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2018

BASIC CLUB & COMPETITION RULES (BCCR)



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1. GOVERNING RULES & EVENT STRUCTURE**1.1. CHUMPCAR INTERNATIONAL INC. DBA CHAMPCAR
ENDURANCE SERIES**

- 1.1.1. ChampCar International Inc. is a membership organization (“Social Club”) doing business as (dba) the ‘ChampCar World Series’.
- 1.1.2. **ChampCar International / ChampCar World Series Membership:** Membership is open to ALL, without restriction. Full membership in ChampCar requires an annual dues payment of \$50 and is valid 12 months from the date of purchase. Full members shall be issued a membership number and a digital membership card. Event memberships are also available. Event members will purchase a temporary membership at the track that will be valid only for the duration of the event for which the membership was purchased, and this member will not have the voting rights of the Full member.

1.2. SANCTIONING BODY OPERATIONS

ChampCar shall adhere to the Basic Club & Competition Rules (BCCR)

- 1.2.1. The BCCR shall govern all ChampCar events sanctioned by ChampCar. ChampCar may revise the BCCR or issue supplements to it, and all rules stated herein may be amended at any given time, in writing or verbally at any event (and put in writing at a later time), at the sole discretion of ChampCar, based on maintaining safety, equity in competition, cost reduction or clarification. The interpretation and application of the ChampCar Basic Club & Competition Rules by ChampCar officials shall be final and binding.
- 1.2.2. All Members of ChampCar International Inc. shall uphold the Basic Club & Competition Rules (BCCR) in order to promote, elevate and enhance the name, brand and reputation of the organization, including its staff, Board of Directors, sponsors and all those affiliated in any way with the ChampCar Endurance Series. Any act that is ruled to be detrimental to the organization, as determined by the Club’s Board of Directors, may result in an action by the Board.

1.3. CHAMPCAR GENERAL RULES

- 1.3.1. **Release and Acknowledgement Forms:** All drivers and crew members must sign either a track supplied or ChampCar release, waiver and acknowledgement agreement.
- 1.3.2. **Event Credential:** All drivers and crew (“crew” includes all non-driving attendees, including but not limited to, family, friends, and invited guests) are required to obtain a color-coded wrist-band from ChampCar at registration. Track restrictions shall take precedence over ChampCar general

access allowances.

- 1.3.3. **Warning:** This is racing, racing is dangerous. Your car may be damaged or destroyed at any time. You may be injured or killed. Do not participate in a race, in any capacity, if you do not understand this and do not get into a race car without thinking about this.
- 1.3.4. **Insurance:** ChampCar carries and provides insurance for facility and event liability; however, ChampCar is NOT your primary health insurance provider.
ALL COMPETITORS MUST HAVE PERSONAL HEALTH AND/OR MEDICAL INSURANCE TO COVER THEIR MEDICAL NEEDS (ambulance transport, initial medical screening, etc.). YOU SHOULD NOT BE ENGAGED IN DANGEROUS ACTIVITIES SUCH AS AUTO RACING IF YOU DO NOT HAVE ADEQUATE PERSONAL HEALTH INSURANCE PROTECTION. PARTICIPANTS THAT DO NOT HAVE INSURANCE WILL BE PERSONALLY LIABLE FOR FINANCIAL CHARGES AND FEES ASSOCIATED WITH ANY MEDICAL CARE.
- 1.3.5. **Organizer Decisions:** ChampCar decisions are final and are not up for discussion, negotiation, definition, or argument.
- 1.3.6. **Unsafe Vehicles:** At ChampCar’s sole discretion, any car may be determined unsafe for competition and may be removed from the event at any time.
- 1.3.7. **Unsafe Drivers:** At ChampCar’s sole discretion, any driver may be determined unsafe for competition and may be removed from the event at any time.
- 1.3.8. **Disqualification from Race:** If you have hidden or concealed anything on your car that is illegal in anyway OR violated ChampCar’s rules OR failed to meet the spirit and/or intent of ChampCar’s rules or you have seriously and repeatedly violated the event’s driving safety rules your car may be disqualified from the event. The act of disqualifying any car may occur at any time.
Notification shall be issued by a ChampCar official to the Team Manager (or another representative).
- 1.3.9. **Track Damage Liability:** Teams entered in ANY ChampCar event shall be liable for any and all damage their car may have caused to the race track, race track safety barriers and/or race track equipment.
- 1.3.10. **Event Changes:** ChampCar reserves the right to cancel and/or alter the location, date(s), format, length, credits, and/or schedule of any event based on conditions, circumstances or matters that are beyond the control of ChampCar, or for any reason whatsoever. This may include, but is not limited to: weather, track safety condition, car-count/entry participation, track surface conditions, or changes issued under track contractual agreements that (in

the opinion of ChampCar) would significantly detract from the overall safety, enjoyment, track-time or services of the event.

1.4. WINNERS AND AWARDS

- 1.4.1. The car that completes the most laps (after all penalty laps and laps completed are tabulated) shall be declared the Winner.
- 1.4.2. Podium winning cars do NOT need to be running at the checkered flag.
- 1.4.3. ChampCar's world-famous trophies will be awarded at ALL events, regardless of the number of entries.
 - 1.4.3.1. A "First Place in Class" trophy will be awarded to each Class winner.
 - 1.4.3.2. A team representative MUST be present at the awards ceremony to collect any secondary trophy or award.
- 1.4.4. Credits: Unless otherwise stated in the Supplemental Rules, all winnings shall be issued in Credits. Credits are exchangeable for and may be applied to any ChampCar event entry fee, transponder rental, or garage rental.
 - 1.4.4.1. Credits cannot be used to pay for track damage, ChampCar products, SWAG or other fees Credits MAY be bartered or traded or transferred.
 - 1.4.4.2. Credits shall be issued as an award in these amounts:
 - 1.4.4.2.1. For events 19-hours or longer: First Place \$1,000, Second Place \$800, Third Place \$500. Total \$2,300.
 - 1.4.4.2.2. For events between 11- and 18-hours: First Place \$800, Second Place \$500, Third Place \$300. Total \$1,600.
 - 1.4.4.2.3. For events 10-hours or less: First Place \$600, Second Place \$400, and Third Place \$200. Total \$1,200 (Total \$2,400 for a Double-7 weekend).
 - 1.4.4.3. Credits may be accumulated.

1.5. NATIONAL CHAMPIONSHIP

An annual National Championship event will be held at a track designated by the CEO.

- 1.5.1. In order to qualify for the National Championship, a ChampCar team must:
 - a. Finish in the top 75 in points for the previous season.
 - b. Teams must compete in at least two (2) events in the previous season.
- 1.5.2. The winner of the National Championship:
 - a. All qualified teams carry their top two (2) season finish points into the Championship.
 - b. Finish points from the Championship will be added to the season point total.

- c. Lowest point total wins the National Championship.
- 1.5.3. Bring the same car you raced to qualify for the Championship. No replacement cars shall be considered qualified, including significant changes to otherwise qualified vehicles.
- 1.5.4. A minimum of TWO (2) original team drivers must be a part of the Championship team.
- 1.5.5. Championship events are NOT exclusive – anyone can enter.

1.6. Points System

- 1.6.1. One point per finishing position will be awarded to all competing teams. Eg – 1 point for 1st, 2 points for 2nd, 3 points for 3rd, etc.
- 1.6.2. Points will be calculated based on the top two (2) finishes for each team. All other finishes will be dropped.

2. ELIGIBILITY**2.1. ENDURANCE RACING**

- 2.1.1. Within ChampCar's Endurance Racing program there are five (5) classes of racing:
- CLASS A –All cars with engine displacement of 1.91 liters and under
 - CLASS B –All cars with engine displacement between 1.91 liters and 2.4 liters
 - CLASS C –All cars with engine displacement between 2.41 liters and 3.91 liters
 - CLASS D –All cars with engine displacement of 3.92 liters and higher
 - CLASS EC – All EC cars
- 2.1.2. Vehicles with turbocharged or supercharged engines shall be moved to the next higher class.
- 2.1.3. Non turbocharged rotary powered cars shall be placed in Class B. Factory turbocharged rotaries shall be placed in Class C.
- 2.1.4. Class A through D are referred to as cars competing for the "ChampCar Podium." The ChampCar Podium is for all cars competing under the Vehicle Performance Index (VPI) classification (see Section 4). The ChampCar Podium is for the top-placing cars in the event, regardless of class.
- 2.1.5. ChampCar also offers the "Exception Class" or "EC" – a class for cars exceeding 1000 points or teams not wishing to compete for a podium position.

2.2. VEHICLE ELIGIBILITY – DEFINITION OF A 500 POINT "CHAMP CAR"

- 2.2.1. Race entry is limited to mass-produced (over 1,000 units), four-wheeled vehicles certified for US Or Canadian street and highway use at the time of the vehicle's manufacture.
- 2.2.2. No kit cars.
- 2.2.3. All competing vehicles will be assigned a Vehicle Performance Index (VPI) by ChampCar. The Vehicle Performance Index is a point value that is based on the Performance Evaluation of your car. In order to compete for the overall win, all vehicles must maintain a total point value of 1000 points or less as described in Section 4 of the BCCR. Vehicles with total point values between 500 and 1000 points will receive penalty laps.
- 2.2.4. The vehicle's original, manufacturer-stated curb weight may not exceed 4,200 pounds.
- 2.2.5. The Event Director reserves the right to transfer ANY competition vehicle from the 500 point ChampCar classes to the Exception Class (EC) at ANY time. This rule shall only be invoked under extraordinary circumstances.

