CV Inspection Sheet

University:

Vehicle Number:



This form must stay with the vehicle at all

# **Summary Sheet**

| Number of drivers:            |             |              | onflict between this form                        |
|-------------------------------|-------------|--------------|--|
| Tallest driver:               | Height:     |              | i, the rules prevail<br>just a guideline for the |
| LSV Voltage:                  |             | scrutineers! | just a guideline for the                         |
| PART I: Mechanical II         | nspection   | Data Tima    | Cimakus  |
| Inspector Names  1            |             | Date, Time   | Signature  |
| <b>PART II: Driver Egress</b> | s and Safet | y Test       |  |
| Inspector Names  1.           |             | Date, Time   | Signature  |
| PART III: Tilt Test           |             |              |  |
| Inspector Names  1.           |             | Date, Time   | Signature  |
| PART IV: Vehicle Weight       | ghing       |              |  |
| Inspector Names  1.           |             | Date, Time   | Signature  |
| PART V: Noise Test            |             |              |  |
| Inspector Names  1.           |             | Date, Time   | Signature  |
| PART VI: Brake Test           |             |              |  |
| Inspector Names  1.           |             | Date, Time   | Signature  |
| PART VII: Post Event I        | Inspection  |              |  |
| Inspector Names               | •           | Date, Time   | Signature  |

NOTES:



CV Inspection Sheet



# **MECHANICAL INSPECTION**

| Engine:   | Bore / Stroke:  |
|---|---|
| Fuel Type:  | ABS: ETC:   |
|   |   |
| Dry Tyres:  | Rain Tyres:<br>(2,4 mm min. tread depth molded)   |
|   |   |
| <b>VEHICLE WITH TALLEST DRI</b>   | <b>VER IN AND READY TO RACE</b>   |
| SCRUTINEER LI   | EADER'S SHEET   |
|   |   |
| MAIN HOOP & FRONT HOOP HEIGHTS - Helmet of 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.  | DRIVER RESTRAINT HARNESS - SFI 16.1, SFI 16.5 or FIA 8853/98 spec 6 or 7 point and be labeled. 50 mm wide shoulder belts OK with HANS. 50 mm lap belts OK for FIA 8853/98 & 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. |
| DRIVER FLUID PROTECTION - A firewall must extend sufficiently   | Must be securely attached to prim. structure (25,4x2,4 or equal.)   |
| far upwards and/or rearwards such that any point, less than <b>100mm</b> above the bottom of the helmet of the tallest driver, is not in direct line of sight with any of the following parts: fuel system, engine oil system, cooling system and low voltage battery.  | LAP BELT MOUNTING - Must pass over pelvic area between 45 - 65 deg. to horizontal for upright driver, 60-80 deg. For reclined. The lap belts must not be routed over the sides of the seat. Pivoting mounting with eye bolts or shoulder bolts attached securely to   |
| HEAD RESTRAINT- Near vertical. Must take 890 N load. 40 mm thick, SFI 45.2 standard. Max. 25 mm from helmet. Helmet contact point 50 mm min. from any edge. May be changed for different drivers. Minimum 150x150mm and SFI Standard 3.3 or equivalent  | Primary Structure. Min. tab thickness <b>1,6 mm</b> . Attachment brackets to the monocoque must be steel, see T5.3.2.   |
| material.   | ► BRAKE PEDAL - Ask the driver to kick the brake pedal with   |
| ARM RESTRAINTS - Must be installed so the driver can release  | max force  Brake pedal capable of 2000N, no failures if driver exerts max   |
| them and exit unassisted regardless of vehicle's position.  | force (seated normally in vehicle).   |
| SHOULDER HARNESS MOUNTING - Mounting points 180 - 230 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. Attachment brackets to the monocoque must be steel. |   |

## **NON-COMPLIANCE / COMMENTS**

OTHER SIDE TUBES - Design prevents driver's neck hitting

bracing or other side tubes.



