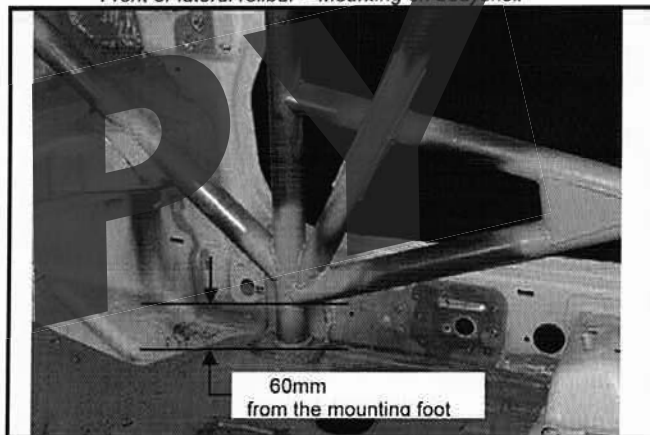
SC-2) Plaque d'identification
Identification plate



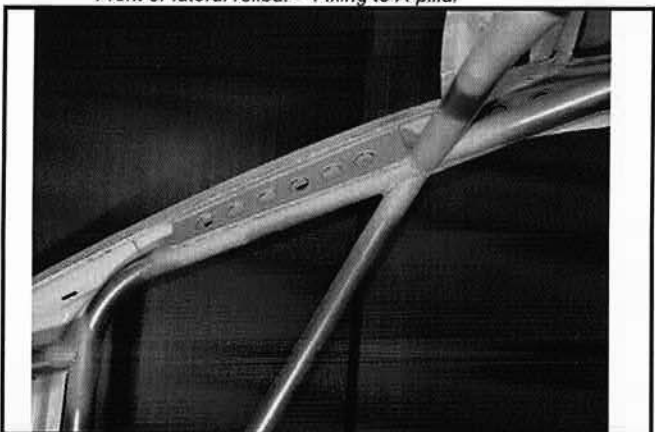
SC-3) Arceau avant ou latéral – Vue d'ensemble
Front or lateral rollbar – General view



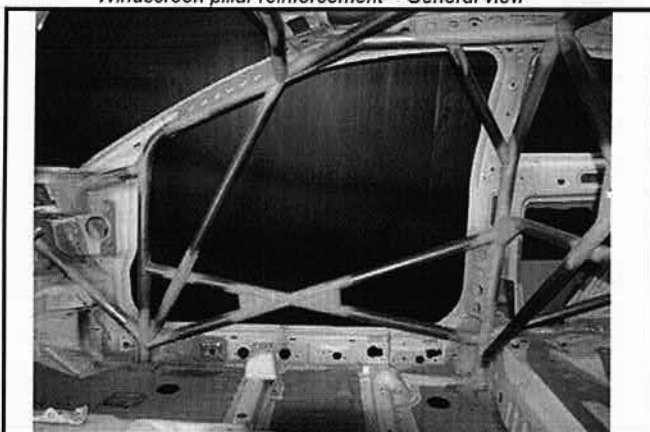
SC-4) Arceau avant ou latéral – Ancrage sur la coque
Front or lateral rollbar – Mounting on bodyshell



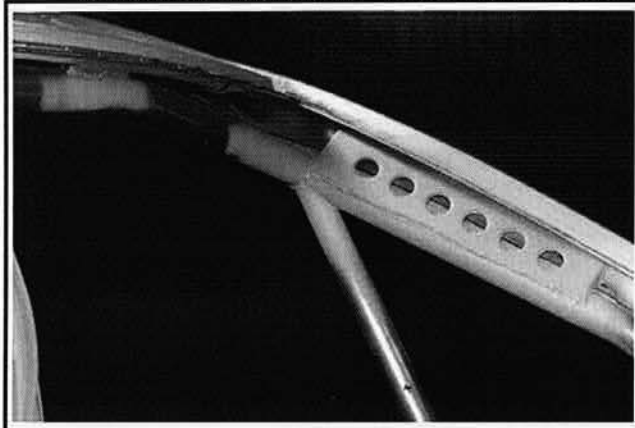
SC-5) Arceau avant ou latéral – Fixation au montant A
Front or lateral rollbar – Fixing to A-pillar



