REAL FEDERACIÓN ESPAÑOLA DE AUTOMOVILISMO

Certification N°

TCN2 – C – 003

Extension N°

Make: ***SEAT Sport***

Model: ***SEAT Leon Cup Racer V2 / SEQ***

TECHNICAL FORM

TCN2

Certification valid as from: **08 APRIL 2016**

Homologation form only valid for cars in Compliance with the SAFETY CAGE CERTIFICATE HES4441013

1. GENERAL

101. MANUFACTURER

SEAT

102. MODEL AND TYPE

a) Model and type: LEON

b) Typical chassis number: VSSMK35F4XSSPXXX X = VARIABLE DIGITS

103. CYLINDER CAPACITY

Cylinder capacity	1984				cm^3
Corrected cylinder capacity	1984	X	1.7	=	3372.8 cm^3

A1) Race Car seen from 3/4 front

A2) Race Car seen from 3/4 rear

Indicate Master Switch's & Air Jack connector's position

A3) Race Car seen from 3/4 front and below

A4) Race Car seen from 3/4 rear and below

Show air inlets for engine & brake, front & rear towing eyes

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2. DIMENSIONS, WEIGHT

202. OVERALL LENGTH

a) Overall:	**4547**	± 10 mm
b) at bumpers:	**4357**	± 10 mm

203. OVERALL WIDTH

1950 mm -1%

Measurement point**:** Front axle centreline

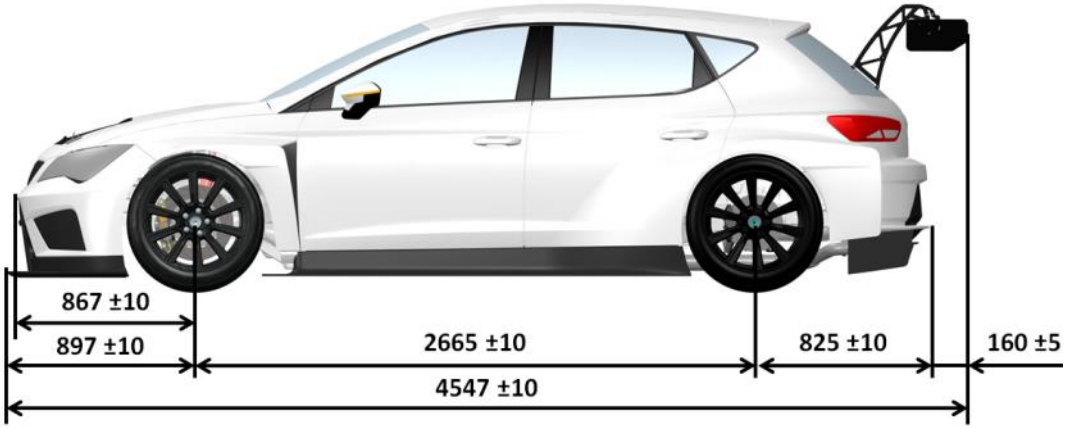
204. WIDTH OF BODYWORK

a) At front axle centreline	**1950**	mm	-1%
b) At rear axle centreline	**1935**	mm	-1%

206. WHEELBASE

2665 ± 10 mm

II-C1) POSITION DES AXES D'ESSIEUX / *POSITION OF AXLE CENTRELINES*



209. OVERHANG

a)	Front	**897**	± 10 mm
	Front at bumper	**867**	± 10 mm
b)	Rear	**985**	± 10 mm
	Rear at bumper	**825**	± 10 mm

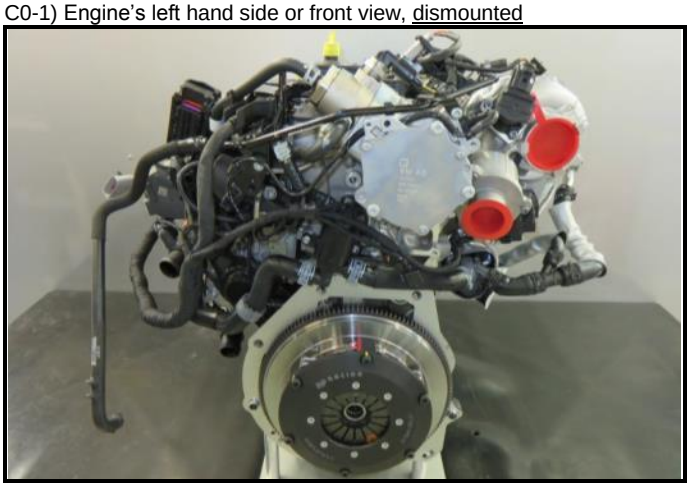
210. MINIMUM WEIGHT

1140 kg

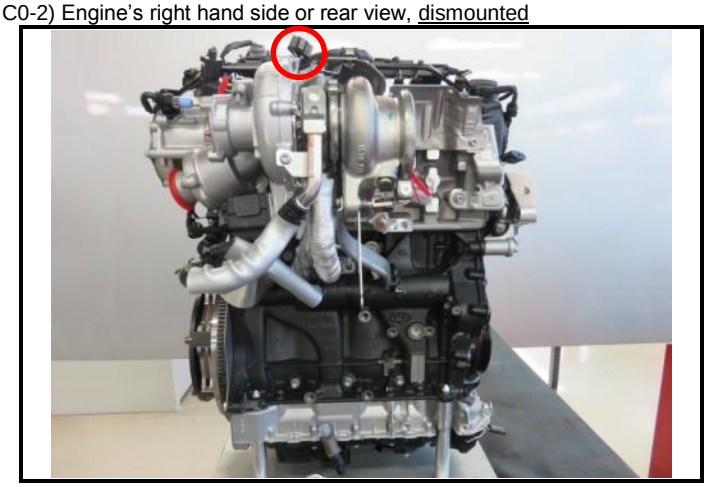
3. ENGINE

Model and origin of the engine: **EA888** Identification: **CJX-** Original car: **SEAT LEON CUPRA**

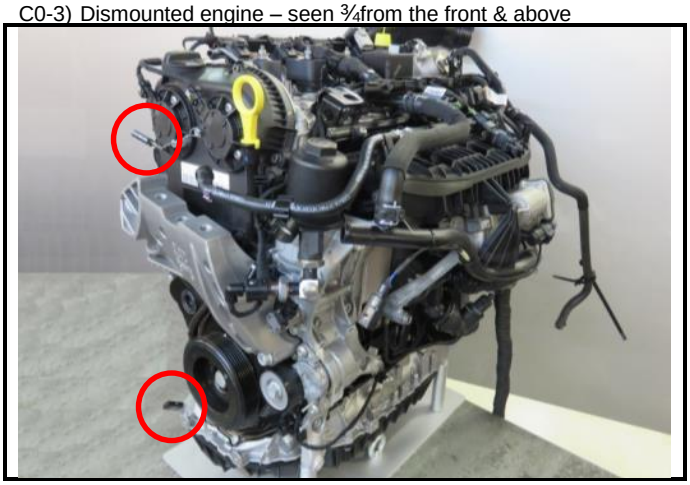
C0-1) Engine's left hand side or front view, dismounted



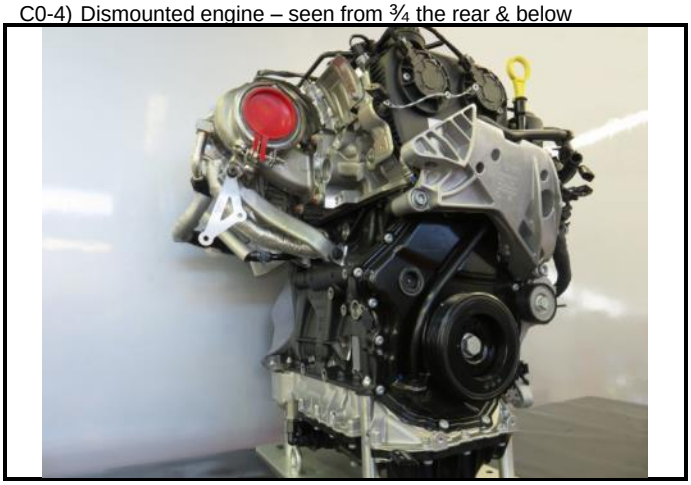
C0-2) Engine's right hand side or rear view, dismounted



C0-3) Dismounted engine – seen ¾from the front & above



C0-4) Dismounted engine – seen from ¾ the rear & below



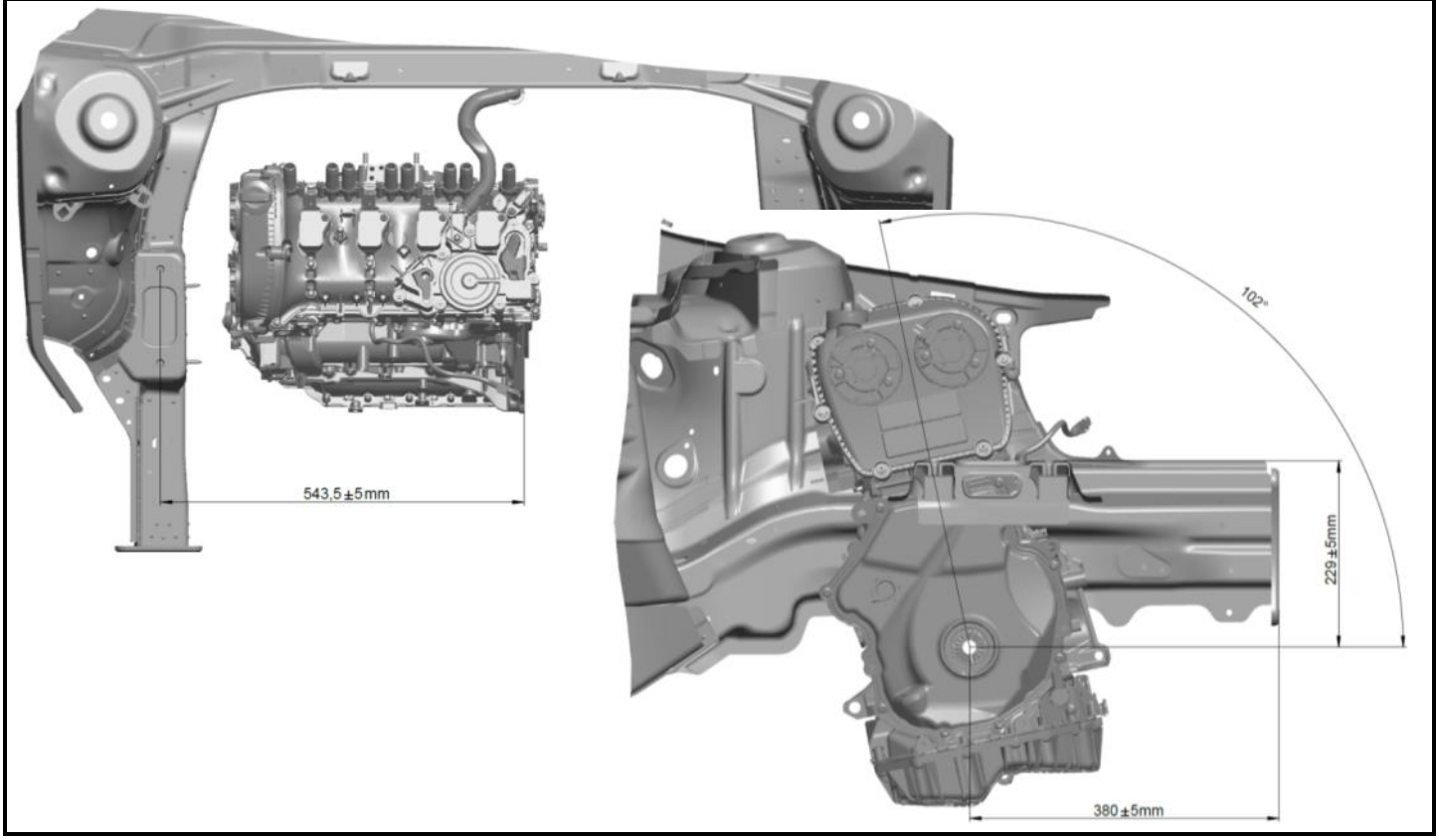
C0-5) Engine in location seen from above

C0-6) Engine in location seen from below

301. LOCATION AND POSITION OF THE ENGINE

b) Position	**X** =	**380**	± 5 mm	See scheme **III-A1)**
	Y =	**343.5**	± 5 mm	
	Z =	**229**	± 3 mm	
c) Inclination		**102**	- 2°	
d) Minimum weight of the engine:		**142**	±0.5kg	

III-A1) POSITION OF THE ENGINE



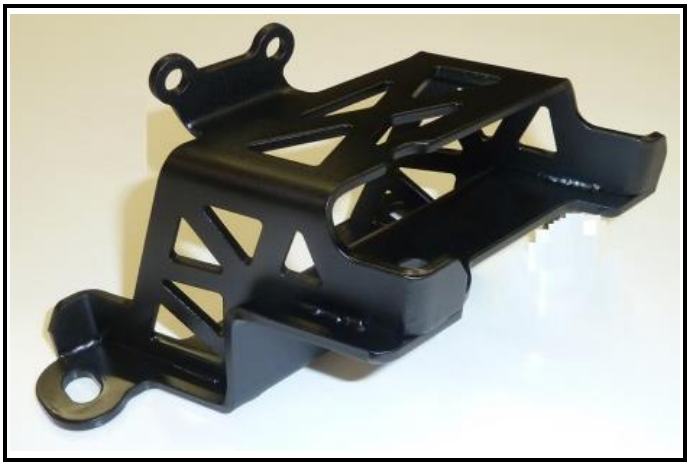
C1-1) Reference point

C1-2) Engine serial number

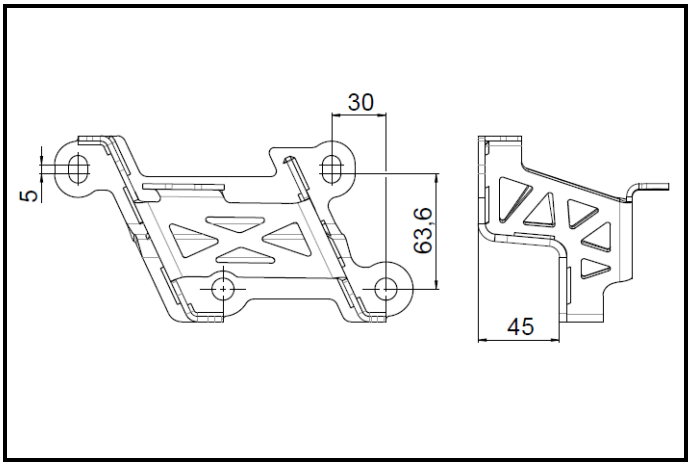
302. ENGINE SUPPORTS

Number: **3**

C2-1) Engine support **1** dismounted (photo)
Material: **Steel**

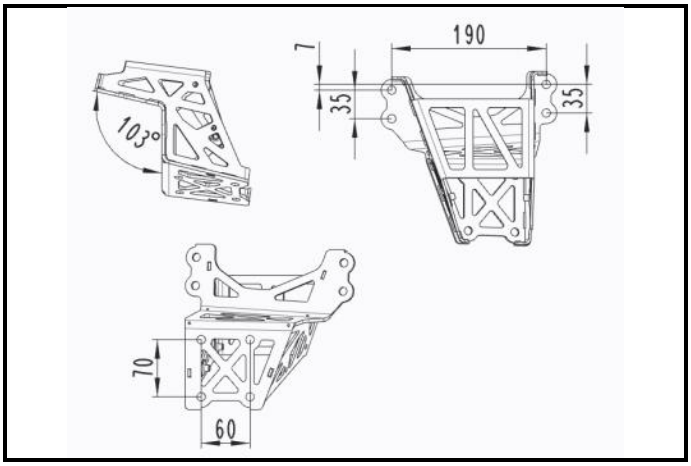


III-B1) Engine support **1** (Drawing)



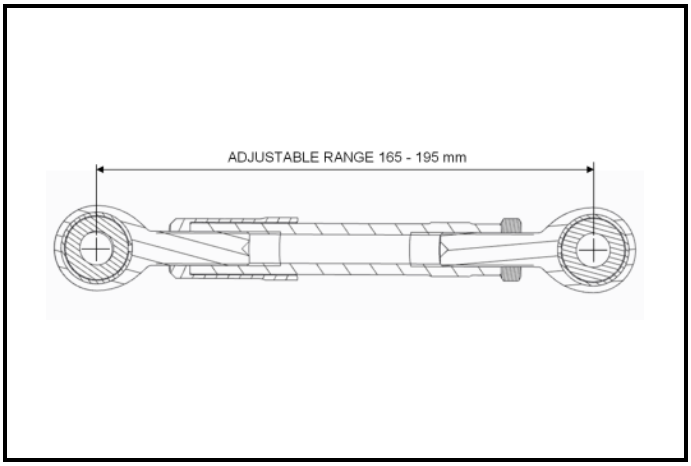
C2-2) Engine support **2** dismounted (photo)
Material: **Steel**

III-B2) Engine support **2** (Drawing)



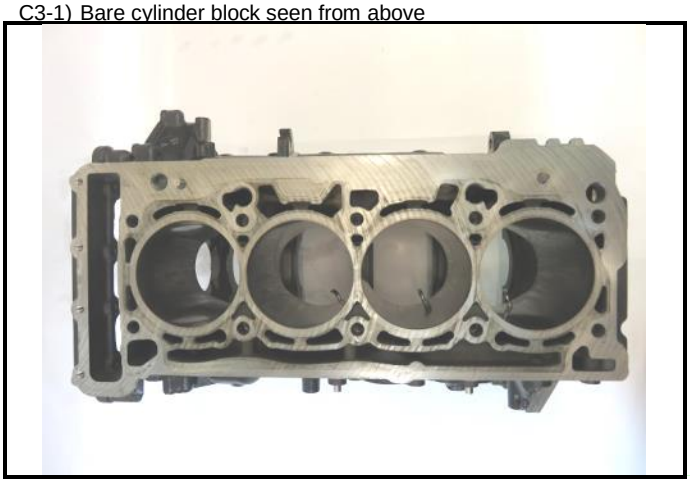
C2-3) Engine support **3** dismounted (photo)
Material: **Steel & Alluminium**

III-B3) Engine support **3** (Drawing)

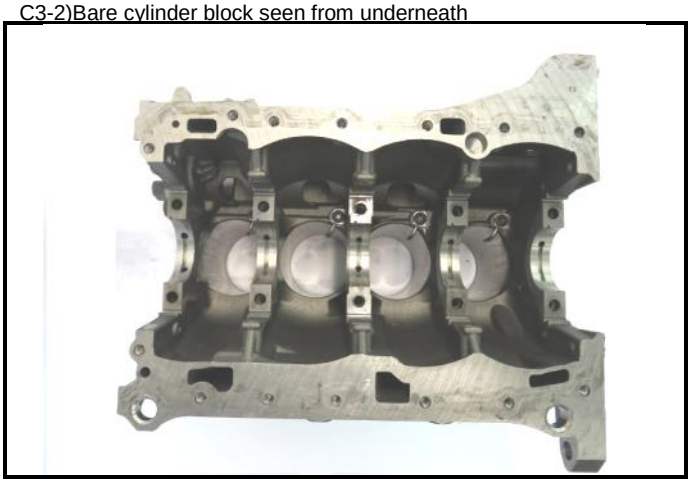


304.	**SUPERCHARGING**			
	Type and number of compressors	**1 – Turbo charger**		
307.	**CYLINDER CAPACITY**			
	a) Unitary	**496.1**	cm^3	
	b) Total	**1984.3**	cm^3	
	c) Maximum total allowed	**1984.5**	cm^3	
310.	**COMPRESSION RATIO (IN RELATION WITH THE UNIT)**			
	Maximum:	**9.3**	: 1	
314.	**BORE**			
	82.5 mm	+0 - 0.1 mm		
316.	**STROKE**			
	92.8 mm	+0 - 0.1 mm		
311.	**CYLINDER BLOCK**			
	a) Material	**Steel**		
	c) Minimum weight	**34100**	g	Without crankshaft bearings caps, with fixing studs (bearing caps, cylinder head and oil sump)

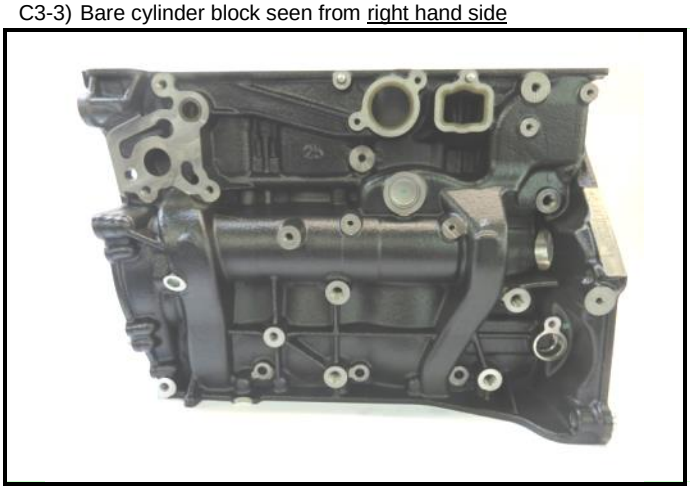
C3-1) Bare cylinder block seen from above



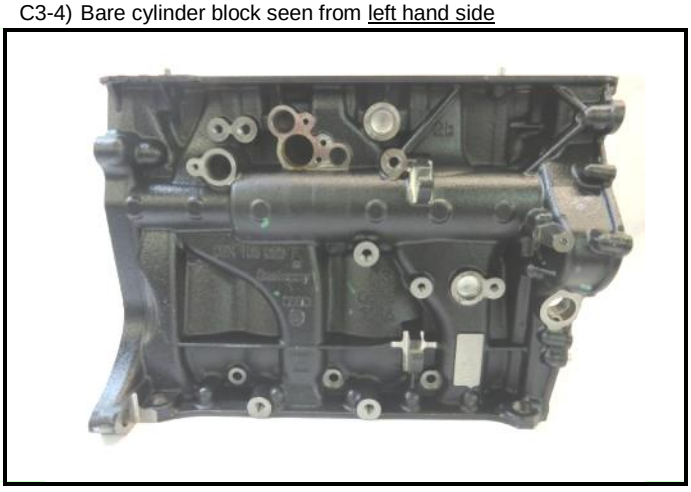
C3-2)Bare cylinder block seen from underneath



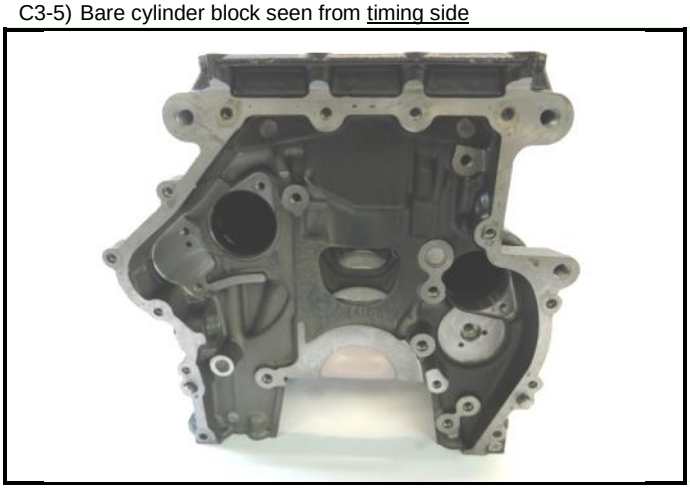
C3-3) Bare cylinder block seen from right hand side



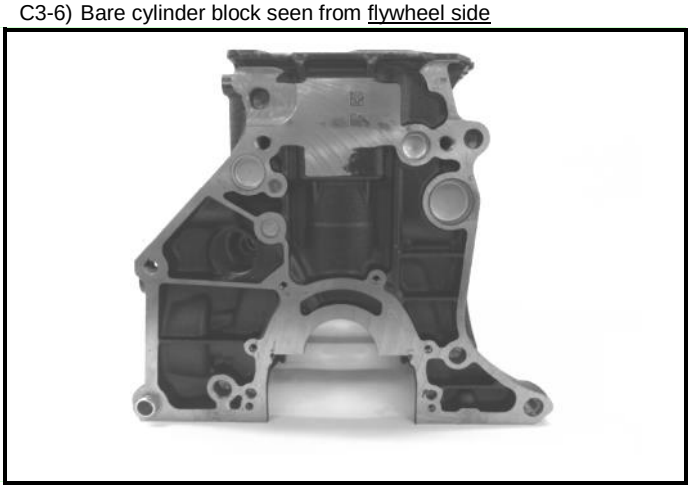
C3-4) Bare cylinder block seen from left hand side



C3-5) Bare cylinder block seen from timing side



C3-6) Bare cylinder block seen from flywheel side



C3-7) Crankshaft bearing caps

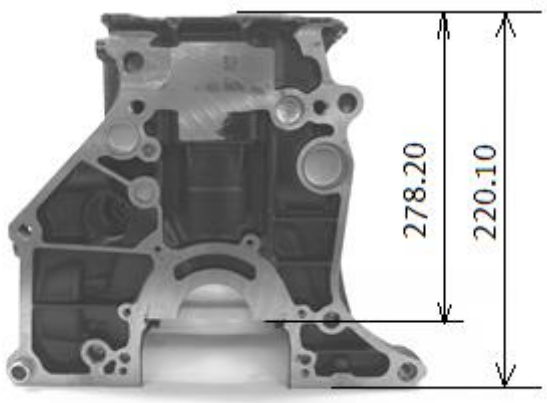
C3-7b) Crankshaft bearing caps

BELONGING TO EA888 ENGINE

312. MIN. HEIGHT OF THE CYLINDER BLOCK

a) Between sump and head gasket planes	**278.20**	mm
b) Between crankshaft centreline and head gasket plane	**220.10**	mm

III-C1) Height measurement



313. SLEEVES

	Yes	No
a) Sleeved cylinder block	☐	☒

b) Material

c) Type:

C3-8) Sleeve dismounted

BELONGING TO EA888 ENGINE

317. PISTON

a) Material **ALUMINIUM**

b) Number of rings **3**

b1) Thickness of rings **5.18 / 5.18 / 2.02** + 0.1 -0.05 mm

c) Minimum weight **415** g

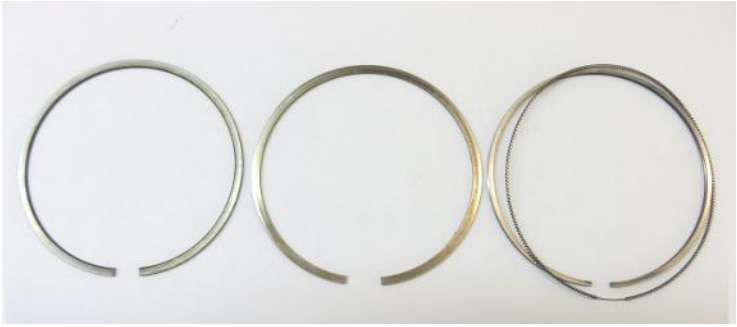
With pin, bearing, clips and rings

d1) Minimum compression height **29.6** mm

C4-1) Piston from ¾ top

C4-2) Piston from ¾ bottom

C4-1) Piston rings



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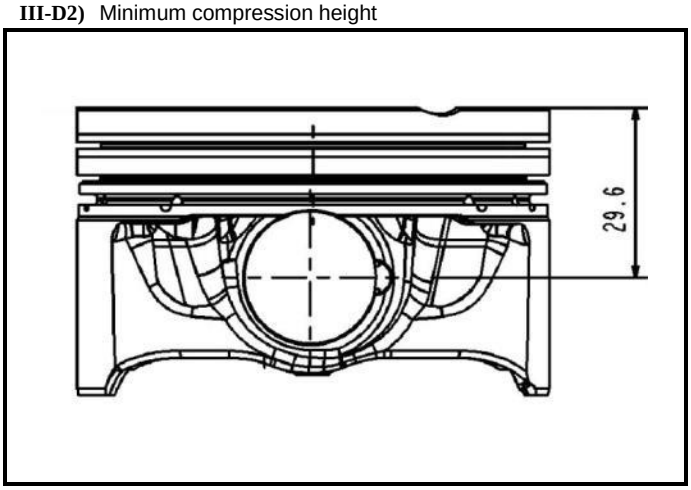
III-D1) Piston pin