CV Inspection Sheet



### VEHICLE WITH TALLEST DRIVER IN AND READY TO RACE

| AERODYNAMIC DEVICES - Securely mounted. The deflection may not exceed 10 mm when a force of 200 N is applied over a surface of 225 cm2 and not more than 25 mm with a point force of 50 N is   | VISIBILITY - Minimum of 100 deg. field either side. Head rotation allowed or mirrors. If mirrors, must be firmly installed and adjusted.              |
|--|---|
| applied. Not extending further than the rear portion of the head estraint (in rearmost position).(permanent <b>deflection &lt; 5 mm).</b>  | ROLL BAR PADDING - Roll bar or bracing that could be hit by driver's helmet must be covered with 12 mm thick, SFI spec 45.1 or FIA 8857-2001 padding. |
| AERODYNAMICS - ALL aerodynamic devices maximum 250 mm earward of rear tires, maximum 700 mm forward of front tires. Devices lower than 500 mm from the ground rearward of the front axle must be no wider than vertical plane from the outside of the front and rear tires. Devices higher than 500 mm behind the front axle must be wider than the inside of the rear tires. No power ground effects.                       | CAMERAS - Must be secured by two points, see T13.5. No cameras mounted to the helmet.   |
| AERO VERTICAL HEIGHT - Devices forward of a vertical plane through the rearmost portion of the front face of the driver head restraint support, excluding any padding, set to its most rearward position, must be lower than 500 mm from the ground. Rear device max 1.2 m above ground (incl. end plates); Front device max 250 mm above ground outside of the inside plane of the front tires inside this plane max 500 mm |   |
| REAR WING TO BRACING ATTACHMENT - attachment to the main hoop bracing needs a support back to the main hoop except if an attachment is next to the main hoop bracing attachment (no more than 50 mm).  |   |

## **NON-COMPLIANCE / COMMENTS**



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## VEHICLE WITH TALLEST DRIVER IN AND READY TO RACE

| PUSH BAR (red color) - With vehicle, securely attached to vehicle, detachable, push & pull function for 2 people standing erect. The push bar must be attached to the rear of the vehicle for moving it   | SUSPENSION - Fully operational with dampers front and rear; 50mm minimum wheel travel (25 mm jounce and 25 mm rebound) with driver in vehicle. |
|---|--|
| QUICK JACK (red color) - One device must be available to lift up all driven wheels min. 100 mm above the ground. Lifting the car must be possible by one person. In lifted position the quick jack must be locked/secured and function without the support of a person or additional weights. | . VEHICLE CONTROLS - All controls, including shifter, must be inside cockpit. No arms or elbows outside the SIS plane.                         |
| FIRE EXTINGUISHERS - Two (2) hand-held, 0.9 kg (2 lb.) minimum, dry chemical (10BC, 1410BC, 34B, 5A 34B, 20BE or 1A 10BE), with pressure/charge gauge,, 1 WITH VEHICLE securely installed on pushbar, 1 in paddock.   |  |