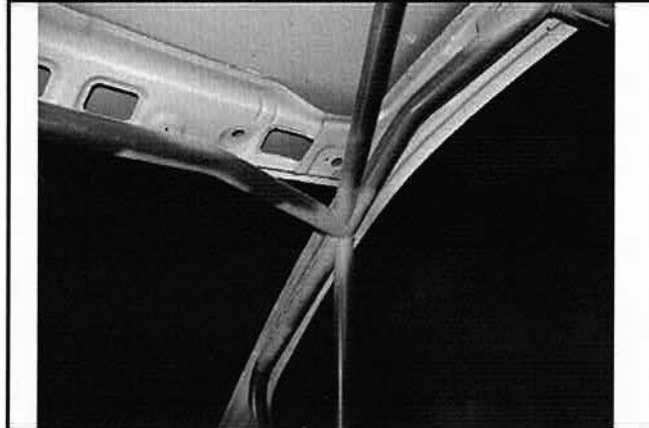
SC-6) Renfort de montant de pare-brise – Vue d'ensemble
Windscreen pillar reinforcement – General view



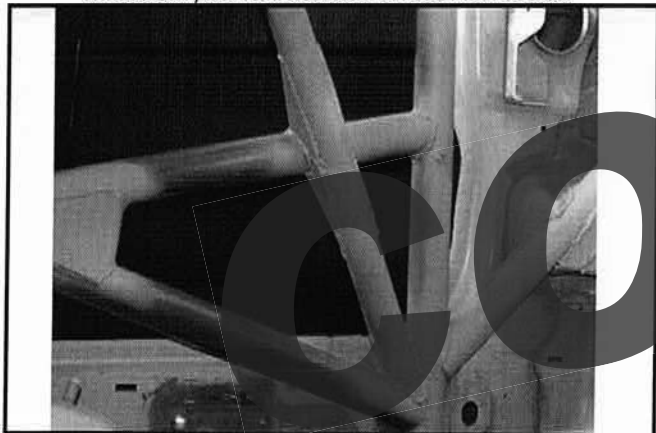
SC-7) Renfort montant pare-brise - Jonction avec arceau avant
Windscreen pillar reinforcement - Junction with front rollbar



SC-8) Renfort montant pare-brise - Jonction avec arceau avant
Windscreen pillar reinforcement - Junction with front rollbar



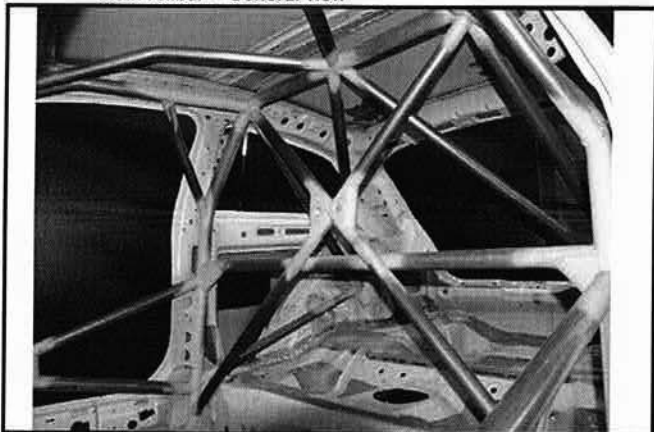
SC-9) Renfort montant pare-brise- Jonction avec entretoise de porte
Windscreen pillar reinforcement- Junction with doorbar



SC-10) Connexion-Renfort montant pare-brise / arceau avant
Connection-Windscreen pillar reinforcement / front rollbar