III-D2) Minimum compression height



318. CONNECTING ROD

a) Material **Cast Iron**

b) Big end type

c) Interior diameter of the big end (without shell bearings) **50,6** +0.1 mm

d) Length between axes **144** ± 0.1 mm

e) Minimum weight **565** g

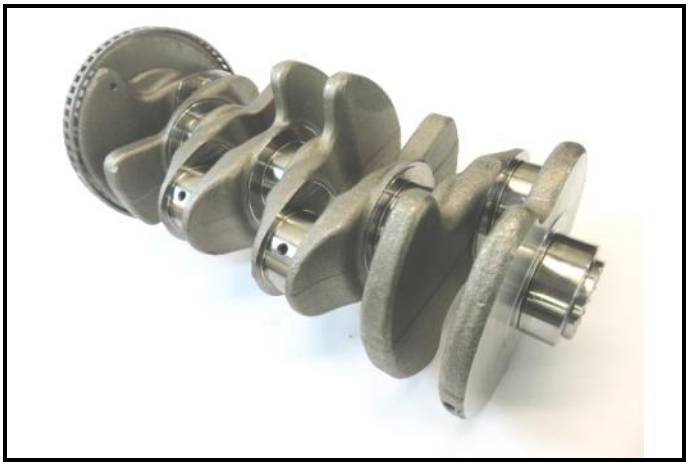
C5-1) Connecting rod from ¾ on big end side

C5-2) Connecting rod from ¾ rear on small end side

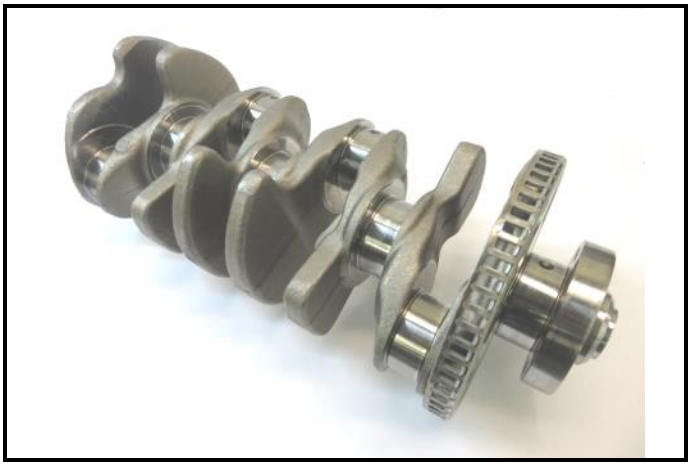
319. CRANKSHAFT

a)	Type of manufacture	**ONE PIECE**	b) Material	**Cast Iron**
c)	Manufacturing process:	**Cast**		
f)	Diameter of bearings	**48**	-0.1 mm	
g)	Bearing caps material	**Steel**		
h)	Minimum weight of bare crankshaft	**12242**		
i)	Maximum diameter of crank pins	**47.8**	mm	
j)	Bearings:	Width: **15.33**	mm	

C6-1) Crankshaft from ¾ front



C6-2) Crankshaft from ¾ rear



C6-3) Alternative crankshaft bearings

BELONGING TO EA888 ENGINE

320.	**FLYWHEEL**			
	b) Weight	**6500** g		**± 500g**
	c) External diameter of the starter ring	**288**	± 3 mm	
	d) Number of teeth of the starter ring	**135**		
	e) Thickness of the starter ring	**14.5** mm		

C7-1) Flywheel from ¾ front

C7-2) Flywheel from ¾ rear

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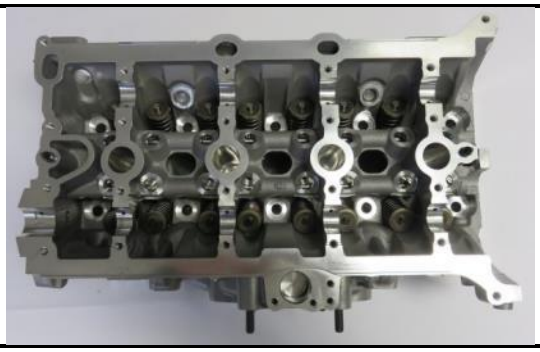
Make: ***SEAT Sport***

Model: ***SEAT Leon Cup Racer V2 / SEQ***

321. CYLINDERHEAD

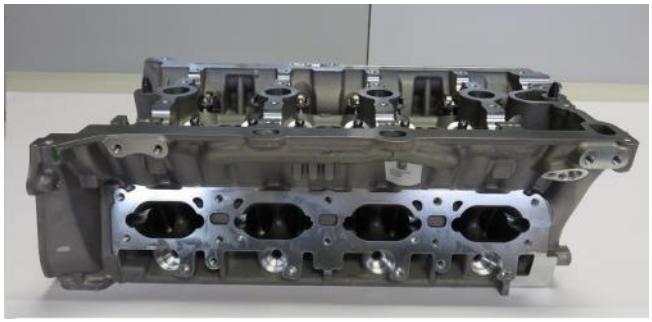
b)	Material	**Aluminium**	
c)	Minimum height with and without gasket	**140,5 / 139,5**	…mm ±0.1mm / …mm ±0.1mm
d)	Where measured	**Between head gasket and cylinder head cover planes** (C8-8)	
e)	Angle between intake valve and cylinder head gasket plane	**72**	deg±1º
f)	Angle between exhaust valve and cylinder head gasket plane	**68.5**	deg±1º
g)	Minimum volume of a combustion chamber		cm3
h)	Minimum weight **14492,5** g	With intake and exhaust valves with springs.	

C8-1) Bare cylinder head seen from top (camshaft side)

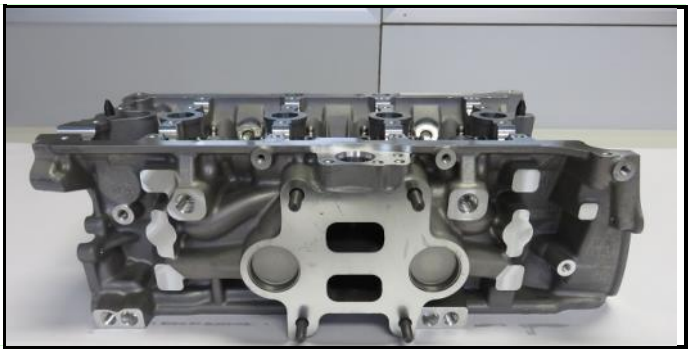


C8-2) Bare cylinder head seen from underneath (chamber side)

C8-3) Bare cylinder head seen from intake side



C8-4) Bare cylinder head seen from exhaust side

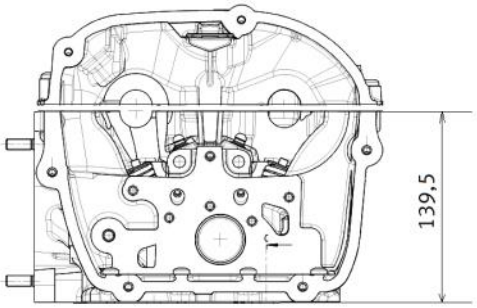


C8-5) Bare cylinder head seen from timing side

C8-6) Bare cylinder head seen from flywheel side

C8-7) Combustion chamber

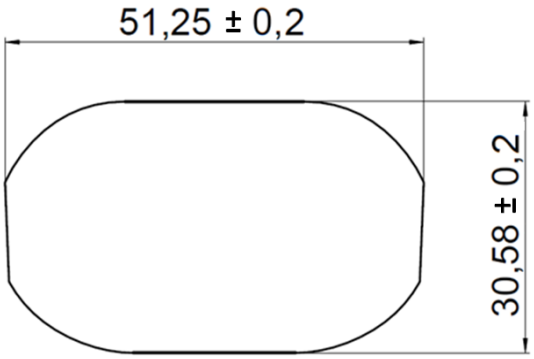
C8-8) Height measurement (321. view)



INTAKE

Drawings of cylinder head ports - tolerances on dimensions

III-K1) Cylinder head, manifold side



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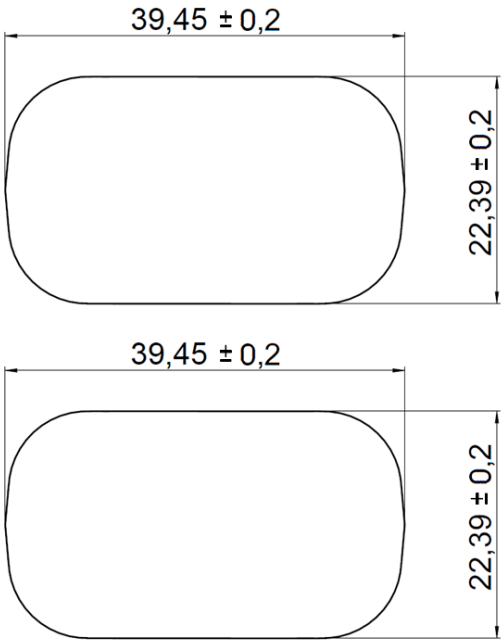
EXHAUST

Drawings of cylinder head ports - tolerances on dimensions

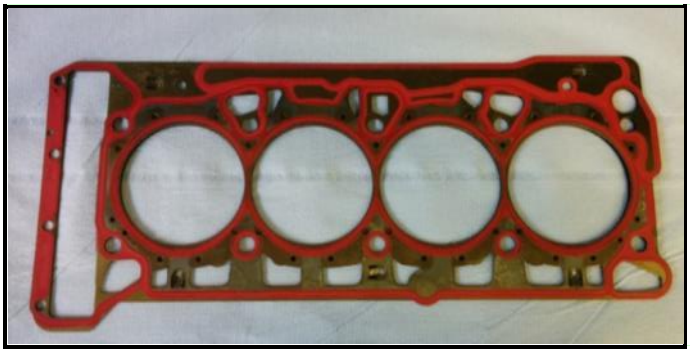
III-L1) Cylinder head, manifold side



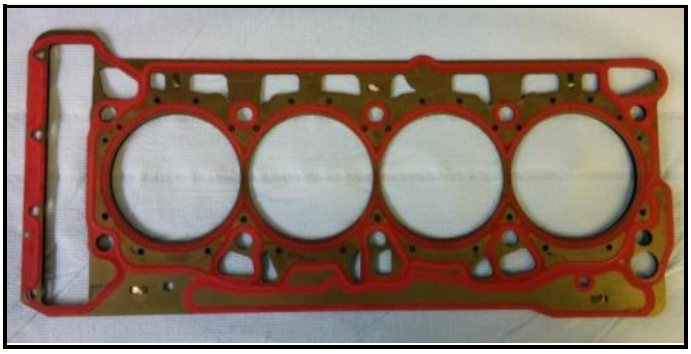
322. CYLINDERHEAD GASKET

a)	Thickness of new cylinder head gasket	**0.9 mm**	± 0.1 mm
	Thickness of tightened cylinder head gasket		± 0.1 mm

C8-8) Cylinder head gasket from above



C8-9) Cylinder head gasket from below



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324. FUEL FEED BY INJECTION - ELECTRONICS

a) Make and type: **CONTINENTAL**

b) ECU Model: **SIMOS 18.1**

b1) Software Performance Level 100%: **5F6906259C** b2) Check number: **0001**

b3) Software Performance Level 95%: **5F6906259C** b4) Check number: **-05%**

b5) Software Performance Level 90%: **5F6906259C** b6) Check number: **-10%**

b7) Codification: **0B 1D 00 12 24 14 00 08 00 00** Method: **OBDII**

No of installed speed limiter: **5** Speeds: **40, 60, 80, 100, 120**

f) Intake manifold injectors f1) OEM Origin: **VW Group** f2) Identification: **BOSCH**

Comb. chamber injectors f3) OEM Origin: **VW Group** f4) Identification: **BOSCH**

g) List of engine control system sensors

C1	THROTTLE PEDAL POSITION	C15	
C2	KNOCKING SENSOR	C16	
C3	FUEL PRESSURE (LP)	C17	
C4	HALL SENSOR (2)	C18	
C5	WATER TEMPERATURE	C19	
C6	WATER TEMPERATURE (AFTER RADIATOR)	C20	
C7	ENGINE SPEED	C21	
C8	ENGINE OIL LEVEL AND TEMP	C22	
C9	INTAKE MANIFOLD FLAPS POTENTIOMETER	C23	
C10	INTAKE MANIFOLD AIR PRESSURE AND TEMP	C24	
C11	FUEL PRESSURE (HP)	C25	
C12	BOOST PRESSURE	C26	
C13	LAMBDA PROBE	C27	
C14	OIL ENGINE PRESSURE (3)	C28	

h) List of engine control system actuators

A1	ELECTRIC THROTTLE	A9	OIL PRESSURE REGULATION VALVE
A2	COILS (4)	A10	WASTE GATE
A3	SPARK PLUGS (4)	A11	COOLING PISTON VALVE
A4	COMBUSTION CHAMBER INJECTORS (4)	A12	CAM ADJUSTMENT ACTUATOR (8)
A5	INTAKE MANIFOLD INJECTORS (4)	A13	INTAKE MANIFOLD THROTTLE VALVE
A6		A14	FUEL PUMP
A7	TURBO CHARGER BYPASS VALVE	A15	ENGINE WARMING VALVE
A8	VARIABLE DISTRIBUTION VALVES (2)	A16	ADITIONAL WATER PUMP

C9-1) Engine control system sensors

 C1	 C2	 C3	 C4
 C5	 C6	 C7	 C8
 C9	 C10	 C11	 C12
 C13	 C14	N/A C15	N/A C16
N/A C17	N/A C18	N/A C19	N/A C20
N/A C21	N/A C22	N/A C23	N/A C24
N/A C25	N/A C26	N/A C27	N/A C28

C9-1) Engine control system actuators

A1

A2

A3

A4

A5

N/A

A6

A7

A8

A9

A10

A11

A12

A13

A14

A15

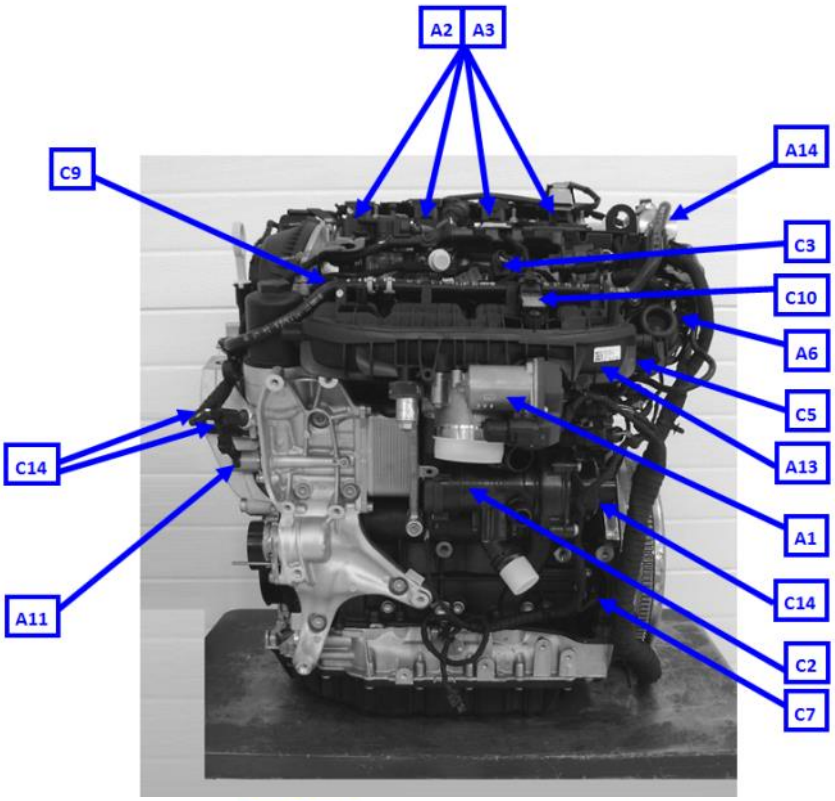
A16

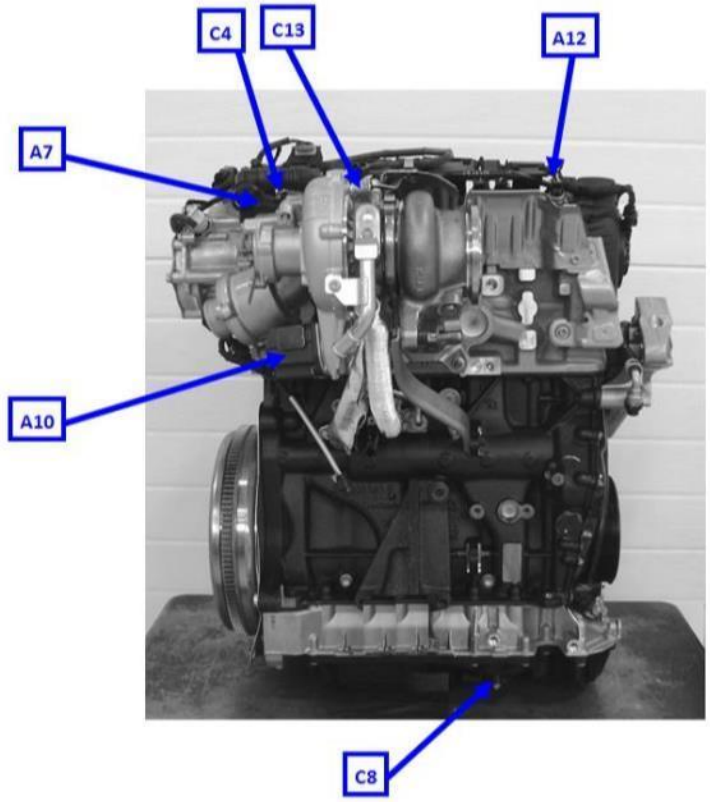
ENGINE ECU

POWER UNIT

N/A	N/A
INJECTOR DRIVER	**HP FUEL PUMP DRIVER**

III-I1) LOCATION OF SENSORS AND ACTUATORS





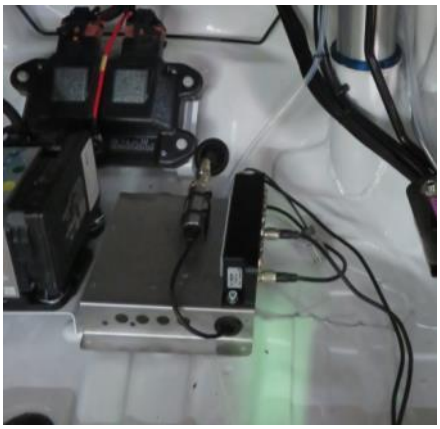
SCRUTINEERING DATA LOGGING SYSTEM

i) List of FIA data logging system sensors (if different from Art. 324)

LOOM

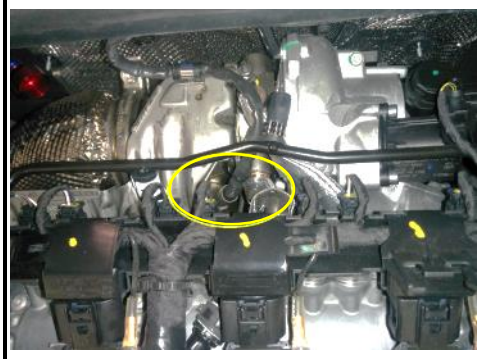
DL0	**Boost pressure**
DL1	**Engine speed**
DL2	**Front wheel speed**
DL3	**Rear wheel speed**
DL4	**Lambda Sensor**
DL5	**Throttle pedal position**
DL6	**Engine Water Temperature**
DL7	**Front Brake Calliper pressure**
DL8	**Lap trigger**
DL9	**GPS**

C9-2) Scruteneering data logging system



DATA LOGGING UNIT IN LOCATION

BOOST PRESSURE SENSOR IN LOCATION

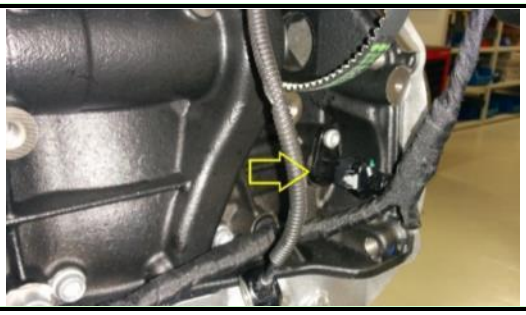


LAMBDA SENSOR IN LOCATION

1. Data logger AIM EVO 4
2. GPS antenna
3. IR - receiver
4. Connection cable CAN
5. Extension cable Memory Key
6. Connection cable 12V
7. Boost/Manifold pressure sensor
8. Holder

WIRE LOOM DISMOUNTED

ENGINE SPEED SENSOR IN LOCATION

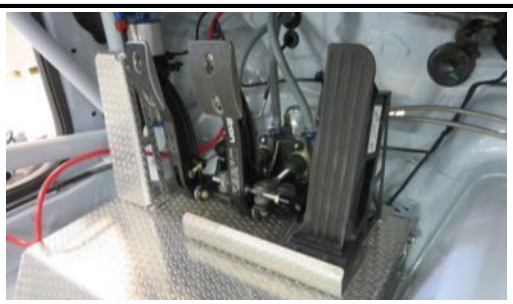


WHEEL SPEED CONTROL UNIT IN LOCATION

FRONT WHEEL SPEED SENSOR IN LOCATION

REAR WHEEL SPEED SENSOR IN LOCATION

THROTTLE PEDAL POSITION IN LOCATION



ENGINE WATER TEMPERATURE IN LOCATION

ENGINE WATER TEMPERATURE IN LOCATION

N/A

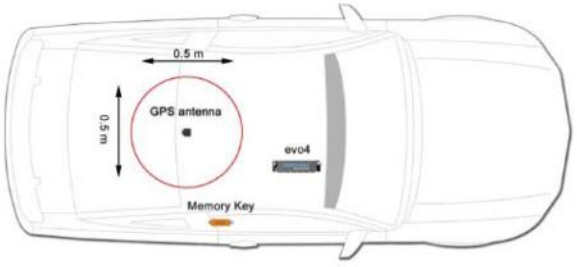
ENGINE WATER TEMPERATURE IN LOCATION

N/A

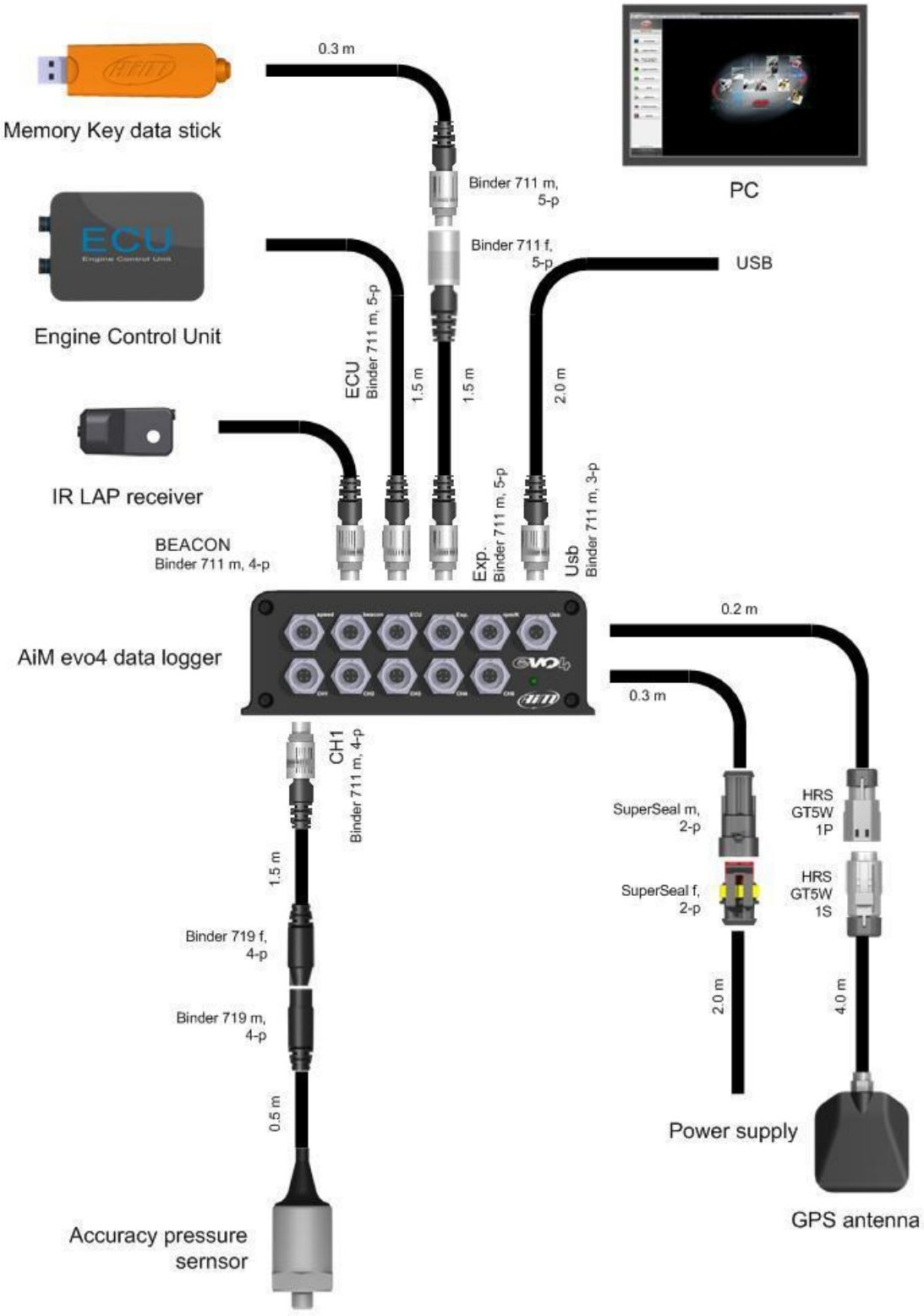
LAP TRIGGER SENSOR IN LOCATION

N/A

GPS SENSOR IN LOCATION



III-I2) SCRUTINEERING DATA LOGGING SYSTEM; WIRE LOOM DRAWING



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Certification N°

TCN2 – C – 003

Extension N°

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Technical Department

Make: ***SEAT Sport***

Model: ***SEAT Leon Cup Racer V2 / SEQ***

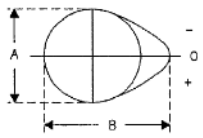
325. CAMSHAFT

c) Drive system **CHAIN**

e) Diameter of bearings **24** ± 0.1 mm

g) Cam dimensions

	Intake		Exhaust	
A =	**32**	± 0.1 mm	**32**	± 0.1 mm
B =	**38.38**	± 0.1 mm	**37.7 / 35.6**	± 0.1 mm



The tolerances must be used with the same sign for A and B

h) Minimum weight(s) Intake: **1.60** kg Exhaust: **2.97** kg

326. TIMING

a) Theoretical clearance **Intake** mm **Exhaust** mm

b) Cam lift in mm (dismounted camshaft)

INTAKE				EXHAUST			
Rotation angle in degrees	Lift in mm (± 0.05 mm)	Rotation angle in degrees	Lift in mm (± 0.05 mm)	Rotation angle in degrees	Lift in mm (± 0.05 mm)	Rotation angle in degrees	Lift in mm (± 0.05 mm)
0				0			
- 5		+ 5		- 5		+ 5	
- 10		+ 10		-10		+ 10	
- 15		+ 15		- 15		+ 15	
- 30		+ 30		- 30		+ 30	
- 45		+ 45		- 45		+ 45	
- 60		+ 60		- 60		+ 60	
- 75		+ 75		- 75		+ 75	
- 90		+ 90		- 90		+ 90	
- 105		+ 105		- 105		+ 105	
- 120		+ 120		- 120		+ 120	
- 135		+ 135		- 135		+ 135	
- 150		+ 150		- 150		+ 150	