### **NON-COMPLIANCE / COMMENTS**





### VEHICLE WITHOUT DRIVER

#### SCRUTINEER LEADER'S SHEET

#### FRONT HOOP BRACING - Two straight forward facing braces, 25.4 PRIMARY STRUCTURE 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 (Remove Body Panels / Seat) Front Hoop leans backwards more than 10 deg. PERCY - Helmet of 95th percentile male (PERCY) to be 50 mm **DRIVER'S FOOT PROTECTION** - Feet must be rearward of the below the lines between top of front and main roll hoops and Front Bulkhead and no part of shoes or legs above or outside the between top of main hoop to rear attachment point of main hoop Major Structure (25x1.2 or equivalent) in side or front views when bracing. Center of bottom circle placed minimum 915 (865 for DV touching the pedals. only) mm from pedals SIDE IMPACT PROTECTION - Min. of 2 tubes + 1 diagonal must COCKPIT OPENING - Fig. 8 template passes down from above connect the main and front hoops in straight line. Upper tube must be cockpit center line of top SIS tube or to 320 mm above lowest inside between 240 mm and 320 mm above lowest inside chassis point chassis point between FH and MH. Steering wheel, seat & padding can be removed. No removing of firewall. between FH and MH. 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 COCKPIT INTERNAL CROSS SECTION - Fig. 9 template passes approved SES. from the cockpit opening to 100 mm rear of rearmost pedal contact area (in most forward position). Steering wheel and padding removable with no tools & driver-in can be removed. FRONT BULKHEAD SUPPORT - Support back to front roll hoop; 3 tubes per side, all 25 mm x 1.5 mm wall steel tube or equiv. 1 bottom: SEAT - Insulated against heat conduction, convection and 1 top within 50 mm of top of bulkhead, and connecting within 100 mm above and ${\bf 50}$ mm below upper SIS tube; 1 or more node-to-node radiation. Lowest point no lower than top of of the upper surface of diagonal to completely triangulate connections to upper and lower SIS the lowest SIS member OR must have longitudinal, 25.4 x 1.65mm ( ) INSPECTION HOLES - 4.5 mm inspection holes required in non-TUBING & MATERIALS - Team must show an APPROVED SES. No critical areas of front & main hoops. Inspectors may ask for holes in Magnesium tubes in primary structure. other tube(s). MONOCOQUE - Must see laminate test specimen. Steel backing FRONT IMPACT PROTECTION - Feet must be completely within plates (2mm thick) used at attachment points. Major Structure & rearward of the Front Bulkhead. No non-crushable objects forward of bulkhead. IMPACT ATTENUATOR forward of MAIN HOOP - MUST BE STEEL. Check dimension as shown in bulkhead, 200mm long x 200mm wide x 100mm high. No wing approved SES. Must be made of one piece and extend to lowest frame supports through the IA. IA must be securely fastened directly to AIP member. Above Major Structure, must be within 10 deg. of vertical capable of taking transverse & vertical loads (no tape, etc.) Test piece plane. Smooth bends without wrinkles. presented and same as IA on vehicle. Standard IA: Requires diagonal brace if bulkhead >1" from IA on any side. MAIN HOOP BRACING - MUST BE STEEL. One straight brace on each side. Attached within 160 mm from the top. Min. 30 deg. ANTI INTRUSION PLATE - A 1.5 mm solid steel metal or 4.0 mm Included angle with hoop. If main hoop is not vertical, bracing must not be on same side of the vertical plane as the main hoop. No bends. solid aluminium metal sheet (same size as outside dims.) must be No rod-ends. Must take load back to bottom of main hoop and node welded or min. 8 screws M8 Grade 8.8 (critical fasteners T10). CFRP of upper side impact tube through proper triangulated structure. (25.4 plate is accepted if SES approved. mm x 1.2 mm or equivalent) DRIVER'S LEG PROTECTION - Covers inside of cockpit over any BOLTED JOINTS in primary structure - Distance hole centerline to sharp edges or moving suspension / steering components. the nearest free edge > 1.5 x hole diameter. FRONT HOOP - Must be closed section metal tube. Can be multipiece with gussets or additional attachments to the monocogue. Must extend down to lowest frame member. No lower than top of steering wheel. Max. 20 deg. to vertical. Check dimension as shown in approved SES.



BELLYPAN VENTING HOLES - Enclosed chassis structures and structures between the chassis and the ground must have two venting holes of at least 25mm diameter in the lowest part of the structure to prevent accumulation of liquids. Additional holes are required when

multiple local lowest parts exist in the structure.

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### **ENGINE COMPARTMENT** FIREWALL - Fire resistant material; must separate driver compartment from cooling, oil system & LV battery. Passthroughs OK THROTTLE - Must have minimum of 2 springs (1 spring when ETC installed) at the throttle body, each capable of closing the throttle with grommets. Multiple panels OK if gaps (3mm) sealed. No gaps at sides or bottom. Must be rigidly mounted to the chassis. Material independently. TPS not acceptable as a return spring. Cable must have must meet UL94-V0, FAR25 or equivalent. smooth operation with no binding or sticking; min. 50 mm from any exhaust component. AIR INTAKE SYSTEM ROLL OVER PROTECTION - All parts of air $\begin{picture}(60,0)\put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$ intake system (including throttle body or carb, air intake ducting, air cleaner & air box) must be within a surface defined by the top of the overstressing cable. roll bar and the outside top edge of the tires. CATCH TANKS - Any coolant overflow or lube system vents must AIR INTAKE SYSTEM - Any portion < 350 mm above ground must have separate catch tanks. 0.9 I minimum each, 100 deg. C material, have Side Impact protection to rule CV 1.3.2 and be supported if 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, cantilevered (isolated to frame, rigid to engine). Intercooler after throttle body. requires 100 ml catch bottle. INTAKE MANIFOLD - Securely attached to block or head with COOLANT - 100% water. NO ADDITIVES WHATSOEVER or oil for mech. Fasteners (positive locking!). OEM type rubber bushings not engines. sufficient. RESTRICTOR - Must be circular; max. diam. 20.0 mm for gasoline fuelled vehicles and 19.0 mm for E85 fuelled vehicles. Cannot be movable. Placed before compressor. **ENGINE** - Four cycle piston engine. No hybrids. Waste heat recovery allowed. **EXHAUST SHIELDING** - components outside the body forward of main hoop must be shielded from people approaching the car. No fibrous / cloth wraps around exhaust tubes. **NON-COMPLIANCE / COMMENTS**

| APPROVAL        |             |           |
|-----------------|-------------|-----------|
| Inspector Names | Date, Time  | Signature |
|                 |             |           |
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|                 |             |           |