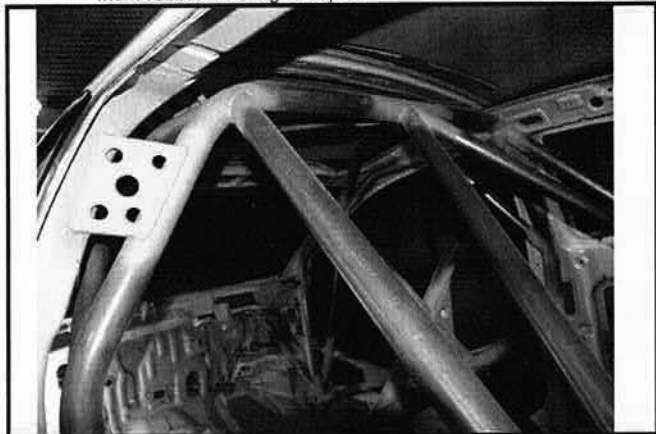
SC-11) Arceau principal – Vue d'ensemble
Main rollbar – General view



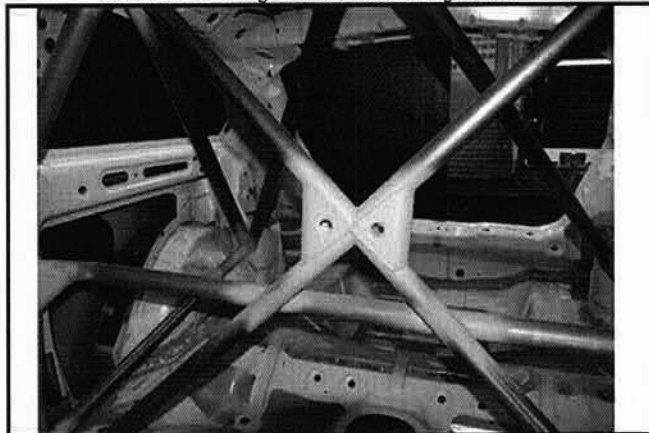
SC-12) Arceau principal – Ancrage sur la coque
Main rollbar – Mounting on bodyshell



SC-13) Arceau principal – Fixation au montant B
Main rollbar – Fixing to B-pillar



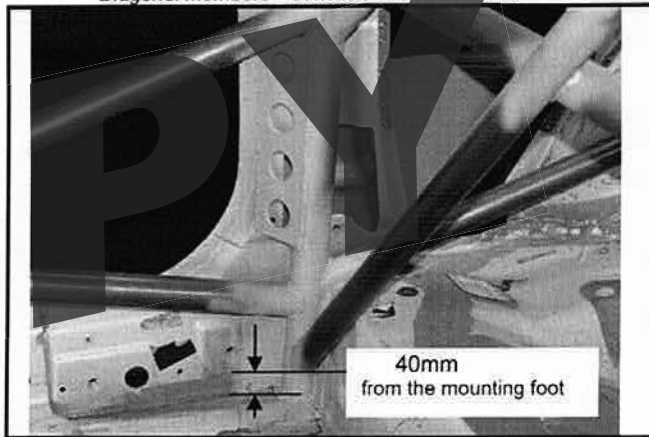
SC-14) Arceau principal – Entretoises diagonales et goussets
Main rollbar – Diagonal members and gussets



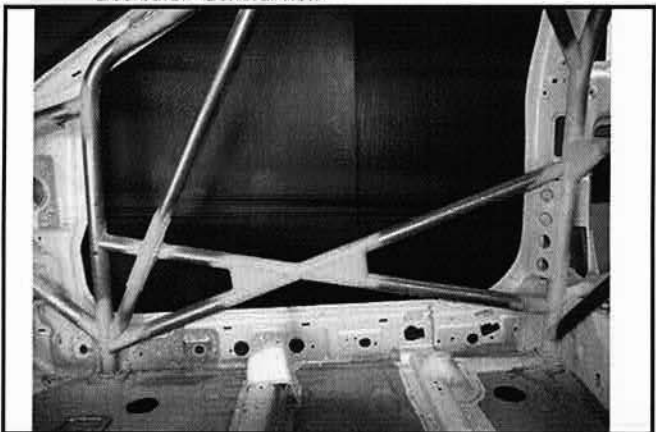
SC-15) Entretoises diagonales – Jonction avec arceau principal
Diagonal members – Junction with main rollbar