A shift of ± 2 degrees of **the whole measurement** is accepted

c) Maximum valve lift

Intake		Exhaust	
	± 0.2 mm		± 0.2 mm

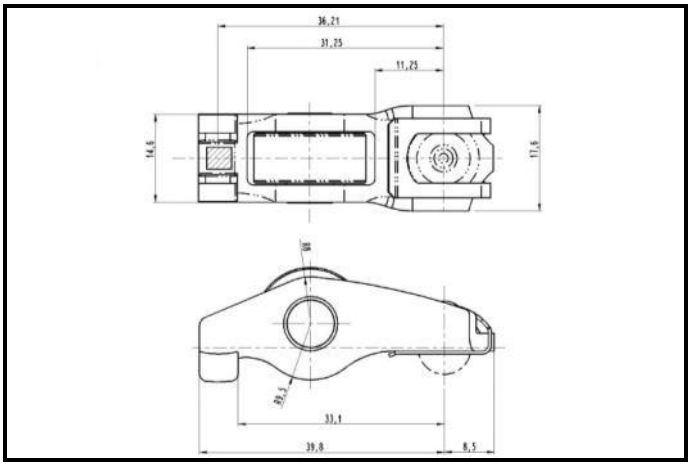
with clearance according to Art. 326a

C10-1) Camshaft - dismounted

C10-2) Camshaft - dismounted

C10-5) Rocker arm – dismounted

III-J2) Rocker arm – typical dimensions



C10-6) Tappet – dismounted

N/A

III-J3) Tappet – typical dimensions

N/A

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C10-7) Timing belt or chain – dismounted

Pitch: **6.35 mm**
Number of teeth: **170**
Nominal length: **1079.5 mm**
Width: **12.28 mm**

327. INTAKE

a) Air filter housing — Make: **BMC** — Identification: **ACCDA90-220A**

b) Air filter element — Make: **BMC** — Identification: **SPCDA100-200S-6L**

C11-1) Intake manifold - dismounted

C11-2) Air filter and its housing - dismounted

C11-3) Throttle unit - dismounted

C11-4) Throttle unit - dismounted

C11-6) Pressure relief valve - dismounted

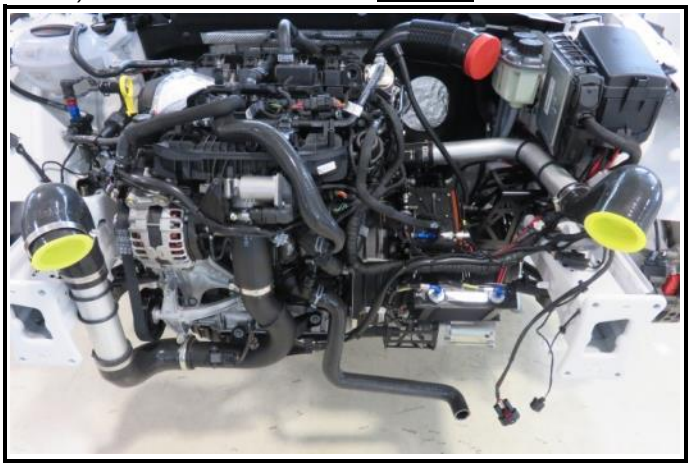
N/A

C11-7) Pressure relief valve – Mounted on manifold

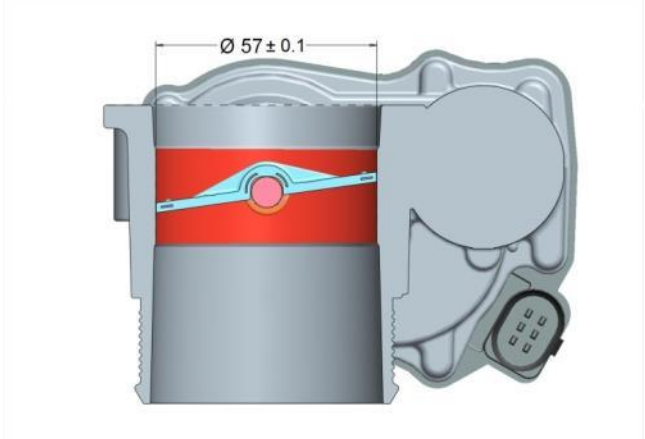
N/A

C11-8) Air ducts - dismounted

C11-9) Intake manifold & Air ducts – in location



III-K4) Section dimensioned drawing of the throttle-unit



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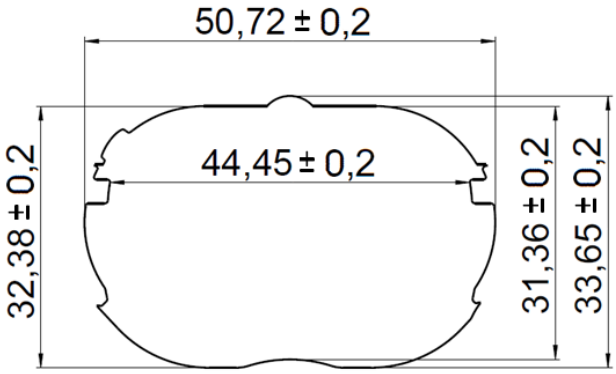
INTAKE

Drawings of manifold ports - tolerances on dimensions

III-K2) Manifold, cylinder head side



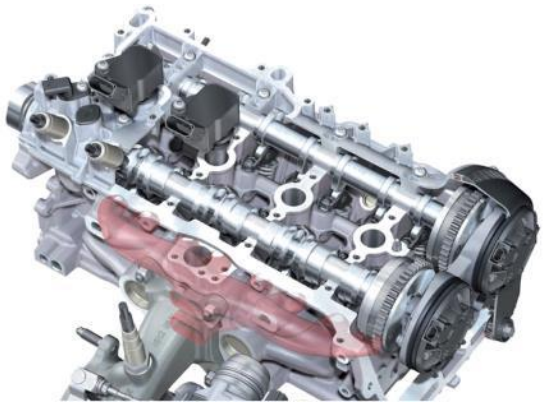
III-K3) Manifold cross section

N/A

Make: ***SEAT Sport*** ***Model:*** ***SEAT Leon Cup Racer V2 / SEQ***

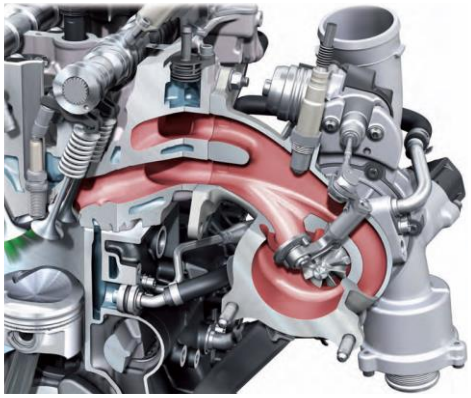
328.	**EXHAUST**					
	a) Material of manifold	**Steel**				
	b) Number of manifold elements	**Integrated into the cylinderhead**				
	c) Internal dimensions of manifold exit	**39,45 x 22,39**		± 0.2 mm		
	c1) Minimum thickness of tubes	**-**	mm			
	e) Maximum diameter of the valve	**28**	mm	e1)Angle of valve head	**44º 50 min**	deg ± 30 min
	f) Diameter of valve stem in guide	**6**	-0.2 mm			
	g) Valve length	**102**	± 1.5 mm			
	h) Catalyst	**2**		Homologation: **DMSB-CAT-1-17/16**		

C12-1) Exhaust manifold - dismounted



Exhaust manifold is integrated into the cylinderhead

C12-2) Exhaust manifold - dismounted

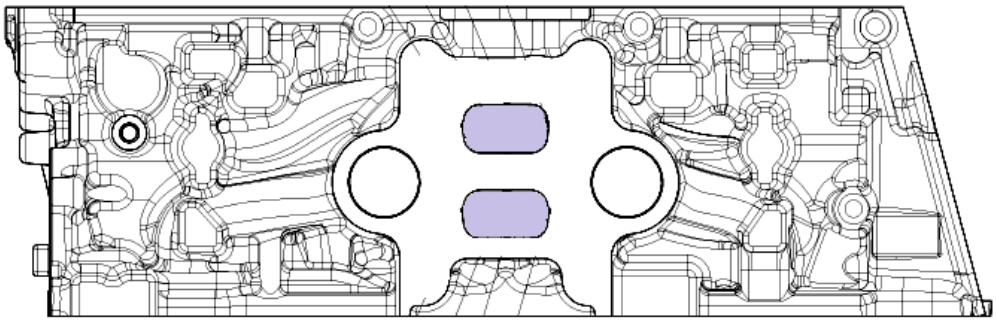


Turbocharger direcly to the cylinderhead

EXHAUST

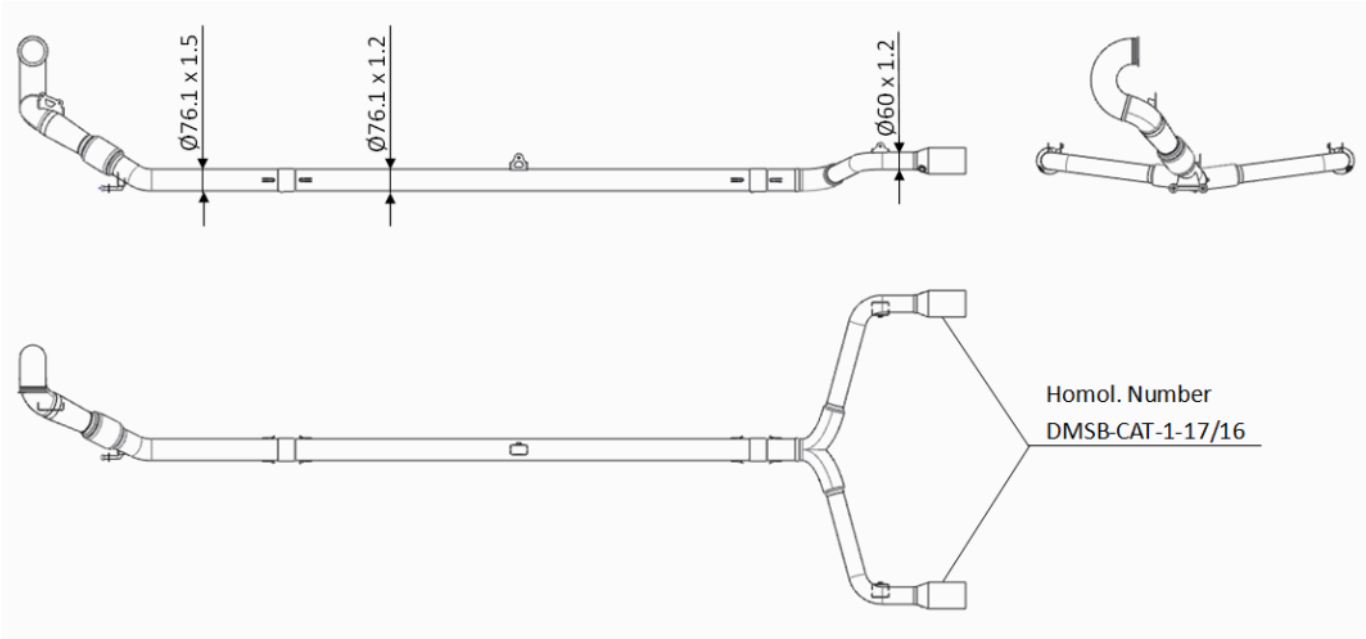
Drawings of manifold ports - tolerances on dimensions

III-L2) Manifold, cylinder head side



C12-3) Low noise silencer (option)

III-L3) EXHAUST SYSTEM



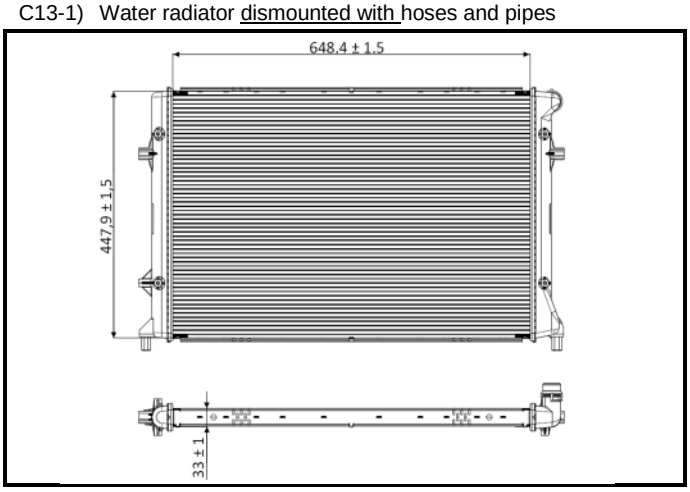
331. COOLING SYSTEM

a) Water Radiator: **One radiator at the front** Origin: **OEM VW GROUP** Identification: **-**

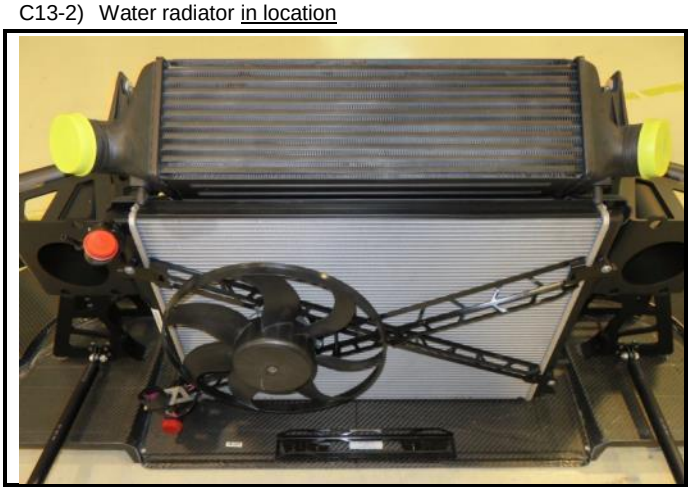
c) Type of the water pump: **Mechanical / Serial pump**

d) Type of the Thermostat: **Mechanical commanded electronically** Identification: **-**

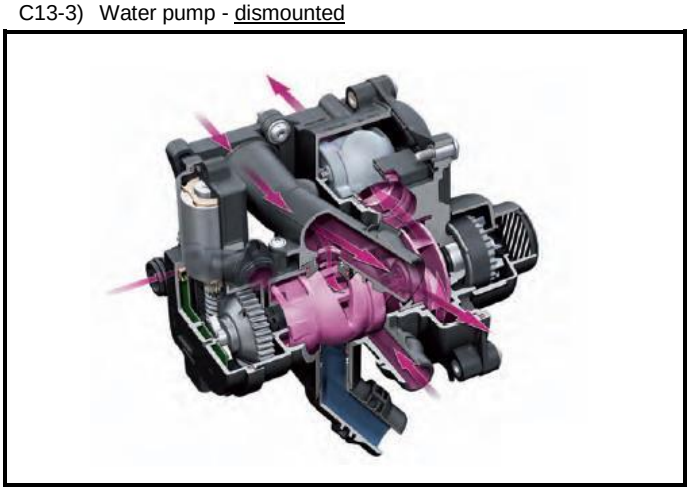
C13-1) Water radiator dismounted with hoses and pipes



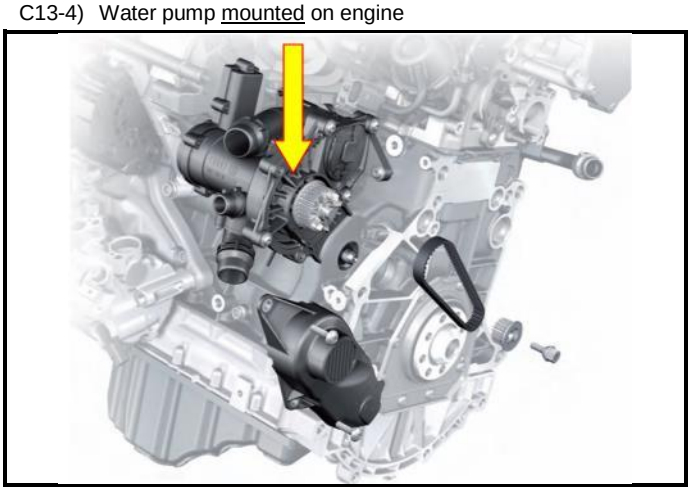
C13-2) Water radiator in location



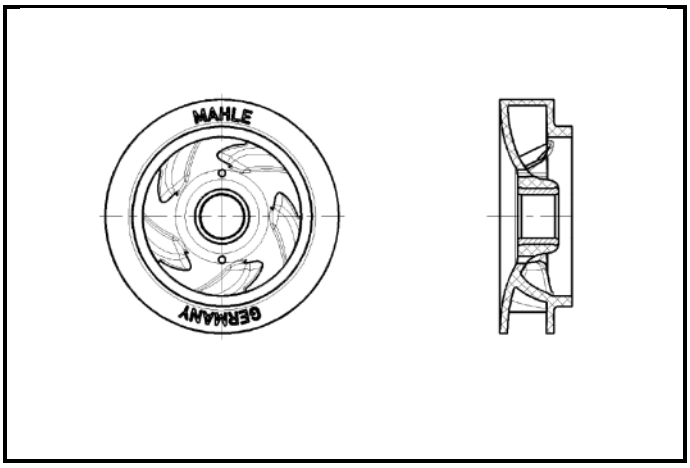
C13-3) Water pump - dismounted



C13-4) Water pump mounted on engine



C13-5) Turbine wheel of water pump



C13-6) Water cooler air ducts - dismounted

332. COOLING FAN(S)

a) Number	**1**		b) Fan max. diameter:	**363**	mm
c) Fan's material	**Plastic**		d) Number of blades	**7**	
e) Type of drive	**ECU control**		f) Automatic cut off	**Yes**	

C13-7) Electric & mechanic fans dismounted

C13-8) Electric & mechanic fans in location

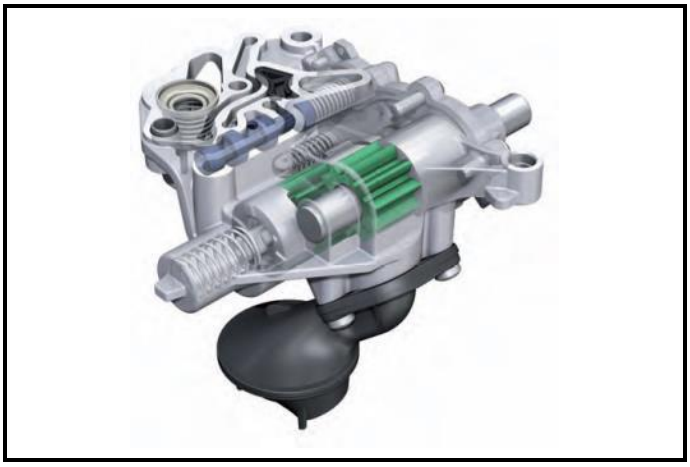
333. LUBRICATION SYSTEM

a1) Material of oil sump	**Plastic**		a2) Capacity	**6.5**	±0.5 litre

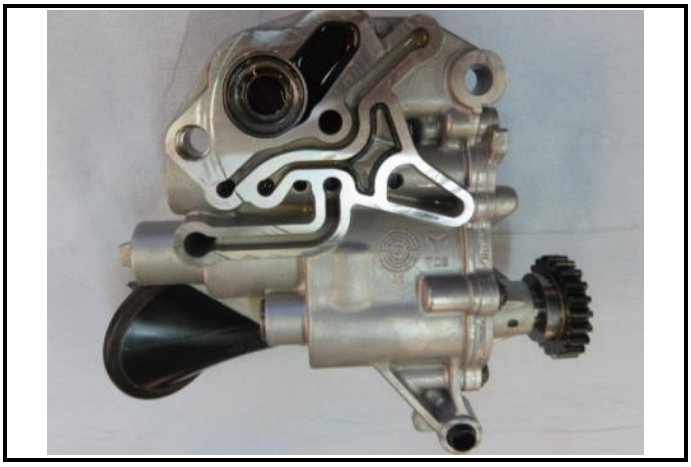
C14-1) Oil sump with bafflers, deflectors and spacer – <u>dismounted</u> (exploded view)

C14-2) Oil sump with bafflers, deflectors and spacer – <u>dismounted</u> (exploded view)

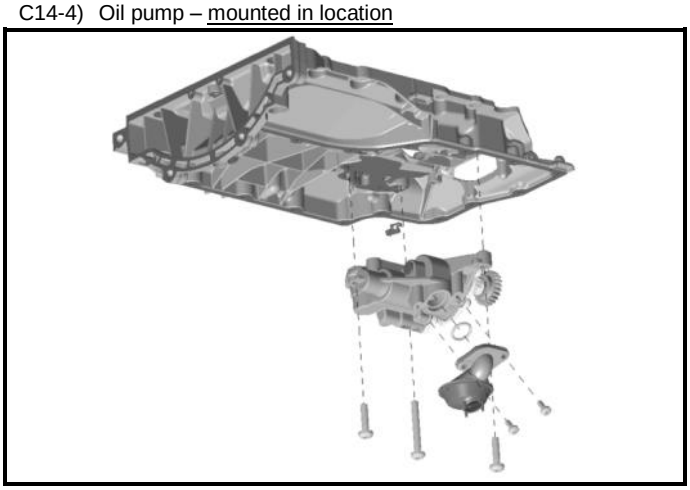
C14-3) Oil pump - <u>dismounted</u>



C14-3b) Oil pump – <u>dismounted</u>



C14-4) Oil pump – mounted in location



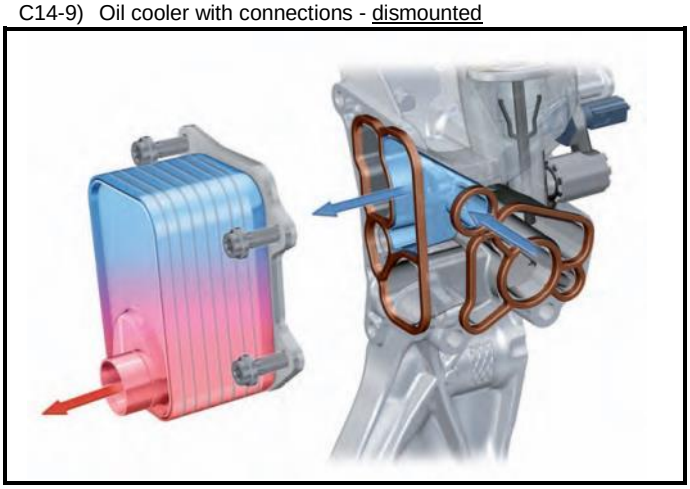
C14-7) Oil pressure accumulator - dismounted

N/A

C14-8) Oil pressure accumulator – mounted in location

N/A

C14-9) Oil cooler with connections - dismounted



C14-10) Oil cooler – mounted in location

334. TURBOCHARGING

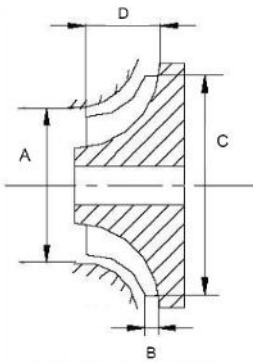
a) Make of turbocharger — Identification: — Origin: **OEM VW GROUP**

c) Turbine wheel

c1) Material: **Steel**

c2) Number of blades: **12**

c4) Dimensions A, B, C, according to the sketch



A = 47,45	± 0.1 mm	
B = 6,80	± 0.3 mm	
C = 54,65	± 0.1 mm	
D = 19.10	± 0.30 mm	

d) Impeller housing

d1) Number of air entries (mixture)

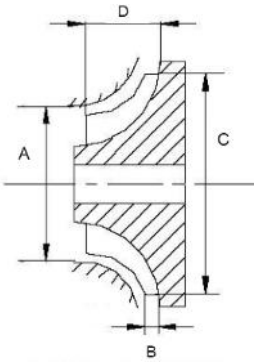
d2) Material: **Cast aluminium**

e) Impeller wheel

e1) Material: **Aluminium**

e2) Number of blades: **8**

e4) Dimensions A, B, C, according to the sketch



A = 44,97	± 0.1 mm	
B = 5,25	± 0.1 mm	
C = 57,95	± 0.2 mm	
D = 23,40	± 0.1 mm	

f) Pressure regulation

By-pass	Relief valve	Other
☒	☐	☐

f1) Type of pressure adjustment

f2) Type of pressure adjustment

Pressure regulation's linear stroke ± 0.5 mm

g) Exhaust system

g1) Internal dimensions of the possible pipes between manifold and turbocharger: **-** ± 2mm

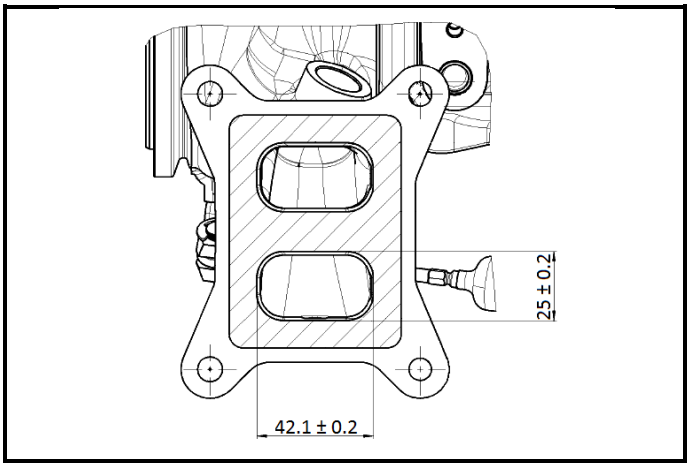
i) Maximum absolute supercharging pressure: Mbar

h) Cooling of intake air — Type: air to air — OEM origin: Audi TT RS — Identification: Label

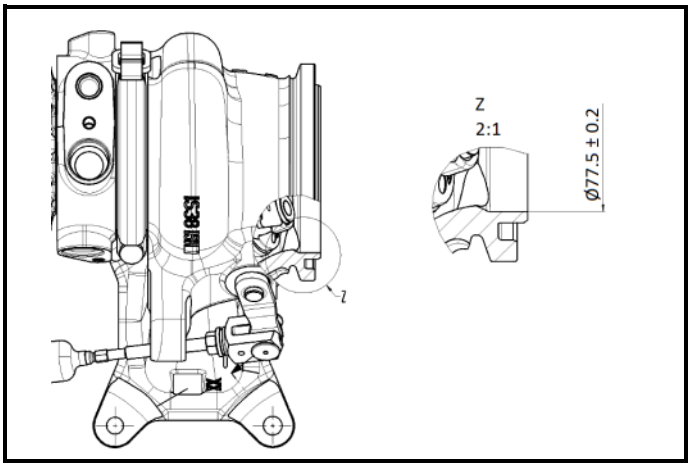
h3) Air inlet diameter: **60** ± 1mm

h4) Air outlet diameter: **60** ± 1mm

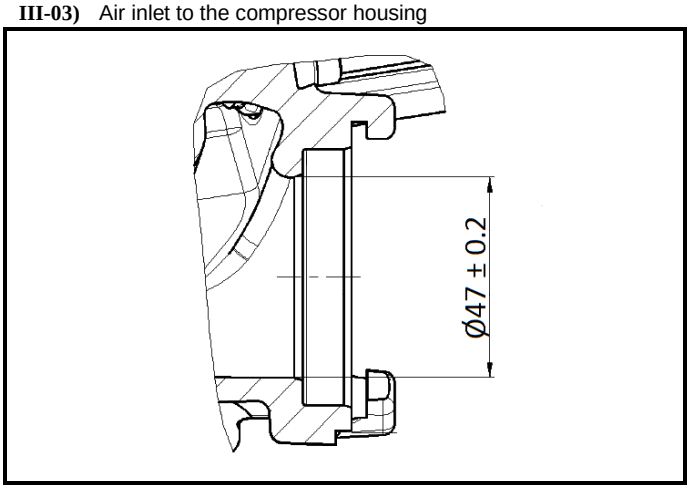
III-01) Exhaust gas inlet to the turbine housing