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## **VEHICLE WITHOUT DRIVER**

| SCATTERSHIELDS GENERAL - Required for clutches, chains, belts, etc. No holes. 6 mm diam. Grade 8.8 minimum. End parallel to lowest part of the sprocket/pulley in front and rear. For chains, 2 mm min. thick solid STEEL, 3 x chain width. For belts, 3 mm min. thick Al 6061-T6, 3 x belt width. Finger guards: cover all drivetrain parts that spin while vehicle is stationary. No holes >12 mm dia.   | STEERING - All steerable wheels must have positive stops placed on the rack to prevent linkage lock up or tires from contacting any part of the vehicle. 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.  SUSPENSION PICK-UP POINTS - Inspected thoroughly for integrity   |
|--|--|
| GAS CYLINDERS - Proprietary manufacture & labeled, Nonflammable 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.  HIGH PRESS HYDRAULICS - Pumps and lines must have 1 mm steel or aluminium shields protecting driver and workers.  COMPRESSORS - Turbo or super chargers allowed if not OEM to engine; must be between restrictor and throttle. Carburetors are not allowed, if compressors are used. Compressor recirculation valves are ok if located downstream of restrictor. | 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 with locking nuts. 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 and closer than 50 mm. No button head cap, pan head or round head screws in critical locations, e.g cage structure or harness mount. Primary structure e/D > 1.5.   |
| EXHAUST OUTLET - Outlet 45 cm (17.7") max. behind rear axle centerline and 60 cm (23.6") max. above the ground   | FUEL SYSTEM  |
| Dual hydraulic system & reservoirs operating on all four wheels, (one brake on limited slip differential is OK). System protected by structure or shields from drivetrain failure or minor collisions.  No plastic brake lines. No brake-by-wire except in DV cars in autonomus mode. No parts below chassis/tubes in side view.  Brake pedal made out of steel, aluminium or titanium.  | FUEL SYSTEM ROLL OVER PROTECTION - All parts of the fuel storage, supply and fuel control system systems (including fuel rail, throttle body or carburettor), must lie within a surface defined by the top of the roll bar and the outside top edge of the tires.  FUEL FILLER NECK - Min. 35 mm dia., within 30° of vertical. Fuel resistant, transparent sight tube or transparent filler neck (material must be rated for at least 130_C). min 125 mm vert. height visible to fueler with vehicle fully assembled, with non-moveable fuel level line 12-25 mm below top of sight tube. Sight tube must NOT run below top of tank. Must prevent fuel spillage contacting driver, exhaust or ignition. Fueled w/o manipulating vehicle in any way. Cap secure and capable of withstanding pressurization (ie: threads or latch.), Must have a fuel type sticker close to the fuel filler. |
| SUSPENSION  SUSPENSION - Fully operational with dampers front and rear; 50mm minimum wheel travel (25 mm jounce and 25 mm rebound)   | FUEL VENTS - Must exit outside of the bodywork, and have a check valve to prevent leakage if vehicle inverted.   |
| with driver in vehicle  STEERING WHEEL - Continuous perimeter, near round (no concave sections) with driver operable quick disconnect. 250mm max from front hoop.  | FUEL TANKS - Must lie within major structure of the chassis with full side impact protection & firewall between fuel supply & driver, min. 50 mm away from exhaust components. Rigid tanks cannot carry structural load & must be flexibly mounted. Bladders or bags in rigid container allowed.   |
| 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.   | FUEL LINES - No plastic lines between fuel tank & engine. Fuel injection systems must use metal braided hose with threaded fittings or reinforced rubber hose with approved clamps. Must be securely attached and protected from possible rotating equipment or collision failure. No plastic connectors in fuel line. High pressure injection.  |

# **NON-COMPLIANCE / COMMENTS**



systems see CV 2.5.2.