2.3. VEHICLE ELIGIBILITY – DEFINITION OF AN EXCEPTION CLASS ("EC") CAR

- 2.3.1. The Exception Class or "EC" car class is open to "ChampCar compatible" cars that wish to race with ChampCar but exceed the 1,000 point limit, or any Team not wishing to compete for the overall win.
- 2.3.2. ChampCar reserves the right to deny entry to any EC car if ChampCar determines the car to be excessively superior in power, braking, top speed or other factors that ChampCar feels would be unsafe or disruptive to any event.
- 2.3.3. EC cars shall not be eligible for prize monies or awards issued by ChampCar, however when more than five (5) EC cars are entered in any one event, ChampCar may award separate EC class trophies. There is no maximum number of races that any EC team can enter. We're glad to have you join us.
- 2.3.4. EC vehicles must meet all ChampCar rules and regulations for vehicle eligibility.

2.4. DRIVER AND CREW ELIGIBILITY AND LICENSING

- 2.4.1. All drivers must be ChampCar members.
- 2.4.2. All drivers must have a valid State-issued or International driver's license
- 2.4.2.1. Drivers without a state-issued or international driver's license may be allowed to compete provided they can demonstrate extensive road racing experience with another sanctioning body (includes karting).
- 2.4.3. Competition Licenses are a digital license (no paper license will be issued) and are valid for ONE event.
- 2.4.4. Novice, first-time road race competitors are required to attend a ChampCar Driver's School session. There is NO cost for the Driver's School.
- 2.4.4.1. Definition of "NOVICE": A novice, first-time road race driver is someone who has not competed in a ChampCar or other sanctioning body organized road racing event in the last 2 years and/or does not hold a valid competition license. Solo, Autocross, Drifting, Club Track- Days, or HPDE events do not apply to competitive road racing experience, regardless of what license you may have.
- 2.4.4.2. Driver's Schools are held after registration. Time and location to be announced in the event's supplemental rules.
- 2.4.5. Drivers under 18 years of age may compete if all the following conditions are met:

- 2.4.5.1. The minor driver's parent or legal guardian must be present at the event. Legal Guardian must present a copy of his or her court-ordered status as legal guardian.
- 2.4.5.2. The minor driver's parent or legal guardian must sign a waiver of liability form on behalf of and covering their child competing in the event (form available from ChampCar).
- 2.4.5.3. The parent or legal guardian must be present at all times the minor is on track, including the driving surface and the "hot pit."
- 2.4.5.4. The Event Director may limit the number of minor drivers allowed to compete at any event.
- 2.4.6. Any individual 16 years of age or older may be a crew member in the "hot pit" area, but only if all the following conditions are met:
 - 2.4.6.1. The minor crew member's parent or legal guardian must be present at the event. Legal Guardian must present a copy of his or her court-ordered status as legal guardian.
 - 2.4.6.2. The minor crew member's parent or legal guardian must be present to sign a waiver of liability form on behalf of and covering their child serving as a crew member (form available from ChampCar).
 - 2.4.6.3. The minor crew member's parent or legal guardian must be present at all times the minor is on track, including the driving surface and the "hot pit."
 - 2.4.6.4. The Event Director may limit the number of minors allowed to crew at any event. The track may restrict "Hot Pit" areas to those over 18 at certain events; if so, the information will be in the Supplemental Rules for each event.

3. SAFETY

3.1. ROLL-CAGES AND SUPPORTING STRUCTURE

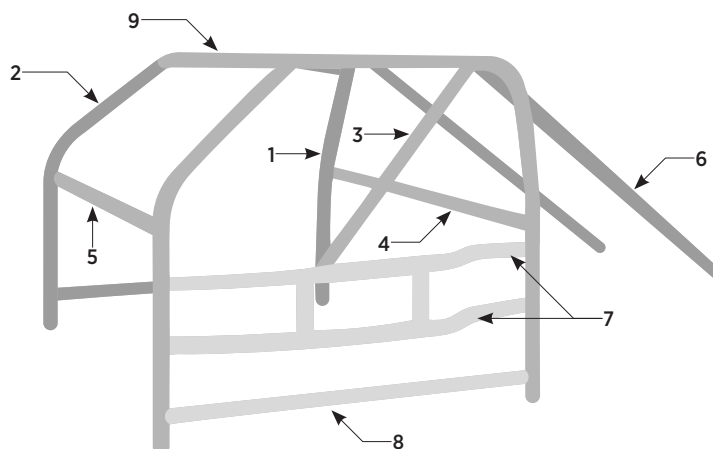
A quality, well-fabricated, full roll-cage is required. Roll-cages may be weld-in or bolt-in. Roll-cage tubing joints may be welded or bolted, provided bolt-in methods meet conventional safety standards. Roll-cage design and construction must maintain typical SCCA/NASA standards.

3.2. ROLL-CAGE DESIGN

- 3.2.1. The main hoop (behind the driver, labeled "1" in Figure A) must be the full width of the cockpit for all cars. It must be one continuous length of tubing with smooth bends and no evidence of mandrel crimping or wall failure.
 - 3.2.1.1. A 3/16" inspection hole must be drilled in the main hoop, such that a Tech Inspector has access to measure the wall thickness of the main hoop without obstruction.
 - 3.2.1.2. On all closed cars, the main hoop must be as close as possible to the roof (in height) and "B" pillars (in width)
- 3.2.2. The halo hoop (labeled "9" in Figure A) may be constructed of either a U-shaped bar appropriately attached to the main hoop and two front vertical legs (labeled "2"), OR front vertical bars bent rearwards at the roofline, connecting to the rear main hoop and cross-braced horizontally along the upper windscreen line.
- 3.2.3. Two continuous/unbroken driver-side door bars (labeled "7") that will prevent cockpit intrusion. NASCAR-style or X-design (with gussets) is acceptable.
 - 3.2.3.1. The spacing between the fore and aft terminal ends of all door bars (including X-design) must include a separation of no less than six inches of open space when measured at the centerline of each bar. Triangulated bars that meet or join at the front hoop are allowed so long as the spacing of the upper and lower bars (attached to the main hoop) is a minimum of six inches when measured at the centerline of the tubing bar.

- 3.2.3.2. The upper door bar shall not be placed higher than the bottom of the driver's window.
- 3.2.3.3. If the distance, measured at any point between the highest portion of the door sill or floor pan (whichever is higher) and the lowest edge of lower door bar is greater than ten inches (10"), a floor or lower-sill intrusion bar (labeled "8"), mounted as low as possible on each side of the roll-cage, at or just above the door sill, joining the front vertical legs and the main hoop is required.
- 3.2.3.4. A minimum of one (1) door bar shall be required on the passenger side. This bar can be a floor- or sill- or mid-level door bar.
- 3.2.4. Appropriate main-hoop rear-supports (backstays, labeled "6") with no bends, located as close to 45 degrees from horizontal as practical.
- 3.2.5. One main-hoop diagonal support bar (labeled "3") installed in the same plane as the main hoop, with one end terminating in general proximity to the main hoop bend above the driver's head and the other end terminating in general proximity to the lower end of the opposite side of main hoop. The diagonal support bar may be of one (1) or two (2) piece construction and it may intersect with or cross-through the horizontal support bar (used for seat belt harness attachment and/or seat support).
- 3.2.6. Complete 360-degree welds at all welded joints. All welds to be sufficient in heat, penetration, bead and consistency.
- 3.2.7. Each major load-bearing member must be formed from its own single, continuous tube.
- 3.2.8. A shoulder-harness bar (labeled "4") mounted just below the driver's shoulder level is required.
- 3.2.9. Dash bars (labeled "5") are not required but very strongly encouraged.
- 3.2.10. Roll-cages MAY contain a maximum of 2 tubes inside the

Figure A.



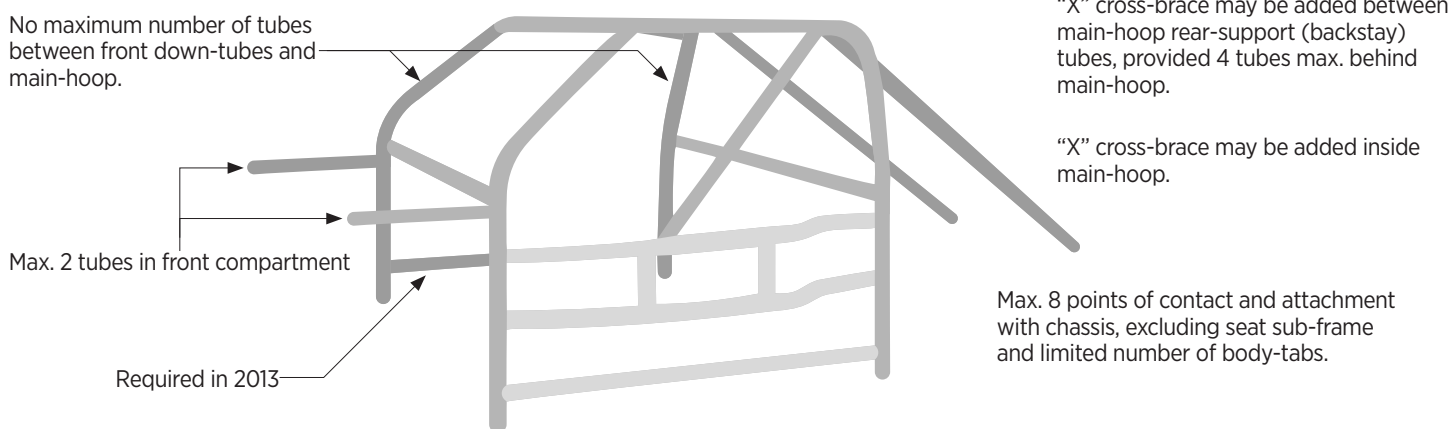
front engine or storage compartment and each tube MUST terminate prior to the centerline of the front axle.