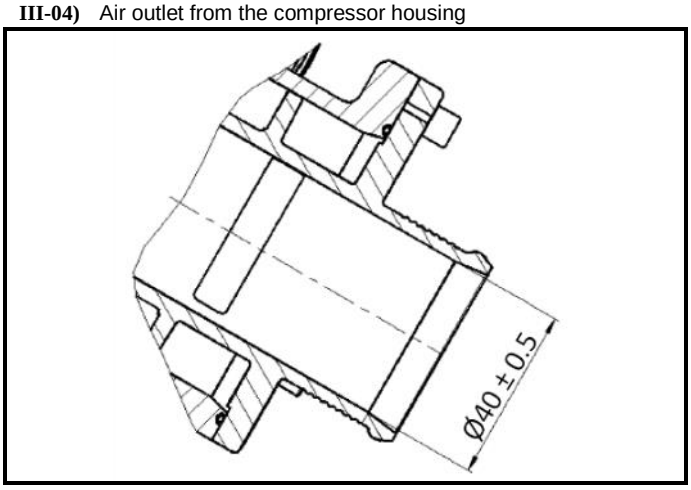
III-02) Exhaust gas outlet from the turbine housing



III-03) Air inlet to the compressor housing



III-04) Air outlet from the compressor housing



C15-1) Plan view of complete turbocharger unit

C15-2) Front view of complete turbocharger unit

C15-3) Side view of complete turbocharger unit

C15-4) Valve and by-pass installation of turbocharger

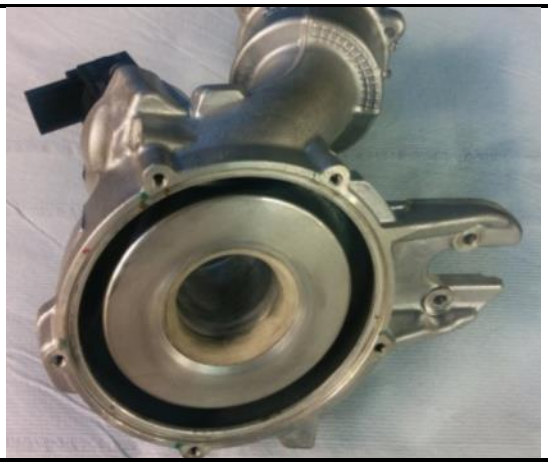
C15-5) Exhaust system between manifold and turbocharger

N/A

C15-6) Turbocharger unit with Air Restrictor

N/A

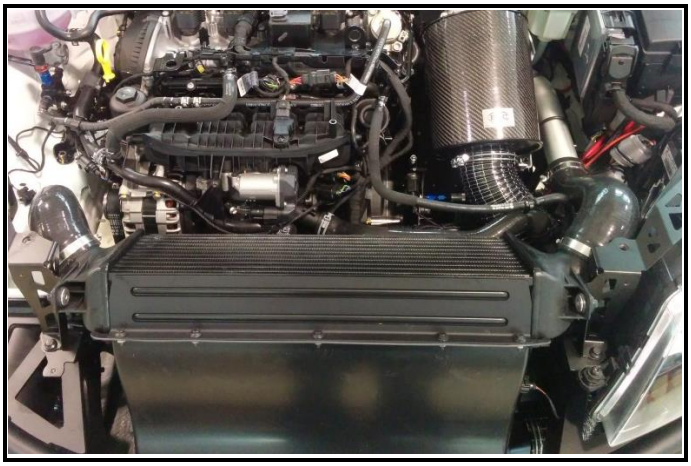
C15-7) Compression housing of turbocharger - dismounted



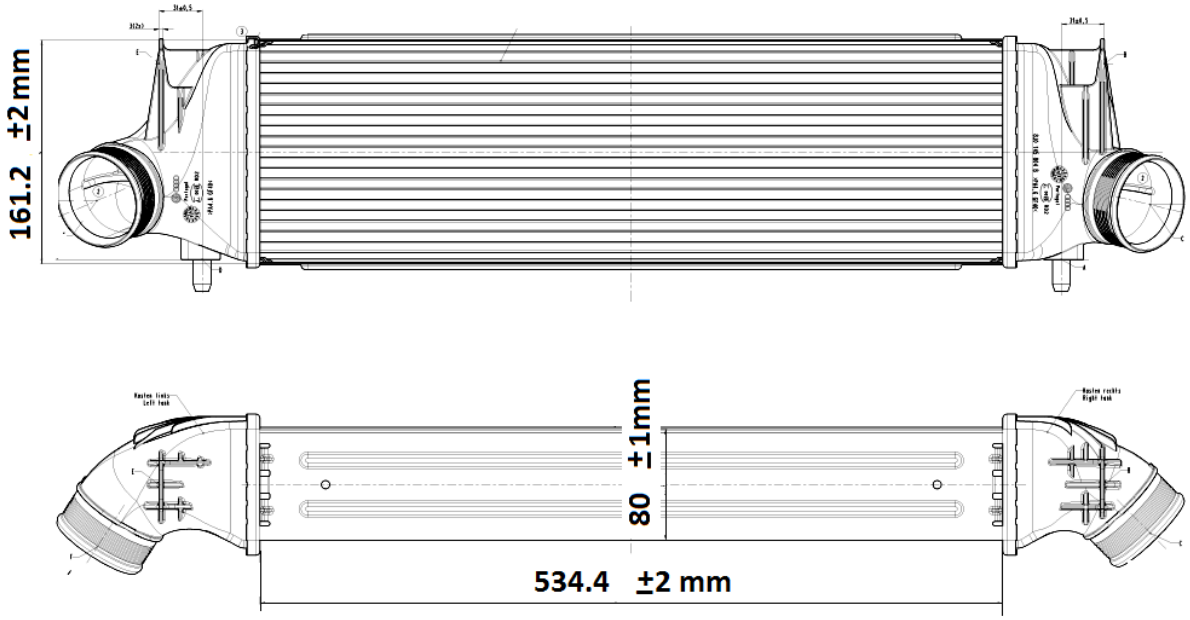
C15-8) Turbine housing of turbocharger - dismounted

C15-9) Intercooler - dismounted

C15-10) Intercooler - mounted in location with air ducts



III-05) Drawing of the intercooler with dimensions of core (Width x Height x Thickness)



Origin: **AUDI TT RS 2010**

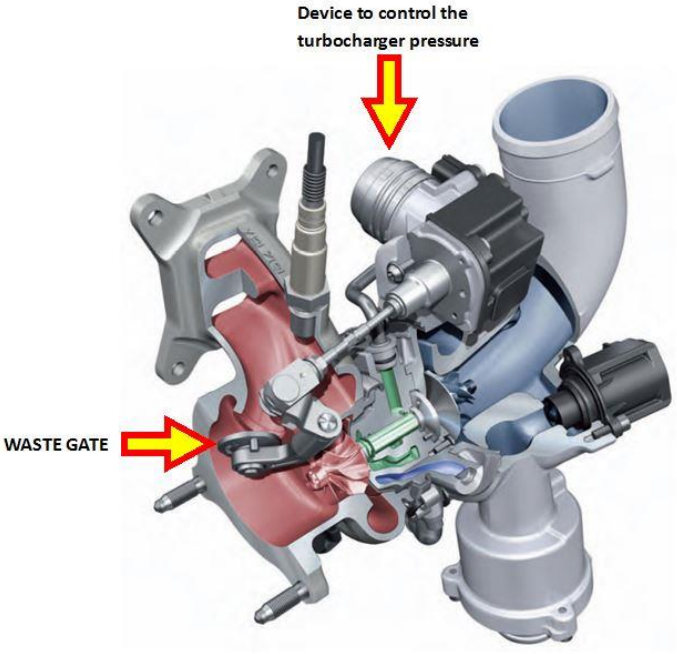
C15-10) Air injection system - dismounted

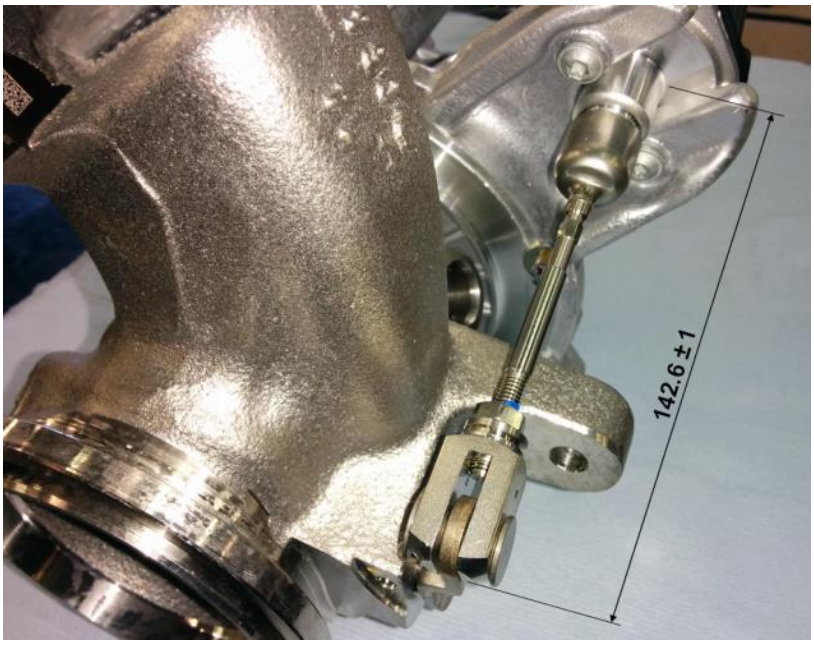
N/A

C15-11) Air injection system - mounted in location

N/A

III-06) DEVICE REGULATING THE TURBOCHARGER PRESSURE





Wastegate Stroke: 8.5mm ± 0.7

4. FUEL CIRCUIT (Not relevant fields may be deleted)

401. FUEL TANK
MODIFIED PRODUCTION FUEL TANK

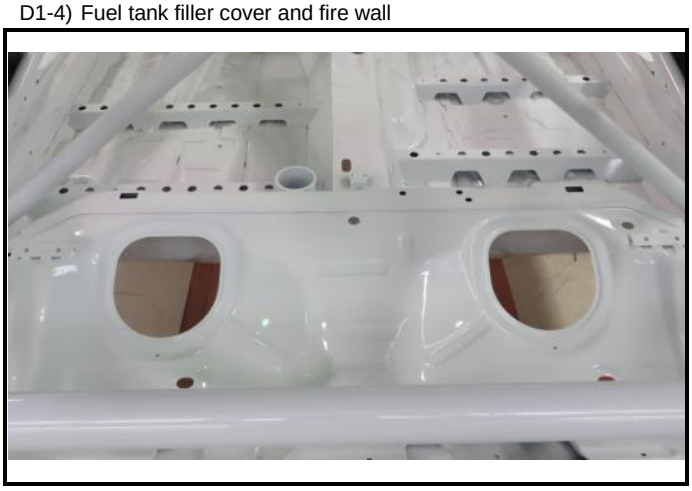
a) Number	**1**				
b) Location	**Rear and under the bodywork (series position)**				
c) Material	**Plastic**				
d) Total capacity	**58**	± 3 litres			
e) Filler: Type / Make:	**Refueling nozzle**	Position: **Right side over the rear wheel**			
f) Transfer Pump:	Make / Type / Ident: **Protec / Centrifugal**		Number: **1**	Location: **Fuel tank (left side)**	
g) Low pressure fuel pump:	Make / Type / Ident: **VW Group / Centrifugal**		Number: **1**	Location: **Fuel tank (right side)**	

D1-1) Fuel tank dismounted view from the top

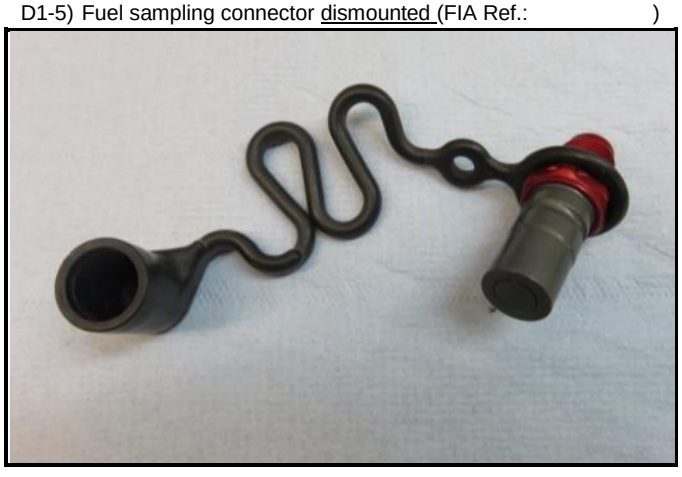
D1-2) Fuel tank in location view from the bottom

D1-3) Fuel tank filler in location

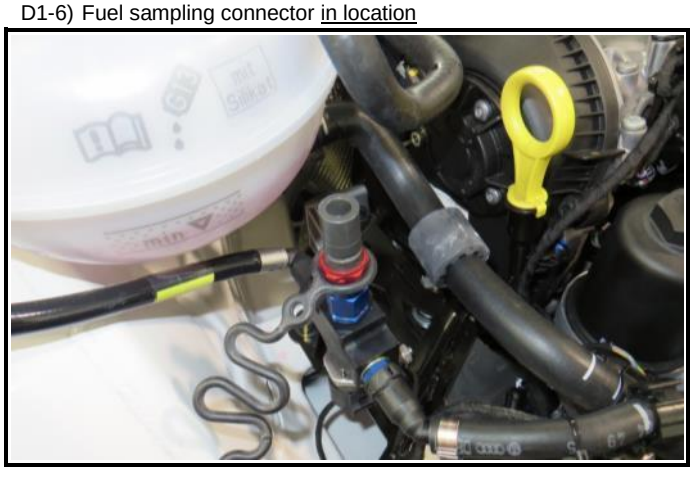
D1-4) Fuel tank filler cover and fire wall



D1-5) Fuel sampling connector dismounted (FIA Ref.:)



D1-6) Fuel sampling connector in location



D1-7) Low pressure fuel pump(s) - dismounted

D1-8) Low pressure fuel pump(s) - in its location

SAFETY FUEL TANK (OPTION)

a) Number	Make:		Identification:
b) Location			
c) Material			
d) Total capacity		± 3 litres	
e) Location of filler holes			
f) Safety valve:	Overpressure valve:		

For safety tanks mark position of identification plate on the bladder and the inspection cover.

D1-7) Fuel tank dismounted (view on identification plate)

N/A

D1-8) Fuel tank vane

N/A

D1-9) Fuel tank in location (view on identification plate)

N/A

D1-10) Fuel tank in location (view on identification plate)

N/A

D1-11) Fuel tank filler in location

N/A

D1- 12) Fuel tank filler cover and fire wall in location

N/A

D1-13) Fuel tank upper housing dismounted

N/A

D1- 14) Fuel tank upper housing in location

N/A

LONG DISTANCE SAFETY FUEL TANK (OPTION)

a) Number: **1**

Make: **PREMIER** Identification: **F221**

b) Location **Rear and under the bodywork**

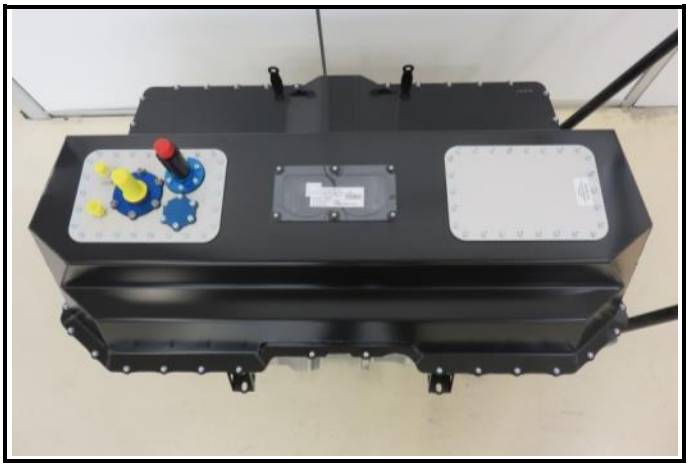
c) Material **Rubber (FIA Standard FT3 bag)**

d) Total capacity **100** litres (Maximum 100 litres)

e) Location of filler holes **Cockpit behind series codriver seat position**

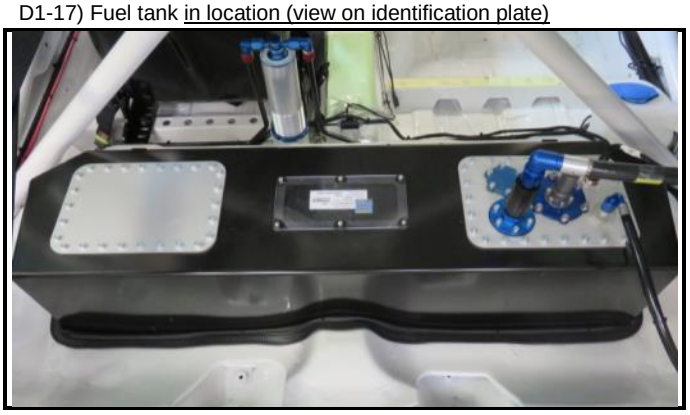
f) Safety valve: **Sobek Z-V 9009 0028** Overpressure valve: **Idem safety valve**

D1-15) Fuel tank dismounted (view on identification plate)

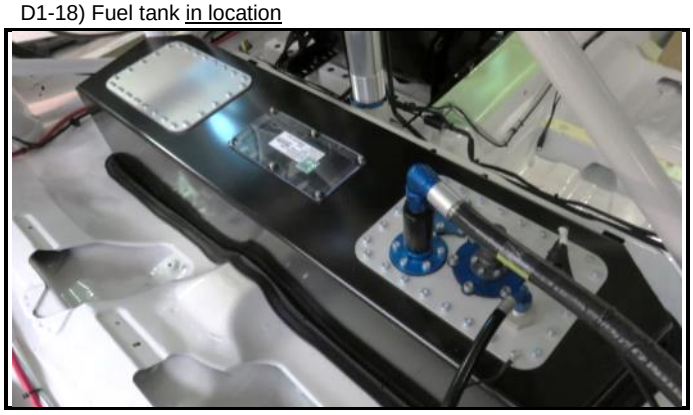


D1-16) Fuel tank in location (view from below)

D1-17) Fuel tank in location (view on identification plate)



D1-18) Fuel tank in location

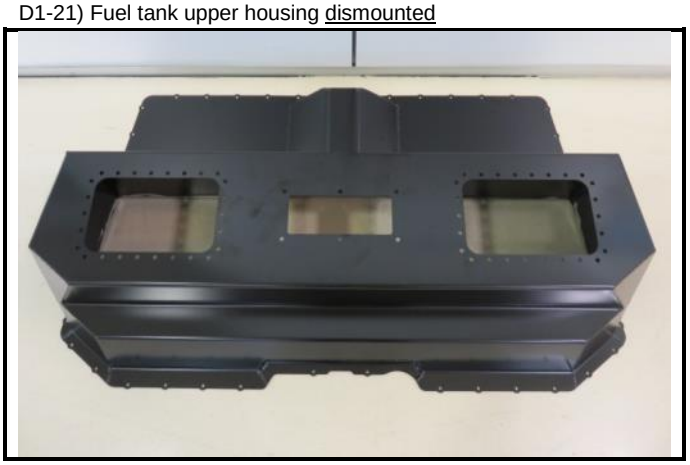


D1-19) Fuel tank filler in location

D1- 20) Fuel tank filler cover and fire wall in location

N/A

D1-21) Fuel tank upper housing dismounted



D1- 22) Fuel tank upper housing in location

D1-23) Fuel tank vane dismounted

D1- 24) Fuel tank bladder dismounted

402. FUEL PUMP(S)

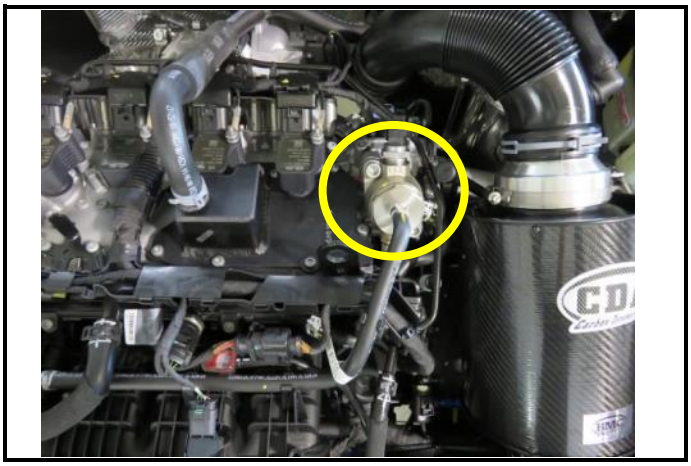
a)	Transfer Pumps:	Make / Type / Ident: **-**	Number: **-**	Location: **-**
b)	Low pressure pumps:	Make / Type / Ident: **VW Group / Centrifugal**	Number: **1**	Location: **Fuel tank (right side)**
f)	HP pump	Make / Type / Ident: **VW Group / Piston**	Number: **1**	Location: **Engine**

HP pump cam lift in mm (dismounted camshaft) **BELONGING TO EA888 ENGINE**

Rotation angle (degrees)	Lift (± 0.05 mm)	Rotation angle (degrees)	Lift (± 0.05 mm)
0		0	
- 5		+ 5	
- 10		+ 10	
- 15		+ 15	
- 30		+ 30	
- 45		+ 45	
- 60		+ 60	
- 75		+ 75	
- 90		+ 90	
- 105		+ 105	
- 120		+ 120	
- 135		+ 135	
- 150		+ 150	
- 165		+ 165	
- 180		+ 180	

D2-1) High Pressure Fuel Pump - dismounted

D2-2) High Pressure Fuel Pump - in location



D2-3) Low pressure fuel pump - dismounted

D2-4) Low pressure fuel pump - in location

5. ELECTRICAL EQUIPMENT

501. BATTERY

a) Type: **Dry 40Ah** Make: **Odissey / SBS**

b) Location: **Luggage compartment**

E1-1) Battery – dismounted

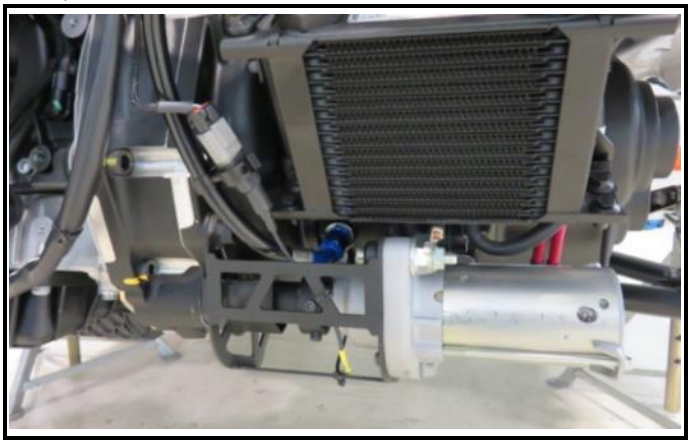
E1-2) Battery –in location

504. STARTER

a) Position **Front of the gearbox.**

E1-3) Starter – dismounted

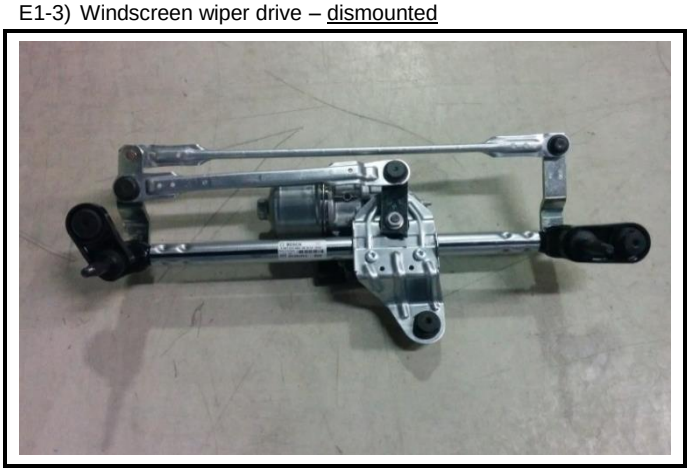
E1-4) Starter – mounted in location



WINDSCREEN WIPER

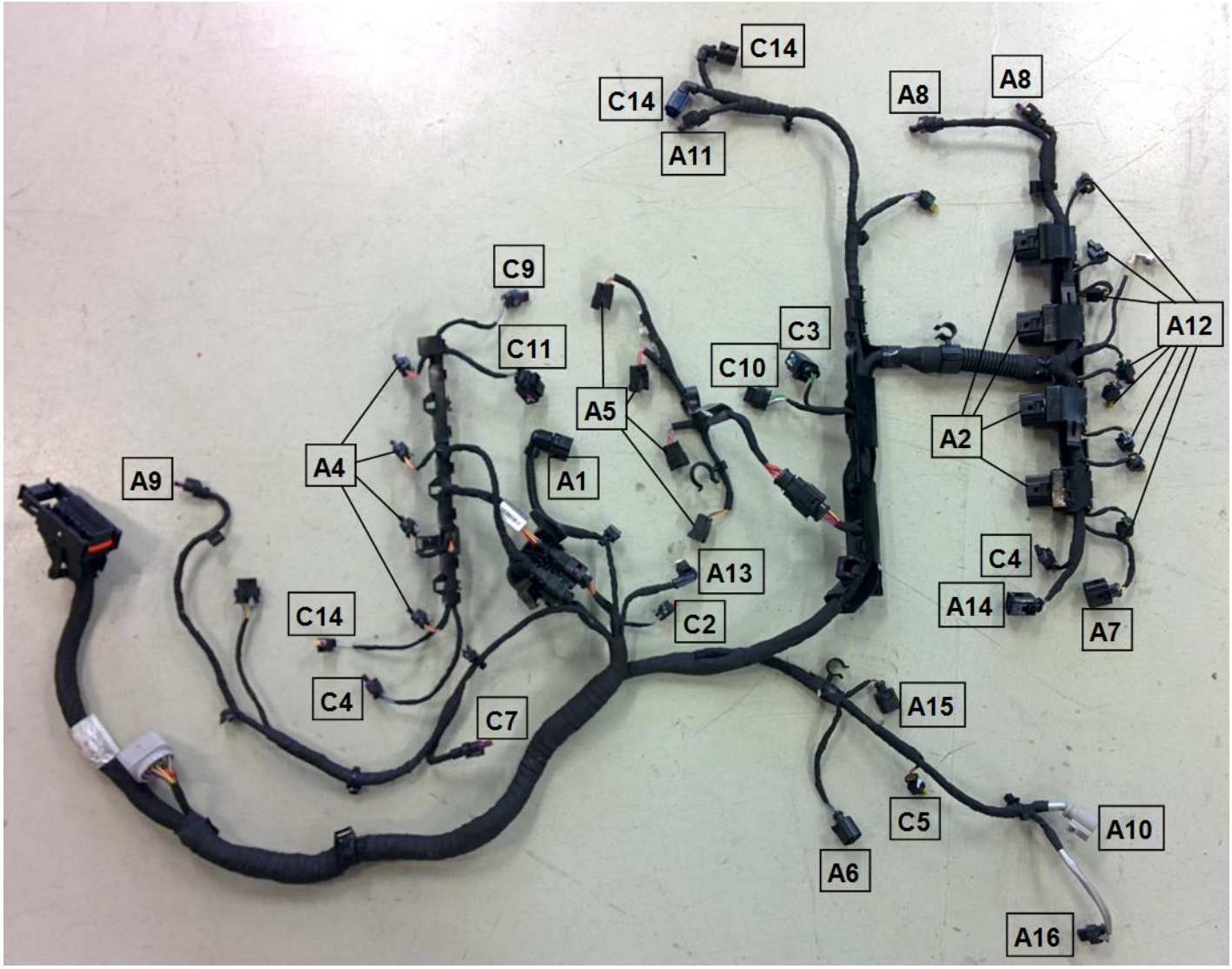
Number of blades: **2** Position: **Bottom of windscreen (left and center)**