## **VEHICLE WITHOUT DRIVER**

| EXTERIOR, GENERAL   | connections; proper mounting of cells.  |
|---|---|
| SCHOOL NAME & OTHER DECALS - School Name, or recognized initials - 5 cm tall min. on both sides in Roman letters. Must be clearly visible.  | INERTIA SWITCH - Rigidly attached to the vehicle, demountable for functionality check. Must open the shutdown circuit and kill ignition, injection & fuel pump(s) when accelerated between <b>6g and 11g</b>  |
| VEHICLE NUMBERS - On front & both sides of vehicle, minimum 15 cm tall, 20 mm stroke & spacing, 25 mm min. between number and background edge, Black on White, White on Black only, specified background shapes. Must be clearly visible.   | BRAKE LIGHT - Only one RED brake light, clearly visible from the rear; on vehicle centerline; height between wheel centerline & driver's shoulders. Round, triangle, or rectangular on black background. 15 cm2 minimum illuminated area. LED strips OK if elements closer than   |
| TECH STICKER SPACE – 12.5 cm x 10 cm on centerline of front of vehicle in front of the cockpit opening.   | 20mm apart and total length > 150 mm.   |
| BODY & STYLING - Open wheeled, open cockpit, formula style body. Vertical keep out zones <b>75mm</b> in front and behind tires (no aero exceptions), tires unobstructed from sides.   | LOW VOLTAGE MASTER SWITCH - Must be located on the right side of the vehicle, in proximity to the main hoop, at the 95th percentile male driver's shoulder height, in the middle of a completely red circular area of > 50mm diameter. Marked with LV and   |
| BODYWORK - Min. 38 mm radius on nose. No large openings in  | international symbol. Level horizontal when in ON position.   |
| bodywork into driver compartment in front of or alongside driver, (except cockpit opening).   | BRAKE PEDAL OVER-TRAVEL SWITCH - Must constantly open the shutdown circuit if one brake circuit fails for brake balance bar in all  |
| <b>EDGES/RADII</b> - Horizontal leading edges min <b>5 mm</b> radius; vertical forward facing edges min <b>3 mm</b> radius.   | possible positions. No re-start if released or actuated a second time.<br>Push pull or flip type Must NOT rely on programming to work. Not<br>resettable by driver.   |
| <b>BODYWORK EDGES</b> - edges that could contact a pedestrian must have a minimum radius of <b>1.0 mm</b> (safety requirement)  | LV BATTERY - Rigid and sturdy casing and attached securely to frame or chassis. Battery behind firewall; wet-cells in IPX7 rated and  |
| ELECTRONICS   | acid resistant casing if inside cockpit. Must be contained within the rollover protection envelope, see T1.1.15. Grounded to chassis; hot terminal insulated; protected for short circuits (fused). No circuits   |
| ON-BOARD STARTER - Required.  | >60VDC.   |
| SHUT DOWN BUTTON — - Pull-ON, Push-OFF, electric symbol COCKPIT - alongside & unobstructed by steering wheel, easily reached by driver. Must kill ignition & fuel pump(s). Marked with international symbol.  OUTSIDE - One button located on each side of the vehicle behind the driver's compartment at the level of the driver's head.  Rotary type, no relay, must kill ALL electrical systems. | LI-ION LV BATTERY (only applicable if other than LiFePO4)- Has a fire retardant casing according to UL94-V0. Battery pack includes: an overcurrent protection that trips below maximum discharge current; over temperature protection of >30% of the cells; voltage protection of all cells; it must be possible to display all cell voltages and measured temperatures on a team laptop. |
| NON-COMPLIANCE / COMP   | WENTS   |
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| Inspector Names   | Date, Time Signature  |
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CV Inspection Sheet



## **DRIVER GEAR & SAFETY**

| FACE SHIELDS - made of impact resistant material.   | HAIR COVER - Fire resistant (Nomex or equiv.) balaclava of full helmet skirt REQUIRED FOR ALL DRIVERS.  |
|---|---|
| UNDERWEAR - certified to SFI 3.3 or FIA 8856-2000   | SHOES - SFI 3.3 or FIA 8856-2000  |
| SOCKS - Nomex or equivalent, fire resistant socks. No cotton. No polyester. No bare skin.                             | HELMETS - Snell K2005, K2010, K2015, M2005, M2010, M2015,   |
| GLOVES - Fire resistant material. No holes. Leather allowed only over fire resistant material.                        | SA2005, SA2010, SAH2010, SA2015, EA2016, SFI 31.1/2005, 31.1/2010, 31.1/2015, 41.1/2005, 41.1/2010, 41.1/2015, FIA 8860-2004, FIA 8860-2010, FIA 8860-2018, FIA 8859-2015. Closed Face, no Open Face, must have integrated shield (no dirtbike helmets). No |
| <b>DRIVER SUITS</b> - Single piece FIA 1986 or 2000, or SFI 3-2A/5, FIA 8856-2000 minimum rating, and LABELED AS SUCH | camera mounts.  |

