



FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Homologation N°

GT1-001

Groupe

Group

GT1

FICHE D'HOMOLOGATION CONFORME A L'ANNEXE J DU CODE SPORTIF INTERNATIONAL
HOMOLOGATION FORM IN ACCORDANCE WITH APPENDIX J OF THE INTERNATIONAL SPORTING CODE

Homologation valable à partir du
Homologation valid as from

01 MAI 2006

A) Voiture vue de 3/4 avant
Car seen from 3/4 front



B) Voiture vue de 3/4 arrière
Car seen from 3/4 rear



1. GENERALITES / GENERAL

101. Constructeur
Manufacturer **SALEEN**

102. Dénomination(s) commerciale(s) - Modèle et type
Commercial name(s) - Model and type **S7 TWIN TURBO**

104. Mode de construction
Type of car construction

a) Mode
Type

<input checked="" type="checkbox"/> séparée separated	<input type="checkbox"/> monocoque unitary construction
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b) Matériau du châssis / coque
Material of chassis / bodyshell

STEEL TUBE FRAME WITH ALUMINUM HONEYCOMB

GT1-001

Marque
Make **SALEEN**

Modèle
Model **S7**

2.DIMENSIONS, POIDS / DIMENSIONS, WEIGHT

202. Longueur hors tout
Overall length **4776** mm +/- 5 mm (Measured without the series rear wing)

203. Largeur hors-tout
Overall width **1998** mm +/- 1 %

Endroit de mesure
Where measured

REAR OF FLOOR AHEAD OF REAR WHEELS

204. Largeur de carrosserie
Width of bodywork a) A la hauteur de l'axe avant
At front axle **1990** mm +/- 1 %

b) A la hauteur de l'axe arrière
At rear axle **1985** mm +/- 1 %

c) Largeur du pare brise mesurée à mi hauteur
Width of the windscreen measured halway up the screen **1380** mm +/- 1 %

206. Empattement
Wheelbase **2700** mm +/- 10 mm

209. Porte-à-faux
Overhang a) Avant
Front **1031** mm +/- 10 mm b) Arrière
Rear **1045** mm +/- 10 mm

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Marque
Make **SALEEN**

Modèle
Model **S7**

3. MOTEUR / ENGINE

(En cas de moteur rotatif, voir Art. 335 sur fiche additionnelle)
(In case of rotative engine, see Art. 335 on additional form)

301. Emplacement et position du moteur
Location and position of the engine

MID REAR LONGITUDINAL

303. Cycle
Cycle **OTTO**

C) Profil droit du moteur déposé
Right hand view of dismantled engine



D) Profil gauche du moteur déposé
Left hand of dismantled engine



E) Moteur dans son compartiment
Engine in its compartment



304. Suralimentation
Supercharging

<input checked="" type="checkbox"/>	oui yes	<input type="checkbox"/>	non no
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Type
Type

TURBOCHARGER

305. Nombre et disposition des cylindres
Number and layout of cylinders

8, V LAYOUT

306. Mode de refroidissement
Type of cooling

WATER

312. Matériau du bloc-cylindre
Cylinder block material

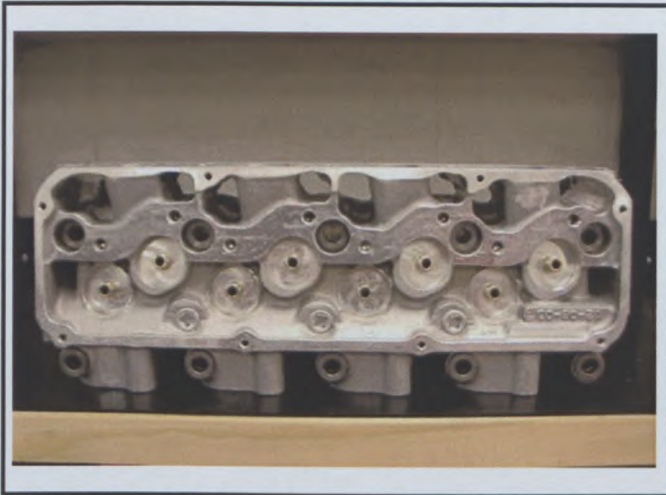
ALUMINUM ALLOY

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Marque
Make **SALEEN**

Modèle
Model **S7**

321. Culasse
Cylinderhead
- a) Nombre
Number **TWO**
- b) Matériau
Material **ALUMINUM ALLOY W/
COPPER BERYLLIUM EXHAUST SEAT**
- e) Angle entre soupape d'admission et la verticale
Angle between intake valve and vertical **10.4 x 3.2**
- f) Angle entre soupape d'échappement et la verticale
Angle between exhaust valve and vertical **8 x 0**
- F) Culasse nue
Bare cylinderhead



325. Arbre à cames
Camshaft
- a) Nombre
Number **ONE**
- b) Emplacement
Location **IN V IN CYLINDER BLOCK**
327. Admission
Intake
- c) Nombre de soupapes par cylindre
Number of valves per cylinder **ONE**
328. Echappement
Exhaust
- d) Nombre de soupapes par cylindre
Number of valves per cylinder **ONE**

Marque
Make **SALEEN**

Modèle
Model **S7**

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SUPPRIMER CETTE PAGE SI LE MOTEUR N'EST PAS SURALIMENTÉ
DELETE THIS PAGE IF ENGINE IS NOT SUPERCHARGED