E1-3) Windscreen wiper drive – dismounted



E1-4) Windscreen wiper – mounted in location

ENGINE LOOM DRAWING



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CAR LOOM DRAWING

6. POWER TRAIN

602. *CLUTCH*

a) Make and Type: **AP Racing CP7382** Number of plates: **2** Friction diameter of the plate(s): **184** ±1mm

b) Control system: **Hydraulic** Make and Type of clutch release bearing: **SEAT Sport**

Make and Type of clutch master cylinder: **AP Racing**

Power-driven clutch: **-** Make: **-** Identification: **-**

c) Weight: **4.28** kg

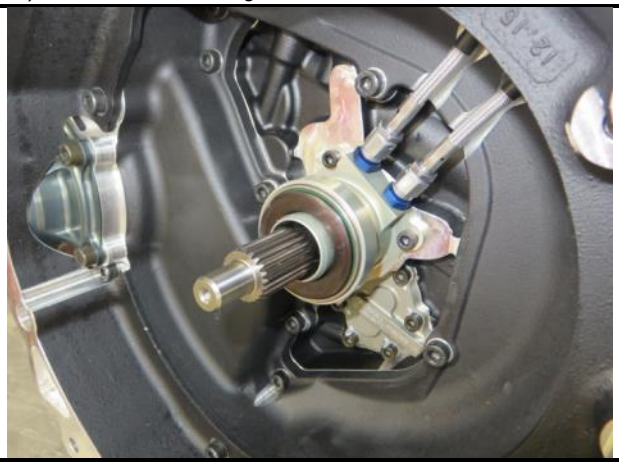
F1-1) Clutch dismounted

F1-2) Clutch Control system dismounted

N/A

F1-3) Clutch actuation in location

F1-4) Clutch release bearing in location



F1-5) Clutch fluid reservoir in location

603. GEARBOX

Mass production gearbox ☐ Sequential racing gearbox ☒

b) Make / Type: **SADEV ST82-17**

c) Supports: **2**

d) Type of control: **Electronic** Paddle shift: **Yes**

location of control: **EM-Box (Engine bay)**

Make: **Skynam**

Identification: **SYBELE GcuSsp5**

e) Gear ratios:

MASS PRODUCTION GEARBOX						SEQUENTIAL RACING GEARBOX				
	No. of teeth	Ratio	Constant	Synchro			No. of teeth	Ratio	Constant	Synchro
1			☐	☐		**1**	**12 / 28**	**2.333**	☒	☐
2			☐	☐		**2**	**13 / 23**	**1.769**	☒	☐
3			☐	☐		**3**	**22 / 31**	**1.409**	☒	☐
4			☐	☐		**4**	**21 / 24**	**1.142**	☒	☐
5			☐	☐		**5**	**26 / 25**	**0.961**	☒	☐
6			☐	☐		**6**	**29 / 24**	**0.827**	☒	☐
7			☐	☐						
AR/*R*			☐	☐		**AR/*R***	**16/40/45**	**2.812**	☒	☐
Constant						**Constant**				

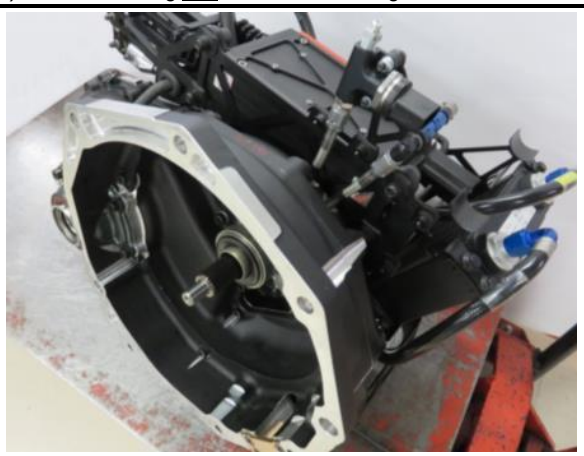
Following information and pictures will be presented for both types of transmission (Mass Production and Racing) if necessary.

g) Type of lubrication: **Splash lubrication**

h) Cooling: **Oil Radiator**

i) Dry Weight as shown in F2-1: **50.9** kg ±0.5kg

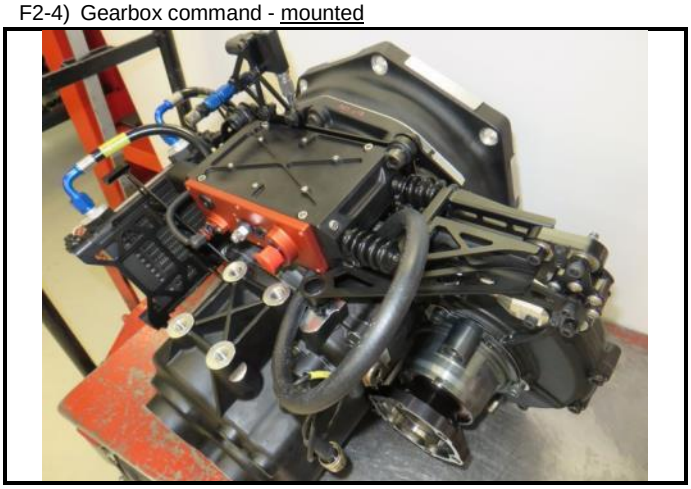
F2-1) Gearbox casing and clutch bell housing



F2-2) Gearbox casing and clutch bell housing

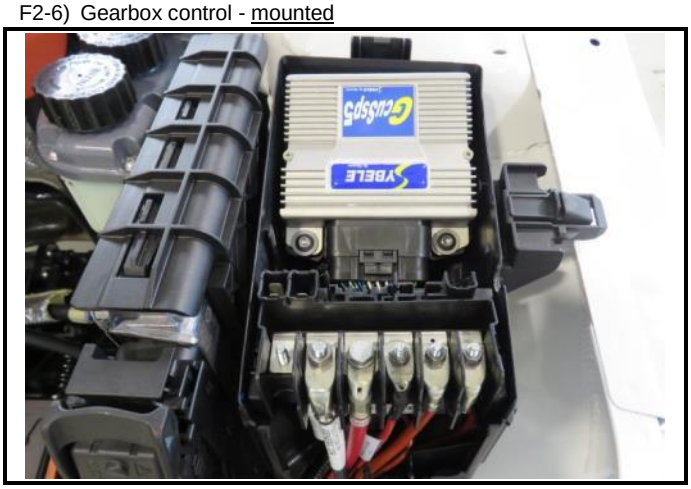
F2-3) Gearbox command - dismounted

F2-4) Gearbox command - mounted

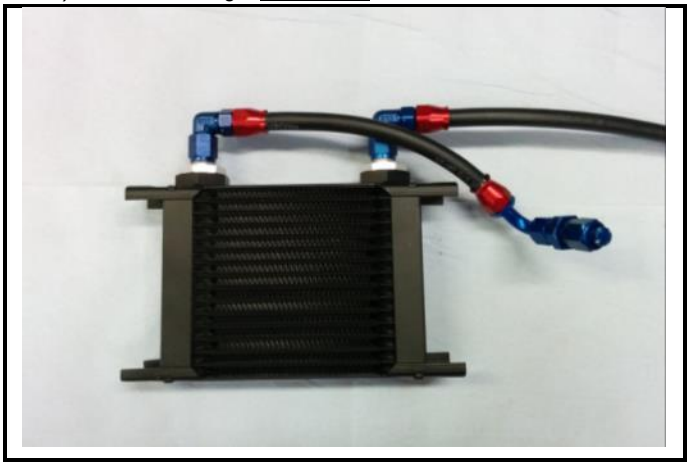


F2-5) Gearbox control - dismounted

F2-6) Gearbox control - mounted



F2-7) Gearbox cooling – dismounted



F2-8) Gearbox cooling – in location

605. FINAL DRIVE

Following information and pictures will be presented for both types of transmission (Mass Production and Racing) if necessary.

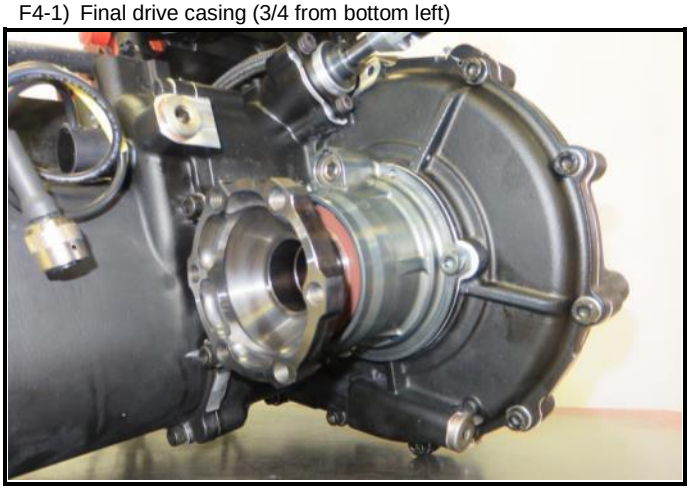
Ratio(s)	Number of Teeth
3.8	**15 / 57**

Limited Slip Differential:
Type: **Mechanical** Make: **SADEV** Identification: **-**

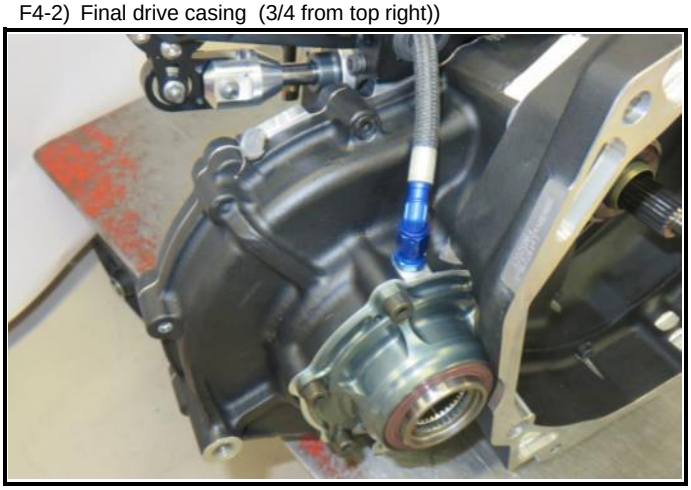
Number of pressure rings:

Number	1	2	3	4
Angels α / β ±1°	**60º / 30º**	**45º / 30º**	**35º / 30º**	

F4-1) Final drive casing (3/4 from bottom left)



F4-2) Final drive casing (3/4 from top right))



F4-3) final drive and differential assembly

N/A

F4-4) Final drive dismantled

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F4-5) Differential assembly

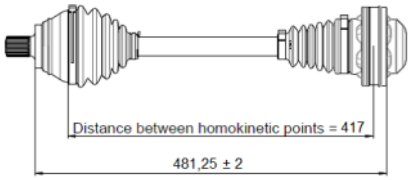
F4-6) Differential dismantled

606. DRIVE SHAFTS

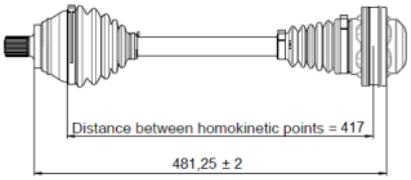
Following information and pictures will be presented for both types of transmission (Mass Production and Racing) if necessary.

Type :	**Motorsport**	Make :	**GKN**
Joint on final drive side:	**Lobro joint**	Joint on wheel side:	**Fixed ball joint**

F5-1) LHS Drive Shaft



F5-2) RHS Drive Shaft



7. AXLES, SUBFRAMES AND SUSPENSION

FRONT

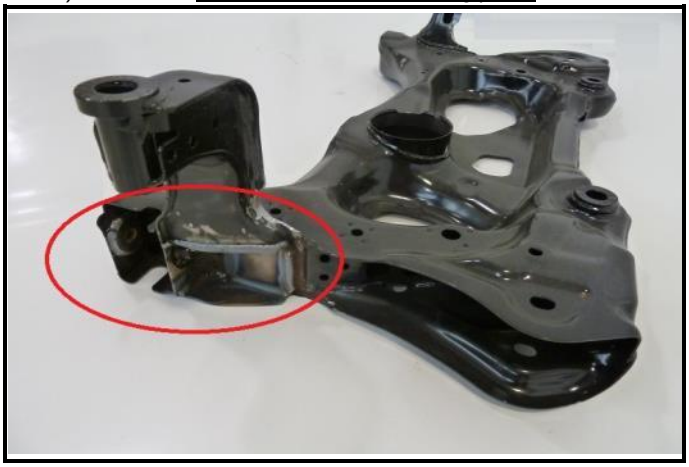
Supports: Number: **4** Type: **Bolt**

Shock absorber: Make & Type: **Bilstein** Setting identification: **-**

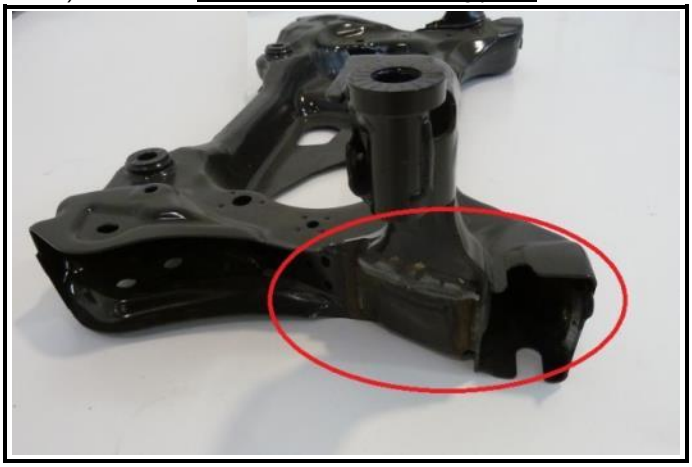
G2-1) Subframe dismounted

G2-2) Subframe in location

G2-3) Subframe – Modification of axle mounting points



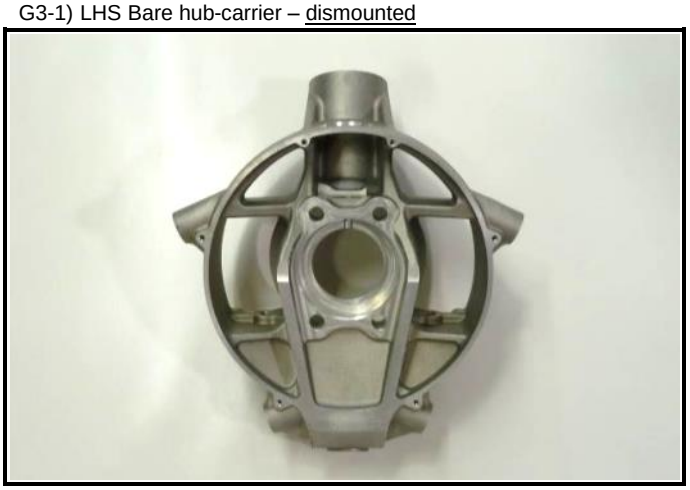
G2-4) Subframe – Modification of axle mounting points



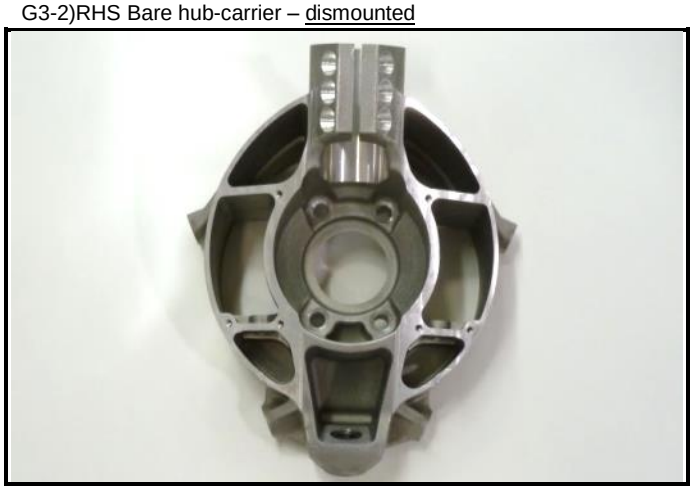
G2-5) Subframe – Modification of axle mounting points

G2-6) Subframe – Supports' Modification

G3-1) LHS Bare hub-carrier – dismounted



G3-2)RHS Bare hub-carrier – dismounted



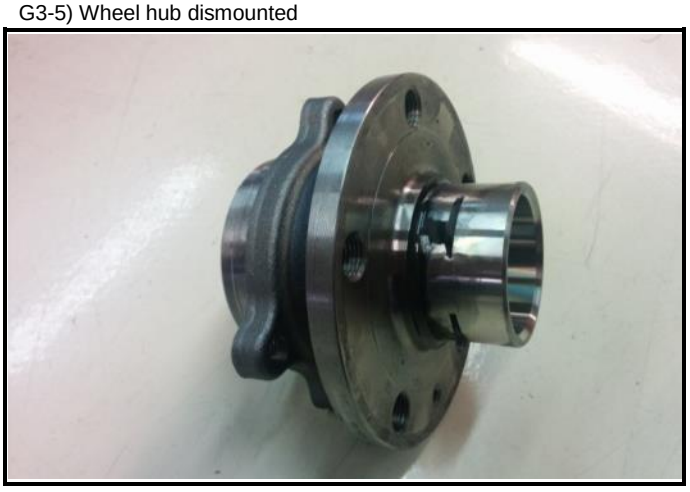
G3-3) Wheel bearing dismounted

N/A

G3-4) Wheel carrier dismounted

N/A

G3-5) Wheel hub dismounted

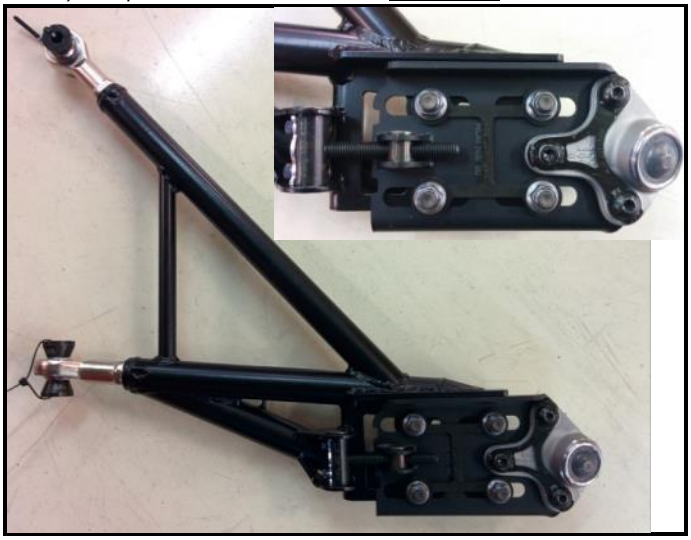


G3-6) Wheel hub mounted

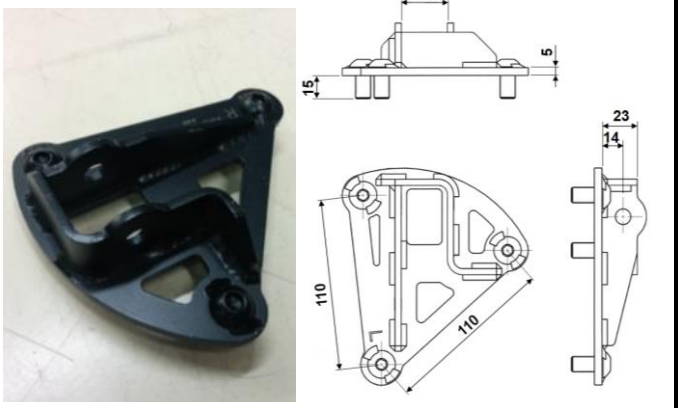
G5-1) Complete wishbone/arm **front** – dismounted

Material	**Steel**	
Minimum weight	**2870**	g

G5-2) Complete wishbone/arm **front** – dismounted



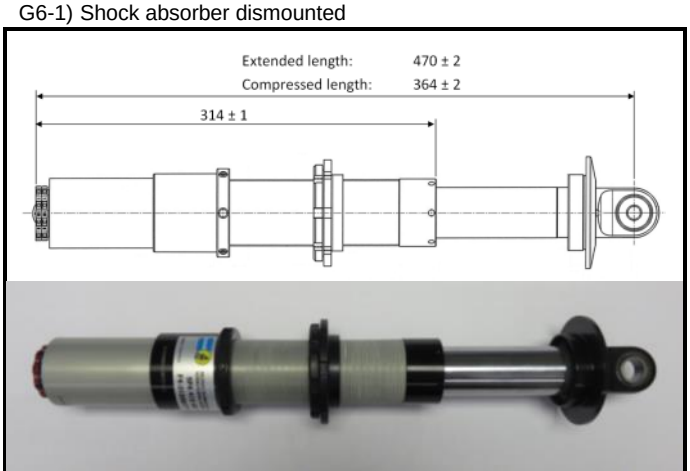
G5-3) Strut adapter – dismounted



G5-4) Wish bone adapter – dismounted

N/A

G6-1) Shock absorber dismounted

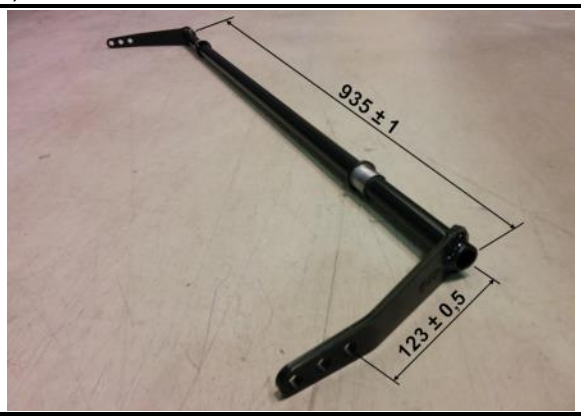


Material:	**Aluminium**	
Minimum weight:	**2500**	g

G6-2) Shock absorber in location

:

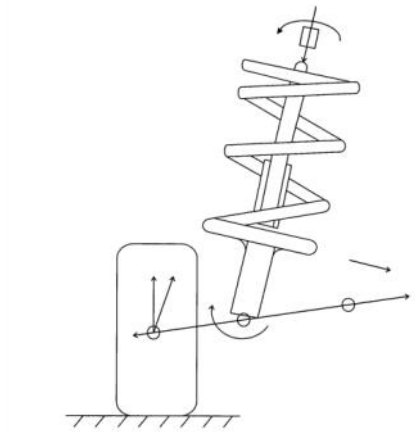
G7-1) Anti roll bar dismounted



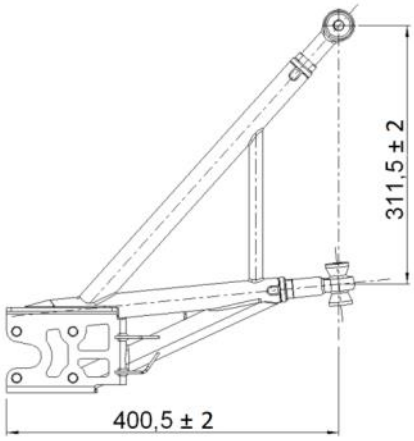
Size	Ø22x2	Ø22x3
Material	Steel	Steel
Minimum weight	1420 g	1800 g

G7-2) Anti roll bar in location

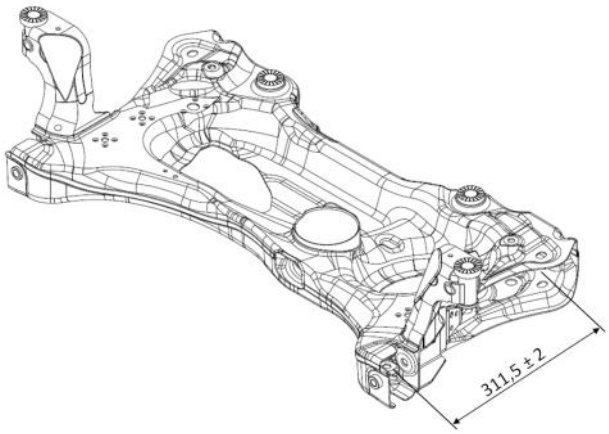
VII-E1) Operating principle of the wheel kinematics (sketch)



VII-E2) Positions of the pivot points on the wishbone/arm



VII-E3) Pivot points' positions on the body shell / Cross member



VII-E4) Pivot points' positions on hub carrier

N/A

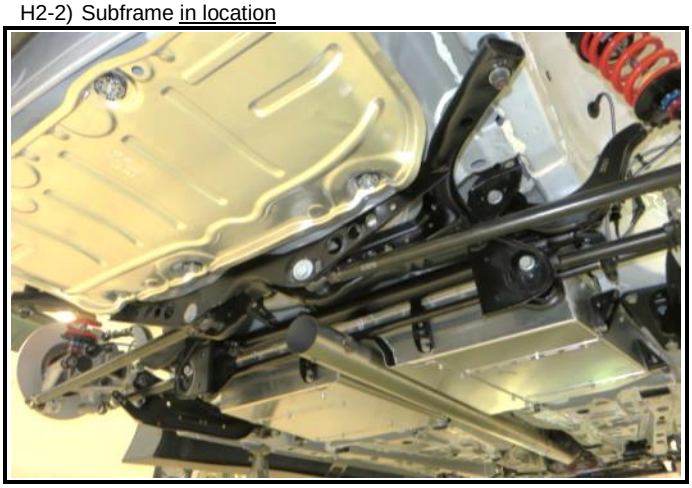
REAR

Supports: Number: **4** Type: **Bolt**

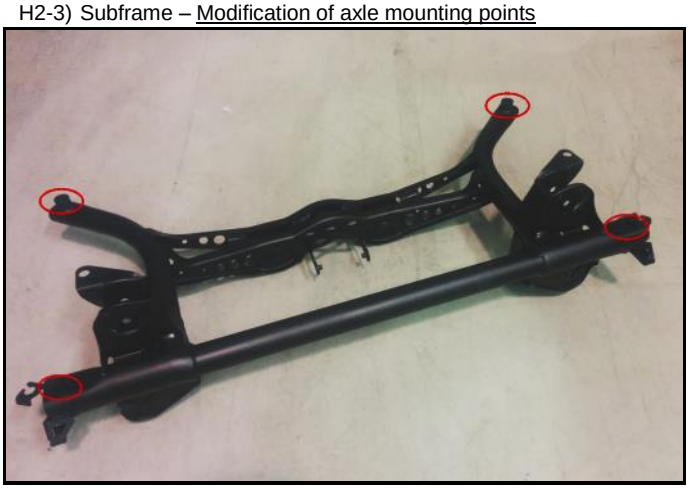
Shock absorber: Make & Type: **Bilstein** Setting identification: **-**

H2-1) Subframe dismounted

H2-2) Subframe in location



H2-3) Subframe – Modification of axle mounting points



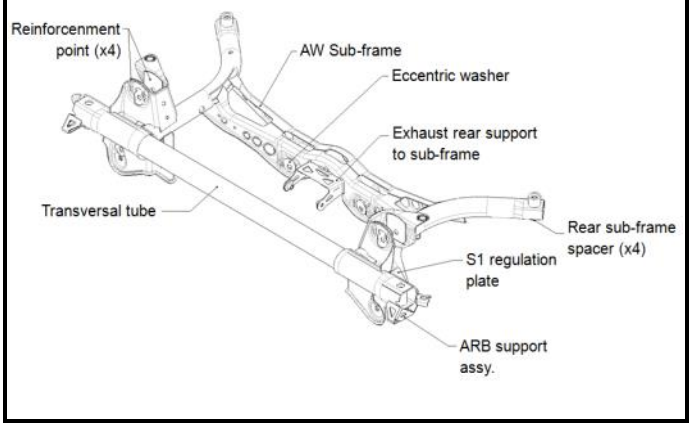
H2-4) Subframe – Modification of axle mounting points