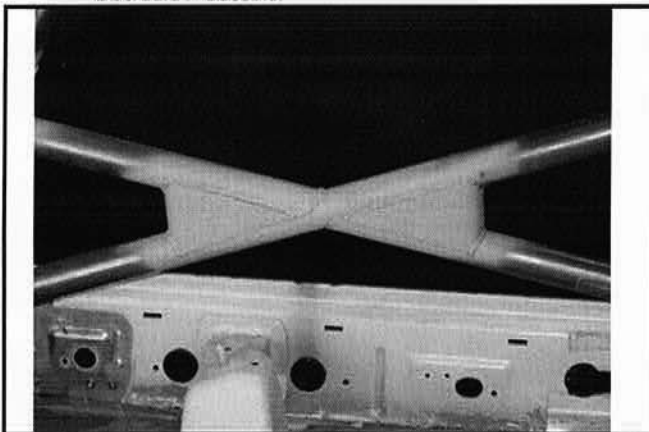
SC-16) Entretoises diagonales – Jonction avec arceau principal
Diagonal members – Junction with main rollbar



SC-17) Entretoises de portes – Vue d'ensemble
Doorbars – General view



SC-18) Entretoises de portes – Goussets
Doorbars – Gussets



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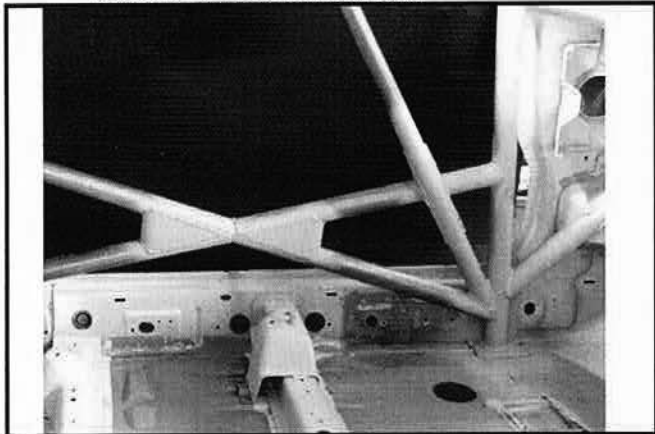
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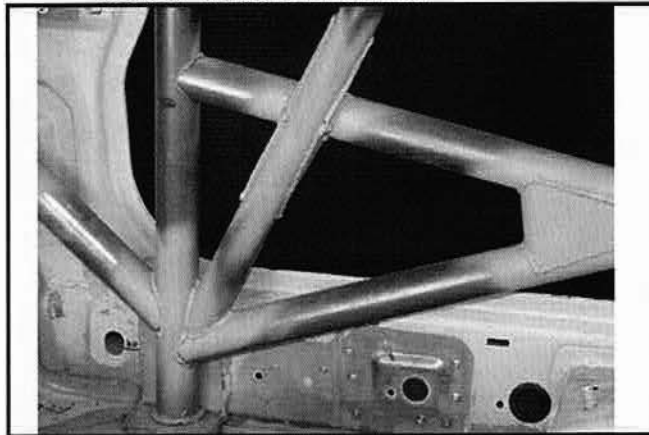
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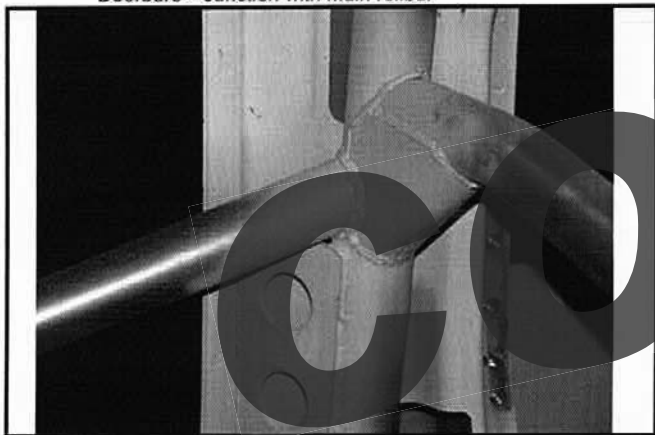
SC-19) Entretoises de portes – Jonction avec arceau avant
Doorbars – Junction with front rollbar