- 3.2.11. Roll-cages are limited to eight (8) body and/or frame mounting points – welded and/or bolted.
 - 3.2.11.1. The total number of mounting points does NOT include a sub-frame to support a seat mount, provided that the seat sub-frame does not exceed two (2) chassis contact pads.
 - 3.2.11.2. The total number of mounting points does NOT include welded tabs connecting any hoop to the body. A “tab” is defined as being not greater than 3/16” thick steel plate, no longer than six inches (6”), and a maximum of two (2) tabs may be placed within any 36” of tube.
 - 3.2.11.3. Where cages are attached to the vehicle unibody, tubes must be welded to a minimum 1/8” steel plates no less than 16 square inches in size.
- 3.2.12. Roll-cages may not have more than four (4) tubes installed behind the main hoop and two (2) of these must include the main-hoop rear-support (backstay) bars without value add.
- 3.2.13. Roll-cages may not have any tubes or bars extend below the factory floor-pan.
- 3.2.14. Roll-cage Steel Tubing and Hardware:
 - 3.2.14.1. Minimum tubing size for cars weighing UNDER 2,500 pounds must use a minimum tubing size of 1.50” x .095.
 - 3.2.14.2. Minimum tubing size for cars weighing OVER 2,500 pounds must use a minimum tubing size of 1.75” x .095 or 1.50” x .120”.
 - 3.2.14.3. For purposes of determining tubing sizes, the vehicle weight is as raced without fuel and driver.
 - 3.2.14.4. Properly-bent, quality tubing is mandatory. No

stretched or crushed bends allowed. DOM mild steel is very strongly recommended over ERW tubing.

- 3.2.14.5. The radius of all bends of the roll cage (measured at centerline of tubing) must not be less than three times the diameter of the tubing.
- 3.2.14.6. All attachment points on the vehicle must be selected and reinforced as necessary so that, in an accident, the roll-cage will not punch through, tear, or grossly distort any roll-cage attachment point. Heavily rusted floor pans must be replaced or reinforced with sheet steel plate. Spreader plates, gussets, and/or other reinforcing hardware are generally required to meet this goal. Minimum 1/8” (0.125”) thick steel backing plates – not washers – must be present on the reverse or underside of any bolt-in cage location.
- 3.2.14.7. All mounting hardware is to be SAE Grade 8/Metric Class 10.9 bolt hardware or better.
 - 3.2.14.7.1. Minimum bolt size is 3/8” or 10mm diameter.
 - 3.2.14.7.2. All nuts should be self-locking (Nylok / ovalized) or cotter-pinned or drilled and safety-wired.
- 3.2.15. No waivers or “repair by next event” allowances will be granted on any roll-cage issue. Make sure it’s 100% right the first time.
- 3.2.16. All roll-cages / seats / drivers must be fit such that when the driver is securely belted in-place, the top of the driver’s helmet does not extend above the centerline of the main hoop. This applies to ALL drivers on the team. Any driver found in violation of this rule will be black-flagged and the car withdrawn from competition until repairs or modifications have been made and the car completes a re-tech inspection.
- 3.2.17. All roll cage tubing must be padded with high density roll

Figure B. ChampCar defined “maximum, value-free” roll-cage



bar padding wherever a driver's extremity may contact the tube. It is recommended that SFI 45.1 Rated Roll Bar Padding be used.

- 3.2.18. In order to prevent massively expensive roll-cages that start to look and act like a tube-frame chassis, ChampCar has defined the "maximum, value-free" roll-cage. The "maximum, value-free" roll-cage includes all pads, points, tubes and triangulations necessary to maintain an extremely high degree of safety, while keeping costs in-check and competition well-balanced. Teams MAY exceed the design and application of the "maximum, value-free" roll-cage; however, additional value will be assessed by the Tech Inspector, based on the perceived performance enhancement of the roll-cage.

3.3. DRIVER'S SEAT

- 3.3.1. The back of all driver's seats must extend in height to above the middle of driver's helmet or higher.
- 3.3.2. One- or two-piece SFI- or FIA-rated competition seats are recommended. OEM seats are NOT allowed.
- 3.3.3. All seats or seat-sliders must be securely mounted to the floor or roll cage to avoid separation during a crash. All mounting hardware must be SAE Grade 8/Metric Class 10.9 or better and a minimum 2-inch diameter or larger steel plate or load washers are required when mounting to sheet metal.
- 3.3.4. All seatbacks must be permanently fixed, braced or otherwise restrained against forward and/or rearward failure. A one-piece, permanently mounted seat meets this requirement.
- 3.3.5. The seatback must be within 3" of the shoulder harness bar or the diagonal main-hoop bar in its furthest forward position. For seats on sliders, or permanently affixed seats which do not meet this requirement, a seatback support MUST be used.
- 3.3.5.1. The seatback support may be permanently attached to the seat. For those supports not attached to the seat, the support MUST extend such that the support plate or contact point of the support mechanism is less than one half inch (0.5") from making contact with the seat when it is in the furthest forward position.
- 3.3.5.2. Seatback supports MUST maintain a minimum area of support contact of no less than sixteen square inches (4" x 4" square or 2" x 8" horizontal plate) and must be no less than 1/8" (0.125") in thickness.
- 3.3.5.3. All two-piece seats must have a permanently attached seatback support mechanism.
- 3.3.6. No passengers are allowed during any ChampCar practice

or competition event.

3.4. RACING HARNESES

- 3.4.1. All drivers in ChampCar sanctioned events shall utilize a five, six or seven point restraint harness system. A five-point harness is considered a minimum restraint system. Six or seven-point systems are highly recommended. Harnesses may utilize 2" or 3" shoulder belts. PLEASE NOTE THAT NECK RESTRAINT SYSTEMS ARE AVAILABLE FOR 2" AND 3" BELTS, AND YOU MUST MATCH YOUR NECK RESTRAINT TO YOUR HARNESS.
- 3.4.2. All driver restraint systems shall meet SFI or FIA specifications. The certification indicated by an SFI label or FIA label must be present, including a clear Date of Manufacture label or, in the case of FIA labels, Date of Expiration. SFI harnesses list a year of manufacture, and ChampCar will accept them until December 31st four years from that year. FIA harnesses expire on December 31st of the year of expiration sewn into harness. Any attempt to modify the date(s) on any belt are grounds for immediate team disqualification, without recourse or refund. Harness threading tips: http://www.gforce.com/wp-content/uploads/2017/02/Harness_Install_Info.pdf

3.5. WINDOW NETS / ARM-RESTRAINTS

- 3.5.1. All competition cars must have an SFI-approved window net mounted to the cage of the car only. All window nets must cover the window opening such that a driver's hand or arm cannot extend outside the vertical plane between the a- and b-pillars, or (for open cars) the a-pillar and the main hoop of the roll cage while the driver is seated and belted in-place. Cars with nets that have extensive openings, as defined solely by ChampCar officials, will NOT be allowed on track.
- 3.5.1.1. All window nets shall meet SFI or FIA specifications. The certification indicated by an SFI label or FIA label must be present, including a clear Date of Manufacture label or, in the case of FIA labels, Date of Expiration. SFI nets list a year of manufacture, and ChampCar will accept them until December 31st four years from that year. FIA nets expire on December 31st of the year of expiration sewn into net. Any attempt to modify the date(s) on any net are grounds for immediate team disqualification, without recourse or refund.
- 3.5.1.2. A small piece of deformable, transparent Plexiglas or polycarbonate may be used to screen- in an exposed area of the driver's side window (left exposed by the window net) without value-add PROVIDED the piece of screening plastic does not exceed eighty square inches and is a maximum 1/8" in thickness.

3.5.2. SFI-CERTIFIED ARM RESTRAINTS OR ROOF NETS ARE REQUIRED in all open (convertible) cars and/or cars with t-tops or sunroof openings.

3.5.2.1. All arm restraints and roof nets shall meet SFI or FIA specifications. The certification indicated by an SFI label or FIA label must be present, including a clear Date of Manufacture label or, in the case of FIA labels, Date of Expiration. SFI restraints and nets list a year of manufacture, and ChampCar will accept them until December 31st four years from that year. FIA restraints and nets expire on December 31st of the year of expiration sewn into item. Any attempt to modify the date(s) on any restraint or net are grounds for immediate team disqualification, without recourse or refund.

3.5.2.2. Driver Arm-Restraint Confirmation and Testing:

3.5.2.1.1. At Pit-Out, where all cars are required to stop, all drivers of open (convertible) cars and/or cars with t-tops or sunroof openings, without roof nets, shall be required to perform an arm-restraint exhibition and test, by raising both arms to their maximum allowable height.

3.5.2.1.2. At full-vertical extension, the driver's hands must NOT extend above a linear plane defined by the bottom edge of the lowest bar comprising the roll-cage "halo."