# **EGRESS TEST**

© EGRESS - 5 seconds max. to exit to side of vehicle from fully seated position with all safety equipment; wings must remain fixed in position. ALL DRIVERS.

Both hands on the steering wheel. (in all possible steering positions) Pressing cockpit-mounted shutdown button.

The egress time will stop when the driver has both feet on the ground

| #  | DRIVER'S NAME | EGRESS TIME |
|----|---------------|-------------|
| 1. |               | :           |
| 2. |               | :           |
| 3. |               | :           |
| 4. |               | :           |
| 5. |               | :           |
| 6. |               | :           |
| 7. |               | :           |
| 8. |               | :           |

| APPROVAL        |   |            |           |
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| Inspector Names |   | Date, Time | Signature |
|                 | / |            |           |
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CV Inspection Sheet



# TILT TABLE INSPECTION

| $\bigcirc$ TILTING DIRECTION - towards the side, where the filler neck is located.  | VEHICLE STABILITY - All wheels in contilted to 60 degrees to the horizontal | tact with tilt table when |
|---|---|---------------------------|
| FUEL 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 with non-moveable fuel level line 12-25 mm below top of sight tube. |   |                           |
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| NON-COMPLIANCE / COMI   | VIENTS  |                           |
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| APPROVAL Inspector Names  | Date, Time  | Signature                 |
| inspector realities   | Date, Tille   | Oignature                 |

CV Inspection Sheet



# **VEHICLE WEIGHING**

| ► Fuel tank must be tilled up to level, dri   | ver wearing every piece of  | driver equipment (exc.w                | rist)!             |
|---|---|--|--------------------|
| GROUND CLEARANCE - At least 30mm min. in a The checker specimen must freely slide without jam checked under all the aerodynamic elements. | any condition.(Also with the driver<br>ming and any kind of resistance un | in.)<br>der the whole car. Ground clea | rance must also be |
| WEIGHT MEASURING - The weight of the cars in  | nust be written with permanent m  | ethod on the tech sticker on the       | e nose.            |
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| NON-COMPLIANCE  | / COMMENT   | :2                                     |                    |
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| APPROVAL  |   |  |                    |
| Inspector Names   | [   | Date, Time                             | Signature          |
|   |   |  |                    |
|   |   |  |                    |



CV Inspection Sheet



# **NOISE TEST**

| MOISE LEST  |  |
|---|--|
| ► Vehicle jacked up, driven wheels removed, driver wearing every piece of driver equipment (exc.wrist)!   |  |
| NOISE LEVEL 1 - 103dB (C) at idle speed, ("C" scale fast weighing) maximum during a static test, gearbox in neutral, at idle. Microphone level with the exhaust outlet(s), 0.5 m from the outlet(s), at 45 degrees to the outlet. If multiple outlets, all to be checked. If movable tuning or throttling device, see B.10.2.3  NOISE LEVEL 2 - 110dB (C) ("C" scale fast weighing) maximum during a static test, gearbox in neutral, UP TO a specified rpm (see Rule B.10.2.4). Microphone level with the exhaust outlet(s), 0.5 m from the outlet(s), at 45 degrees to the outlet. If multiple outlets, all to be checked. If movable tuning or throttling device, see B.10.2.3 | MASTER SWITCH / SHUTDOWN BUTTONS - Must cause engine to stop when actuated (Perform at around 5000 rpm). (After noise)  INTAKE SYSTEM LEAKAGE/BYPASS - There is no air leakage or bypass of the intake system permitted. When the intake is closed completely, the engine should almost immediately stall Choke Test - Engine should stop after chocking the air inlet. (After noise)  INERTIA SWITCH - Rigidly attached to the vehicle, demountable for functionality check. Must open the shutdown circuit and kill ignition, injection & fuel pump(s) so cause engine to stop when actuated.  ELECTRONIC THROTTLE CONTROL - Car must be equipped with two Throttle Position Sensors and one Accelerator Pedal Position Sensor.  INPLAUSIBILITY CHECK - BSPD - Brake system plausibility device must shut down fuel pump(s), ignition during high brake system pressure and <5% throttle actuation.  BRAKE OVER-TRAVEL SWITCH - A switch must be installed behind the brake pedal so that in the event of a failure in at least one of the brake ircuits the brake pedal over-travel will result in the shutdown. Repeated actuation must not close the shutdown circuit, cannot be reset by the driver. |
| NOISE LEVEL IDLE: dB (C) NOISE LEVEL SPEC. REV. : dB (C)  |  |
| NON-COMPLIANCE / COMI   | MENTS  |
| Inspector Names   | Date, Time Signature   |
|   | zato,o   |
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CV Inspection Sheet