SC-20) Entretoises de portes – Jonction avec arceau avant
Doorbars – Junction with front rollbar



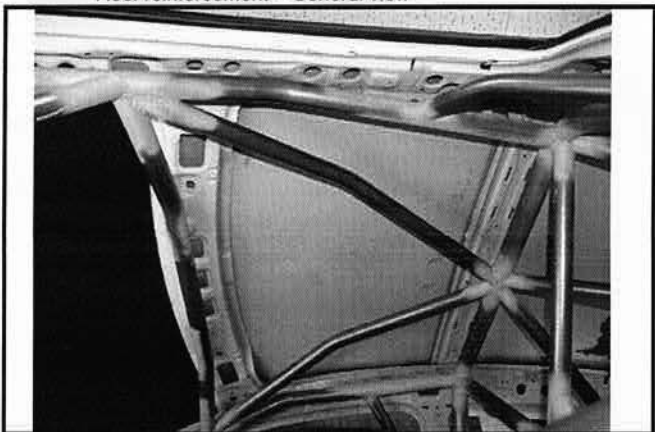
SC-21) Entretoises de portes – Jonction avec arceau principal
Doorbars – Junction with main rollbar



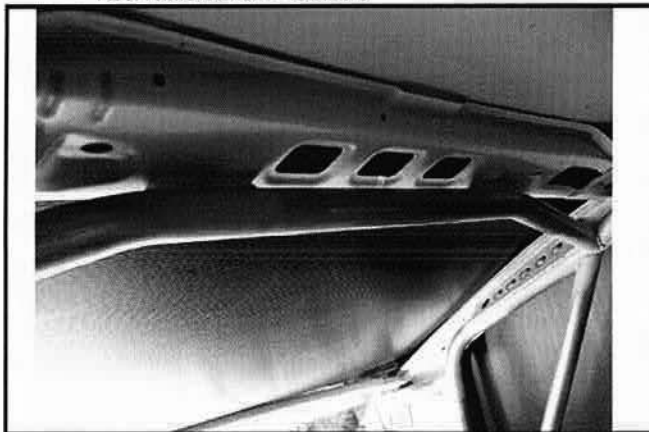
SC-22) Entretoises de portes – Jonction avec arceau principal
Doorbars – Junction with main rollbar