334. Suralimentation
Turbocharging

a) Marque et type du turbocompresseur
Make and type of the turbocharger **GARRETT GT3582R-714568-1**

b) **Carter de turbine**
Turbine housing

b1) Nombre d'entrées des gaz d'échappement
Number of exhaust gas entries **ONE**

b2) Matériau
Material **D-5S NI-RESIST DUCTILE IRON**

c) **Roue de turbine**
Turbine wheel

c1) Matériau
Material **INCONEL 713/713C**

c2) Nombre d'aubes
Number of blades **10**

c3) Hauteur(s) des aubes
Height(s) of blades **24.86** +/- 0.5 mm (measured from the back machined surface of the wheel to the root of the blade where it intersects the hub (disregarding the fillet))

c4) Cotes A, B, C, selon le schéma suivant
Dimensions A, B, C, according to the following sketch

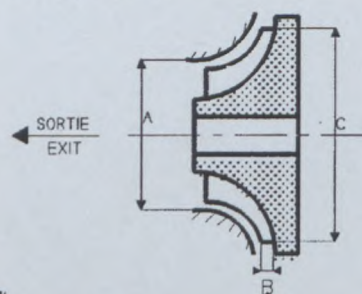
A = **63.34** +/- 0.4 mm

B = **11.47** +/- 0.5 mm

C = **68.00** +/- 0.3 mm

c5) Aubes variables
Variable blades

oui
yes non
no



d) **Carter de compression**
Impeller housing

d1) Nombre d'entrées d'air (mélange)
Number of air entries (gas) **ONE**

d2) Matériau
Material **AL ALLOY 356**

e) **Roue de compression**
Impeller wheel

e1) Matériau
Material **AL ALLOY C355-T6**

e2) Nombre d'aubes
Number of blades **12 (6 FULL / 6 SPLITTER)**

e3) Hauteur(s) des aubes
Height(s) of blades **27.33** +/- 0.5 mm (measured from the top edge of the back disk diameter to the root of the blade where it intersects the hub (disregarding the fillet))

e4) Cotes A, B, C, selon le schéma suivant
Dimensions A, B, C, according to the following sketch

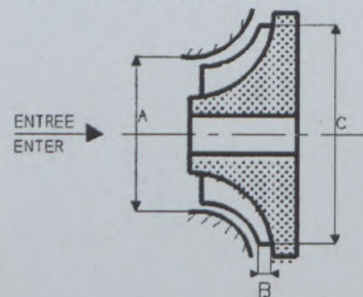
A = **62.16** +/- 0.4 mm

B = **6.13** +/- 0.5 mm

C = **82.00** +/- 0.4 mm

e5) Aubes variables
Variable blades

oui
yes non
no



f) **Régulation de la pression**
Pressure regulation

f1) Type de régulation de la pression
Type of pressure adjustment by-pass
by pass soupape de décharge
relief valve autre cas
other case

f2) Type de la soupape
Type of the valve **SPRING ACTUATED DIAPHRAGM**

Marque
Make **SALEEN**

Modèle
Model **S7**

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SUPPRIMER CETTE PAGE SI LE MOTEUR N'EST PAS SURALIMENTÉ
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g) **Système d'échappement**
Exhaust system

g1) Dimensions intérieures de(s) éventuel(s) tuyau(x) d'échappement entre collecteur d'échappement et turbocompresseur / Internal dimensions of the possible exhaust pipe(s) between exhaust manifold and turbocharger **63.5** mm

h) **Refroidissement de l'air d'admission**
Cooling of the intake air

h1) oui
yes non
no

h2) Système
System air/air
air/air

air/eau
air/water

simple-passe
single-flow

double-passe
double-flow

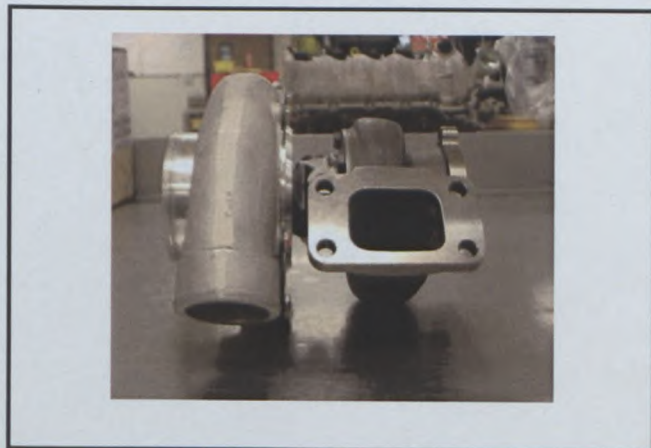
h3) Diamètre de l'entrée d'air
Air inlet diameter _____ +/-1mm

h4) Diamètre de la sortie d'air
Air outlet diameter _____ +/-1mm

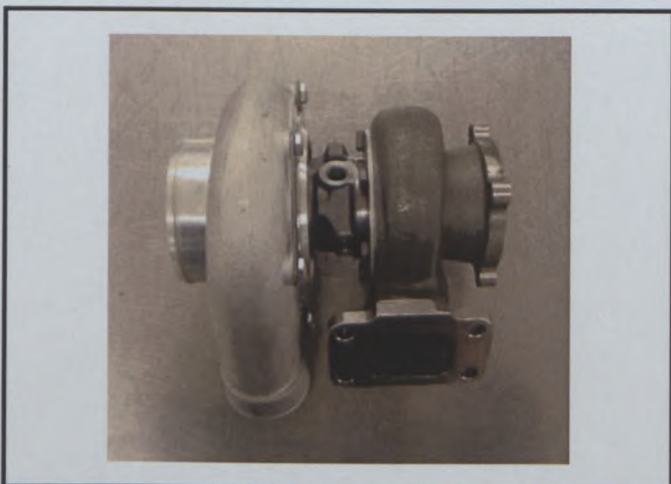
K) Vue de dessus du turbocompresseur
Plan view of turbocharger



