



	IMPORTANT - Present the vehicle for inspection in the following or
CAR NUMBER: E84	der:
SES PASSED:	Accumulator Check
IADR PASSED:	2. Pre-Scrutineering
NUMBER OF DRIVERS:	3. Electrical Inspection*
TALLEST DRIVER: HEIGHT:	4. Mechanical Inspection*
ESF PASSED:	5. Tilt Table Test* 6. Rain Test*
TS VOLTAGE: 380 V	7. Brake Test*
GLVS VOLTAGE: 24.1 V	* the car is marked with a sticker if this part has been passed su
BODY PROTECTION R: 10kR	cessfully.
	NOTES:
	- This form must stay with the car at all times!
	- If there is a conflict between this form and the rules, the rules preva
PART I: ACCUMULATOR CHECK	
The time limit for this part of the inspection is 45 minutes. Continuation	
During technical inspection all work carried out on the accumulator mu	ust be approved by a scrutineer.
☐ REQUIRED RESSOURCES	
 All accumulator containers to be used during the event. 	 Print-out of rule questions, if necessary.
Accumulator Container Hand Cart.	Charger.
 Tools needed for (dis-)assembly of Accumulator Container. 	An ESO must attend.
<u> </u>	7 All Edd Hust attend.
☐ BASIC SET OF HV-PROOF TOOLS	
1 O Insulated cable shear.	4 O Multimeter.
2 O Insulated screw driver.	5 O Protected probe tips for multimeter.
3 O Insulated spanners (n/a if no screwed connections in TS).	
☐ SAFETY EQUIPMENT	
6 ○ Face shield.	8 O HV insulating gloves (minimum two pairs on push bar).
7 O Safety glasses (minimum four).	9 \bigcirc HV insulating blankets (two) (min $1 m^2$).
□ HOUSING	
10 Check if all parts and the cover/lid of the housing are rigidly	Open container housing, remove maintenance plugs.
fastened.	► Check if no voltage is present.
=	
□ ASSEMBLY	
11 O All components and parts of the accumulator container need	20 Maintenance plugs removable without tools.
to be properly fixed	21 O Maintenance plugs have positive locking mechanism.
to be properly fixed.	
12 O HV potentials are insulated against inner wall of accumulator	22 O Maintenance plugs are located at both poles of each stack.
12 O HV potentials are insulated against inner wall of accumulator container if container made from conductive material.	23 O Maintenance plugs must not be able to unintentionally create
12 O HV potentials are insulated against inner wall of accumulator container if container made from conductive material. 13 O Cell tabs must not be mechanically loaded.	23 O Maintenance plugs must not be able to unintentionally create circuits or short circuits.
12 HV potentials are insulated against inner wall of accumulator container if container made from conductive material. 13 Cell tabs must not be mechanically loaded. 14 No soldering in high current path	 23 ○ Maintenance plugs must not be able to unintentionally create circuits or short circuits. 24 ○ Stacks separated by Maintenance plugs ≤ 120 VDC.
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HV potentials are insulated against inner wall of accumulator container if container made from conductive material. Cell tabs must not be mechanically loaded. No soldering in high current path Every container contains at least one appropriately sized and rated fuse. If the fuse uses a bolt to disconnect there must be sufficient space for the bolt to move into. Every container contains at least two appropriately sized and rated isolation relays. Isolation relays and fuses are separated from cells by barrier	 23 Maintenance plugs must not be able to unintentionally create circuits or short circuits. 24 Stacks separated by Maintenance plugs ≤ 120 VDC. 25 Stacks separated by Maintenace plugs ≤ 6 MJ. 26 Stacks are insulated and separated by a fire resistant barrie according to UL94-V0, FAR25 or equivalent. 27 Internal vertical walls have to be rigidly fastened to the con
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- 31 \bigcirc All HV wires have to be properly fused.
- 32 O No other wires than HV wires are orange.
- 33 O Securely anchored to withstand at least 200N.
- 34 \bigcirc Located out of the way of possible snagging or damage.
- $35 \bigcirc$ TS and GLVS wires separated (not valid for Interlock).
- 36 O Marked with gauge, temperature rating and voltage rating.
- 37 \bigcirc Suitable wire temperature rating for each wire position.
- 38 \bigcirc Positive locking mechanism.
- 39 O Insulation is not only insulating tape or rubber-like paint.
- 40 \bigcirc Every wire used in the Accumulator container (HV AND LV) is rated for the maximum tractive system voltage.