N/A

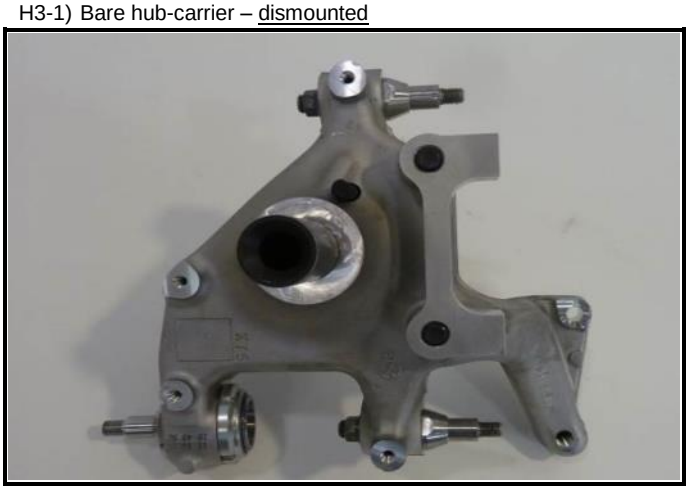
H2-5) Subframe – Modification of axle mounting points

N/A

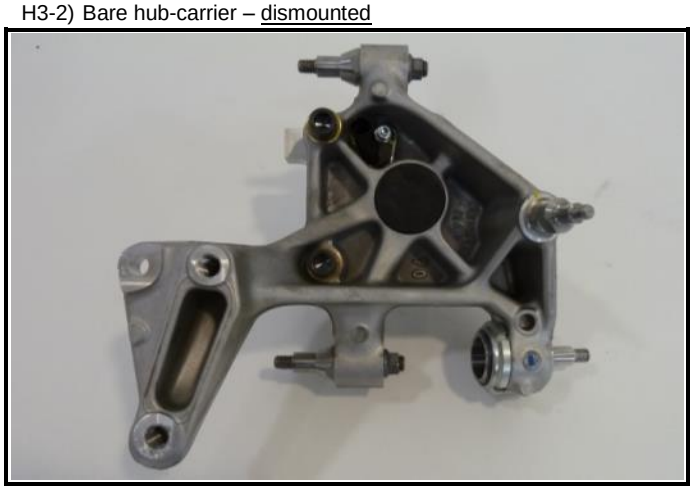
H2-6) Subframe – Supports' Modification



H3-1) Bare hub-carrier – dismounted



H3-2) Bare hub-carrier – dismounted



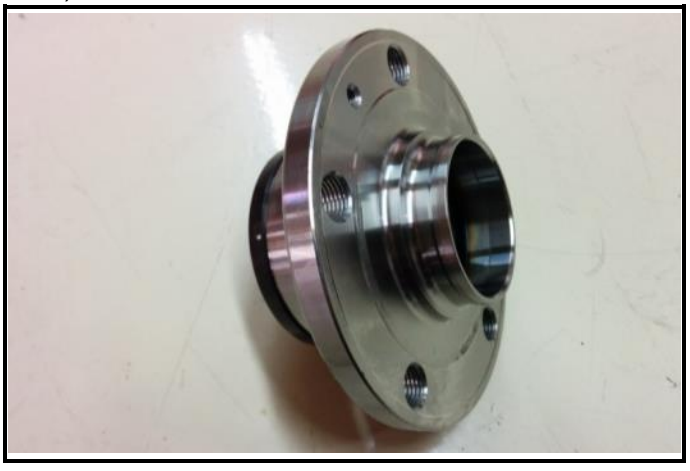
H3-3) Wheel bearing dismounted

N/A

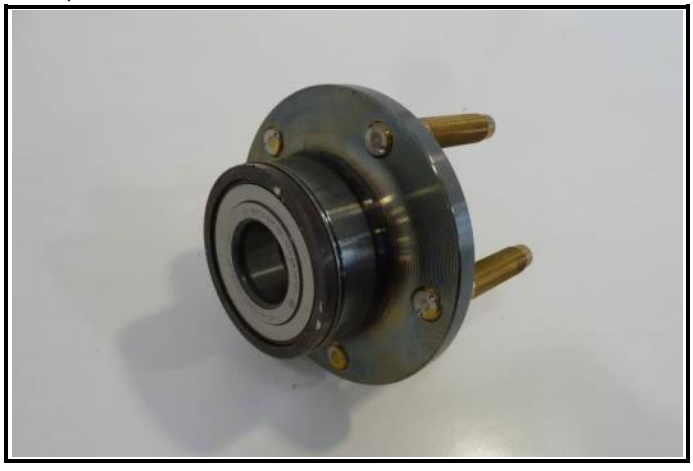
H3-4) Wheel bearing mounted

N/A

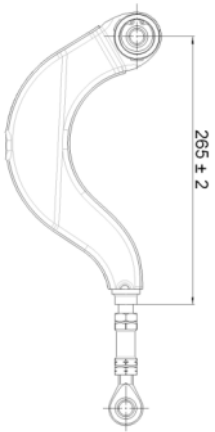
H3-5) Wheel hub dismounted



H3-6) Wheel hub mounted



H5-1) Complete wishbone/arm **Upper** – dismounted

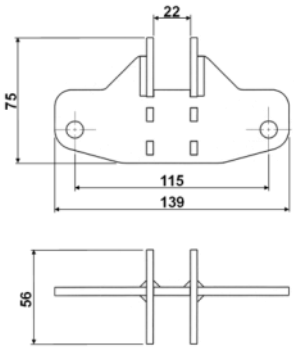


Material	**Steel**	
Minimum weight	**1400**	g (with ball joints)

H5-2) Complete wishbone/arm **Lower-Front** – dismounted

Material	**Steel**	
Minimum weight	**765**	g (with ball joints)

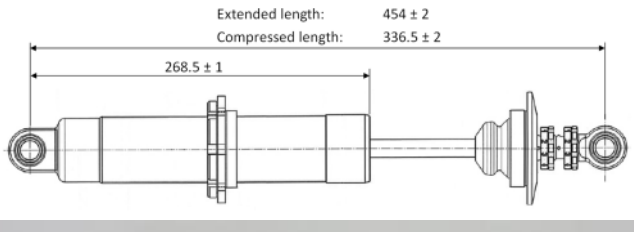
H5-3) Adapter Shock Absorber – dismounted



H5-4) Wish bone adapter – dismounted

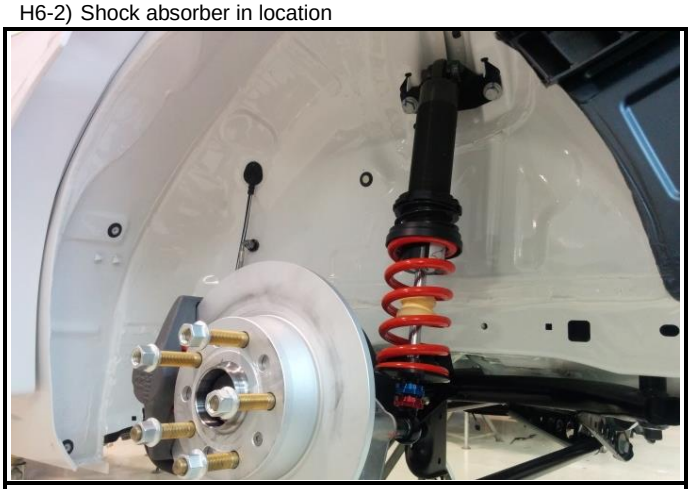
N/A

H6-1) Shock absorber dismounted

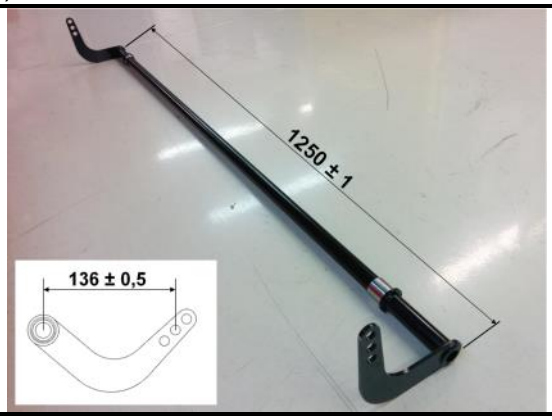


Material	**Aluminium**	
Minimum weight	**1330**	g

H6-2) Shock absorber in location



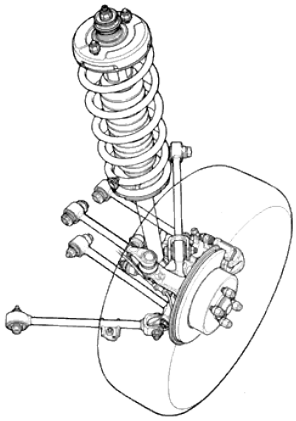
H7-1) Anti roll bar dismounted



Size	Ø22x3	Ø22x4
Material	Steel	Steel
Minimum weight	2140 g	2580 g

H7-2) Anti roll bar in location

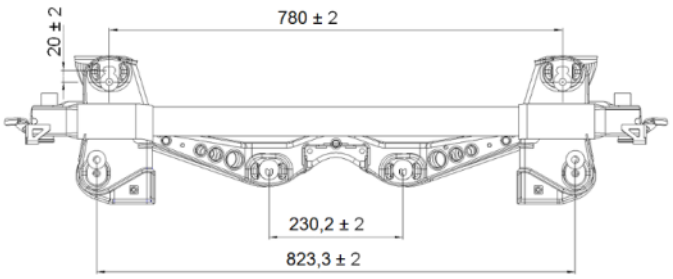
VIII-E1) Operating principle of the wheel kinematics (sketch)



VIII-E2) Positions of the pivot points on the wishbone/arm

N/A

VIII-E3) Pivot points' positions on the body shell / Cross member



VIII-E4) Pivot points' positions on hub carrier

N/A

8. RUNNING GEAR

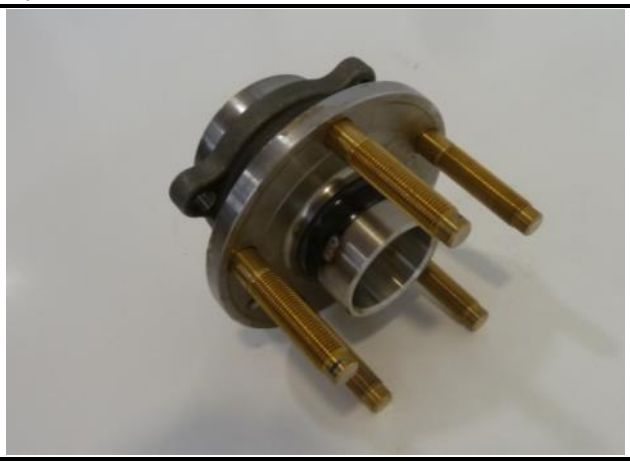
801. WHEELS

Make: SEAT Sport Identification: SEAT Sport Off set: ET 36 mm ±0.5mm Weight: 11.75 kg ±0.5kg

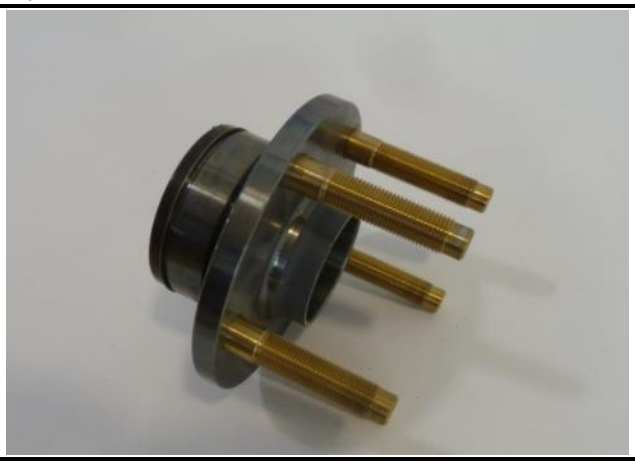
I1-1) Wheel dismounted ¾ from outside

I1-2) Wheel dismounted ¾ from inside

I1-3) Front wheel attachment dismounted



I1-4) Rear wheel attachment dismounted



I1-5) Front wheel spacer

N/A

I1-6) Rear wheel spacer

Thickness: 5 mm

803. BRAKES

a) Braking system

b) Number of master cylinders: **2** Make and type : **AP Racing** **Location** **Cockpit**

c) Servo brakes: **No** c1) Make and type :

d) Braking regulator(s) d1) Location(s) **Pedal box** d2) Type(s): **Mechanical**

e) Rear brake pressure adjuster e1) Location(s) **Rear line** e2) Type(s) **Mecanical 7 positions**

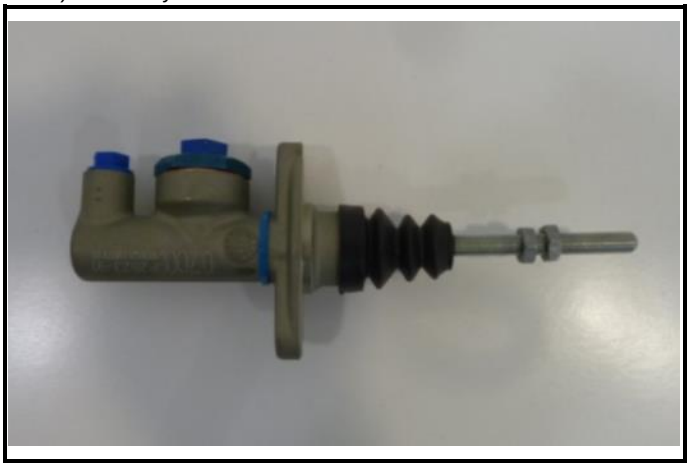
		FRONT	REAR
e)	Number of cylinders per wheel	6	2
e1)	Bore	27 / 31.8 / 38.1 ± 0.1 mm	36 ± 0.1 mm
g1)	Number of pads per wheel	2	2
g2)	Number of callipers per wheel	1	1
g3)	Calliper material	Aluminium	Aluminium / Steel
g4)	Thickness of new disc	34 ± 1mm	10 ± 1mm
g5)	External diameter of disc	378 ± 1.5mm	272 ± 1.5 mm

h) Parking brake

h1) Type **Hook in hand brake lever**

h2) Location of control **Cockpit (over the tunnel)**

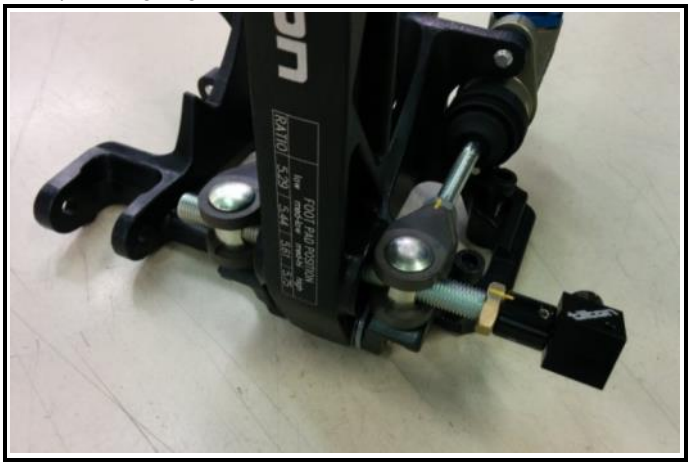
J4-1) Master cylinders dismounted



J4-2) Master cylinders in location

J5-1) Braking Regulator dismounted

J5-2) Braking Regulator in location



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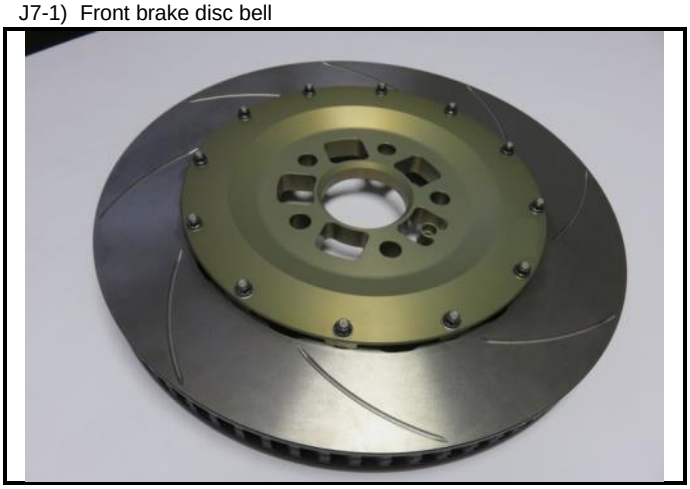
J6-1) Front brake calliper

J6-2) Rear brake calliper

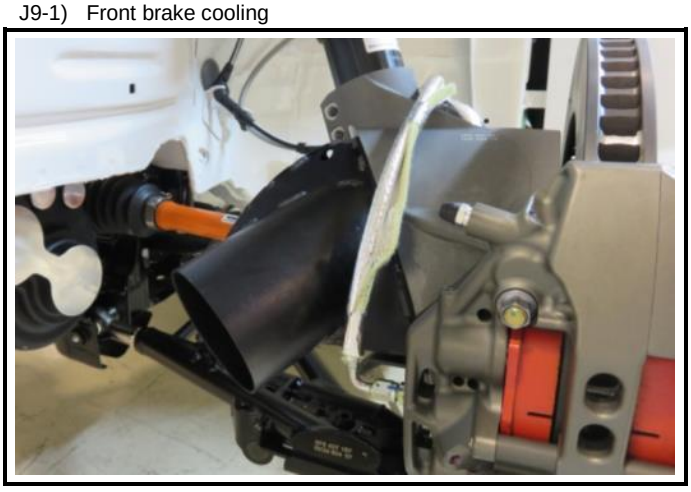
J7-1) Front brake disc bell



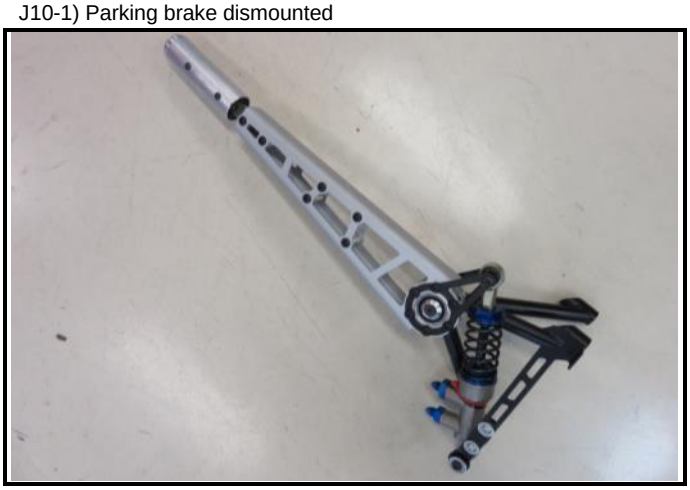
J7-2) Rear brake disc bell

J8-1) Brake fluid tank(s) in location

J9-1) Front brake cooling



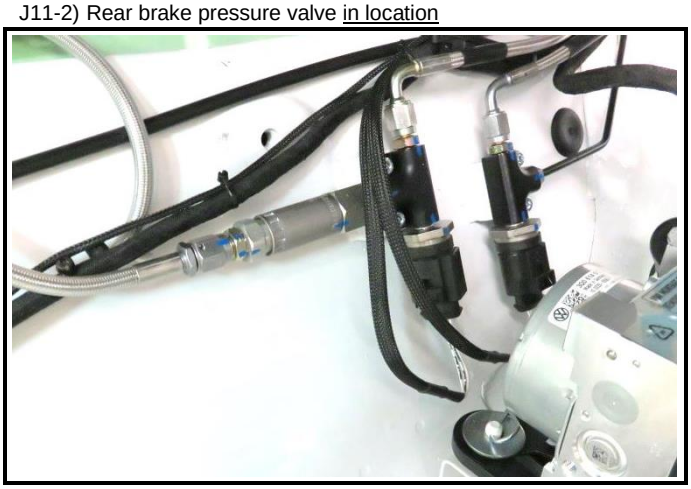
J10-1) Parking brake dismounted



J10-2) Parking brake in location

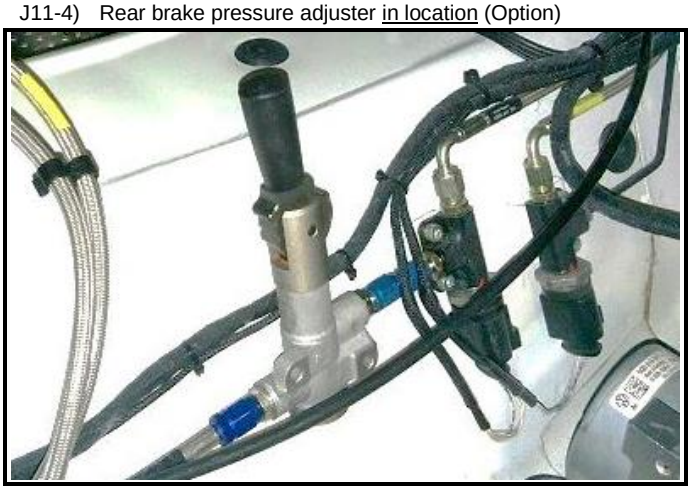
J11-1) Rear brake pressure valve

J11-2) Rear brake pressure valve in location



J11-3) Rear brake pressure adjuster (Option)

J11-4) Rear brake pressure adjuster in location (Option)



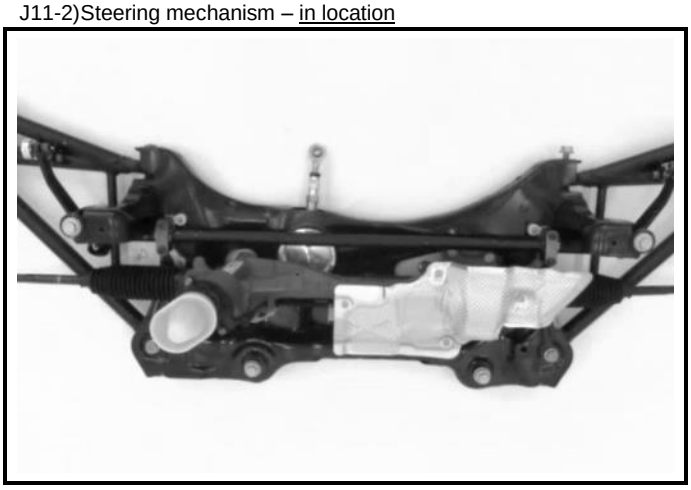
804. STEERING

Type: **RACK AND PINION**

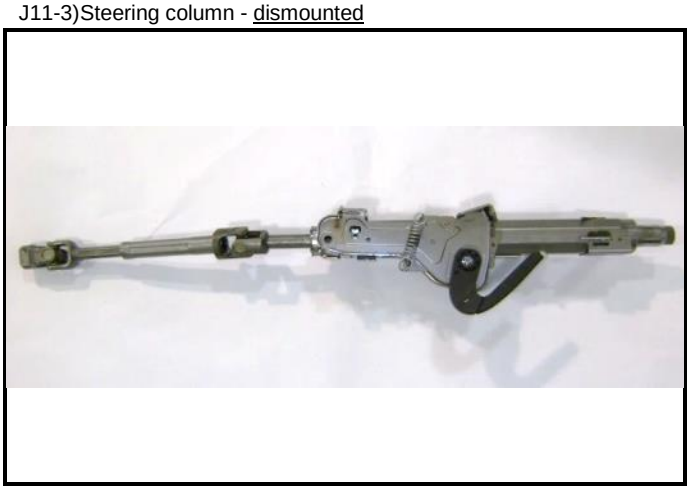
Origin and identification: **OEM VW GROUP**

J11-1)Steering mechanism - dismounted

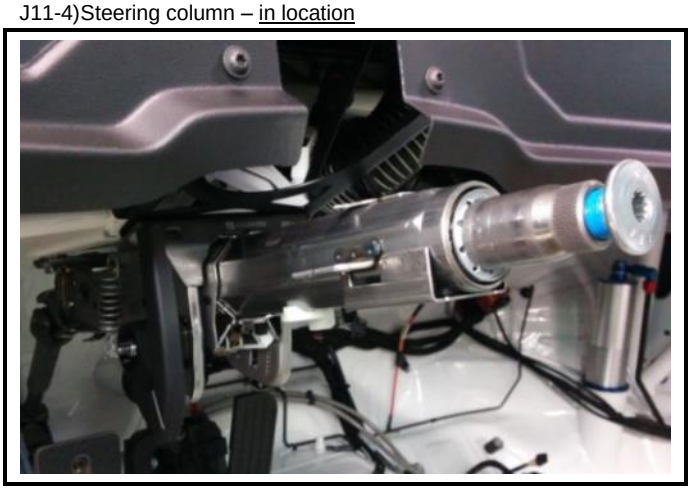
J11-2)Steering mechanism – in location



J11-3)Steering column - dismounted



J11-4)Steering column – in location



J12-1)Steering wheel

J12-2)Steering wheel release mechanism

9. BODYWORK - CHASSIS (BODYSHELL)

901. INTERIOR

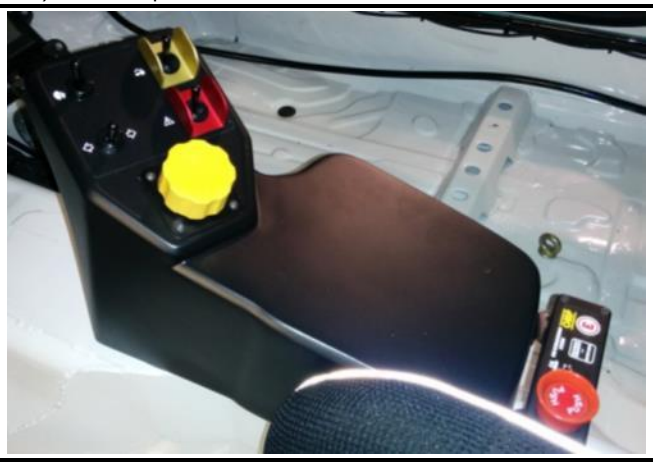
Dash Board: **SEAT Sport** Material: **Plastic** Weight: **2150g** ±250g (with lateral covers)

L1-1) Dashboard - dismounted

L1-2) Dashboard and centre console (steering wheel removed)