3.5.2.3. Penalties

3.5.2.2.1. Drivers of open (convertible) cars and/or cars with t-tops or sunroof openings who fail the extension test at Pit-Out will NOT be allowed on course. Drivers will be directed to remove their car from the Pit-Out lane to a location that does not impeded other cars and make the necessary adjustment to their arm-restraints. Upon completion of adjustments, they must re-complete the test, at the availability of the Pit-Out Marshall.

3.5.2.2.2. Drivers of open (convertible) cars and/or cars with t-tops or sunroof openings inspected at Pit-Out who have not properly attached their arm restraints, roof nets, or are completely missing arm restraints will be issued a 20-minute penalty at Pit-Out.

3.5.2.2.3. Drivers of open (convertible) cars and/or cars with t-tops or sunroof openings found at Pit-In without arm restraints or roof net, and having been on track, will be issued a 60-minute penalty at Pit-In.

3.6. DRIVER EGRESS

It is critical that all drivers and crew members are well practiced

at releasing belts, cooling tubes, radio wires, and any other attachments quickly. All drivers must be able to quickly remove themselves under potentially life-threatening conditions. IT IS EXTREMELY IMPORTANT THAT EVERY TEAM MEMBER PRACTICE EMERGENCY EGRESS BEFORE EVERY EVENT!

3.7. STEERING WHEEL LOCKS

3.7.1. Steering wheel lock devices shall be removed or disabled. Quick-disconnect steering wheels are highly encouraged.

3.8. AIRBAGS

3.8.1. All airbags must be disarmed and removed.

3.9. ONBOARD FIRE EXTINGUISHER

3.9.1. ALL CHAMPCAR COMPETITION VEHICLES MUST HAVE A SELF-CONTAINED PUSH-BUTTON OR PULL-HANDLE FIRE SUPPRESSION SYSTEM INSTALLED.

3.9.1.1. Fire suppression systems need NOT have SFI or FIA certification.

3.9.1.2. Minimum 5 LB or 2 Liter bottle capacity – either AFFF / FE-36 / NOVEC 1230 –Rechargeable systems are highly advised.

3.9.1.3. Minimum two (2) extinguisher nozzles, one (1) pointed centrally towards the top and center of the engine, and one (1) located in the driver's seating area. THIS IS THE MINIMUM. Be advised that multiple nozzles reduce line pressure and more quickly exhaust the fire suppression system. Competitors are advised to match the system capacity to the desired number of nozzles and area of coverage.

3.9.2. All on-board fire systems shall identify the activation point for the automatic system by a circle "E" decal. Decals available at ChampCar Tech Inspection.

3.10. DRIVER'S HELMET

3.10.1. Undamaged, full-face, Snell Type SA2010 or newer helmet, or FIA certification is acceptable. All helmets expire 11 years after date of certification. Note: Snell Type M helmets (motorcycle) or other non-SA helmets are not rated for fire resistance and are not allowed. Sharing helmets between team members is very highly discouraged.

3.10.2. Neck Restraint Systems / Helmet Support: An SFI or FIA approved racing neck restraint system is mandatory for all drivers. Foam collars are NOT legal.

3.10.3. Helmets showing any sign of abuse or accident damage shall be cause for failure of tech and safety inspection.

3.10.4. Any driver with a helmet found with an altered or counterfeit Snell sticker shall be banned from that event.

3.11. FIRE-RETARDANT CLOTHING

- 3.11.1. All driver's suits possessing a valid FIA and/or SFI certification shall be legal for competition, regardless of date of certification or manufacture, **HOWEVER**, any suit determined by ChampCar Tech and/or Gear Inspectors to be worn, frayed, torn, have holes, grease/oil stains or other conditions that are deemed by ChampCar Officials to reduce or negate the item's designed effectiveness will not pass tech and shall **NOT** be allowed for competition. ChampCar's decision is final.
- 3.11.2. If using a single-layer SFI 3.2/A1 or 3.2/A3 suit, the driver must also wear fire-retardant SFI- or FIA- certified undergarments. Multilayer suits rated SFI 3.2/A5 or higher are highly recommended and may be worn without undergarments.
- 3.11.3. Fire-retardant FIA- or SFI-rated socks, racing gloves and shoes are also required.
- 3.11.4. SFI or FIA rated Balaclavas are strongly encouraged but are not mandatory. Balaclavas are required for drivers with beards, or drivers with long-hair that is not fully covered by their helmet. Hair protruding from beneath a driver's helmet shall be completely covered by fire resistant material. As an alternative to balaclavas, a full SFI or FIA rated helmet skirt may be used.

3.12. ANNUAL GEAR CHECK

- 3.12.1. ChampCar utilizes a calendar year Annual Gear Inspection process. Initial inspections will require ALL driver gear to be presented for inspection. Approved gear will be issued a dated Annual Inspection helmet sticker.

3.13. BATTERIES

- 3.13.1. All batteries must be installed in a safe location. All batteries must be fully secured via proper, purpose-built battery brackets, battery frames, or sealed battery boxes.
- 3.13.2. Positive ("hot") terminals must be in a sealed battery box or covered with insulating material.
- 3.13.3. All batteries located in the driver's compartment of the car shall be enclosed in a plastic or steel box.

3.14. MASTER ELECTRICAL KILL (CUT-OFF) SWITCH

- 3.14.1. All cars must have a racing-type master electrical kill switch mounted in the center of the dash area of the car (roll cage dash bar) or center console area of the cockpit, accessible to and by the driver while he/she is secured in the driving seat by all seat belts and harnesses. The control or key for this switch should be red and the OFF position should be clearly indicated. Both the main battery circuit

and the ignition circuit must be interrupted by the kill switch. All electrical cut-off switches shall be identified by the international lightning bolt symbol. Decals available at ChampCar Tech Inspection.

- 3.14.2. The dash or console switch MAY be the sole kill switch, or it MAY be a second switch, wired in series with an existing or additional switch located elsewhere on the car. If the switch is wired in series, the interruption of either switch, independent of the other, must kill all power and vehicle operations.
- 3.14.3. Both terminals of the Kill Switch are to be treated as "hot" terminals and must be insulated.
- 3.14.4. At technical inspection, the kill switch function will be tested by revving the engine to approximately 1500 RPM and turning off the switch. The engine must shut-off immediately.

3.15. TOW HOOK

- 3.15.1. All cars must be equipped with a suitable front and rear tow-hook (or chain or strap), constructed of materials and installed so that they are capable of withstanding the tension required to extract your car. Minimum 2" diameter opening and easily accessible. Tow point must be clearly marked on car.

4. VEHICLE VALUE

4.1. TOTAL POINT VALUE

4.1.1. Cars with total points in excess of 500 POINTS will receive penalty laps (1 lap per 10 POINTS of value over the allowable 500 POINTS maximum. 1-9 points will be rounded-up to 10).

4.1.2. Total Point Value of the race car is the combination of:

- The Vehicle Performance Index
- Non-Stock replacement or other added parts from the Fixed Point Value list
- Non-Stock replacement or other added parts NOT on the Fixed Point Value list
- Engine Swap Points

4.2. VEHICLE PERFORMANCE INDEX

4.2.1. The Vehicle Performance Index (VPI) is the assessed value (by ChampCar) of the Performance of the ChampCar competition vehicle. The VPI for most common ChampCar Endurance Series vehicles can be found at <https://champcar.org/mainweb/register/vpi.php>

4.2.2. If a make/model of a vehicle that you have an interest in racing is NOT listed, contact the ChampCar National Director of Tech & Safety (tech@champcar.org).

4.2.3. Vehicle Performance Indexes may be petitioned for review. A written request for review is to be submitted to the ChampCar National Director of Tech & Safety (tech@champcar.org). **Updates to the VPI and Curb Weight tables will be posted once per year with the release of the new BCCR in the Fall. All changes will go into effect on January 1st of the following year.**

4.3. FIXED POINT VALUE

4.3.1. Non-stock Component Values: ChampCar has assigned a FIXED POINT VALUE that will be applied to MOST non-stock and/or performance components.