L) Vue de face du turbocompresseur
Front view of turbocharger



M) Vue de côté du turbocompresseur
Side view of turbocharger



N) Carter de turbine du turbocompresseur
Turbing Housing of turbocharger



Marque
Make **SALEEN**

Modèle
Model **S7**

SUPPRIMER CETTE PAGE SI LE MOTEUR N'EST PAS SURALIMENTÉ
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- O) Soupape et montage du by-pass du turbocompresseur
Valve and by-pass installation of turbocharger



- P) Système d'échappement entre collecteur et turbocompresseur
Exhaust system between manifold and turbocharger



- Q) Carter de compression du turbocompresseur
Compressor housing of turbocharger



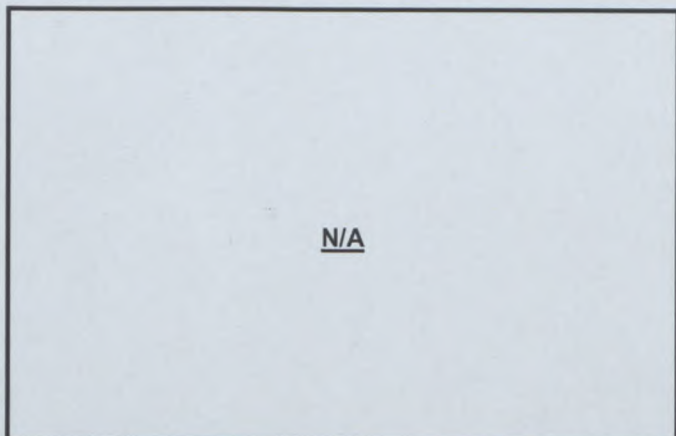
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Modèle
Model **S7**

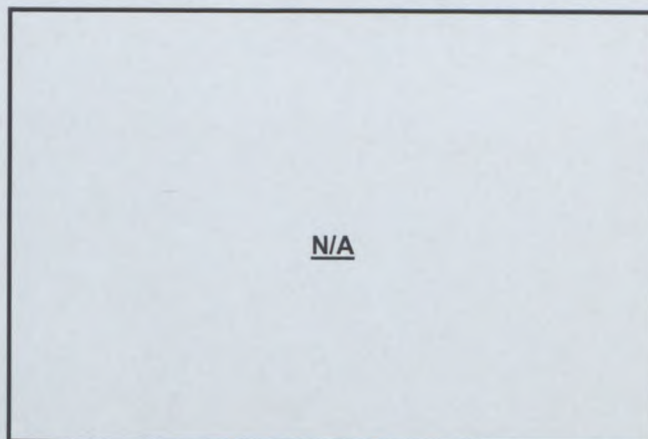
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**SUPPRIMER CETTE PAGE SI LE MOTEUR N'EST PAS SURALIMENTÉ
DELETE THIS PAGE IF ENGINE IS NOT SUPERCHARGED**

R) Echangeur intermédiaire démonté
Intercooler dismounted

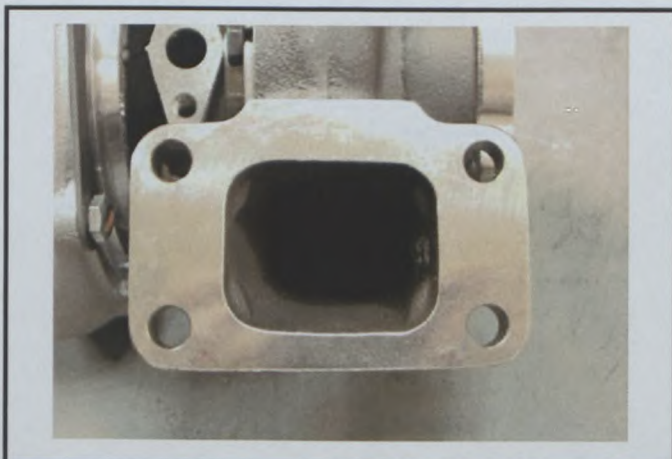


Z) Echangeur intermédiaire monté
Intercooler mounted



DESSINS / DRAWINGS

V) Entrée des gaz d'échappement dans turbine de compresseur
Exhaust gas inlet to the compressor turbine



VI) Sortie des gaz d'échappement de turbine de compresseur
Exhaust gas outlet from the compressor turbine



VII) Entrée d'air (mélange) dans carter de compresseur
Air (gas) inlet to the compressor housing



VIII) Sortie d'air (mélange) du carter de compresseur
Air (gas) outlet from the compressor housing



Marque
Make **SALEEN**

Modèle
Model **ST**

GT1-001

**SUPPRIMER CETTE PAGE SI LE MOTEUR N'EST PAS SURALIMENTE
DELETE THIS PAGE IF ENGINE IS NOT SUPERCHARGED**

IX) **DISPOSITIF REGLANT LA PRESSION DE SURALIMENTATION
DEVICE REGULATING THE TURBOCHARGER PRESSURE**



Pression standard
Standard pressure **0.345** bar

Procédure de contrôle de la pression
Procedure for checking the pressure

BOOST GAUGE

XV) **SYSTEME DE REFROIDISSEMENT DE L'INTERCOOLER
INTERCOOLER COOLING SYSTEM**

N/A

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Marque
Make **SALEEN**

Modèle
Model **S7**

4. CIRCUIT DE CARBURANT / FUEL CIRCUIT

401. Réservoir Fuel tank b) Emplacement Location **CENTER OF VEHICLE TRANSVERSE BEHIND SEAT**

6. TRANSMISSION / POWER TRAIN

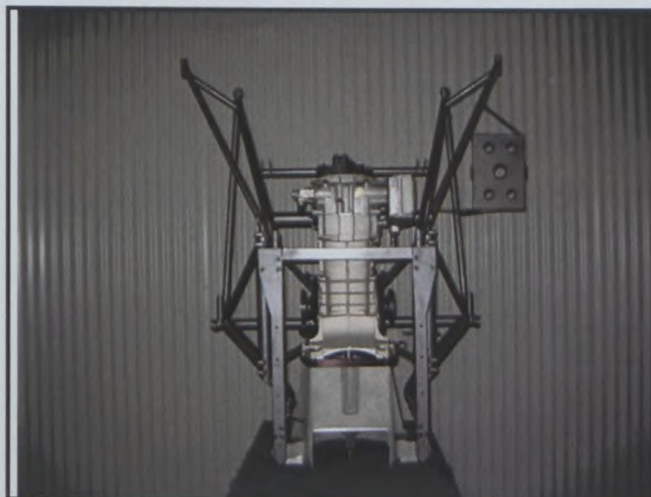
601. Roues motrices Driven wheels avant front oui yes non no arrière rear oui yes non no