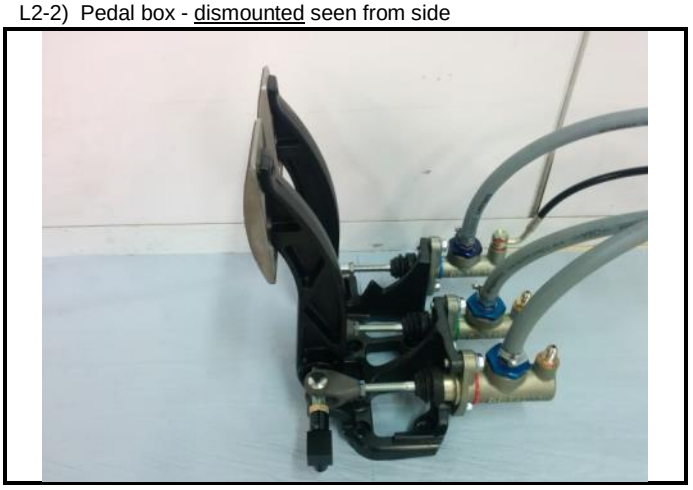
L1-3) Instruments

L1-4) Switches panel

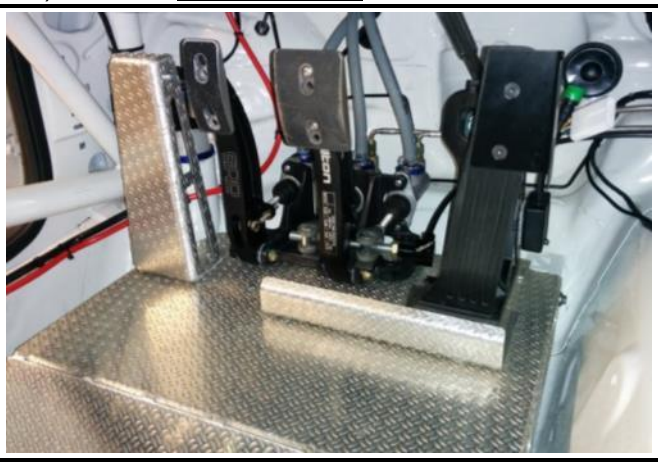


L2-1) Pedal box - dismounted seen from front

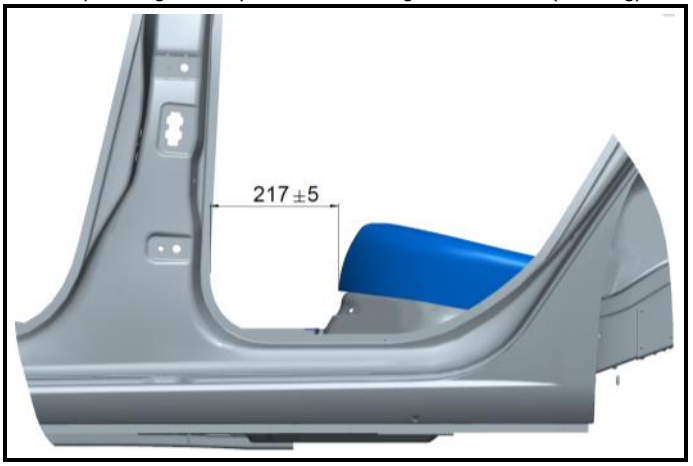
L2-2) Pedal box - dismounted seen from side



L2-3) Pedal box - mounted in location



XII-A2) Longitudinal position of the original back seat (Drawing)



Driver Seat (FIA Standard 8855-1999) Make and Type: **OMP** Weight: **10** kg ±0.5kg (without brackets)

L2-4) Driver Seat with brackets

L2-5) Driver Seat installed in location

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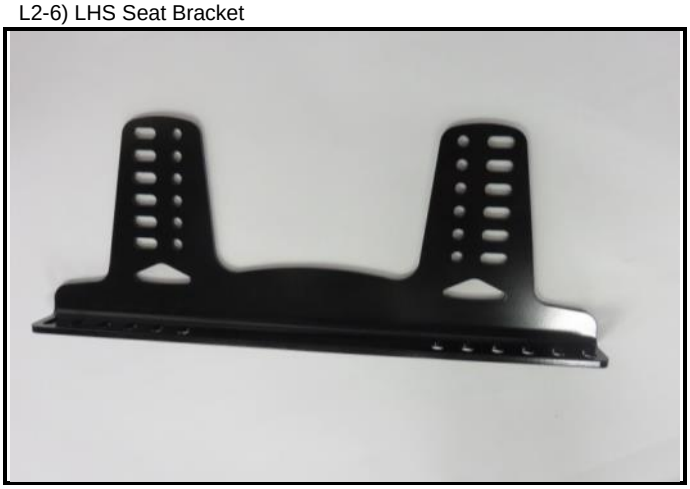
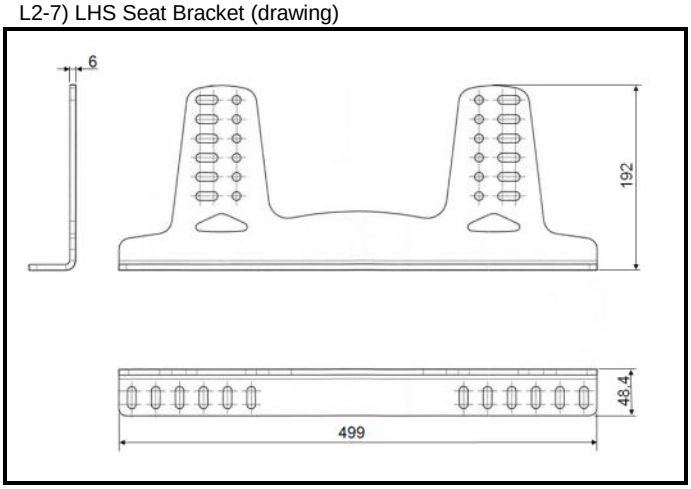
L2-6) LHS Seat Bracket

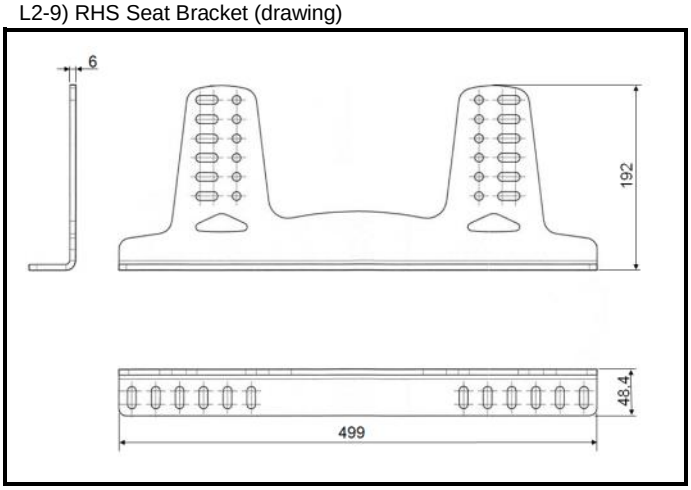


L2-7) LHS Seat Bracket (drawing)



L2-8) RHS Seat Bracket

L2-9) RHS Seat Bracket (drawing)



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902. EXTERIOR

XIII-A1) MATERIALS OF BODYWORK PANELS

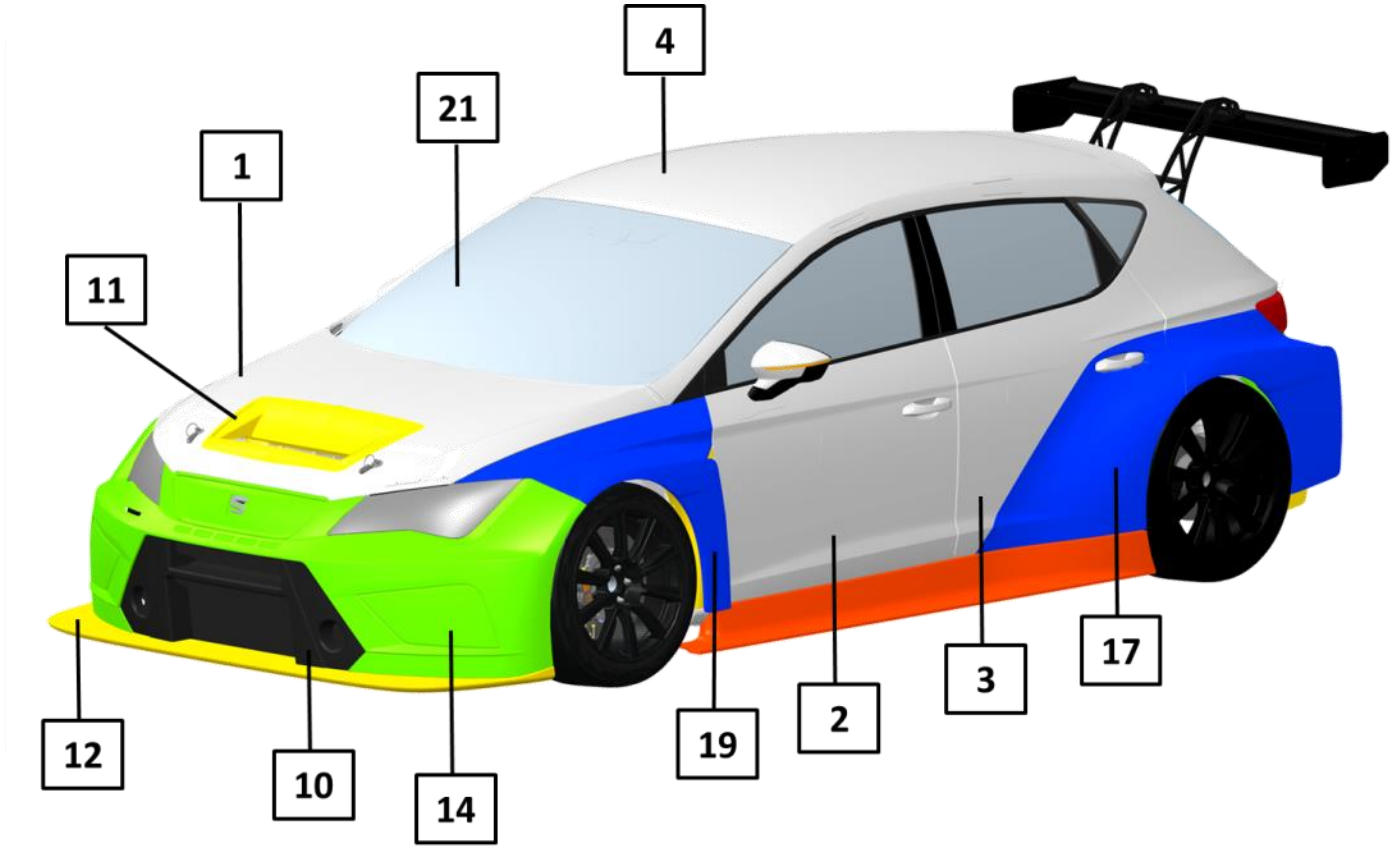
METALLIC MATERIALS			
Identification	**Part**	**Material**	**Weight**
1	BONNET	STEEL	11500 g
2	LEFT / RIGHT FRONT DOOR	STEEL	14600 g
3	LEFT RIGHT REAR DOOR	STEEL	11400 g
4	ROOF	STEEL	- g
5	BOOT LID	STEEL	10600 g

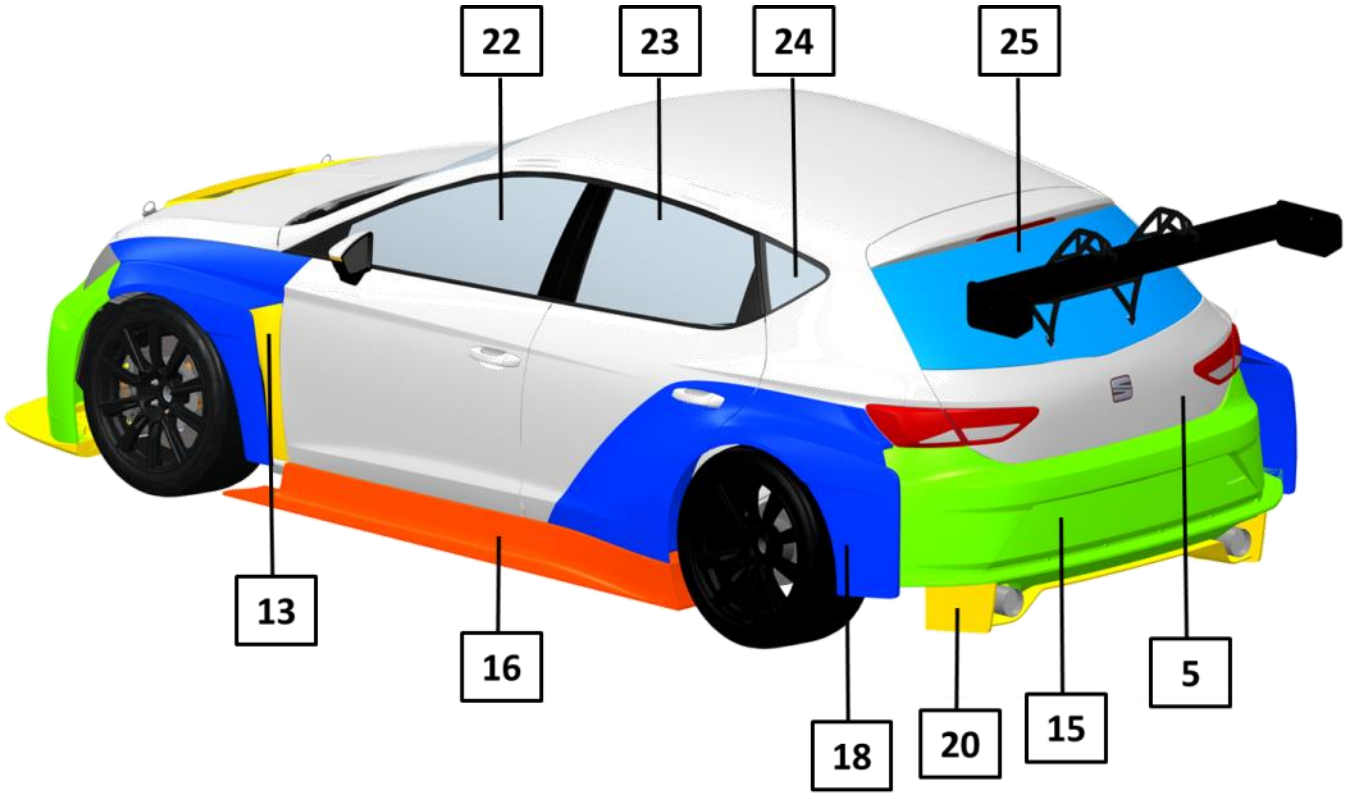
PLASTIC MATERIALS			
Identification	**Part**	**Material**	**Weight**
10	BUMPER AIR DUCT	PLASTIC	785 g
11	BONNET OPPENING	CARBON	380 g
12	FRONT SPLITTER	CARBON	6255 g
13	FENDER AIR EXIT	CARBON	195 g
14	FRONT BUMPER	FIBERGLASS	3760 g
15	REAR BUMPER	FIBERGLASS	4650 g
16	LEFT /RIGHT SIDE TRIM	FIBERGLASS/CARBON/KEVLAR	1705 g
17	LEFT / RIGHT REAR DOOR EXTENSION	CARBON (painted)	790 g
18	LEFT / RIGHT REAR FENDER EXTENSION	CARBON (painted)	815 g
19	LEFT / RIGHT FRONT FENDER	CARBON (painted)	1050 g
20	DIFFUSER	CARBON	1370 g

GLAZING			
Identification	**Part**	**Material**	**Minimum thickness**
21	WINDSCREEN	GLASS	4.46 ± 0.3 mm
21	WINDSCREEN	PLASTIC (OPTION)	5.85 ± 0.3 mm
22	LEFT / RIGHT FRONT DOOR WINDOW	GLASS	3.85 ± 0.2 mm
23	LEFT / RIGHT REAR DOOR WINDOW	GLASS	3.15 ± 0.2 mm
24	LEFT / RIGHT REAR TRIANGLE WINDOW	PLASTIC	3.15 ± 0.2 mm
25	REAR WINDOW	PLASTIC	3.85 ± 0.3 mm

For plastic windscreen and rear window Indicate the make and the incorporated heating (if any).

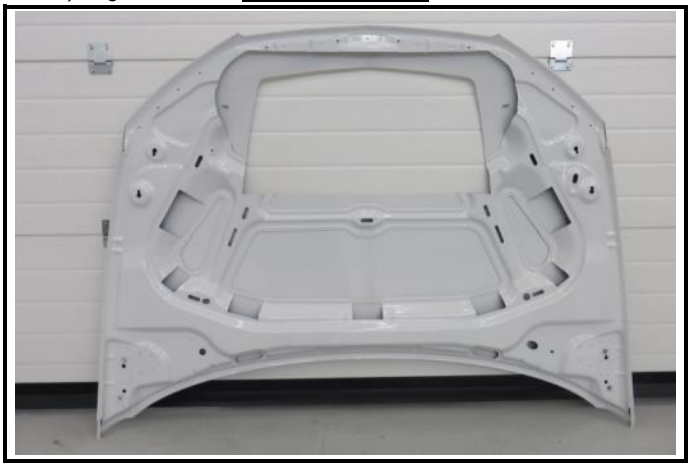
BODYWORK PANELS (DRAWING)



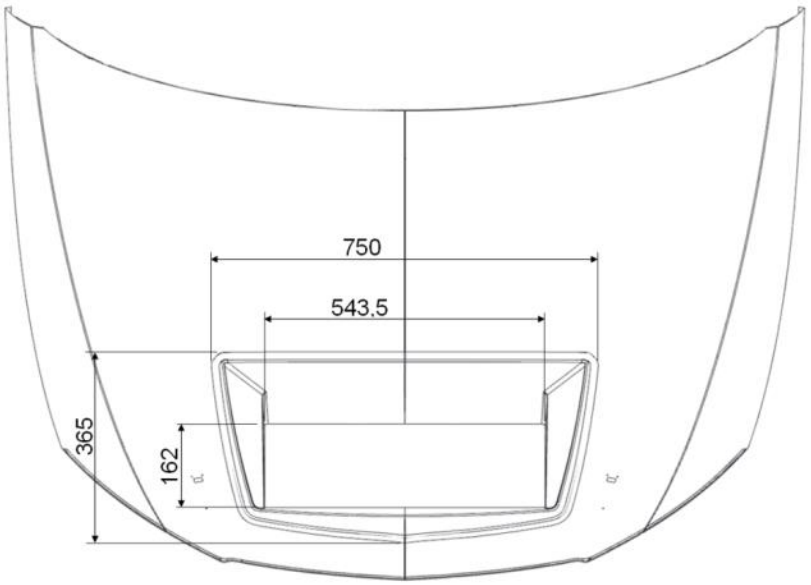


M4-1) Engine bonnet – dismounted (outside)

M4-2) Engine bonnet – dismounted (inside)



XIII-D1) Engine bonnet – dimensions of openings (Drawing)



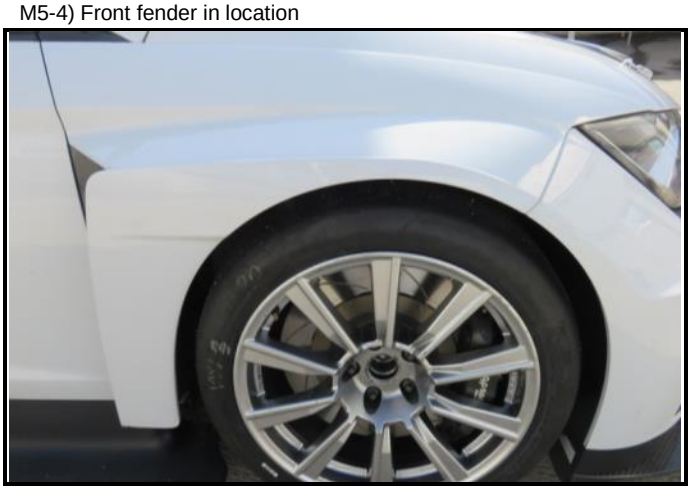
Tolerance ± 1%
Opening max 1050 cm²

M5-1) Engine bonnet open - retaining support(s)

M5-2) Boot lid open - retaining support(s)

M5-3) Front fender dismounted

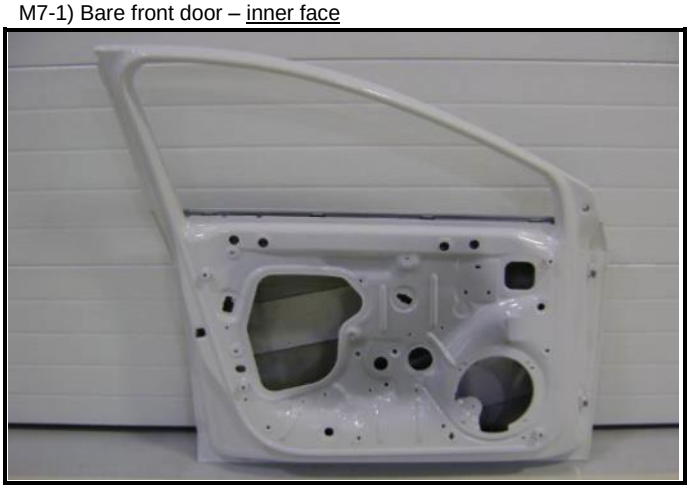
M5-4) Front fender in location



M6-1) Rear fender - dismounted

M6-2) Rear fender in location

M7-1) Bare front door – <u>inner face</u>



M7-2) Front door <u>inner face</u>

M8-1) Bare **rear** door – inner face

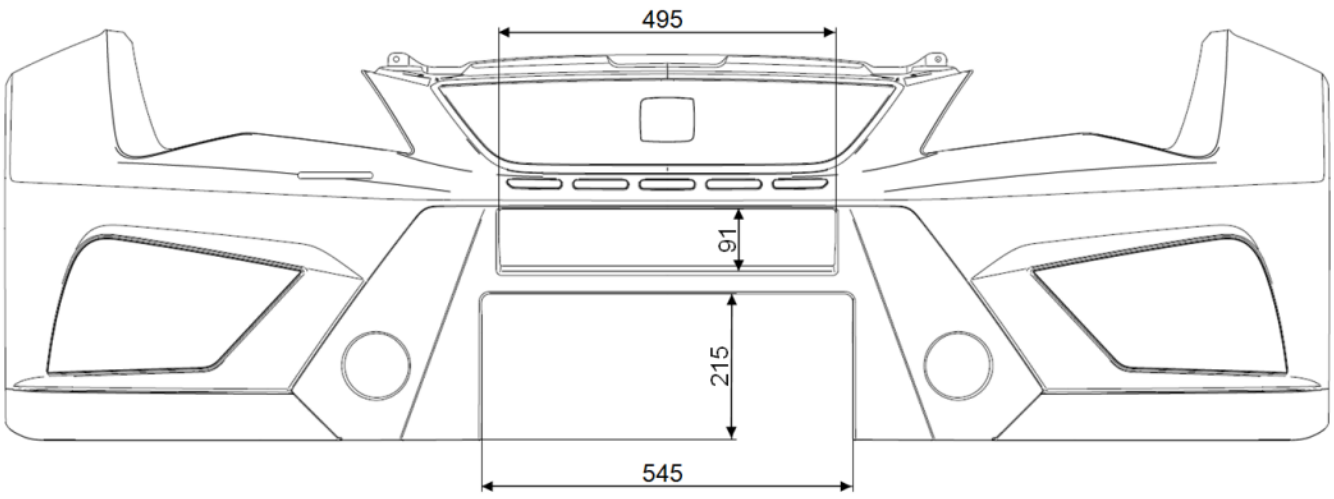
M8-2) Rear door – modification of wheel arch

N/A

M9-1) Front bumper - dismounted outer side

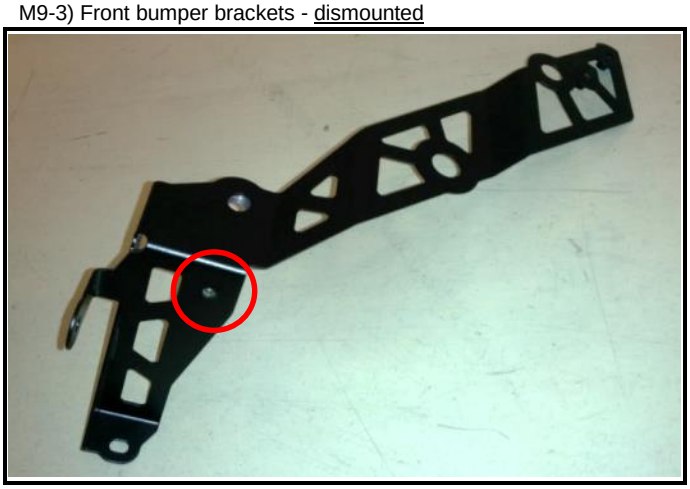
M9-2) Front bumper - dismounted inner side

XIII-I1) Front bumper including component panels (if it fits) seen from front - dimensions and function of openings (Drawing)

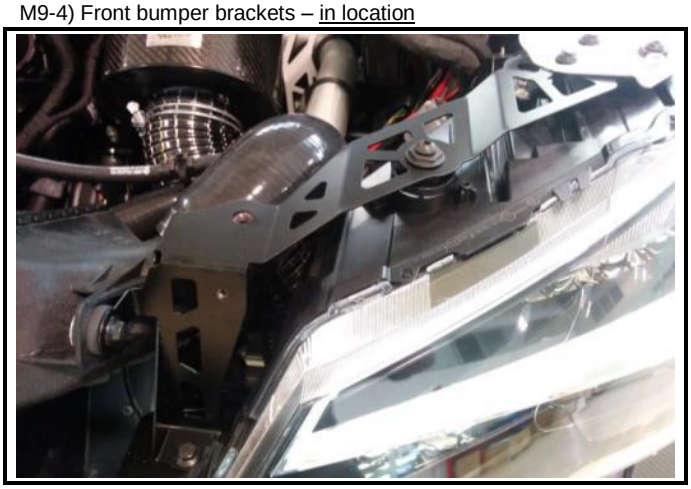


Tolerance ± 1%

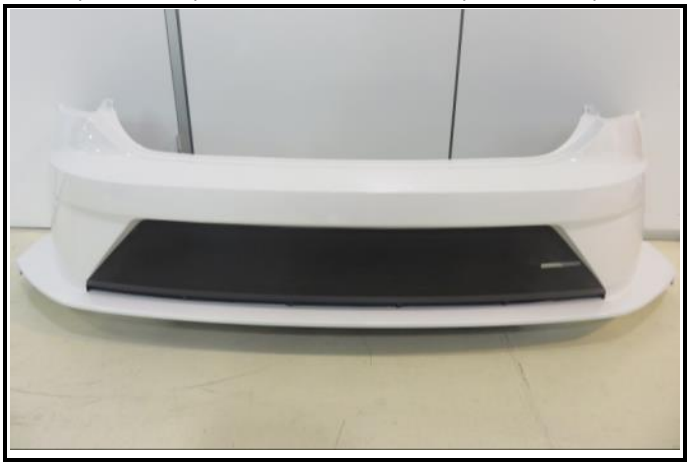
M9-3) Front bumper brackets - dismounted



M9-4) Front bumper brackets – in location

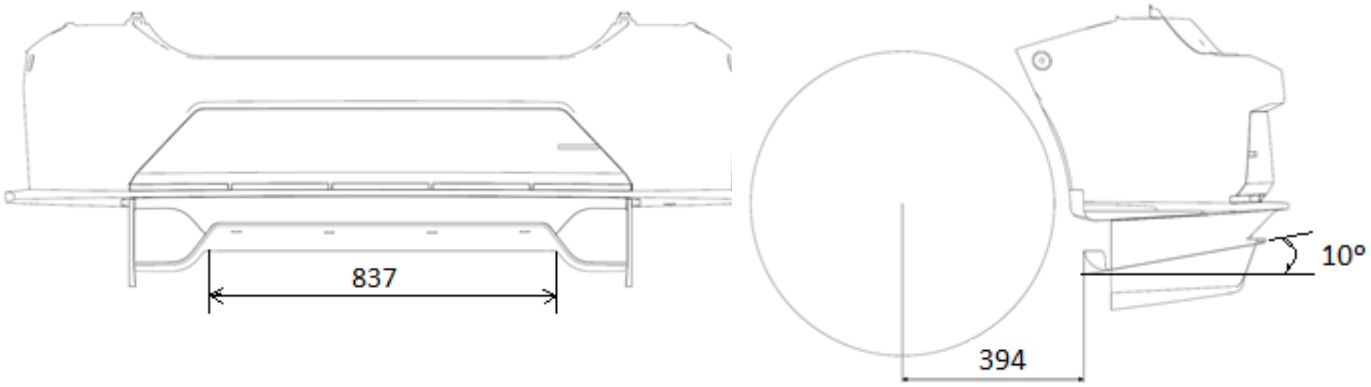


M11-1) Rear bumper - dismounted outer side (¾ from below)



M11-2) Rear bumper - dismounted inner side

XIII-I1) Rear bumper - dimensions of diffuser (Drawing)