SC-23) Renfort de toit – Vue d'ensemble
Roof reinforcement – General view



SC-24) Renfort de toit – Goussets
Roof reinforcement – Gussets



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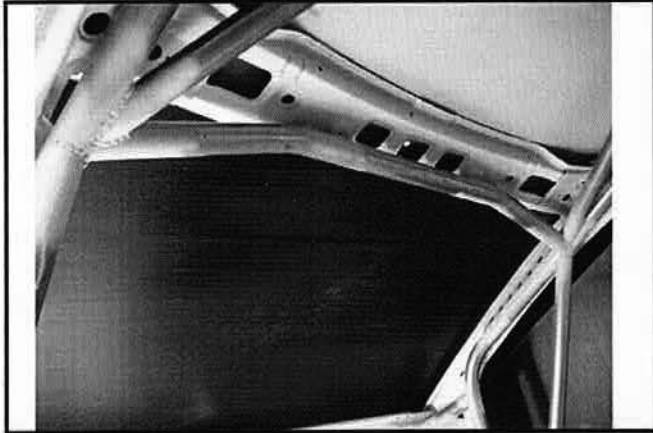
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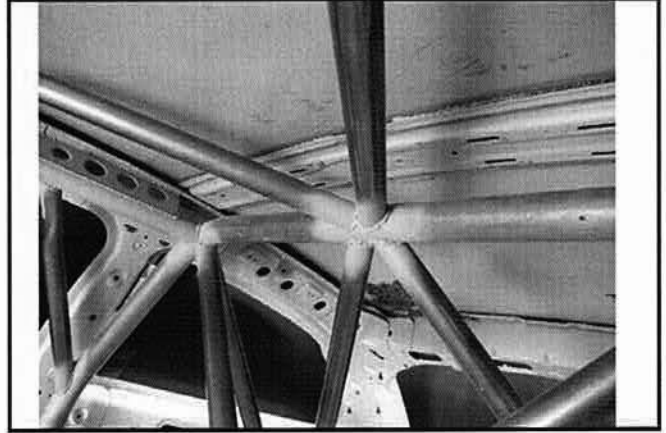
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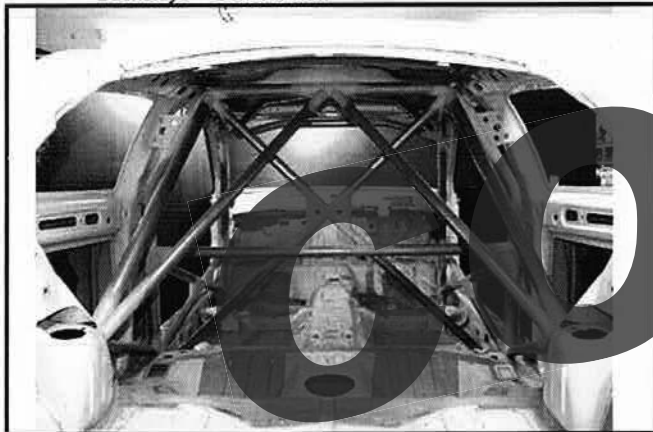
SC-25) Renfort de toit – Jonction avec arceau avant
Roof reinforcement – Junction with front rollbar



SC-26) Renfort de toit – Jonction avec arceau principal
Roof reinforcement – Junction with main rollbar



SC-27) Jambes de force arrière – Vue d'ensemble
Backstays – General view



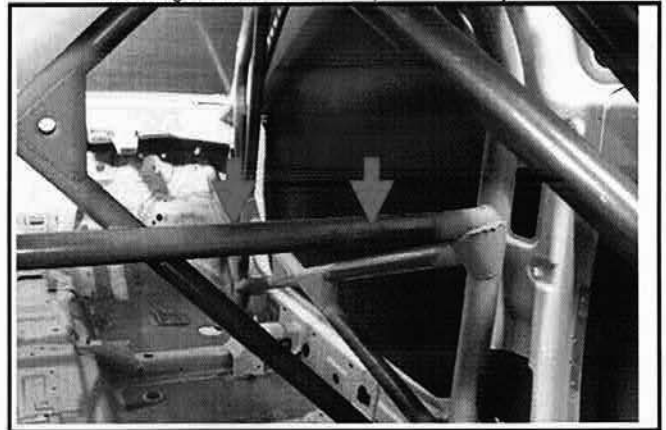
SC-28) Jambes de force arrière – Ancrage sur la coque
Backstays – Mounting on bodysheet



SC-29) Jambes de force arrière – Jonction avec arceau principal
Backstays – Junction with main rollbar



SC-30) Fixations des sangles d'épaule des ceintures de sécurité
Mountings of the shoulder straps of the safety belts