603. Boîte de vitesses Gearbox a) Emplacement Location **BEHIND ENGINE** b) Marque Make **LONGITUDINAL**

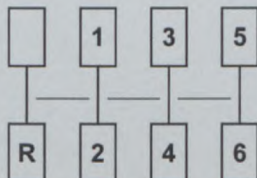
e) Rappports Ratios

	Manuelle Manual			
	Nombre de dents Number of teeth	Rapport Ratio	Const tant	Syn- chro
1	_____	2.860	___	___
2	_____	1.610	___	___
3	_____	1.140	___	___
4	_____	0.958	___	___
5	_____	0.807	___	___
6	_____	.642	___	___
AR / R	_____	_____	___	___
Constante Constant	_____	_____	___	___

S) Carter de boîte de vitesses
Gearbox casing



f) Grille de vitesses
Gear change gate



g) Type de lubrification
Type of lubrication

SYNTHETIC GEAR OIL

604. Boîte de transfert / Différentiel central
Transfer box / Central differential a) Rappports Ratios _____

b) Nombre de dents
Number of teeth _____

c) Système de commande de boîte de transfert
Control system of transfer box _____

d) Type de différentiel central
Type of central differential

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Marque
Make **SALEEN**

Modèle
Model **S7**

605. Couple final
Final drive

	Avant / Front	Arrière / rear
a) Type de couple final Type of final drive	<u>N/A</u>	<u>BEVEL-GEAR</u>
b) Rapport Ratio	<u>N/A</u>	<u>3.78</u>
c) Nombre de dents Number of teeth	<u>N/A</u>	_____
e) Type de lubrification Type of lubrication	<u>N/A</u>	<u>SYNTHETIC GEAR OIL</u>

606. Arbres (4 roues motrices)
Shafts (4 wheels drive)

- a) Type des arbres longitudinaux
Type of longitudinal shafts _____
- b) Matériau des arbres longitudinaux
Material of longitudinal shafts _____
- c) Type des demi-arbres transversaux
Type of transversal half-shafts _____
- d) Matériau des demi-arbres transversaux
Material of transversal half-shafts _____

XII) CHAÎNE CINÉMATIQUE (4 roues motrices) / KINEMATIC TRAIN (4 wheel drive)

N/A

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Marque
Make **SALEEN**

Modèle
Model **S7**

7. SUSPENSION / SUSPENSION

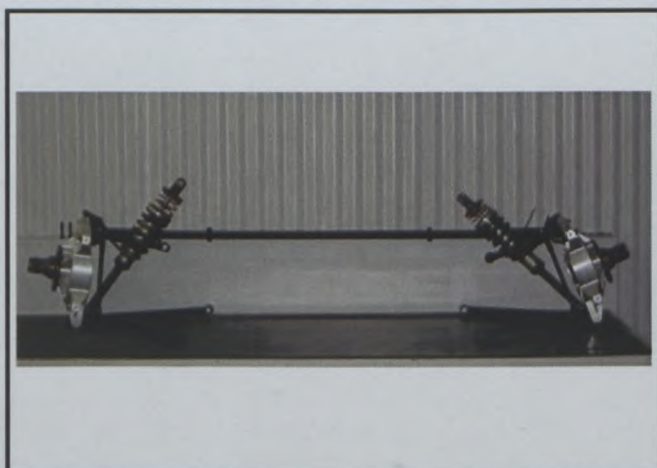
	Avant / Front	Arrière / Rear
701. Généralités General a) Type de suspension Type of suspension	<u>DOUBLE WISHBONE</u>	<u>DOUBLE WISHBONE</u>
702. Ressorts hélicoïdaux Helicoïdal springs	<input checked="" type="checkbox"/> oui yes <input type="checkbox"/> non no	<input checked="" type="checkbox"/> oui yes <input type="checkbox"/> non no
703. Ressorts à lames Leaf springs	<input type="checkbox"/> oui yes <input checked="" type="checkbox"/> non no	<input type="checkbox"/> oui yes <input checked="" type="checkbox"/> non no
704. Barres de torsion Torsion bars	<input type="checkbox"/> oui yes <input checked="" type="checkbox"/> non no	<input type="checkbox"/> oui yes <input checked="" type="checkbox"/> non no

705. Autre type de suspension
Other type of suspension

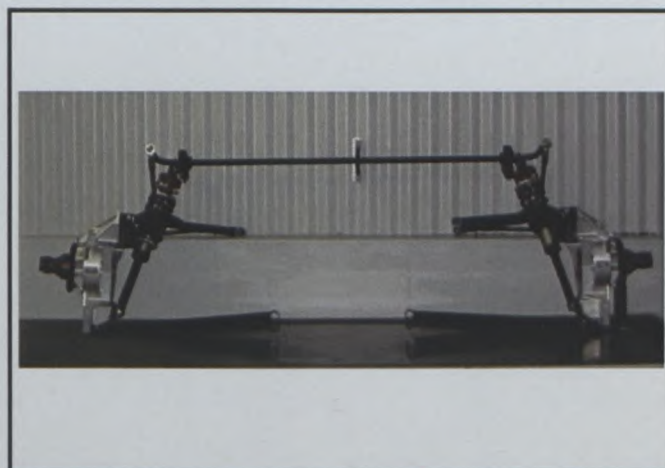
*Voir description sur fiche additionnelle
See description on additional form*