ELECTRIC INSPECTION SHEET



TEMPERATURE LOGGING 11 Sufficient space available for mandated temperature measuring device. Install iButton for temperature logging. INDICATOR LIGHT OR VOLTMETER 14 Indicator light or voltmeter installed. Connect power supply >60 VDC to accumulator HV connector. ACCUMULATOR MANAGEMENT SYSTEM 17 A minimum of 30% of cells are monitored with temperature sensors. CHARGER ASSEMBLY 19 Completely closed (no open HV connectors). Interlock integrated. Emergency shutdown button integrated ≥25 mm diameter. CHARGER SHUTDOWN CIRCUIT 15 IMD is integrated into the charging system. Press shutdown button. Press shutdown button. SEALING OF COMPONENTS After all tests have been passed successfully seal the inspected TS housings: 142 IButton installed at negative cell tab. 45 Cooling at iButton position not above-average. 15 Indicator light on or voltmeter showing present TS voltage. 46 Reasonably bright. 48 Every temperature sensor placed on negativ terminal of monitored cell or in <10mm distance on busbar. 48 Every temperature sensor placed on negativ terminal of monitored cell or in <10mm distance on busbar. 48 Every temperature sensor placed on negativ terminal of monitored cell or in <10mm distance on busbar. 48 Every temperature sensor placed on negativ terminal of monitored cell or in <10mm distance on busbar. 48 Every temperature sensor placed on negativ terminal of monitored cell or in <10mm distance on busbar. 48 Every temperature sensor placed on negativ terminal of monitored cell or in <10mm distance on busbar. 49 Conductive parts of charging equipment and accumulator an connected to protective earth (PE) while charging. 50 Interlock integrated into the charging system. Seatlery indicator shows voltage <60 V. Start charging, unplug HV battery connector. 59 AlRs open. 60 Charger disabled, no voltage at charger connector. 63 Additional Part: 64 Additional Part:				
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44 ○ Indicator light or voltmeter installed. ▶ Connect power supply >60 VDC to accumulator HV connector. ACCUMULATOR MANAGEMENT SYSTEM 47 ○ A minimum of 30% of cells are monitored with temperature sensors. CHARGER ASSEMBLY 49 ○ Completely closed (no open HV connections). 50 ○ Interlock integrated. 51 ○ Emergency shutdown button integrated ≥25 mm diameter. CHARGER SHUTDOWN CIRCUIT 55 ○ IMD is integrated into the charging system. ▶ Connect charger to battery/batteries, start charging process. 56 ○ Battery indicator shows that HV is present. ▶ Press shutdown button. 57 ○ AIRs open. Atter all tests have been passed successfully seal the inspected TS housings: 61 ○ Accumulator container(s) including spares 62 ○ Charger 63 ○ Additional Part: 63 ○ Additional Part:	ing device.	·		G
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sensors. CHARGER ASSEMBLY 49 ○ Completely closed (no open HV connections). 50 ○ Interlock integrated. 51 ○ Emergency shutdown button integrated ≥25 mm diameter. 52 ○ HV wiring orange. 53 ○ HV wiring temperature rating suitable. 54 ○ Conductive parts of charging equipment and accumulator are connected to protective earth (PE) while charging. CHARGER SHUTDOWN CIRCUIT 55 ○ IMD is integrated into the charging system. Connect charger to battery/batteries, start charging process. 56 ○ Battery indicator shows that HV is present. Press shutdown button. Press shutdown button. 57 ○ AIRs open. SEALING OF COMPONENTS After all tests have been passed successfully seal the inspected TS housings: 61 ○ Accumulator container(s) including spares 62 ○ Charger 63 ○ Additional Part:	☐ ACCUMULA	TOR MANAGEMENT SYSTEM		
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50 ○ Interlock integrated. 51 ○ Emergency shutdown button integrated ≥25 mm diameter. 53 ○ HV wiring temperature rating suitable. 54 ○ Conductive parts of charging equipment and accumulator are connected to protective earth (PE) while charging. □ CHARGER SHUTDOWN CIRCUIT 55 ○ IMD is integrated into the charging system. ▶ Connect charger to battery/batteries, start charging process. 56 ○ Battery indicator shows that HV is present. ▶ Press shutdown button. 57 ○ AIRs open. □ SEALING OF COMPONENTS ▶ After all tests have been passed successfully seal the inspected TS housings: 61 ○ Accumulator container(s) including spares 62 ○ Charger 58 ○ Battery indicator shows voltage <60 V. ▶ Start charging, unplug HV battery connector. 59 ○ AIRs open. 60 ○ Charger disabled, no voltage at charger connector. 63 ○ Additional Part:	☐ CHARGER	ASSEMBLY		
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spected TS housings: 63 Additional Part: 63 Additional Part: 64 Charger	☐ SEALING O	F COMPONENTS		
64 (Additional Part:	spected TS hou 61 O Accumulator co	sings:		
	- 0		64 ()	Additional Part:

NON-COMPLIANCE / COMMENTS

APP	ROVAL			
	Scrutineer Names		Date, Time	Signatures when passed
1.				
		<i></i>		
2.				
		<i></i>		