4.3.2. Fixed Point Value List

- air filter, non-OE: 0 pts
- brake cooling ducts: 0 pts
- brake pads: 0 pts
- camber/caster adjustable plates/apparatus, after market (pair): 20 pts Front and 20 pts Rear
- camber/caster adjustable plates/apparatus, homemade (pair): 5 pts Front and 5 pts Rear
- camshaft or valve train, non-OE: 50 pts per engine
- carburetion/throttle body or intake manifold, non-OE: 50 pts
- CVs / axles, non-OE (pair): 25 pts
- cylinder head(s), non-OE and/or non-matching: 100 pts per engine
- differential cover, non-OE: 5 pts
- differential swap: 25pts for any diff. from a vehicle on

the VPI list, stock axles/CVs included

- distributor, non-OE, or aftermarket ignition system: 20 pts
- driveshaft, non-OE: 50 pts per single driveshaft
- dry-sump assembly: 100 pts
- ECU, non-OE or chip replacement or chip re-programming: 0 pts
- exhaust header: 25 pts per engine
- heim joints: 5 pts each
- ignition coil(s), aftermarket: 10 pts
- mounts, non-OE, engine/transmission: 10 pts per engine / 10 pts per transmission
- oil accumulator (e.g. - Accusump): 10 pts
- oil cooler, non-OE (engine, transmission and/or differential): 20 pts each
- oil pan, non-OE: 25 pts
- pulleys, engine accessory, non-OE: 5 pts for one pulley, 10 pts for multiple pulleys
- radiator, aluminum non-OE: 20 pts (provided retail value of radiator under \$300)
- radiator, non-aluminum, non-OE: 5 pts
- screens protecting radiator and brake duct openings from debris: 0 pts
- shock absorbers/struts over the 2X limit: 25 pts per shock
- shock absorbers/struts, adjustable: 75 pts per shock
- shock/strut-tower reinforcement bar (commercial or homemade): 10 pts each
- springs, non-OE coil springs (including 'coil-over' kit): 10 pts per corner

Exemption: Competition vehicles may replace OE coil springs for 0 pts provided that the replacement maintains the exact same ID/OD measurements as the OE spring (+/- 0.25")

- suspension bushings in polyurethane, Delrin, OE-replacement: 0 pts/car
- suspension component (not otherwise listed in this table), non-OE: 10 pts per corner
- sway-bar, non-OE: 20 pts each
- transmission / transaxle swap: 25pts for any trans. from a vehicle on the VPI list, includes adapters
- turbochargers and superchargers, non-OE: 100 pts
- turbocharger and supercharger intercoolers, non-OE: 25 pts
- wheel spacers/hub adapters: 0 pts set of 4, max. 30mm/1.25" wide, max. 1/wheel
- wings/splitters (carbon fiber not allowed): 10 pts/ea
- Materials will be charged at the following rate:
 - o plywood: 1 pt per sq. ft.
 - o sheet aluminum/steel: 2 pts per sq. ft.
 - o sheet plastic/polycarbonate: 3 pts per sq. ft.

- 4.3.3. ChampCar reserves the right to apply an additional point value to any component or part on this list that substantially increases the value and/or performance of the car.
- 4.3.4. Parts included with non-OE turbocharger/supercharger installations are: exhaust/intake manifold, pressure tubing, cooling lines, oil lines, and boost control systems.

4.4. NON FIXED POINT VALUE PARTS

- 4.4.1. ALL non-stock components, parts, assemblies, or systems MUST be declared to Tech Inspection, noted in the vehicle Log Book, and declared and accounted for in the total points of the vehicle.
- 4.4.2. There is NO SUCH THING as a free part, every part of a vehicle has a value. Parts not covered elsewhere in the rules will be assigned a point value by ChampCar Tech.
- 4.4.3. Any vehicle found with missing (ground-off) or tampered part numbers on any part or component will be immediately re-classified as EC.
- 4.4.4. All point values assigned by Tech Inspection will be considered valid until ChampCar's Rules Committee assigns a fixed point value.

4.5. ENGINE SWAP

- 4.5.1. Go to Swap Vehicle Performance Index Calculator at <https://champcar.org/mainweb/register/vpi-swap.php>. Enter your car's race weight and stock horsepower from the ChampCar database. If the information is not yet available in our system for your car, email tech and we'll add it. Enter your new engine's HP. The formula will output the swap points to add to your VPI.
- 4.5.2. The webpage provides an automated calculator. The raw swap formula is:
$$\text{IF}[16 - (\text{weight} / (\text{HP} + \text{hpAdd})) > 0]$$
$$\text{THEN } [0.032 * (16 - (\text{weight} / (\text{HP} + \text{hpAdd}))) ^6] + 50$$
$$\text{ELSE } + 50$$
 - 4.5.2.1. "weight" is an approximation of a vehicle's weight as raced.
 - 4.5.2.2. "HP" is the stock horsepower of the original engine.
 - 4.5.2.3. "hpAdd" is the stock horsepower of the engine being added to the car.
 - 4.5.2.4. All of the above variables must be taken from ChampCar's database.
- 4.5.3. Engine swaps include stock long block, stock exhaust manifolds, stock induction system, motor mounts, starter, ECU, wiring, and transmission adapters.
- 4.5.4. Maximum swap cost is \$1500 (engine & adapters).
- 4.5.5. Engine being swapped in must come from another vehicle

in the VPI table.

- 4.5.6. Vehicles must use the highest valued model from its generation (i.e., - E30s would use the 325i as the starting point).
- 4.5.7. All other drivetrain components shall be stock. "Stock" is defined as the published specifications and technical measurements provided by the manufacturer.

4.6. PLATFORM SWAP

- 4.6.1. As an alternative to an engine swap, teams may qualify for a platform swap. A platform swap is defined as replacing the original components with all the components from the same chassis family (i.e. - 318 to 325 BMW engine swaps or 2.8L to 5.7L Chevy Camaro). To qualify as a platform swap, all of the differing vehicle components must be swapped to match the new platform. This includes engine, transmission, differential, suspension, fuel tank, etc. The VPI of the car will now be based on the car and engine combination as presented to tech, regardless of what engine may have been installed originally. No swap-surcharges shall be applied to platform swaps.

4.7. OTHER EQUIPMENT THAT DOES NOT COUNT TOWARD THE TOTAL POINT VALUE

- 4.7.1. Tires: Tire must be DOT legal and the treadwear rated at 180 or higher.
- 4.7.2. Driver comfort & information items are open and do not count towards total points (i.e. - steering wheel, removable steering wheel adapter, shifter handles, gauges, pedals, cool suits, vents, heaters, radio communications, etc.)
- 4.7.3. All fuel-system components except the fuel tank/fuel cell are open and do not count towards total points.
- 4.7.4. Exhaust systems downstream of the header/exhaust manifold (from the collector back) are open and do not count towards total points.
- 4.7.5. Hardware, fasteners, and materials used to attach things to other things (nuts, bolts, screws, rivets, duct tape, bailing wire, zip ties, JB Weld, etc.) are open.
- 4.7.6. Teams may replace any worn, broken, ventilated, impaled, defective, or bent-beyond-all- recognition parts on their car without affecting their total points so long as it's an OEM or OEM- equivalent part for that car's specific model.
- 4.7.7. Wheels, brake calipers, and non-adjustable shock absorbers are open, PROVIDED they meet the "2X Rule."

4.8. THE 2X RULE

- 4.8.1. The retail price of any NEW replacement wheel, brake caliper, brake rotors, or non-adjustable shock absorber

that you put on your ChampCar must be less than twice the cost of a stock replacement wheel, brake caliper, brake rotors, or shock absorber that is available on-line by a nationally recognized auto parts retail chain (i.e. - Napa, AutoZone, O'Reilly, Advanced, etc.). ChampCar reserves the right to go on-line and pull up retail prices.

- 4.8.2. Wilwood calipers, up to a maximum of 4 pistons, that exceed the 2X Rule will be valued at 5 pts per caliper.

5. SAFETY & TECHNICAL INSPECTIONS AND RELATED PENALTIES:**5.1. INSPECTION PROCESS**

All competitors must present to ChampCar International Inc., dba ChampCar Endurance Series (collectively, "ChampCar"), their vehicles for annual safety and technical inspections, and the car's log book for inspection at every race in which competitors enter the car.

By inspecting a vehicle and/or log book, neither ChampCar, nor its directors, officers, sponsors, staff, and/or officials, ensure, certify, or warrant that (a) the inspection will detect any or every problem with the vehicle; (b) the vehicle or any part of the vehicle is safe; or (c) the vehicle complies fully with all ChampCar rules.

The inspection does not in any way change the fact that the driver, crew members, and vehicle owner are ultimately responsible for the safety and operation of the vehicle and equipment.

All competitors also must present to ChampCar their personal safety gear for inspection, pursuant to Rule 3.12.

By inspecting personal safety gear, neither ChampCar, nor its directors, officers, sponsors, staff, and/or officials, ensure, certify, or warrant that the gear fully complies with all ChampCar rules, or will prevent bodily injury, death, or other harm (including, monetary damages).

All competitors are ultimately responsible for the proper maintenance and use of their personal safety gear.

ChampCar expressly disclaims all consequential damages, regardless the cause.

5.2. TECHNICAL INSPECTION

5.2.1. Vehicle Logbooks: Each car shall have a complete and up-to-date ChampCar World Series log book, including pictures. Tech inspection forms should be downloaded from the ChampCar website and filled out prior to entering the tech line.

5.2.2. Technical Inspections shall be done annually and, upon approval, a car will be issued a ChampCar Annual Inspection decal for that calendar year.

5.2.2.1. Cars with a valid ChampCar Annual Inspection decal need NOT return for inspection UNLESS ANY OF THE FOLLOWING HAVE OCCURRED:

5.2.2.1.1. The inspection decal has expired.

5.2.2.1.2. The vehicle has undergone ANY major component exchange, swap or replacement, as a by-product of an upgrade, repair and/or modification.

5.2.2.1.3. The vehicle has realized the upgrade, exchange, replacement and/or modification of any safety item, including but not limited to kill-switch, seat belts or harness, seat and/or installation, roll cage or attachment mounts, fire extinguisher system, window or roof nets, fuel cell, etc.

5.2.2.1.4. The vehicle has been involved in ANY major contact or shunt. NOTE: Following any such incident the vehicle's Annual Inspection decal shall be removed by the Technical Inspector and the damage will be noted in the logbook.

5.2.3. Appeals: The Technical Inspector's ruling may be appealed to the Event Director. The Event Director's ruling is final for that event. You may appeal for future races to the ChampCar Board of Directors at Board@champcar.org.