	Avant / Front	Arrière / Rear
707. Amortisseurs Shock absorbers a) Nombre par roue Number per wheel	<u>ONE</u>	<u>ONE</u>
b) Type Type	<u>SINGLE-TUBE</u>	<u>SINGLE-TUBE</u>
c) Principe de fonctionnement Principle of operation	<u>HYDRAULIC</u>	<u>HYDRAULIC</u>

T) Train avant complet déposé
Complete dismantled front axle



U) Train arrière complet déposé
Complete dismantled rear axle



Marque
Make **SALEEN**

Modèle
Model **S7**

8. TRAIN ROULANT / RUNNING GEAR

804. Direction Steering

a) Type
Type

b) Servo-assistance
Power assisted

Type
Type

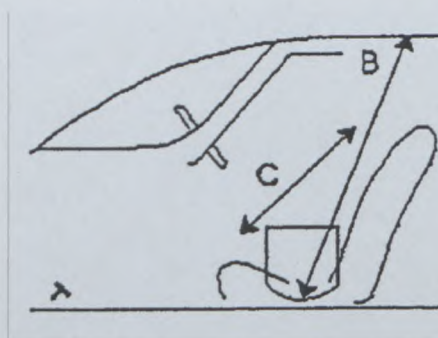
Avant / Front	Arrière / Rear
<u>RACK AND PINION</u>	<u>N/A</u>
<input checked="" type="checkbox"/> oui yes <input type="checkbox"/> non no	<input type="checkbox"/> oui yes <input checked="" type="checkbox"/> non no
<u>ELECTRIC / HYDRAULIC</u>	<u>N/A</u>

9. CARROSSERIE / BODYWORK

Dimensions intérieures comme définies par le Règlement d'Homologation
Interior dimensions as defined by the Homologation Regulations

B (Hauteur sur sièges avant)
(Height above front seats) **1040** mm

C (Largeur aux sièges avant)
(Width at front seats) **1450** mm



X) Tableau de bord
Dashboard



902. Extérieur Exterior

a) Nombre de portes
Number of doors

TWO

b) Hayon
Tailgate

<input type="checkbox"/> oui yes	<input type="checkbox"/> non no
-------------------------------------	------------------------------------

d) Matériau du capot avant
Front bonnet material

CARBON FIBER

Marque
Make **SALEEN**

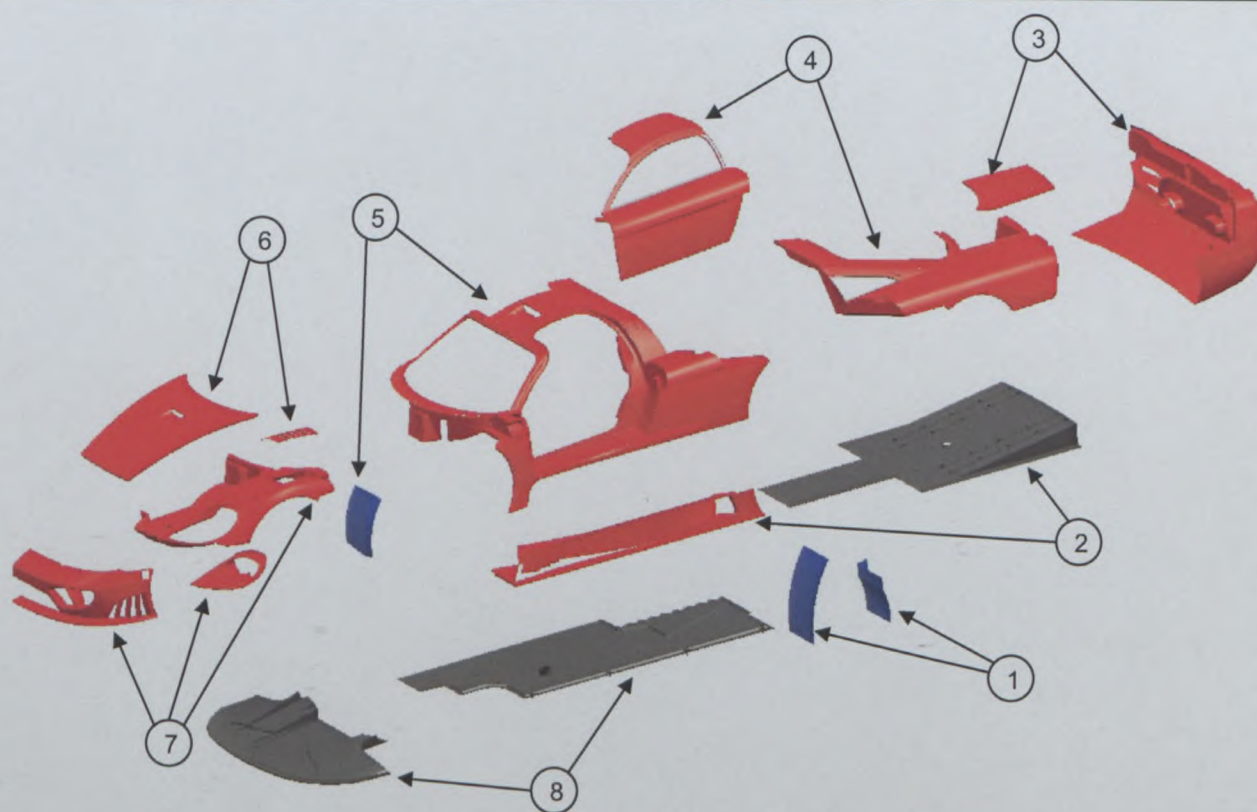
Modèle
Model **S7**

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XIII) PARTIES DE CARROSSERIE NON METALLIQUES / NON METALLIC PARTS OF THE BODY