ELECTRIC INSPECTION SHEET





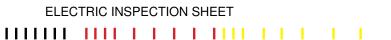
PART II: PRE-SCRUTINEERING	
□TIRES	
65 O DRY TIRES - Make:	68 O RAIN TIRES - Make:
66 O DRY TIRES - Size:	69 O RAIN TIRES - Size:
67 O DRY TIRES - Compound:	70 O RAIN TIRES - Compound:
	71 O RAIN TIRES - 2,4 mm (3/32 in.) min. tread depth molded by tire manufacturer
☐ DRIVER GEAR & SAFETY	
 72 FACE SHIELDS - made of impact resistant material. 73 UNDERWEAR - certified to SFI 3.3 or FIA 8856-2000 74 SOCKS - Nomex or equivalent, fire resistant socks. No cotton. No polyester. No bare skin. 75 GLOVES - Fire resistant material. No holes. Leather allowed only over fire resistant material. 76 HELMETS - Snell SA2005, SA2010, SAH2010, SA2015; M2005, M2010, M2015; K2005, K2010, K2015. BS 6658-85 Type A/FR (not Types A or B). SFI 31.2/2005,2010,2015; SFI 41.2/2005,2010,2015; FIA 8860-2004, 8860-2010, 8859-2015. Closed Face, no Open Face, must have integrated shield (no dirtbike helmets). No camera mounts. 	 78 HAIR COVER - Fire resistant (Nomex or equiv.) balaclava of full helmet skirt REQUIRED FOR ALL DRIVERS. 79 SHOES - SFI 3.3 or FIA 8856-2000 80 FIRE EXTINGUISHERS - Two (2) hand-held, 0.9 kg (2 lb.) minimum, dry chemical (10BC, 1A10BC, 34B, 5A 34B, 20BE or 1A 10BE), Aqueous Film Forming Foam (AFFF) fire extinguishers are prohibited, 1 WITH CAR securely installed on
APPROVAL	
Scrutineer Names	Date, Time Signatures when passed
1.	
PART III: ELECTRICAL INSPECTION	V
The time limit for this part of the inspection is 120 minutes. Continua During technical inspection all work carried out on the car must be a	ation of the inspection is possible after requeueing.
☐ REQUIRED RESSOURCES	
 Printed datasheets for used wiring, insulation materials, and high voltage components. 	 Samples of all wire types used inside the battery container. Laptop to display data of the AMS.
☐ CAR MOVEMENT	
► Try to move the car with deactivated TS.	81 O Car movement possible.
☐ SELF DEVELOPED PCBS	
Ask for spare PCB of self developed PCBs. Printed photographs are also sufficient if spares are not available.	83 O Sufficient insulation rating of coating if used, datasheet available.
82 O Sufficient spacing regarding system voltage and implementation.	84 O Sufficient temperature rating of coating if used, datasheet available.
☐ MASTER SWITCHES	
 85 Two master switches installed. 86 Master switches on the right side of the vehicle. 87 GLVMS located approximately at shoulder height of driver. 88 TSMS located directly next to GLVMS. 89 Rotary type. 90 Removable handle. 	 92 Rotary axis of both switches nearly horizontal and across car. 93 Not mounted on removable bodywork. 94 TSMS with locking mechanism for "OFF" position. 95 "ON" positions marked. 96 "OFF" positions marked. 97 TSMS marked with "HV".
91 O "ON" position in horizontal.	98 GLVMS marked with "LV".

ELECTRIC INSPECTION SHEET



	MEASURING POINTS	
	Two TS voltage measuring points and a GLVS ground measuring point installed. Next to GLVMS.	 103 Voltage rating given. 104 Non conductive cover. 105 Cover removable without tools.
101 🔾	Approximately shoulder height of the driver.	106 Correctly marked (HV+, HV-, GND).
102 🔾	4 mm shrouded banana jacks.	(1117, 1117, a.1.2).
	TS SHUTDOWN DEVICES	
107 🔾	Two shutdown buttons installed next to the main hoop.	117 ○ Diameter ≥24 mm.
108 🔾	Right and left on the car.	118 O Inertia switch installed.
109 🔾	Push-Pull or Push-Rotate-Pull functionality.	119 O Mounted to the chassis.
110 🔾	Approx. height of drivers head.	120 Can be demounted for functionality test.
111 🔾	Marked with red sparked sticker.	Check interlocks on
	Diameter ≥40 mm.	121 O HV accumulator container(s).
	One cockpit shutdown button installed.	122 O Inverters.
_	Push-Pull or Push-Rotate-Pull functionality.	123 O Power distribution boxes.
	Easy actuation by the driver	124 C EM box.
116 🔾	Marked with red sparked sticker.	125 Outboard wheel motors.
	GLVS VOLTAGE	
	Measure GLVS Voltage between GLVS battery plus or DC/DC converter plus and chassis.	126 C Equal or less than 60 VDC.
	TS VOLTAGE	
•	Measure voltage at TS measuring points.	127 C Equal or less than 60 VDC.
	DIS-CHARGE CIRCUIT AND BODY PROTECT	FION RESISTORS
>	Identify correct body protection resistor ¹ value	measuring points.
	R_{BPR} = 10kR.	128 C Resistance is 2 x BPR + discharge resistor.
>	Switch off GLVS. Measure resistance between HV+ and HV-	
	HV WIRING	
129 🔾	All HV wiring has to be in the envelope and behind the impact	136 O Shielded against rotating/moving parts.
120 (Structures.	137 O No wire lower than the chassis.
_	All HV wires have to be properly fused. Visible HV wiring channels are orange.	138 O TS and GLVS wires separated (n/a for interlock).
_	No other wires than HV wires are orange.	139 Marked with gauge, temperature rating and voltage rating or datasheets available.
_	TS wiring outside electrical enclosures in seperate non-	140 O Suitable temperature rating for used position.
.00	conductive enclosure or orange shielded cable.	141 O Positive locking mechanism on every screwed connection.
134 🔾	Securely anchored to withstand at least 200 N.	142 O Insulation is not insulating tape or rubber-like paint.
135 🔾	Located out of the way of possible snagging or damage.	
	HV WARNING STICKERS	
>	Check for warning stickers on HV containing enclosures.	145 O Power Distribution box(es).
143 🔾	Battery/batteries.	146 C Energy meter box.
144 🔾	Inverter(s).	147 Other HV containing enclosures.
	TRACTIVE SYSTEM PROTECTIONS	
>	Check opening in HV enclosures, try to reach HV potentials	149 \bigcirc TS components and containers protected from moisture.
	with insulated test probe.	Check materials and thickness of motor housings.
148 🔾	Not possible to reach any HV potentials.	150 \bigcirc Thickness \geq 3 mm (Aluminium) or \geq 2 mm (Steel).
	HIGH VOLTAGE DISCONNECT	
	Clearly marked with "HVD".	155 Integrated interlock.
	Distance to ground greater than 350 mm.	Stand next to the car, remove HVD.
	Easily visible while standing behind the car.	156 Removed within 10 s.
154 🔾	No remote actuation (e.g. through wires).	157 O TS protection still given (insulated test probe).