5.3. PENALTIES

5.3.1. Cars with total points in excess of 500 POINTS will receive penalty laps. Penalty laps shall be assigned at 1 lap per 10 POINTS of value over the allowable 500 POINTS maximum; 1-9 points will be rounded-up to 10.

5.3.2. Penalty Lap Assessment Adjustments for Length of Endurance Racing Events:

5.3.2.1. All penalty laps issued by Tech and/or as stated within the BCCR are applicable to 7-hour endurance racing events. Therefore, endurance event penalties shall be adjusted for longer endurance events:

5.3.2.1.1. For races 8 hours or less, all penalties shall have a multiplier of 1.0;

5.3.2.1.2. For races 9 to 16 hours, all penalties shall have a multiplier of 1.5;

5.3.2.1.3. For races 17+ hours, all penalties shall have a multiplier of 2.0;

5.3.2.2. ChampCar's Event Directors shall have the ability to amend the multiplier to whatever factor is numerically related and/or appropriate to the length of the track or event. If the Event Director chooses to amend the multiplier, the multiplier shall be specified in the Supplemental Rules of the event.

5.4. POST-RACE IMPOUND AND INSPECTION

5.4.1. At the conclusion of every ChampCar Race, the top five (5) finishing vehicles shall be impounded for a period not less than 30 minutes and no more than 90 minutes.

5.4.2. During the impound period, the team associated with the impounded car must:

5.4.2.1. Present the car's Log Book to the Chief of Tech;

5.4.2.2. Raise and place the car on four (4) jack-stands, a minimum of 12" from the ground or floor level;

5.4.2.3. Remove all four (4) wheels and tires; and

5.4.2.4. Open the hood and trunk.

5.4.3. ChampCar will place a printed copy of each vehicle's tech sheet on the windshield during impound.

- 5.4.4. ChampCar competitors and teams are welcome to “review” impounded vehicles. “REVIEW” does NOT mean touch or crawl under a competitor’s car, however you may request a ChampCar official to look at an item for you.
- 5.4.5. During the impound period, the Event Director or Tech Chief may engage in any inspection they so choose, including but not limited to the partial or full disassembly of any assembly, system or component for legality.
- 5.4.6. Upon the close of impound, all race results and standings are final.

5.5. PROTESTS

- 5.5.1. Any Team Captain has the ability to file a written protest with the Event Director or Tech Chief regarding any car in the event. Protests MUST be submitted to the event’s Event Director or Tech Chief after the start of the race and prior the close of Post-Race Impound. Protest forms are available in the “Rules” section of the ChampCar website.
 - 5.5.1.1. Driving Protest: Must include a written statement of the incident and be supported by video OR two additional driver statements OR the report of the Corner Marshal.
 - 5.5.1.1.1. Aggressive or unsafe driving protests that are accompanied by video or film documentation which do NOT offer clear and concise view(s) of the incident or infraction, or suggest any reasonable doubt, will be defined as a “racing incident.”
 - 5.5.1.1.2. No protest will be accepted for missed or non-calls by corner workers or track/event officials such as passing under yellow.
 - 5.5.1.2. Vehicle Protest: The protest must identify a maximum of five (5) items that may or may not be present on the protested car and are not claimed on the Tech Sheet.
- 5.5.2. All protests must include a \$50 filing fee. A protest will result in:
 - 5.5.2.1. VALID PROTEST: A penalty is applied to the protested team and the \$50 protest fee is returned to protester.
 - 5.5.2.1.1. Valid driving protests penalties MAY result in penalty laps, a time penalty, or disqualification of the car, at the discretion of the Event Director.
 - 5.5.2.1.2. Valid vehicle protests will result in disqualification of the car, or reclassifying the car as EC, at the discretion of the Event Director.
 - 5.5.2.2. INVALID PROTEST: No penalty is applied to protested team and the \$50 protest fee is lost.
- 5.5.3. During a 2-day race event, in order to allow a team to compete the following day without having to rebuild any assembly torn-down for post-race inspection, protested

cars may have various assemblies or components marked and sealed for a delayed tear-down inspection after the final race of the weekend. Any penalty applied due to illegalities found during a delayed inspection will be applied to ALL race events of the weekend.

5.6. DAY TWO HANDICAP

- 5.6.1. For two-day endurance events (that is two separate races), the winning car on day one will receive a lap penalty on day two equal to the number of laps they won by on day one plus one extra lap. No victory penalties will follow a team once the weekend of racing is over.

6. ENTRIES AND TEAMS**6.1. ENTRY APPLICATIONS & PAYMENT DEADLINES**

- 6.1.1. Each entry shall require a refundable \$250 deposit.
- 6.1.2. ChampCar will refund any fees paid upon request prior to the close of the event payment deadline (60 days). Inside of 60 days, fees will only be transferred to another event.
- 6.1.3. Early pay discount: The ChampCar auto-pay website will reduce the event fee by \$200 for any full entry payment made 60 days prior to the event.

6.2. ENTRY & DRIVER FEES

- 6.2.1. For all ChampCar Endurance Race Events entry fees will be set based on current track and support costs.
See <https://champcar.org> for specific event pricing.
- 6.2.2. Every entry includes all drivers and crew. Some tracks may charge entry fees outside of ChampCar's fees. See the Supplemental Rules for that event.
- 6.2.3. AMB 260X or AMB /MyLaps X2 transponder required to compete. You can bring your own or rent one from ChampCar.
 - 6.2.3.1. Rental transponders must have a factory MyLaps / AMB transponder mounting bracket affixed to their car in an approved location (see BCCR Apendex). Mounts are sold by ChampCar at tech inspection. No loose or zip-tied or duct-taped transponders are allowed.
 - 6.2.3.2. If a rental transponder is lost or broken, you agree to be charged \$500 for its replacement, or you buy us a new one. If the case is cracked or deformed in any way but the unit still works, you agree to be charged \$100 for repair and testing.
- 6.2.4. Log Book: \$5

6.3. CATASTROPHIC FAILURE DISCOUNT

- 6.3.1. If a ChampCar or EC competitor's car experiences a catastrophic, non-repairable, mechanical failure (not the result of brain fade or collision while on the track) within the first two hours of the first day of any multi-day ChampCar Race event, ChampCar will extend a \$200 discount to that team for their next ChampCar entry.
- 6.3.2. If a team's car experiences a failure during a ChampCar event that prevents the vehicle from attending another event the team has entered later in the season, ChampCar will transfer their entry fee or deposit for that later event to any even later event at the discretion of the Event Director.

6.4. MULTI-RACE DISCOUNT

- 6.4.1. For every two (2) Endurance race weekend events (not individual races) that you participate in, ChampCar will issue you \$100 in racing credit. Contact your Event Director for details.

7. RULES OF THE ROAD

7.1. MAXIMUM DRIVING TIME

7.1.1. Within an Endurance Race, no driver shall drive for more than 2 hours consecutively and shall have, at a minimum, sixty (60) minutes rest between stints.

7.2. ON-TRACK DRIVER CONDUCT

7.2.1. It is the responsibility of all drivers to avoid physical contact between cars on the race track. All competitors have a right to “racing room” on the marked racing surface. “Racing room” shall be generally defined as sufficient space on the marked racing surface to allow a competitor to maintain control of his/her car.

7.2.2. **The responsibility for passing another car and accomplishing that pass safely rests with the overtaking driver.** The driver that is about to be overtaken has the responsibility to be aware that he or she is about to be passed, give hand-signals and shall not impede the overtaking car.

7.2.2.1. **The driver being overtaken should, at all times, remain on their racing line** unless the car is impaired and is unable to maintain an adequate racing speed.

7.2.2.2. **The driver being overtaken shall not block.** Any driver who fails to make use of their rear view mirror, or who appears to be blocking another car seeking a pass, will be black flagged and/or penalized.

7.2.2.3. **It is the responsibility of the overtaking car to prepare for, plan and execute a FULL and COMPLETE safe pass.** The definition of a full and complete pass is when the overtaking car has extended a lead of approximately one car length ahead of the vehicle being passed.

7.3. STOPPING ON COURSE

7.3.1. If a driver is forced to stop his or her car on the course, he or she shall make every effort to place the car in such position that it will not be a danger or obstruction to other competitors, course workers or themselves.

7.3.2. Drivers stopping on course shall stay in their car with their seat belts firmly engaged and helmet in-place until they are instructed by a corner worker or other race official to leave their car, **UNLESS THE CAR IS ON FIRE.**

8. RULES OF THE PIT**8.1. PIT AND/OR PADDOCK AREA**

- 8.1.1. Unless otherwise noted in the Supplemental Rules, all fueling must be done on pit road.
- 8.1.2. While in the pits, each team entered in the event is REQUIRED to have ready a minimum of one (1) each:
- 8.1.2.1. Ten (10) pound dry chemical or 3kg NOVEC fire extinguisher having a minimum UL 60 BC or ABC rating.
- 8.1.2.2. Ten (10) pound bag of grease-sweep, kitty-litter or other absorbent for oil leaks and/or fuel spillage in their fuel storage area. (Having a broom is a good idea, too!)
- 8.1.2.3. A suitable gasoline and/or liquid catch pan must be used during refueling in an appropriate position to catch any spilled fuel. All fueling / gasoline catch pans MUST be manufactured of metal or sturdy, chemical-resistant plastic, maintain a minimum 3" depth, hold a minimum of 1-gallon (4-quarts) of liquid. Catch pans should be larger than 12" square or 12" in diameter and should not exceed 24" square or 24" in diameter. Oil drip pans work perfectly for this.
- 8.1.3. Unattended fuel or oil spills are punishable at the discretion of the Event Director.
- 8.1.4. All compressed air bottles/gas cylinders, with a pressure in excess of 200 psi, shall have a protective structure around their gauges and valves when in the pit/grid/pre-grid areas.
- 8.1.5. Unless restricted by the track, motorized paddock support vehicles are allowed PROVIDED that all drivers are 16 years or older and have a State-issued driver's license. Unsafe driving in the pits/paddock may result in a penalty or even disqualification of the associated team at the discretion of the Event Director.
- 8.1.6. All used or junk parts too big for a normal trash can, empty fuel drums and anything else you brought with you must be taken out by you.