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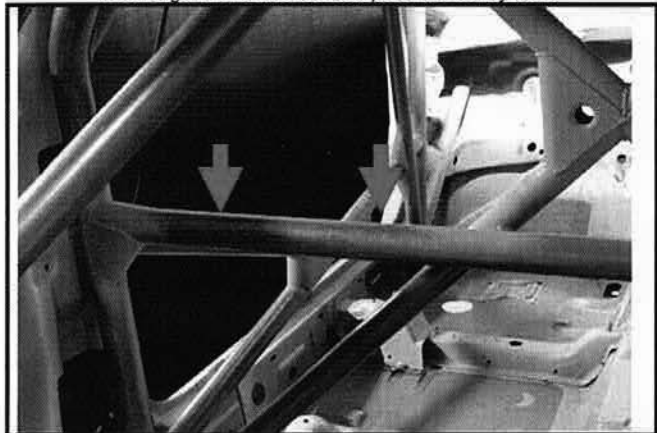
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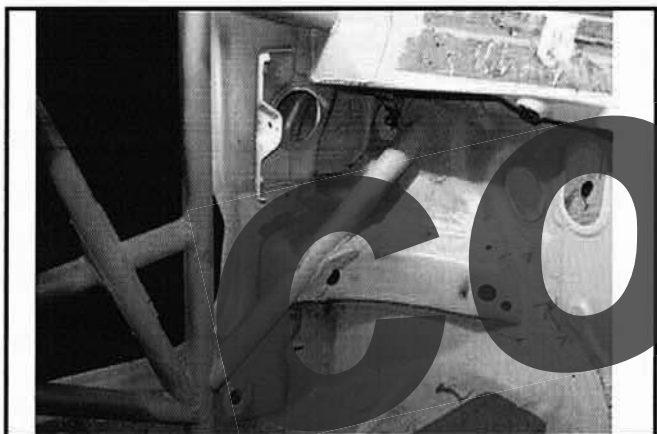
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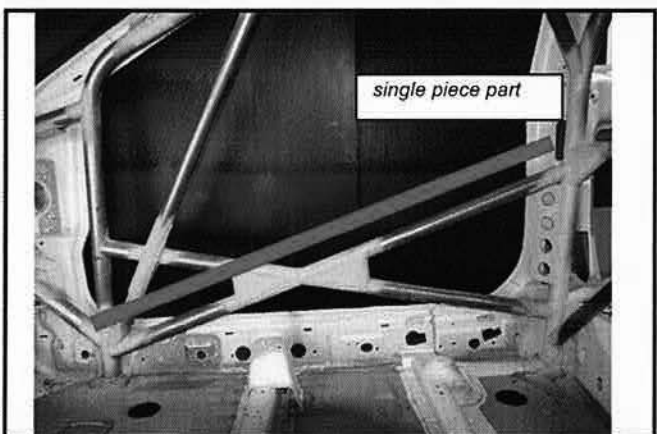
SC-31) Fixations des sangles d'épaule des ceintures de sécurité
Mountings of the shoulder straps of the safety belts



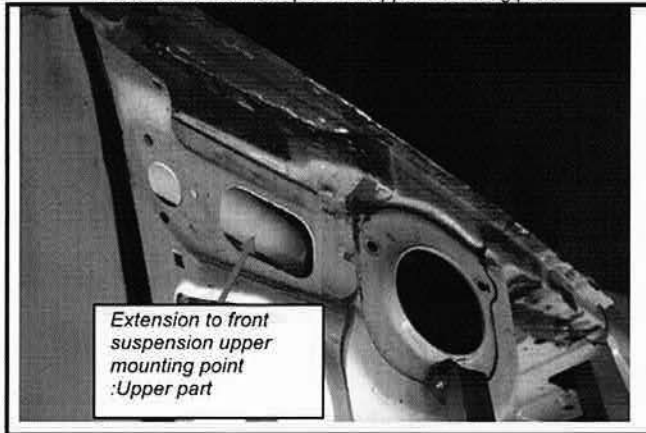
SC-33)



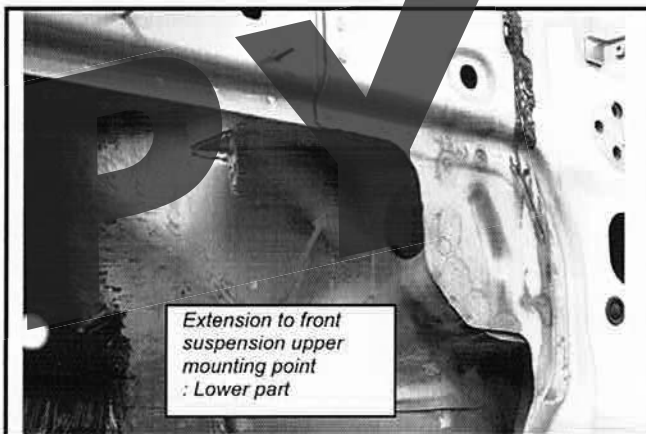
SC-33)