 $^{200\,}V_{DC} < U_{max} \leq 400\,V_{DC}$ 10kOhm $400\,V_{DC} < U_{max} \leq 600\,V_{DC}$ 15kOhm $\begin{array}{l} U_{max} \leq \text{200}\,V_{DC} \\ \text{5kOhm} \end{array}$





☐ ENERGY METER	
158 C Energy meter is enclosed in a housing.	159 \bigcirc All energy from accumulator flows through the energy meter.
☐ TRACTIVE SYSTEM ACTIVE LIGHT	
160 O Mounted below highest point of the main roll hoop.	161 O Visible by a person standing 3 m away from TSAL (1.6 m eye height).
□ FIREWALLS	
 Seperates driver compartment from any HV component (including HV wiring) 162 behind the driver's back. 163 at the sides of the driver. 	 166 First layer, facing TS must be made of Aluminum with a thickness between 0.5 and 0.7 mm. 167 Second layer, facing driver must be made of electrically insulated material.
164 \bigcirc at the front of the car.	168 O Material meets UL94-V0, FAR25 or equivalent.
165 O Composed of two layers.	169 O Not made from CFRP.
☐ TORQUE ENCODER	
 170 Returns to original position if not actuated. 171 At least two sensors are installed. 172 Sensors do not share supply or signal lines. 173 Sensors are protected from beeing mechanically overstressed 	 (positive stop of pedal). 174 Minimum two springs installed to return pedal. 175 Each spring still returns pedal with the second one disconnected (springs in the torque encoders not counted.
☐ BRAKE SYSTEM	
176 ○ Brake pedal position sensor or brakepressure sensor installed. ▶ Push brake pedal.	177 Maximum of 90 % of pedal travel without activation of hydraulic brake system.
□ BRAKELIGHT	
 178 Only one brakelight. 179 Red color. 180 Clearly visible from behind the car. 181 Located on vehicle centerline. 182 Height between wheel centerline and drivers shoulder. 	 183 Round, triangle, or rectangular on black background. 184 15 cm² minimum illuminated area OR LED strips with a total length greater than 150 mm with elements closer than 20 mm apart. 185 Sufficient brightness even in bright sunlight.
☐ INSULATION MEASUREMENT TEST	
▶ Choose test voltage 2 .▶ Connect insulation tester to HVMP+ and GLVMP.▶ Measure resistance: $R_{iso+} =$ kOhm186 ○ Resistance is higher than 500 Ohm/V · U_{max} .	▶ Connect insulation tester to HVMP- and GLVMP.▶ Measure resistance: $R_{iso-} =$ kOhm187 ○ Resistance is higher than 500 Ohm/V · U_{max} .188 ○ Resistances are nearly equal. If not, team has explanation.

 $[\]begin{array}{ccc} & U_{max} \leq 250\, V_{DC} & U_{max} > 250\, V_{DC} \\ & U_{Test} = 250\, V_{DC} & U_{Test} = 500V_{DC} \end{array}$

ELECTRIC INSPECTION SHEET





☐ GROUNDING CHECKS Part (if applicable) Conductive (max. May become conductive Value $[m\Omega]$ $300 \, \text{m}\Omega \, @ \, 1 \, \text{A})$ (max. $5\Omega@0A$) Frame / Monocoque П П Х Firewall(s) Accumulator container Х Seat mounting points Driver harness mounting points Χ Conductive housings with TS parts inside Steering wheel surface П П Pedal box Main Roll Hoop Suspension Front left Suspension Front right П П Suspension Rear left Suspension Rear right Driver Controls / Switches / Etc. External Heat Sink П П Carbon fiber parts typically touched when trying to move the car with TS deactivated Accumulator Management System Data Connector П П Radiator Additional Part: !! TEST AT HIGH VOLTAGE !! ☐ TRACTIVE SYSTEM POWER-UP ► All driven wheels are off the ground, driven wheels removed. Activate TS, measure TS voltage during TS power-up. Switch on TSMS with GLVMS deactivated. 191 O System is precharged before second AIR closes. 189 O Voltage at HV measurement points less or equal 60 VDC. Switch off GLVMS. Switch on GLVMS with TSMS deactivated. 192 O TS shuts down. 190 O Voltage at HV measurement points less or equal 60 VDC. ☐ TRACTIVE SYSTEM SHUTDOWN ► Connect multimeter between HV+ and HV-. 195 O Shutdown button right. For every of the following switches, deactivation leads to TS 196 Ockpit shutdown button. shutdown, voltage decreases below 60 VDC within 5 s. 197 O Inertia switch. 193 O TSMS. 198 O Break-over-travel-switch. 194 O Shutdown button left. 199 O Interlocks. ☐ TRACTIVE SYSTEM INDICATORS Activate TS. ► Deactivate TS, deactivate GLVS, connect power supply >60 VDC3 to TS4 200 O TSAL flashes. Activate GLVS. 201 O TSAL is a red light. 204 O TSAL is activated. 202 \bigcirc TSAL flashes continuously with freq 2 Hz - 5 Hz. ▶ Disconnect power supply, remove HVD, override HVD inter-

203 O TSAL is clearly visible (horizontal position).

205 O TSAL is activated.

lock (!! cover HV potentials !!), activate TS.

 $^{^3}$ 25 V_{AC} equal 42.5 V_{DC} when the signal is sinusoidal.

⁴Do not use measuring points. The team needs to provide a method of connection which uses receptacles according to EV4.4.4.