Numéro / Number	Pièce / Part	Matériau / Material
1	REAR WHEEL ARCHS	CARBON FIBER
2	SILL PANEL & DIFUSER	CARBON FIBER
3	TRUNK & REAR BUMPER	CARBON FIBER
4	DOOR & TAIL SECTION	CARBON FIBER
5	CENTER SECTION & FRONT WHEEL ARCH	CARBON FIBER
6	HOOD & LOUVRES	CARBON FIBER
7	FRONT BUMPER, NOSE & LIGHT HOUSING	CARBON FIBER
8	SPLITTER & FLOOR	CARBON FIBER

DESSIN / DRAWING



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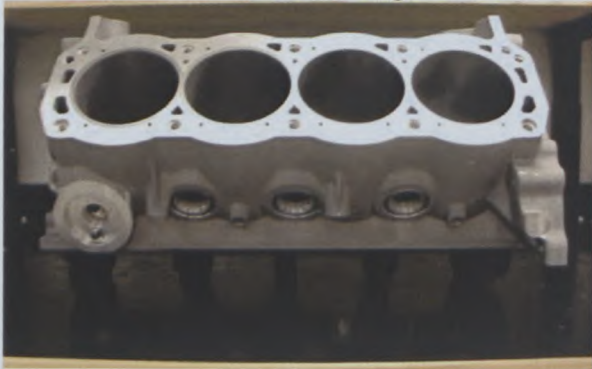
Marque
Make SALEEN

Modèle
Model S7

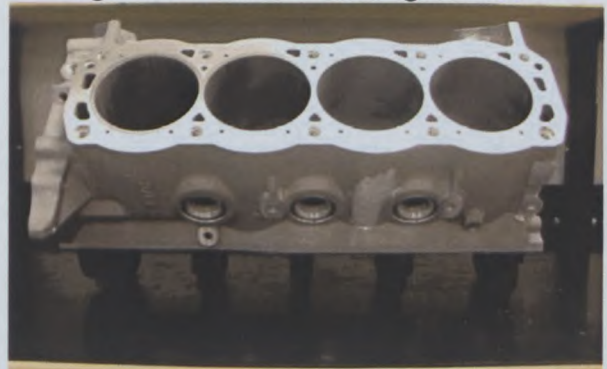
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INFORMATIONS COMPLEMENTAIRES / COMPLEMENTARY INFORMATION

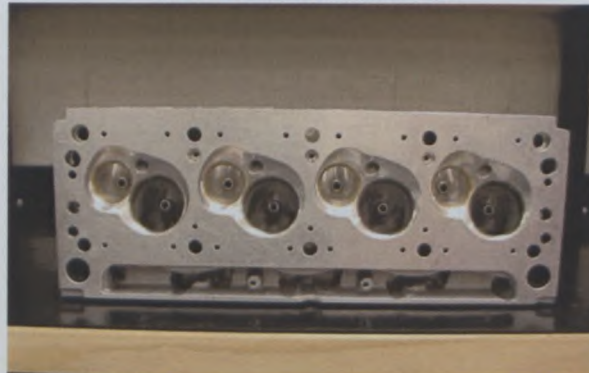
Left hand view of the engine block:



Right hand view of the engine block:



Combustion chamber:



Intake valve angle 10.4 x 3.2



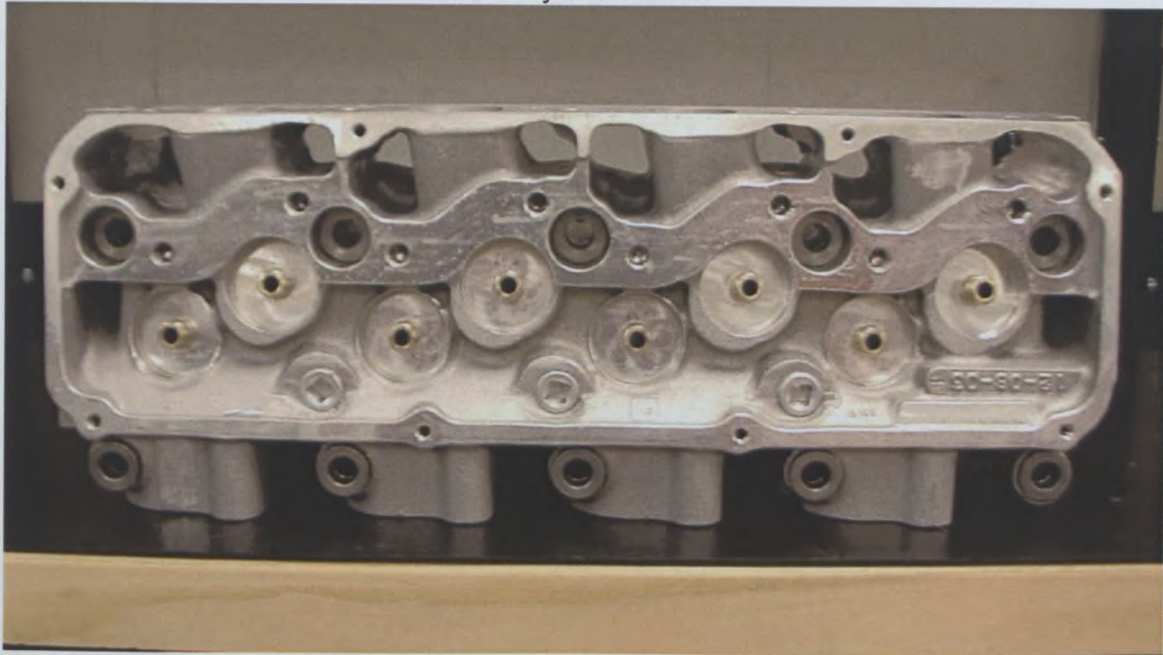
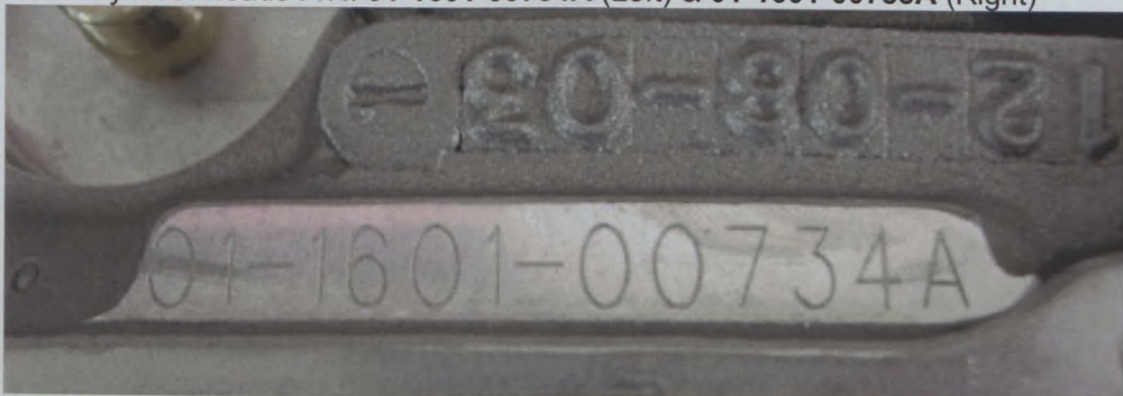
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Marque
Make **SALEEN**