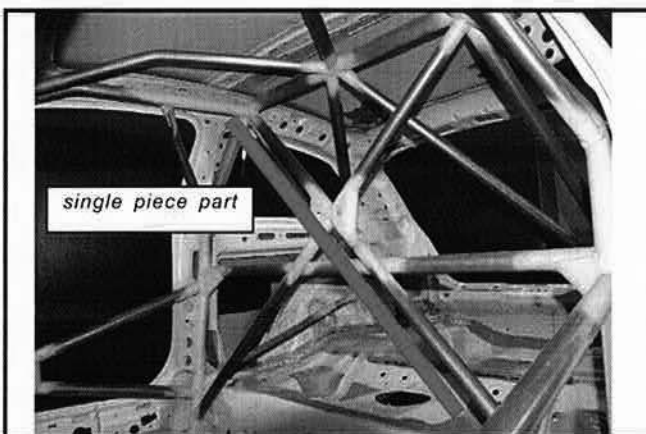
SC-32) Extension vers point d'ancrage sup. de suspensions avant
Extension to front suspension upper mounting point



SC-34)



SC-34)



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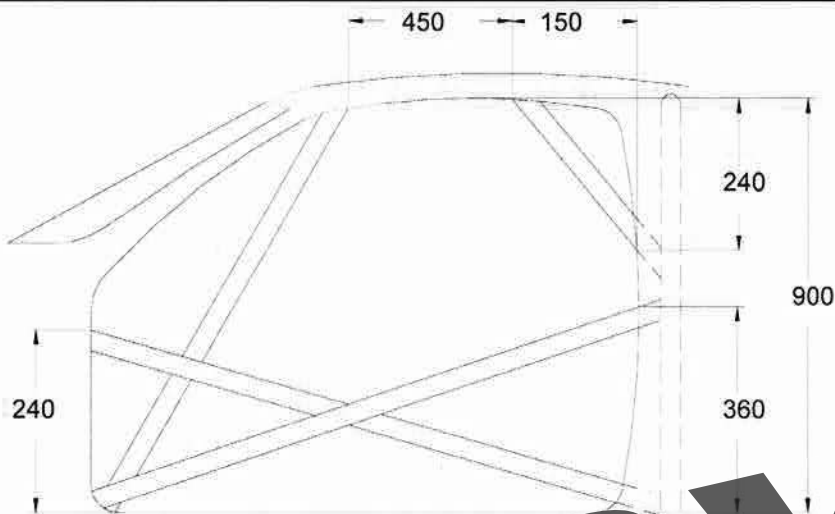
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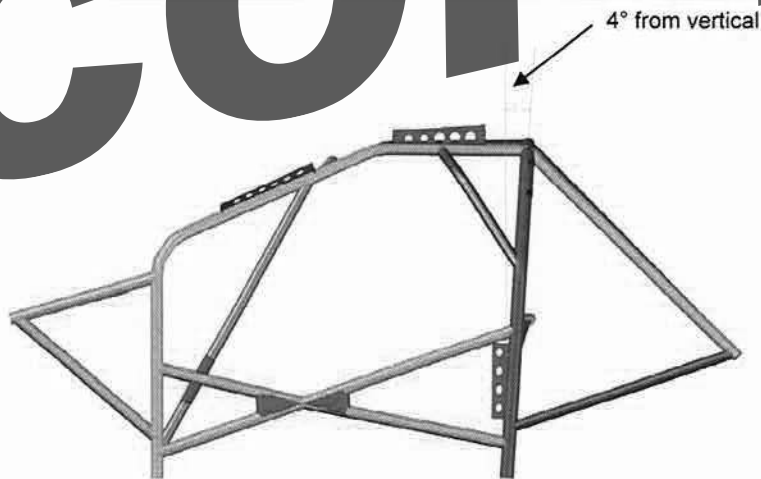
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Emprise des renforts d'armature dans l'ouverture de porte
Presence of the cage reinforcements in the door aperture



Angle de l'arceau principal par rapport à la verticale
Angle of main rollbar to the vertical



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