ELECTRIC INSPECTION SHEET





		3.333
	INSULATION MONITORING DEVICE	
>	R_{Test} = (max. TS voltage · 250 Ohm/V) - BPR · R_{Test} = · 250 Ohm/V = kOhm IMD indicator light	215 ○ Reactivation of TS is not possible. ▶ Remove R _{Test} . Wait 40 s until IMD resets status output.
_	is inside the cockpit.	216 Reactivation of TS is not possible.
_	is red.	Push all reset buttons in the cockpit, if any.
_	is marked with IMD.	217 Reactivation of TS is not possible.
_	is visible in bright sunlight.	Push the IMD reset button which is not accessible to the driver if any.
_	is visible for the driver.	218 Reactivation of TS is possible.
	Activate TS, connect R_{Test} between HV+ and GLVS GND.	► Push and hold the IMD reset button which is not accessible
_	Shutdown circuits opens within 30 s.	to the driver, if any. Connect R_{Test} between HV+ and GLVS
_	IMD indicator light illuminates.	GND.
	TS voltage decreases below 60 VDC within 5 s after shutdown	219 O Shutdown circuits opens within 30 s.
	circuit opens.	220 O IMD indicator light illuminates.
214 🔾	Reactivation of TS is not possible.	$lacktriangle$ Activate TS, connect R_{Test} between HV- and GLVS GND.
•	Push the reset button which is not accessible to the driver, if any.	221 O Shutdown circuits opens within 30 s.
	ACCUMULATOR MANAGEMENT SYSTEM	
•	AMS indicator light	226 🔾 is visible for the driver.
222 🔾	is inside the cockpit.	Ask the team to connect their laptop to the AMS.
223 🔾	is red.	227 O Cell voltages can be displayed.
224 🔾	is marked with AMS or BMS.	228 O Cell temperatures can be displayed.
225 🔾	is visible in bright sunlight.	
	READY TO DRIVE ACTIVATION SEQUENCE	
>	Activate TS, press torque pedal.	231 O Activation of tractive system is not possible.
	No turning of motors.	232 O Ready to drive sound duration is 1 s to 3 s.
>	Let the team set the car to ready to drive mode.	233 O Ready to drive sound is min 80 dBA (2 m around the car).
230 🔾	Pressing brake pedal during the activation sequence is nec-	234 O Ready to drive sound is easy recognizable.
	essary.	235 O Ready to drive sound is no animal sound or song part.
>	Disconnect the brake sensor.	
	IMPLAUSIBILITY CHECKS	
>	Set car to ready to drive state. Press torque pedal >25%. Push brake pedal.	► Get motors turning, disconnect ≥ 50 % of torque encoders while motors turn.
236 (Motors stop turning.	239 O Motors stop turning.
_	Release brake, while torque pedal still activated.	► Team simulates 5kW power, press brake representing hard
	Motors do not turn.	braking (>0.5 s).
	Release torque pedal slowly.	240 O TS shuts down.
	Motors turn again when torque pedal position is <5%.	241 O Reactivation of TS is not possible.
	REGENERATIVE BRAKING	
	Ask the team to mount one driven wheel.	activating hydraulic brake system.
•	Set car to ready to drive state, press brake slightly without	
	SEALING OF COMPONENTS	
	After all tests have been passed successfully seal the in-	246 O TSAL circuitry housing
040 ^	spected TS housings:	
243 🔾	Motor Controller housing	247 O Additional Part:

☐ ENERGY METER

244 C Energy Meter housing 245 IMD housing

► Check energy meter connectivity. This may be done after electrical scrutineering.

248 O Additional Part:

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NON-COMPLIANCE / COMMENTS

APP	ROVAL		
	Scrutineer Names	Date, Time	Signatures when passed
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ELECTRIC INSPECTION SHEET





PART IV: MECHANICAL INSPECTION

The time limit for this part of the inspection is 60 minutes. Continuation of the inspection is possible after requeueing. During technical inspection all work carried out on the car must be approved by a scrutineer.

☐ CAR WITH DRIVER READY TO RACE

- 249 O PUSH BAR With car, securely attached to car, detachable, push & pull function for 2 people standing erect. The push bar must be located behind the rear axle when the car is moved. FIRE EXTINGUISHERS, 2 pair of HV gloves in protecting case and Multimeter must be installed.
- 250 CAMERAS If >0.25 kg, must be secured by two points, see T14.15. No cameras mounted to helmet.
- 251 VISIBILITY Minimum of 100 deg. field either side. Head rotation allowed or mirrors. If mirrors, must be firmly installed and adjusted
- 252 VEHICLE CONTROLS All controls, including shifter, must be inside cockpit. No arms or elbows outside side impact system to actuate.
- 253 MAIN HOOP & FRONT HOOP HEIGHTS Helmet of tallest driver to be 50 mm below line between top of front and main roll hoop AND between top of main hoop to rear attachment point of main hoop bracing.
- 254 O ROLL BAR PADDING Roll bar or bracing that could be hit by driver's helmet must be covered with 12 mm thick, SFI or FIA

- (hard) padding. Pipe insulation and foam NOT acceptable.
- 255 OTHER SIDE TUBES Design prevents driver's neck hitting bracing or other side tubes
- 256
 ARM RESTRAINTS Must be installed so the driver can release them and exit unassisted regardless of vehicle's position.
- 257 HEAD RESTRAINT- Near vertical. Must take 890 N load. 38 mm thick, energy absorbing padding. Max. 25.4 mm from helmet. Helmet contact point 50 mm min. from any edge. May be changed for different drivers. Minimum 150x150mm AND height adjustment of 175 mm; OR minimum 150 x 280mm
- 258
 GROUND CLEARANCE Sufficient to prevent any portion of the car from touching the ground during track events 30 mm min.
- 259 C EGRESS 5 seconds max. to actuate cockpit master switch and exit to side of vehicle, from fully seated position with all safety equipment; wings must remain fixed in position. ALL DRIVERS.