Modèle
Model **S7**

GT1-001**INFORMATIONS COMPLEMENTAIRES / COMPLEMENTARY INFORMATION**

Bare cylinder head:

Cylinder heads P/N: **01-1601-00734A** (Left) & **01-1601-00733A** (Right)

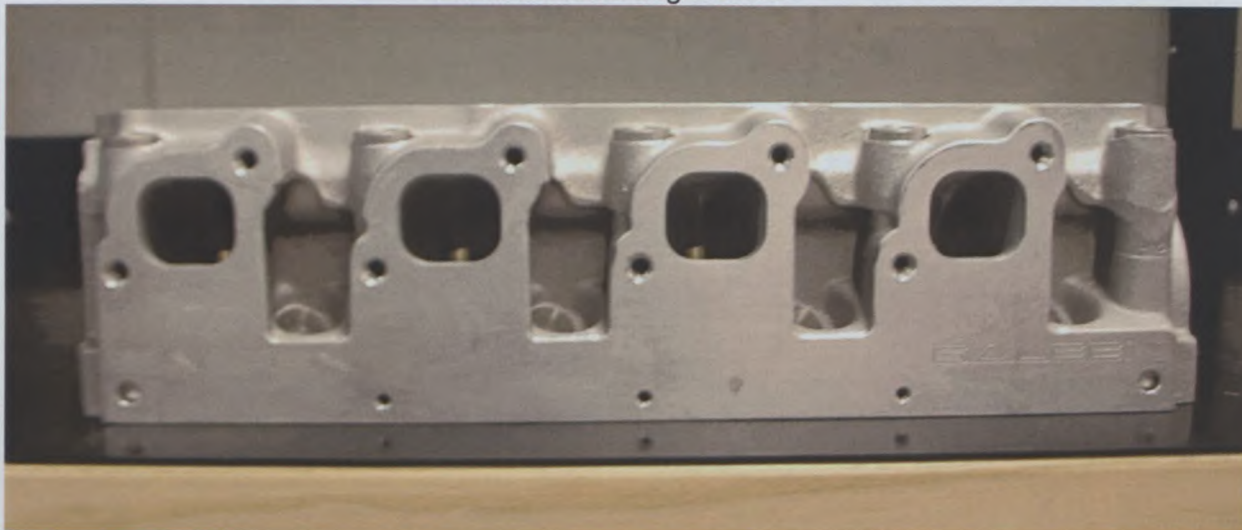
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Marque
Make **SALEEN**

Modèle
Model **S7**

GT1-001**INFORMATIONS COMPLEMENTAIRES / COMPLEMENTARY INFORMATION**

Exhaust valve angle 8 x 0



Exhaust "SALEEN" detail:



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FEDERATION INTERNATIONALE DE L'AUTOMOBILE

Groupe / Group

GT1

Homologation N°

GT1-001

Extension N°

01/01 ER

FICHE D'EXTENSION D'HOMOLOGATION HOMOLOGATION EXTENSION FORM

- ES** Evolution sportive du type / Sporting evolution of the type
- ET** Evolution normale du type / Normal evolution of the type
- VF** Variante de fourniture / Supply variant
- VO** Variante option / Option variant
- VP** Variante de Production / Production variant
- ER** Erratum / Erratum

Véhicule : Constructeur

Vehicle : Manufacturer

SALEEN

Modèle et type

Model and type

S7 TWIN TURBO

Homologation valable à partir du
Homologation valid as from

01 MARS 2008

Page or ext.	Article	Description
2	204c	<p>Largeur du pare brise mesurée à mi hauteur Width of the windscreen measured halway up the screen</p> <p style="text-align: right;"><u>1235</u> mm +/- 1 %</p>

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GT-001
01/01-ER



"Derk Hartland"
<Derk.Hartland@saleen.co
m>
23.02.2008 19:47

A "Manuel Leal" <mleal@fia.com>
cc <jeanvinatier@fia.com>, <p.caporal@fia.com>
ccc
Objet Saleen S7R differences

In short; there are two homologations GT-013 and GT-001.