8.2. PIT STOPS AND FUELING OF VEHICLES

- 8.2.1. NO FUEL JUGS OR CREW MEMBERS ARE ALLOWED ON OR OVER THE WALL UNTIL THE CAR HAS COME TO A FULL AND COMPLETE STOP.
- 8.2.2. The fueling process starts when the gas cap is removed or whenever any fuel jugs are over the pit wall, and ends when the gas cap is replaced and all fuel jugs are back over the pit wall. During this time, NO OTHER WORK IS ALLOWED ON THE CAR.
- 8.2.3. During the fueling process any team member over the wall must wear fireproof safety equipment. This includes fire suit, gloves, and helmet with visor down. Non-driver crew members may utilize a single-layer suit without Nomex

underwear. Other than non-open toed shoes, shoes and socks are open for non-driving crew members performing fueling but fireproof socks and leather shoes are HIGHLY advisable. Non-driving crew members may wear an out-of-date Snell SA helmet for pit duties. Crew members with out-of-date helmets shall mark both sides of their helmet with the words "FUEL ONLY" in 1.5", high-contrast and easily identifiable letters.

- 8.2.4. Each pit stop for fuel shall be a timed pit stop. The minimum time required per stop is five (5) minutes (pit in to pit out). Pit stops where fuel is not added to the car shall not be considered a timed pit stop.
- 8.2.5. There is no minimum or maximum number of pit stops.
- 8.2.6. All refueling jugs shall be DOT and/or ChampCar approved, with a maximum indicated capacity of five (5) gallons. Specialized nozzles (aircraft) or "Dry Break" systems are NOT allowed.
- 8.2.7. During the fueling process all cars MUST have their electrical kill-switch in the OFF position.
- 8.2.8. A MAXIMUM OF FIVE (5) PEOPLE ARE ALLOWED OVER THE WALL DURING FUELING.
- 8.2.8.1. The driver exiting the race car:
- 8.2.8.1.1. MAY go over the wall, MAY assist the driver entering the car, or MAY take one of the fueling positions. If the exiting driver goes over the wall, another appropriately dressed crew member may take his/her place.
- 8.2.8.2. The driver entering the race car:
- 8.2.8.2.1. May ONLY be assisted with belts, radio connections, cool suit connections, and the window net during the fueling process.
- 8.2.8.3. The crew member manning the fire bottle:
- 8.2.8.3.1. Must manage an approved 10LB- ABC fire extinguisher and be stationed no less than 8' and no more than 15' from the point where fuel is being added to the vehicle. This team member is restricted from performing any other duty or function while managing the fire extinguisher; their entire focus is to be a safeguard in case of a fire. **THE FIRE BOTTLE SAFETY CREW MEMBER IS NOT ALLOWED TO HANDLE FUEL JUGS.**
- 8.2.8.4. The crew member fueling the car:
- 8.2.8.4.1. Overhead or elevated refueling rigs or electro-mechanical units to assist in lifting or supporting a fuel container are NOT allowed. All fuel jugs are to be manually supported.

8.2.8.4.2. Only ONE (1) fuel jug is allowed over the wall at a time and only ONE (1) fuel jug is to be poured into a car at a time.

8.2.8.5. A crew member assisting the fueling process by positioning the fuel catch pan and/or overflow vent catch can, etc.

8.2.9. TEAMS ARE RESTRICTED FROM STORING MORE THAN 25 GALLONS OF FUEL IN THEIR PIT STALL.

8.2.10. THE USE OF ELECTRIC PUMP(S) TO REFILL YOUR FUEL JUGS IS NOT ALLOWED. All pumps used to transfer any fuel shall be mechanical pumps.

9. MECHANICAL & ELECTRICAL SYSTEMS, ASSEMBLIES, COMPONENTS**9.1. GLASS - GENERAL**

- 9.1.1. All window and/or sunroof glass (except front OE Safety-Glass windshields) must be removed from all competition vehicles participating in ANY ChampCar event prior to the car being allowed on the race track. This INCLUDES all EC cars.
- 9.1.2. For cars and/or teams NEW to ChampCar (first event), cars MAY retain original window and/or sunroof glass provided:
 - 9.1.2.1. ALL glass is properly and thoroughly taped.
 - 9.1.2.2. A ONE-TIME provision shall be noted in the vehicle log book. This is a single event waiver.
- 9.1.3. Tinted film is NOT considered legal or adequate protective tape.
- 9.1.4. Rear glass may remain in the car provided it is covered by a glass safety film like 3M™ Automotive Window Film Scotchshield™ Security Series.

9.2. WINDSHIELDS

- 9.2.1. Cracked windshields will be carefully scrutinized. Cracks that are deemed a visual hazard to the driver or have the potential of losing their structural integrity upon impact by any object shall not pass Safety & Tech inspection, requiring removal prior to competition.
- 9.2.2. OE windshields maybe removed. Stock replacement windshields or polycarbonate (Lexan) windscreens of the stock dimensions are acceptable in the stock location. Plexiglas plastic is not acceptable. If your windshield is removed, you must have a complete hood with no holes or vents in place as your firewall.
 - 9.2.2.1. All polycarbonate windscreens and/or windshields MUST have a uniform thickness of at least 3/16".
 - 9.2.2.2. All cars with polycarbonate front windshields or windscreens are required to have front safety straps installed on the INSIDE of the cockpit to support the windshield and keep it from collapsing into the interior of the vehicle.
 - 9.2.2.2.1. A minimum of two (2) straps are required.
 - 9.2.2.2.2. Straps shall be 1 inch wide x 1/8 inch thick (aluminum or steel), and shall be bolted or riveted to the chassis or roll-cage at the top and bottom of the strap.
 - 9.2.2.2.3. The straps cannot be any further than 1" from contact with the front windshield.
 - 9.2.2.2.4. Placement of both straps should be approximately 12" apart and at least one strap may not be more than 12" from the centerline of the windshield.

9.3. SIDE & REAR WINDOWS

- 9.3.1. No covering of any type is allowed in place of the passenger's side window.
- 9.3.2. ONLY clear, transparent polycarbonate or Plexiglas is allowed in place of any rear side or hatch window opening without additional value-add, provided:
 - 9.3.2.1. A factory-installed (OE) window was standard equipment for the year, make and model of car presented to Tech.
 - 9.3.2.2. The window opening is located behind the driver's seat or B-pillar (whichever is appropriate).
 - 9.3.2.3. All material must maintain a uniform thickness of at least 1/8".
 - 9.3.2.4. All windows must be attached by screw, rivet or bolt on a maximum 10" centerline around the perimeter of the window covering.
 - 9.3.2.5. The shape and location of the window covering must be exactly the same size, shape, and location of the OE window.
- 9.3.3. All polycarbonate rear windows or hatches are required to have at least two (2) 1" x 1/8" aluminum safety straps installed on the OUTSIDE of the window/hatch to support the window and keep it from separating from the vehicle. Straps must extend the full length of the window/hatch and must be securely attached to the chassis or roll-cage.
- 9.3.4. Rear- and mid-engine vehicles where the rear window is an extension of the fire-wall may retain the OE-glass (MUST be taped) or add a replacement plastic panel with straps.
- 9.3.5. Allowable Modifications:
 - 9.3.5.1. On rear, side-windows, either one (1) NACA duct (maximum opening of 11" in total length x 6" in total width) or one (1) maximum 3" diameter hole per vehicle side with ducting for driver ventilation ONLY. This allowable modification may NOT be applied to any other cooling, intake or performance-based use. Circular, un-ducted holes are open.
 - 9.3.5.2. On rear-windows and hatches: A maximum of two (2) three-inch (3.0") diameter holes may be drilled or machined anywhere within the window or hatch.

9.4. NERF BARS OR EXO-SKELETON

- 9.4.1. Added structural elements that extend beyond the outline of the original body line are not allowed. This includes additional structures holding lights or other components.
- 9.4.2. Roll-cage main hoops and halo bars may extend above the roof.

9.5. BODY PANELS

- 9.5.1. Fender skirts and hub caps shall be removed. All operable components of the vehicle's body (e.g. – hood, doors, hatch or trunk lid) shall have a latching mechanism or be securely fastened.
- 9.5.2. Each car entered must have a minimum of SIXTY PERCENT (60%) of the total ORIGINAL body work and panels on the car.
- 9.5.3. Doors cannot be removed. All cars must have a door or "OEM equivalent" body panel. Doors do NOT need to open or be operative. Doors may be welded closed. Doors may be re-skinned, however, re-skinned panels must be covered with the same type, thickness and quality of material as originally presented by the manufacturer (no aluminum panels replacing steel panels). Doors shall, in general, match the shape and contour of the originally designed bodywork, including at least 75% of the original height, as measured upwards from base of the door line.
- 9.5.4. Body panels significantly supported or held solely in-place by fabricated tubular, sheet metal and/or other forms of fabricated framework or brackets shall be charged for the materials associated with this structure. Body panels must maintain their original placement, shape and profile without the aid of other supporting brackets, rods, tubes or frames.
- 9.5.5. All cars without stock dimension windshields must have a hood. In this case, the hood is considered a firewall and must be complete with no holes or vents.