☐ CAR WITHOUT DRIVER

- 260 O BODYWORK EDGES edges that could contact a pedestrian must have a minimum radius of 1.0 mm (safety requirement)
- 261 O BODY & STYLING Open wheeled, open cockpit, formula style body. Vertical keepout zones 75mm in front and behind tires (no aero exceptions), tires unobstructed from sides.
- 262 BODYWORK Min. 38 mm radius on nose. No large openings in bodywork into driver compartment in front of or along-side driver, (except cockpit opening).
- 263 SEAT Insulated against heat conduction, convection and radiation. Lowest point no lower than bottom of side rails OR must have longitudinal, 25.4 x 1.65mm steel tube underneath.
- 264 DRIVER RESTRAINT HARNESS SFI 16.1, SFI 16.5 or FIA spec 5, 6 or 7 point and be labeled. 50 mm wide shoulder belts OK with HANS. 50 mm lap belts OK for FIA & SFI 16.5, not OK for SFI 16.1. All lap belts must have Quick Adjusters. Reclined drivers must have a 6 or 7 point, and Quick Adjuster sub-belts or 2 sets of sub belts. Must securely attached to prim. structure (25,4x2,4 or equal.)
- 265 LAP BELT MOUNTING Must pass over pelvic area between 45 - 65 deg. to horizontal for upright driver, 60-80 deg. for reclined. Pivoting mounting with eye bolts or shoulder bolts attached securely to Primary Structure. Min. tab thickness 1,6 mm.
- 266 SHOULDER HARNESS MOUNTING Mounting points 178 229 mm apart. Angle from shoulder between 10 deg. up and 20 deg. down to horizontal. Attach to Primary Structure 25,4 x 2.4 mm or 25.0 mm x 2.5 mm steel tube min. NOT to put bending loads into Main Hoop Bracing without extra bracing. Additional braces if not straight to main hoop. Cannot pass through a firewall.
- 267 SCHOOL NAME & OTHER DECALS School Name, or recognized initials 5.1 cm tall min. on both sides in Roman letters. Must be clearly visible.
- 268 CAR NUMBERS On front & both sides of car, minimum 15.24 cm tall, 18 mm stroke & spacing, Black on White, White on Black only, specified background shapes. Must be clearly visible.
- 269 O TECH STICKER SPACE 7.5cm x 15 cm on centerline of front

- of car in front of the cockpit opening
- 270 BRAKES Dual hydraulic system & reservoirs, operating on all four wheels, (one brake on limited slip is OK). System must be protected by structure or shields from drivetrain failure or minor collisions. No plastic brake lines. No brake-by-wire. No parts below chassis/tub in side view. Brake pedal capable of 2000N, no failures if official exerts max force (seated normally in vehicle).
- 271 COCKPIT OPENING Fig. 8 template passes down from above cockpit centre line of top SIS tube or to 350 mm above ground for monocoque. Steering wheel & column, seat & padding can be removed. No removing of firewall.
- 272 SUSPENSION Fully operational with dampers front and rear; 50mm minimum wheel travel (25 mm jounce and 25 mm rebound) with driver in vehicle.
- 273
 STEERING WHEEL Continuous perimeter, near round (no concave sections) with driver operable quick disconnect. 25cm max from front hoop.
- 274 WINGS securely mounted, should not wiggle when gently touched, especially side-to-side. The deflection may not exceed 25 mm when a force of 200 N is applied Not extending further than the rear portion of the head restraint (in rearmost position).(permanent deflection < 5 mm).
- 275 WING EDGES Horizontal leading edges min 5 mm radius; vertical forward facing edges min 3 mm radius. Edges that could contact a pedestrian must have a minimum radius of 1.0 mm (safety requirement).
- 276 AERODYNAMICS ALL aero devices, wings, u/trays, splitters, maximum 70 cm forward of front tires, maximum 250 mm rearward of rear tires. Front wings no wider than outside of front tires. REAR WINGS no wider than INSIDE of rear tires. Undertrays no wider than line between front and rear tires. No power ground effects.
- 277 AERO VERTICAL HEIGHT Rear wing max 1.2 m above ground (incl. end plates); Front wing max 250 mm above ground but higher end plates are OK if < 25 mm thick. No bodywork or aero higher than 500 mm between axles (except center 800 mm of car ie: cockpit panels.).