GT-013 was changed with an evolution to the later body style which includes vents in the window above the engine and a different spoiler that is one piece and is closed on the body. The engine remained the same on this car. This car has a longitudinal gearbox as was required at the time. I believe this car can also be run with the transfers gearbox as there is no longer the need to have the gearbox in the same direction as the streetcar. This would create an issue with the technical forms now required.

GT-001 was based on our latest model the twin-turbo streetcar. Initially there is no difference in the body compared to the evolution of the previous homologation. The main difference is in the engine block and heads which I believe are well documented in the homologation papers.

As a side note the windshield was not changed.

On the track there was a noticeable difference between the two cars where the later one was faster by 1-2 seconds per lap depending on the track. This was mainly due to the weight of the car and the engine configuration. The base weight was much lower allowing to put ballast where needed to make the car handle better. The engine was updated to accommodate the smaller restrictors.

I hope this helps and I apologize for the delay. Let me know if you need more information.

Derk Hartland

Engineering Manager

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Fax Direct: 208 977 1507

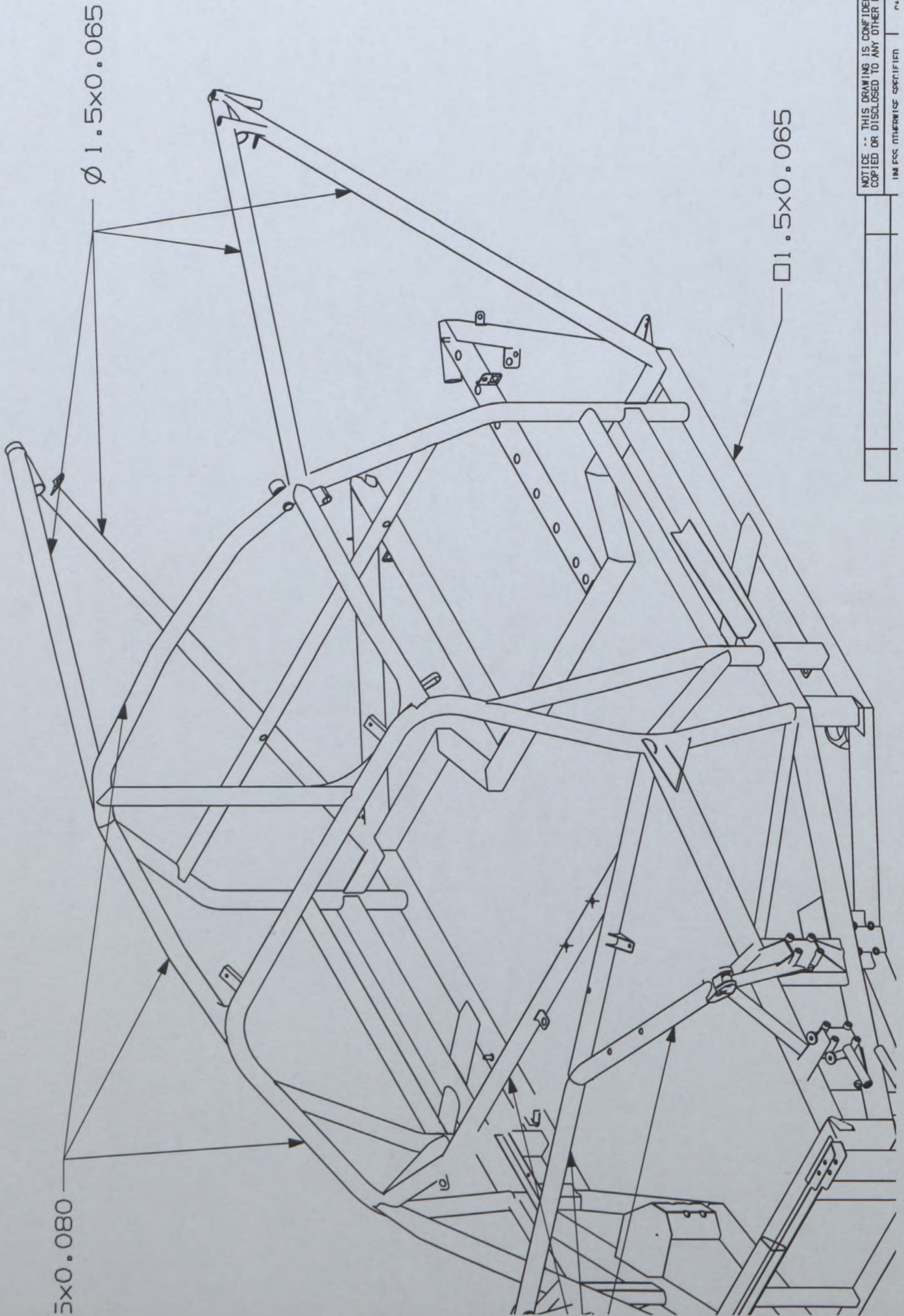
From: Manuel Leal [mailto:mleal@fia.com]
Sent: Wednesday, February 20, 2008 2:14 AM
To: Derk Hartland
Cc: jeanvinatier@fia.com; p.caporal@fia.com
Subject: RE: Saleen S7R differences

Dear Derk,

Thanks a lot for your assistance. We are planning an inspection to check a car next week, so it would be really great if you have something for us by that time. Sorry for the work the FIA is giving to you...

Best regards,
Manuel Leal
Safety Engineer & Technical Delegate

GT4-001



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