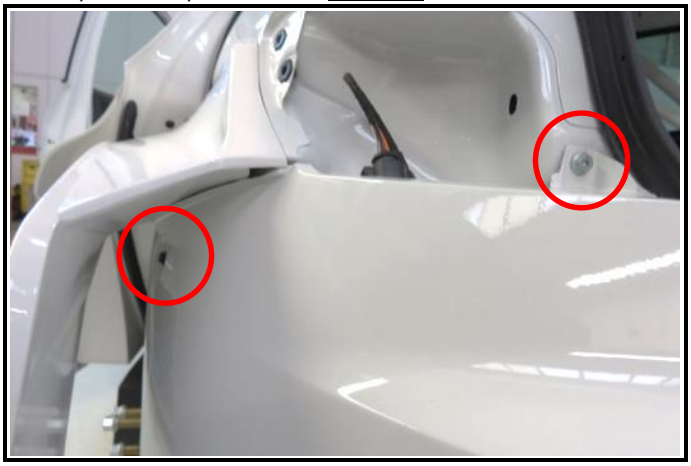


Tolerance ± 1%

M11-3) Rear bumper brackets - dismounted

N/A

M11-4) Rear bumper brackets – in location

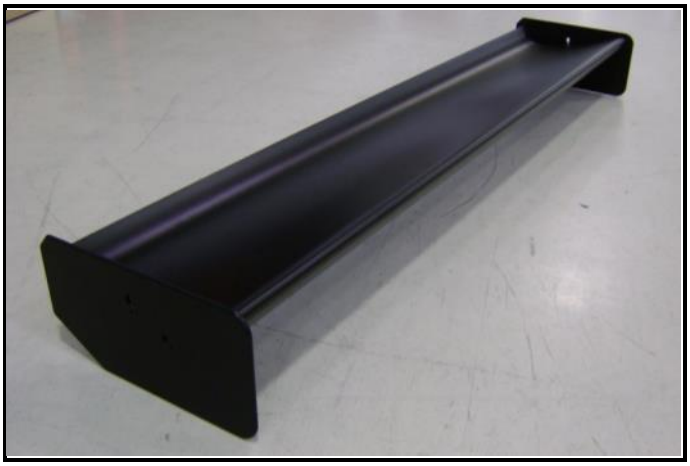


M12-1) Front wheel arch liner

M12-2) Rear wheel arch liner

N/A

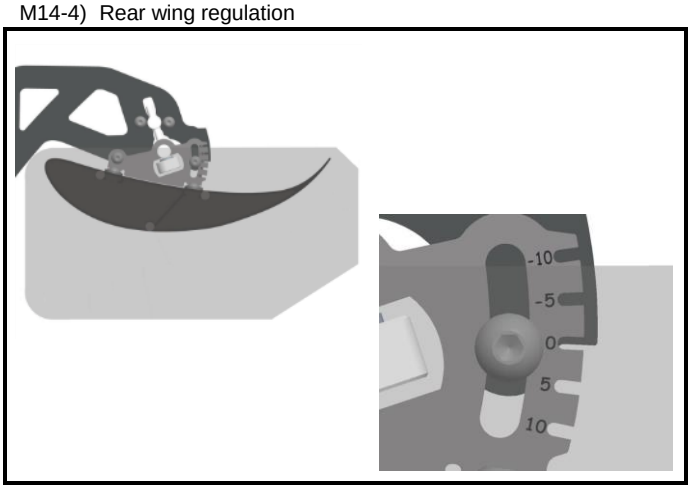
M14-1) Complete rear wing - dismounted



M14-2) Complete rear wing - dismounted

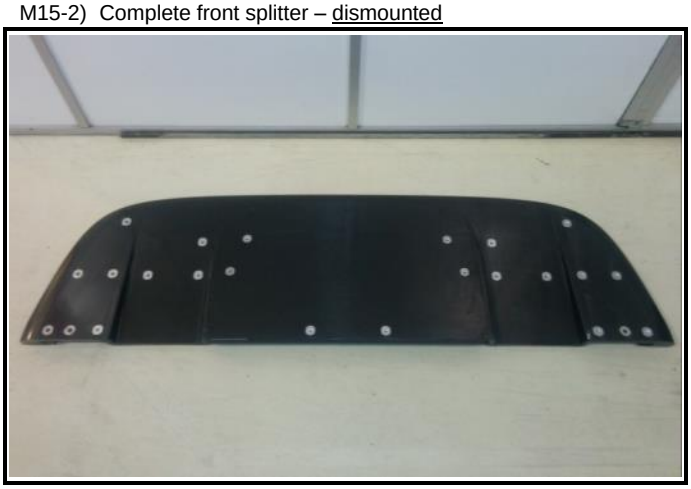
M14-3) Complete rear wing – mounted on car

M14-4) Rear wing regulation

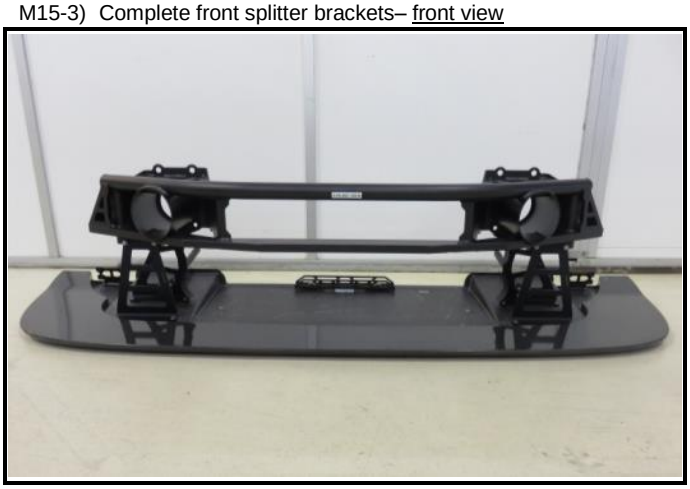


M15-1) Complete front splitter – dismounted

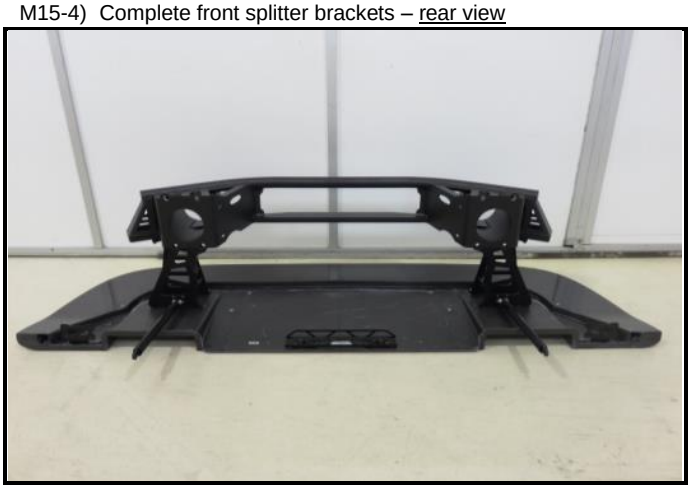
M15-2) Complete front splitter – dismounted



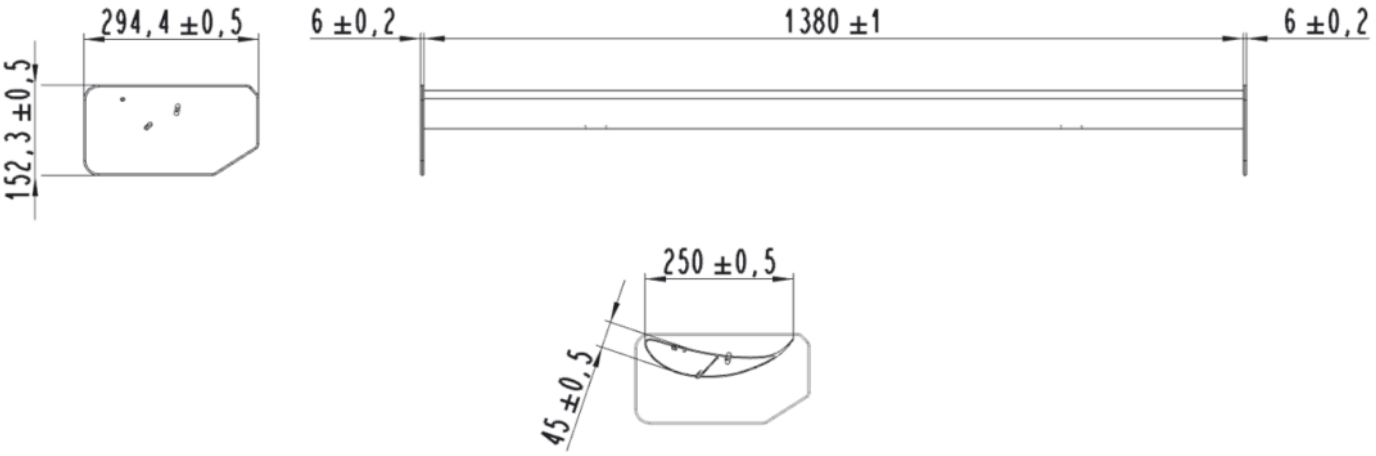
M15-3) Complete front splitter brackets– front view



M15-4) Complete front splitter brackets – rear view



XIII-N1) COMPLETE REAR WING DISMOUNTED (DRAWING)



XIII-N4) AERO PARTS MOUNTED ON CAR SEEN FROM THE SIDE (WITH LONGITUDINAL POSITION) (Drawing)

M16-1) LHS Front door with driver cooling air inlet (option)

N/A

M16-2) RHS Front door with driver cooling air inlet (option)

N/A

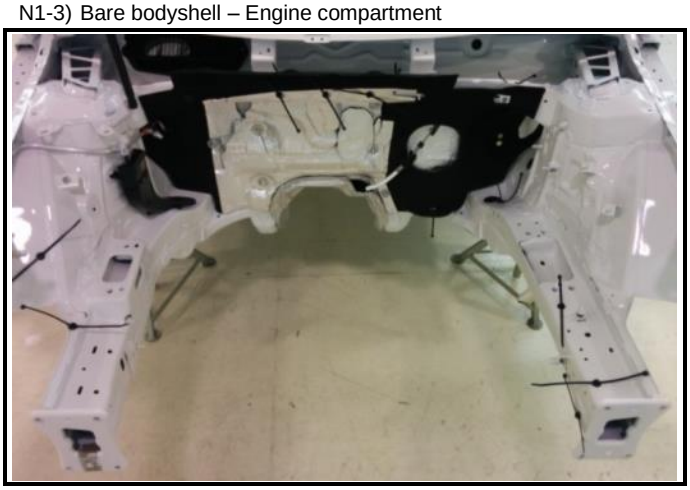
903. CHASSIS (BODYSHELL)

Please indicate the reinforcements, modifications for air jack installation and removal of unused supports.

N1-1) Bare bodyshell – General view

N1-2) Bare bodyshell – General view

N1-3) Bare bodyshell – Engine compartment

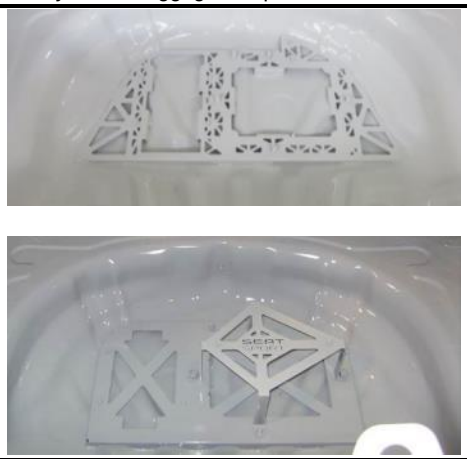


N1-4) Bare bodyshell – Cockpit seen from windscreen opening

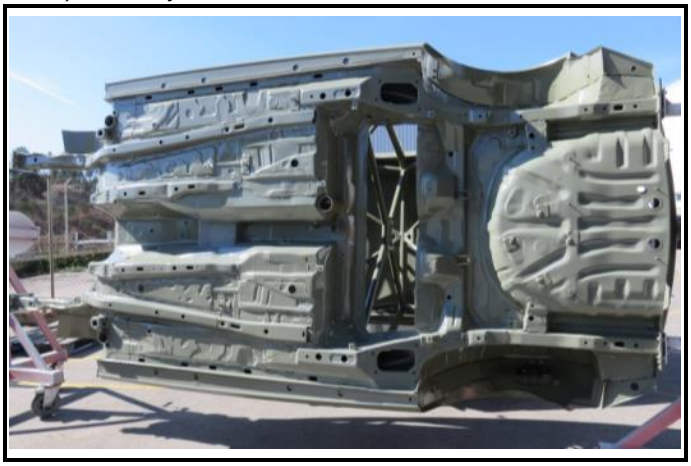
N1-5) Bare bodyshell – Cockpit seen from rear window opening

N1-6) Bare bodyshell – Roof seen from cockpit

N1-7) Bare bodyshell – Luggage compartment



N1-8) Bare bodyshell – Seen from underneath

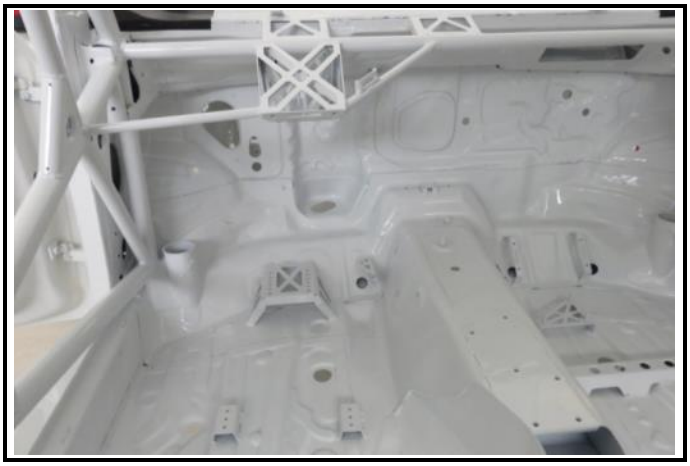


N1-9) Body shell identification plate

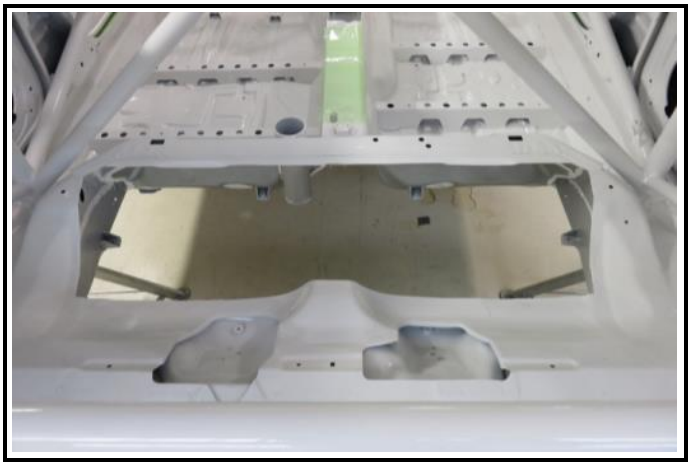
N1-10)

MODIFICATIONS OF CHASSIS (BODY SHELL)

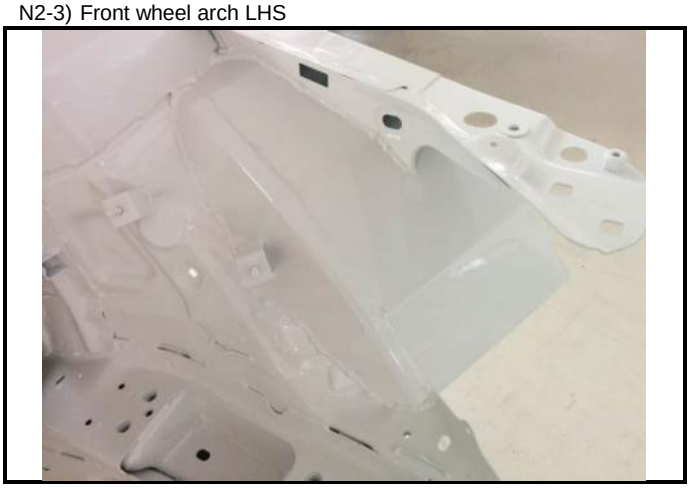
N2-1) Interior view on modifications for pedal box, steering column and air jacks



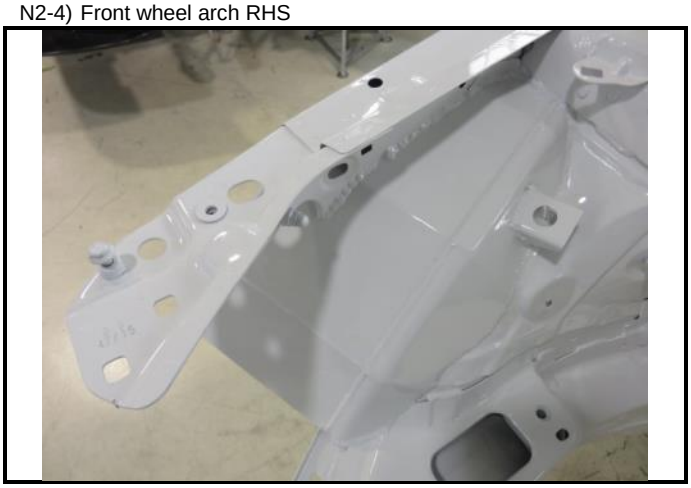
N2-2) Interior view on modifications for fuel cell installation



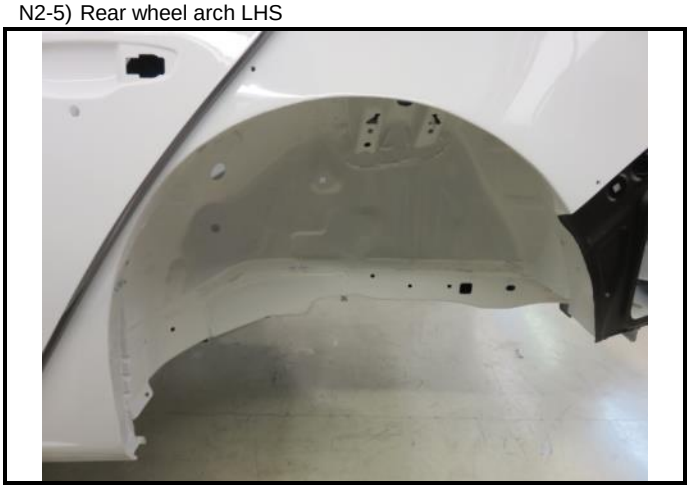
N2-3) Front wheel arch LHS



N2-4) Front wheel arch RHS

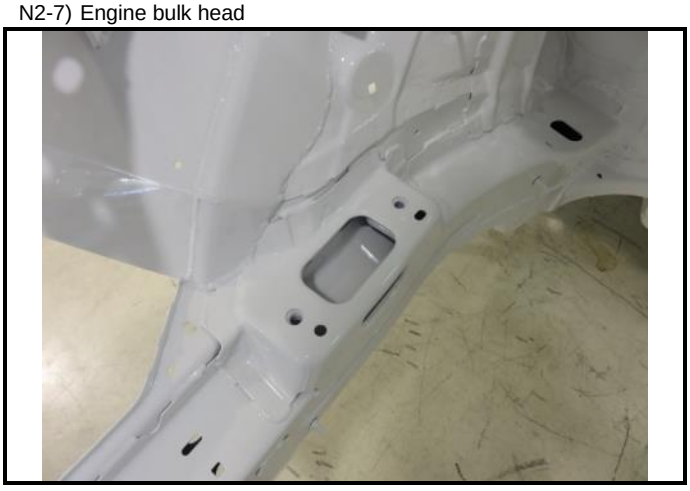


N2-5) Rear wheel arch LHS



N2-6) Rear wheel arch RHS

N2-7) Engine bulk head



N2-8) McPherson turret

If the body shell has other WCS authorized modifications add supplementary pictures.

10.SAFETY DEVISES

1001. SAFETY CAGE

a) Safety cage number: **VSSMK35F4_SSP_____** Producer: **SEAT Sport** FIA, ASN Certificate no: **HES4441013**

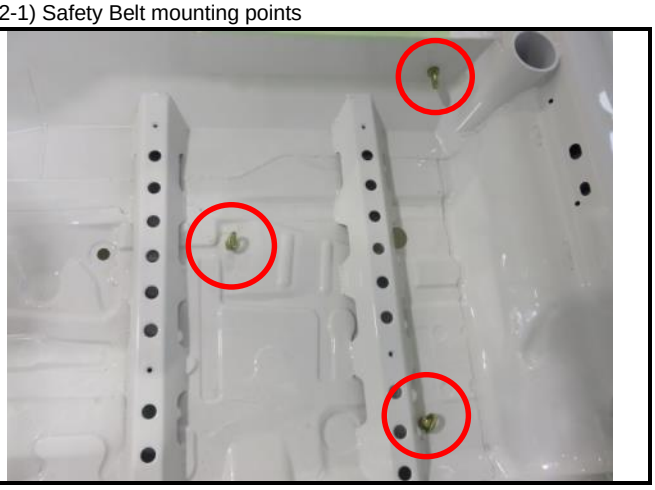
1002. SAFETY SEAT MONTINGS ON BODYSHELL

S1-1) Driver Seat mountings

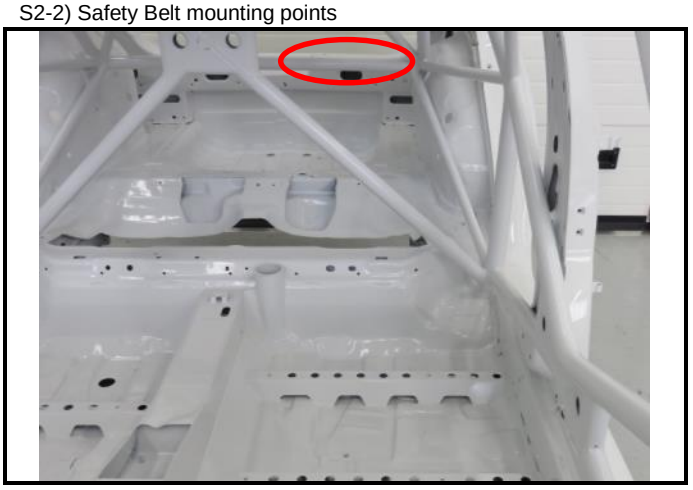
S1-2) Driver Seat mountings

1003. SAFETY BELT MONTING POINTS

S2-1) Safety Belt mounting points



S2-2) Safety Belt mounting points



S2-3) Safety Belt mounting points

N/A

S2-4) Safety Belt mounting points

N/A

1004. FUEL TANK SAFETY EQUIPMEMNT

Rollover valve:	Make: **SOBEK Z-V 9009 0028**	Approval:……
Overpressure valve:	Make: **SOBEK Z-V 9009 0028**	Approval: ……
Filler neck Non-return valve:	Make: **-**	Approval: ……

S3-1) Rollover & Overpressure valves

S3-2) Filler neck Non-return valve

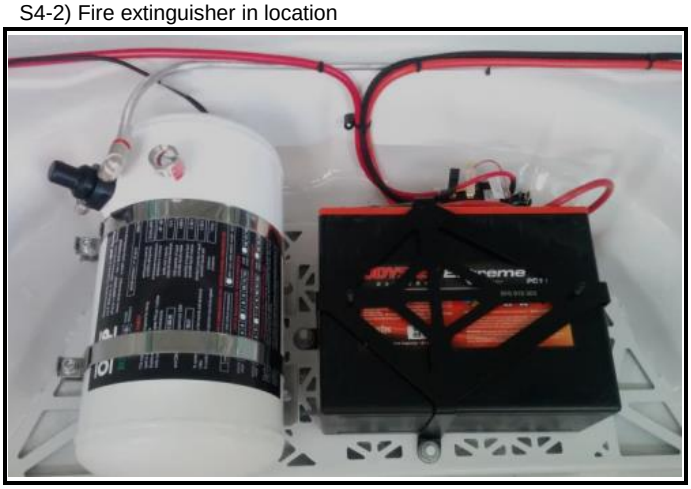
N/A

1005. FIRE EXTINGUISHER

Make: **OMP** Approval: **EX 008.00** Weight: **5850** ±250g

S4-1) Fire extinguisher dismounted

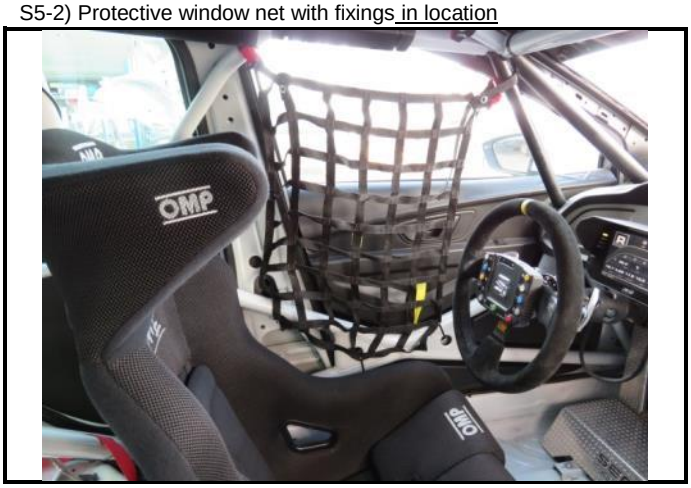
S4-2) Fire extinguisher in location



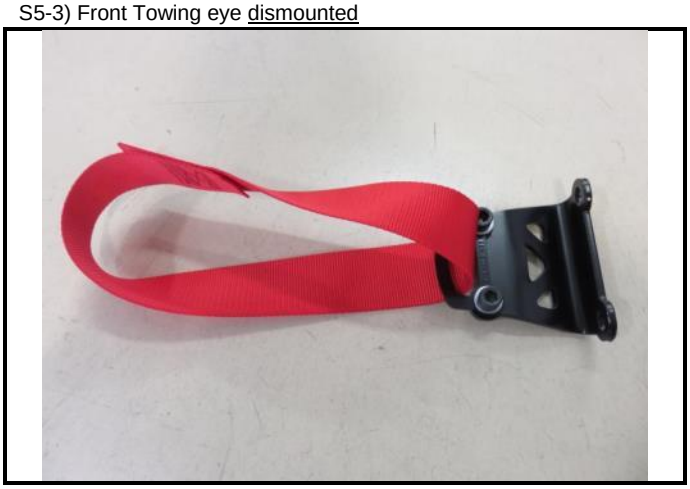
1006. OTHER SAFETY DEVISES

S5-1) Protective window net dismounted

S5-2) Protective window net with fixings in location



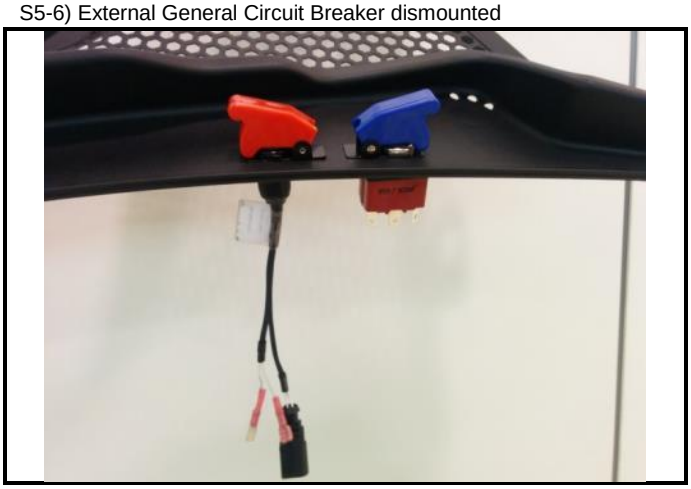
S5-3) Front Towing eye dismounted



S5-4) Rear Towing eye dismounted

S5-5) Rain Light (FIA List: Part ref.:**Std. fog lights + 3rd brake light**)

S5-6) External General Circuit Breaker dismounted



S5-7) Optional front side impact panel dismounted

N/A

S5-8) Optional front side impact panel in location

N/A

S5-9) Optional rear side impact panel dismounted

N/A

S5-10)

REAL FEDERACIÓN ESPAÑOLA DE AUTOMOVILISMO
Departamento Técnico
Technical Department

COMPLEMENTARY INFORMATION