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☐ REMOVE BODY PANELS

- 278 O PERCY Helmet of 95th percentile male (PERCY) to be 50 mm below the lines between top of front and main roll hoops and between top of main hoop to rear attachment point of main hoop bracing. Center of bottom circle placed minimum 915 mm from pedals.
- 279 O TUBING & MATERIALS Team must show an APPROVED SES. No Magnesium tubes in primary structure.
- 280 MONOCOQUE Must see laminate test specimen. Steel backing plates (>2mm thick) used at attachment points.
- 281 \bigcirc **BOLTED JOINTS** in primary structure Distance hole centerline to the nearest free edge > 2 x hole diameter.
- 282 MAIN HOOP MUST BE STEEL. 25.4 x 2.4mm or 25.0 x 2.5mm. Must be 1 piece & extend to lowest frame member. 380 mm apart (inside dim.) where attaches to the Major Structure. Above Major Structure, must be within 10 deg. of vertical. Smooth bends without wrinkles.
- 283 MAIN HOOP BRACING MUST BE STEEL. One straight brace on each side, 25.4mm x 1.65mm or 25.0 mm x 1.75mm or 25.4 mm x 1.60mm min., attached within 160 mm of top. Min. 30 deg. included angle with hoop. If main hoop is not vertical, bracing must not be on same side of vertical as main hoop. No bends. No rod-ends. Proper construction for removable braces (capping etc.) on BOTH ENDS. Must take load back to bottom of main hoop and node of upper sideimpact tube through proper triangulated structure. (25.4 mm x 1.2 mm or equivalent)
- 284 FRONT HOOP Must be closed section metal tube. Can be multi-piece. Must extend down to lowest frame member. No lower than top of steering wheel. Max. 20 deg. to vertical. 25.4 x 2.4 mm or 25.0 x 2.5 mm wall steel or equiv. Longitudinal distance to steering wheel max. 250 mm
- 285 FRONT HOOP BRACING Two forward facing braces, 25.4 x 1.65mm or 25.0 x 1.75mm or 25.4 x 1,6mm wall steel or equivalent, attached within 50 mm of top. Extra rearward bracing required if Front Hoop leans backwards more than 10 deg.
- 286 O DRIVER'S LEG PROTECTION Covers inside cockpit over sharp and moving suspension and steering components.
- 287 COCKPIT INTERNAL CROSS SECTION Fig. 9 template passes forward from cockpit to 100 mm rear of pedals (in most forward position). Steering wheel and padding removable with no tools & driver-in can be removed.
- 288 O DRIVER'S FOOT PROTECTION Feet must be rearward of the Front Bulkhead and no part of shoes or legs above or outside the Major Structure (25x1.2 or equivalent) in side or front views when touching.
- 289 SIDE IMPACT PROTECTION Min. of two (2) tubes + diagonal must connect the main and front hoops in straight line. Upper tube must be between 300 mm and 350 mm above the ground with driver in car. Lower tube can be lower frame member. At least one diagonal per side must connect the upper and lower members between the main and front hoops.

- Dimension as shown in approved SES. Monocoques require signed SES.
- 290 FRONT IMPACT PROTECTION Feet must be completely within Major Structure & rearward of the Front Bulkhead (25.4 x 1.65mm or 25.0 x 1.75 mm or 25.4 x 1.60 mm steel tube or equiv.) No non-crushable objects forward of bulkhead. IMPACT ATTENUATOR forward of bulkhead, 200mm long x 200mm wide x 100mm high. No wing supports through the IA. IA must be securely fastened directly to AIP capable of taking transverse & vertical loads (no tape, etc.) Test piece presented and same as IA on car. Standard IAD: Requires diagonal brace if bulkhead >1" from IAD on any side.
- 291 ANTI INTRUSION PLATE A 1.5 mm solid steel metal or 4.0 mm solid aluminium metal sheet (same size as outside dims.) must be welded or min. four screws M8 Grade 8.8. CFRP plate is accepted if SES approved.
- 292 FRONT BULKHEAD SUPPORT Support back to front roll hoop; 3 tubes per side, all 25.4 mm x 1.65 mm wall steel tube or equiv. 1 bottom; 1 top within 50 mm of top of bulkhead, and connecting within 100 mm above and 50 mm below upper SIS tube; 1 or more node-to-node diagonal to completely triangulate connections to upper and lower SIS tubes. (25.0 mm x 1.5 mm and 26.0 mm x 1.2 mm metric tubes OK)
- 293 O INSPECTION HOLES 4.5 mm inspection holes req'd in noncritical areas of front & main hoops. Inspectors may ask for holes in other tube(s).
- 294 STEERING All steerable wheels must have positive stops to prevent linkage lock up or tires from contacting any part of the car. 7 degrees max. free play at the steering wheel. NO STEER-BY-WIRE on front wheels. Rear wheel steering, max. 6 deg. and mechanical stops installed. No bonded joints in steering column.
- 295 JACKING POINT an exposed tube at the rear perpendicular to the longitudinal axis 30 cm long by 2,5-2,9 cm O.D. Painted orange. Visible to person standing 1 metre behind car. Rear tires must come off the ground least 102 mm
- 296 WHEELS 203.2 mm (8") min. diam. No Aluminium or hollow wheel bolts. Single retaining nut must incorporate a device to retain the nut. Aluminum wheel nuts must be hard anodized.
- 297 FIREWALL Fire resistant material; must separate driver compartment from cooling & oil systems. Pass-throughs OK with grommets. Multiple panels OK if gaps sealed. No gaps at sides or bottom. Must protect (line-of-sight up to 100 mm from bottom of driver's helmet) from cooling and oil systems. If used a non-metal material for the firewall (i.e. carbonfibre, fibreglass etc) a fire resistant heat protection shield with a metal surface must be fitted. Protect against tractive system components incl. HV wiring. On tractive side 0.5-0.7 mm aluminium plate grounded, on the driver side a rigid insulating layer (no CFRP) UL94-V0 or equivalent should be installed that can withstand a 250N 4mm screwdriver penetrating test.