# **BRAKING PERFORMANCE INSPECTION**

| BRAKING PERFORMANCE - Must lock all four wheels and stop the vehicle in a straight line at the end of an acceleration run. No additves can be applied to the tires! Should be checked and demand tire change, if noticed slipperiness or odour!  | BRAKE LIGHT - has to be clearly visible even in bright sunlight. |
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| (Specified by the officials without electrical braking from motors. The tractive system has to be shut down by the driver before braking. The Tractive System Active Light has to be Green during breaking or shortly after the vehicle stopped (may take up to 5 sec. after shut down)).  |  |
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| NON-COMPLIANCE / COMPANDED TO SERVICE / COMPA | Date, Time Signature   |
| APPROVAL   |  |



CV Inspection Sheet

**APPROVAL** 

Inspector Names



# **POST EVENT INSPECTION**

| ► Vehicle jacked up, neutral gear only, driver wearing every piece of driver equipment (exc.wrist)!  INPLAUSIBILITY CHECKS BOTS - Pedal over-travel switch activating must result in a shudown.  SPD - If hard braking occurs and accelerator pedal actuated at once for .0.5 seconds, BPSO must kill ignition, injection and fuel pump(s)! For a duration of 10 seconds the engine cannot be restarted.  SHUT DOWN BUTTONS AND SWITCHES - The cockpit mounted must kill ignition, injection & fuel pump(s). The main hoop mounted ones must kill alt. electrical systems.  BRAKE LIGHT - The brake light must work correctly after the Endurace event; on vehicle centerline, height between wheel centerline & driver's shoulders.  (RENOISE TEST) - if the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.    GRENOISE TEST) - if the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.    GRENOISE TEST) - if the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.    GRENOISE TEST) - if the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.    GRENOISE TEST) - if the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.    GRENOISE TEST) - if the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.    GRENOISE TEST) - if the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.    GRENOISE TEST) - if the scrutineer found the car exeptionally loud compared to others during the found   | ENGINE IS  | S RUNNING  |                                     | ENGINE IS STOPPED   |
|--|--|--|-------------------------------------|---|
| DIPLAUSIBILITY CHECKS BOTS - Pedial over-travel switch activating must result in a shutdown. BSPD - If hard braking occurs and accelerator pedal actuated at once for 0.5 seconds, BPSD must kill ignition, injection and fuel pump(s)! For a duration of 10 seconds the engine cannot be restarted.  SHUT DOWN BUTTONS AND SWITCHES - The cockpit mounted must kill ignition, injection & fuel pump(s). The main hoop mounted ones must kill ALL electrical systems.  BRAKE LIGHT - The brake light must work correctly after the Endurace event1; on vehicle centerline; height between wheel centerline & driver's shoulders.  RENOISE TEST] - If the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.  Mass of the car:  Mass of the car:  kg Difference from before:  Mass of the car:  brundand and collection and fuel pump(s). The main hoop mounted ones must kill ALL electrical systems.  Characterial support, excluding any pading, set to its most reraward or set and position, must be lower than 500 mm from the ground. Rear device max 1.2 m above ground cuits of the inside plane of the front tires inside this plane max 5.00 mm  PARODYNAMICS - ALL aerodynamic devices maximum 250 mm  For advice max 250 mm  AERODYNAMICS - ALL aerodynamic devices maximum 250 mm  For advice max 1.2 m above ground outside of the inside plane of the front tires inside this plane max 5.00 mm  For advice max 1.2 m above ground effects.  AERODYNAMICS - ALL aerodynamic devices maximum 250 mm  For advice with an 100 mm from the ground rearward of front tires.  Devices lower than 500 mm from the ground rearward of front tires water the function of rear tires, Devices higher than 500 mm from the ground rearward of front tires.  Devices lower than 500 mm from the ground rearward of front tires.  Devices lower than 500 mm from the ground rearward of front tires.  Devices lower than 500 mm from the ground rearward of front tires.  Devices lower than 500 mm from the ground rearward of front tires.   | ► Vehicle jacke  | d up, neutral gear only,   | •                                   |   |