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☐ CAR LIFTED AND WHEELS REMOVED

- 298 SUSPENSION PICK-UP POINTS Inspected thoroughly for integrity.
- 299 FASTENERS Steering, braking, harness and suspension systems must use SAE Grade 5 or Metric Grade M8.8 or higher specs (AN/MS) with visible positive locking mechanisms, no Loctite or lock washers. Minimum of 2 exposed threads. Rod ends in single shear are captured by a washer larger than the ball diameter. Adjustable tie-rod ends must have jam nuts to prevent loosening. No Nylon lock nuts for Brake calipers or Brake discs. No button head cap, pan head or round head screws in critical locations, e.g cage structure or harness mount. Primary structure e/D >2.
- 300 FLOOR CLOSEOUT PANEL Required from foot area to firewall; solid, non-brittle material; multiple panels are OK if gaps less than 3.18 mm.
- 301 GAS CYLINDERS Proprietary manufacture & labeled, Non-flammable gas, regulator on tank, securely mounted, axis not pointed at driver, to rear of Main Hoop within the frame envelope, or in structural side pod, but not in cockpit, insulated from exhaust, appropriate lines & fittings. Positively retained, i.e. no tie-wraps.
- 302 SCATTERSHIELDS GENERAL Required for clutches, chains, belts, etc. No holes. 6mm diam. M8.8 diam. or Grade 5 fasteners minimum. End parallel to lowest part of the sprocket/pulley in front and rear.
- 303 O SCATTERSHIELD MATERIALS For chains, 2.7mm min. thick solid STEEL, 3 x chain width. For belts, 3mm min. thick Al 6061-T6, 1.7 x belt width. Finger guards: cover all drivetrain parts that spin while car is at rest. No holes >12 mm dia.
- 304 O BATTERY Attached securely to frame or chassis; hot terminal insulated; wet-cells in marine box if inside cockpit; must be identifyable as Pb (not Li batteries,) otherwise show mfr datasheet and mfr protection circuit info. No circuits > 60 VDC. Li battery behind firewall.
- 305 HIGH PRESS HYDRAULICS Pumps and lines must have 1 mm thick steel or aluminium shields to protect driver and workers.
- 306 COOLANT 100% water. NO ADDITIVES WHATSOEVER or oil for electric motors.
- 307 O CATCH TANKS Any coolant overflow or lube system vents

- must have separate catch tanks. 0.9 I minimum each, 100 deg. C material, behind firewall, below shoulder level. 3 mm min. dia. vent away from driver down to the bottom level of frame. Trans or diff., unless sealed, requires 50 ml catch bottle.
- 308 O FLUID LEAKS Oil, grease, coolant, Brake fluid -> none permitted
- 309 ACCUMULATOR CONTAINER POSITION All accumulator containers must lie within the major structure of the frame. All accumulator containers must be protected from side or rear impact collisions. If an accumulator container or parts of it are mounted outside of the major structure (EV.3.4.3, EV 3.4.4) an additional impact structure according to FSAE rules T3.4 must be build to protect the accumulator.
- 310 ACCUMULATOR CONTAINER ATTACHMENT All accumulator containers must be attached to the major structure of the chassis with min. M8 grade 8.8 fasteners or stronger:

 Up to 20kg 4 fasteners

 20kg-30kg 6 fasteners

 30kg-40kg 8 fasteners

 over 40kg 10 fasteners
 - Brackets 1.6 mm steel or 4 mm aluminium with gussets to withstand bending loads. Monocoque needs 2 mm steel backing plates or equivalent, mentioned in SES.
- 311 O PROTECTION OF TRACTIVE SYSTEM PARTS In side view no part of the tractive-system can project below the lower surface of the frame or the monocoque, whichever is applicable
- 312 O PROTECTION OF TRACTIVE SYSTEM PARTS All parts belonging to the tractive system including cables and wiring must be contained within the envelope of any part of the frame which is made from any regulated tubing defined in T3.4. If tractive system parts are mounted in a position where damage could occur from a rear or side impact (below 350mm from the ground), they have to be protected by a fully triangulated structure with tubes of a minimum outer diameter of 25.4mm and a minimum wall thickness of 1.25mm or equivalent
- 313 O MOTOR CASING 3 mm Aluminium 6061-T6 or 2 mm steel. If rotating around the stator or the motor case is perforated a scatter shield around the motor should be installed of 1 mm 6061-T6 aluminium or steel.

NON-COMPLIANCE / COMMENTS

APP	ROVAL		
	Scrutineer Names	Date, Time	Signatures when passed
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ELECTRIC INSPECTION SHEET



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P	ART V: TILT TABLE TEST				
	TILT TABLE TEST				
314 🔾	LIQUID SPILLAGE - No fuel spill permitted when car is tilted to 45 degrees in the direction most likely to create spillage. Tanks must be filled to scribe line.	315 🔾		ABILITY - All wh 60 degrees to the	neels in contact with tilt table horizontal.
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P	ART VI: RAIN TEST				
	RAIN TEST				
	RAIN PROOF - The car is lifted off the ground. Tractive syster	n has to	be active (TSA	L ON). Water like	rain will be sprayed at the car
	for 120 sec. Passed if the Insulation Monitoring Device does not react and rain test. No driver is allowed to sit in the car during the test. To				N) during and 120sec after the
NO	ON-COMPLIANCE / COMMENTS				
AF	PROVAL Scrutineer Names			Date, Time	Signatures when passed
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P	ART VII: BRAKE TEST				
	BRAKE TEST				
317 🔾	BRAKING PERFORMANCE - Must lock-up all four wheels or tractive system has to be shut down by the driver before braking shortly after the Car stopped (may take up to 5 sec. after shut	ng. The			
NO	N-COMPLIANCE / COMMENTS				
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