| Mass of the car:  Mass of the car careating; height the the care exertion the careatine; height the care the ca | BOTS - Pedal over-tra<br>BSPD - If hard braking<br>for 0.5 seconds, BPSD | avel switch activating must reg<br>g occurs and accelerator peda<br>must kill ignition, injection ar | l actuated at once nd fuel pump(s)! | through the rearmost portion of the front face of the driver head restraint support, excluding any padding, set to its most rearward position, must be lower than <b>500 mm</b> from the ground. Rear device max <b>1.2 m</b> above ground (incl. end plates); Front device max <b>250 mm</b> above ground outside of the inside plane of the front tires inside this |
| Endurace event; on vehicle centerline; height between wheel centerline & driver's shoulders.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud compared to others during the Endurance event, a repeated Noise test can be demanded.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car exeptionally loud effects.  (RENOISE TEST) - If the scrutineer found the car, or on the bellypan/diffusor will result in a DNF for the Endurance event.  (RENOISE TEST) - If the scrutineer found the car, or on the bellypan/diffusor will result in a DNF for the Endurance event.  (RENOISE TEST) - If the scrutineer found the car, or on the bellypan/diffusor will re | must kill ignition, inje   | ction & fuel pump(s).  | ·                                   | rearward of rear tires, maximum <b>700 mm</b> forward of front tires.   |
| Compared to others during the Endurance event, a repeated Noise test can be demanded.    LEEKAGE CHECK - Any kind of fluid leekage under the car, or on the bellypan/diffusor will result in a DNF for the Endurance event.    GROUND CLEARANCE - At least 30mm min. in any condition. (also with driver inside)    ELECTRONIC THROTTLE CONTROL - When power is removed from the throttle actuator, it has to close at least to idle. If one TPS line is detached and plausibility does not occur between TPSs, ETC must shut down.    INTAKE SYSTEM RESTRICTOR - Must be circular; max. diam. 20.0 mm for gasoline fuelled vehicles and 19.0 mm for E85 fuelled vehicles. Cannot be movable. Placed before compressor if used    RE-WEIGHING :  | Endurace event!; on v  | ehicle centerline; height betw   | •                                   | and rear tires. Devices higher than <b>500 mm</b> behind the front axle must not be wider than the inside of the rear tires. No power ground  |
| with driver inside)  © ELECTRONIC THROTTLE CONTROL - When power is removed from the throttle actuator, it has to close at least to idle. If one TPS line is detached and plausibility does not occur between TPSs, ETC must shut down.  © INTAKE SYSTEM RESTRICTOR - Must be circular; max. diam. 20.0 mm for gasoline fuelled vehicles and 19.0 mm for E85 fuelled vehicles. Cannot be movable. Placed before compressor if used  © RE-WEIGHING:  Mass of the car: kg Difference from before: kg  | compared to others d   | uring the Endurance event, a   |                                     | •   |
| the throttle actuator, it has to close at least to idle. If one TPS line is detached and plausibility does not occur between TPSs, ETC must shut down.  INTAKE SYSTEM RESTRICTOR - Must be circular; max. diam. 20.0 mm for gasoline fuelled vehicles and 19.0 mm for E85 fuelled vehicles. Cannot be movable. Placed before compressor if used  RE-WEIGHING:  Mass of the car: kg Difference from before: kg  |  |  |                                     | , , , ,   |
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| Mass of the car: kg Difference from before: kg   |  |  |                                     | mm for gasoline fuelled vehicles and 19.0 mm for E85 fuelled vehicles.  |
|  | RE-WEIGHING :  |  |                                     |   |
| NON-COMPLIANCE / COMMENTS  |  | Mass of the car:   | kg                                  | Difference from before: kg  |
| NON-COMPLIANCE / COMMENTS  |  |  |                                     |   |
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Signature

Date, Time