9.6. SUNROOFS, T-TOPS, CONVERTIBLES

- 9.6.1. All cars with sunroof and/or t-top openings must be covered by either a firmly attached removable hardtop, the original sunroof panel, or a fabricated metal panel secured and fixed in place. Alternately, they can be run as convertibles with the drivers wearing the required arm restraints or with a roof net installed on the vehicle.

9.7. CAR NUMBERS, CLASS DESIGNATION AND VISIBILITY

- 9.7.1. Car Numbers: One, two and three digit numbers are allowed.
- 9.7.2. No cars may use "0" or "00" before their car number.
- 9.7.3. Numbers must be shown on both doors, the roof and rear bumper.
- 9.7.4. Teams may contact their Event Director and arrange for a permanent car number.
- 9.7.5. ALL CARS SHALL USE CHAMPCAR NUMBER BACKGROUND DECALS:

- 9.7.5.1. Three (3) large and one (1) small OFFICIAL CHAMPCAR backgrounds are required.
- 9.7.5.2. No other number backgrounds are approved or allowed.
- 9.7.5.3. The 3 large backgrounds shall be applied to the front driver and passenger door of the car, as well as the roof. Open cars (convertibles / no roof) must have a car number on the hood. Roof or hood numbers are to be right-facing (passenger side facing).
- 9.7.5.4. The small number background shall be applied to the rear bumper.
- 9.7.6. ALL CARS SHALL USE BLACK NUMBERS:
 - 9.7.6.1. Numbers shall be at minimum 8.0" tall.
 - 9.7.6.2. Fonts shall be a minimum of 1.0" wide (brush stroke) and a maximum of 1.5" wide.
 - 9.7.6.3. Teams with regional permanent numbers are advised to leave enough room before or after their number to add a simple "1" (or "11") using black duct or electrical tape in case their number has been taken and they are competing out-of-region. All numbers MUST fit within the standard number background.
- 9.7.7. NUMBER ILLUMINATION for all night racing events:
 - 9.7.7.1. Cars participating in any event where headlights are required, are recommended to have both door number panels illuminated.
- 9.7.8. Other than numbers, no other decals, paint, tape or themed item (of any type) are allowed on the ChampCar number background decal.

9.8. CHAMPCAR AND SPONSOR DECALS

- 9.8.1. Each car competing in a ChampCar event shall display the official ChampCar World Series banner at the top of the windshield. The decal must be unobstructed and in clear view. For cars with no windshield, the Event Director will designate an alternate location for the banner.
- 9.8.2. ChampCar will provide teams with other series sponsor logos, printed on a single decal, which must be displayed next to the ChampCar number panels on each side of the car.
- 9.8.3. Other event sponsorship decals may be required.
- 9.8.4. All sponsor decals will be provided at ChampCar Tech Inspection.
- 9.8.5. ChampCar reserves the right to remove any decal that may conflict with ChampCar sponsors, or decals that we find in poor taste.

9.9. HEADLIGHTS, TAILLIGHTS AND BRAKE LIGHTS

9.9.1. For Daytime Events: Headlights may remain in or on the vehicle, however all glass must be taped or covered during the event.

9.9.2. For Night-time Events: All cars must be equipped with suitable headlights. Headlights may be OEM or aftermarket. Cars having more than four (4) light sources mounted on the car, whether working or wired for use, will be required to COMPLETELY REMOVE all lights above the count of four (4).

9.9.2.1. CONVENTIONAL BULBS:

9.9.2.1.1. No single light bulb or light source shall exceed 60W for H3 or H4 bulbs, or 35W for HID bulbs.

9.9.2.1.2. Bulbs must match the housing and lens that they were originally designed for.

9.9.2.1.3. No vehicle may have mounted less than two (2) or more than four (4) headlights. A headlight is defined by the number of illuminating bulbs or sources – not by the housing.

9.9.2.2. LED FIXTURES:

9.9.2.2.1. Cars equipped with LED head- or driving-lights shall be restricted to a maximum of 8,000 Lumens. Teams using LED lights MUST have documentation to prove Lumen data.

9.9.2.3. Combined Lighting Sources: cars using a combination of BOTH H3/H4/HID and LED lights shall be limited to a maximum of 4,000 Lumens of LED lighting and no more than two (2) lighting sources using conventional H3, H4 or HID lights.

9.9.2.4. All headlights must be installed such that the base of the driving light lens is NO HIGHER than six inches (6”) above the highest point of the stock front fender and, NO FURTHER BACK than the centerline of the front axle.

9.9.2.5. Headlights must be aimed properly, such that all light is directed at track level.

9.9.2.6. Cars not meeting these requirements, or with improperly aimed, or blinding lights shall be black-flagged and brought-in to add, repair, or adjust lights to meet this requirement.

9.9.3. Taillights: All cars must have a minimum of two (2) operational taillights that remain on at all times whenever headlights are on. Taillights may be OEM or aftermarket. No car shall have more than four (4) taillights. Taillight illumination shall be as bright or brighter than a 1034 or 1157 bulb but shall not be so bright as to overpower/out-light operating brake lights. Multi-filament and combination brake/taillight assemblies are allowed.

9.9.4. Brake Lights: Each car must have at least two (2), but not more than four (4) working brake lights that are easily seen from the rear.

9.9.5. Headlight and taillight assemblies (and all associated hardware) are considered safety items and Do not count toward your car's total points.

9.9.6. All glass and/or plastic taillight and brake light lenses that may be damaged from vehicle contact are to be taped-over with clear packaging or other strong clear tape. Do not use Scotch tape.

9.9.7. Accessory (Theme) Lights:

9.9.7.1. Accessory lights are NOT ADVISED on or inside any wheel assembly (as the lights are often mistaken for sparks).

9.9.7.2. Accessory lights inside the cockpit and driver compartment should be kept to a minimum. If the lighting is determined to be a nuisance to other drivers or race officials, ChampCar shall have the right to order the lights removed or turned off.

9.9.7.3. No accessory lights are to look like or be mistaken for an emergency vehicle.

9.10. FUEL SYSTEMS

9.10.1. Zero Tolerance for Fuel Leaks. You will have only one chance to repair any fuel leak. If a ChampCar staff member detects a second instance of leakage, regardless of cause, your car will be removed from the race. No exceptions.

9.10.2. Fuel Tanks and Cells

9.10.2.1. Stock fuel tanks in stock locations OR approved fuel cells are the only fuel sources allowed for competition.

9.10.2.1.1. Stock fuel tank must not be altered in any way from OEM specifications. No cutting, hammering, ballooning, or other changes are allowed.

9.10.2.1.2. Stock fuel tank vent lines and fill necks may be altered and/or relocated.

9.10.2.2. NON-OEM REPLACEMENT OR SWAPPED FUEL TANKS ARE NOT ALLOWED. It's either stock, in the stock location, or an approved fuel cell with the proper installation.

9.10.2.3. All fuel cells must have FIA-FT3 (or higher) or SFI-28.1 certification.

9.10.2.4. All cars equipped with fuel cells MUST have ball-check or sealable breather valves installed on all vents.

9.10.2.5. All cars equipped with fuel cells MUST have roll-over closure or “flapper valves” installed at the fuel inlet port of the fuel cell.

9.10.2.6. Fuel cells shall be limited to the stock, OEM fuel

- capacity for the make/model of car, plus-or- minus (+/-) two (2) gallons.
- 9.10.2.7. ALL FUEL CELLS MUST BE ENCLOSED IN A METAL CANISTER / ENCLOSURE.
- 9.10.2.8. Surge tanks are limited to one-half (0.5) gallon capacity.
- 9.10.2.9. Rotary-molded (plastic) fuel tanks are allowed as fuel cells provided they are SFI and/or FIA certified, foam-filled and fully encased in a metal enclosure, as well as properly installed and supported in the vehicle.
- 9.10.2.10. Fuel Cell Installation: If you decide to install a fuel cell, it must be securely mounted in a professional manner and must be installed in a safe location. All aftermarket fuel components must use threaded fittings and appropriate hose types, and include all appropriate racecar- quality vents, valves, and other features. Fuel cell installation will be judged on overall execution and apparent safety.
- 9.10.2.11. A reasonable protective and supportive square and/or round tubular structures may be installed around any fuel cell PROVIDED that the structure DOES NOT connect-to, or tie-into any suspension point or suspension pick-up point, or add to the general rigidity of the chassis, or provide any performance advantage whatsoever. Fuel cell protective structures may be attached to portions of the main roll-cage. Tech Inspection may assess additional points for any structure(s) that violate this rule.
- 9.10.2.12. Fuel cells may be mounted in the passenger floor area of 2-seater cars or cars that have no space behind the driver's compartment, provided:
- 9.10.2.12.1. The passenger side has full NASCAR-type door bars.
- 9.10.2.12.2. The fuel cell is enclosed by a full metal canister AND a separate bulkhead that encloses the fuel cell and canister.
- 9.10.2.12.3. All lines and fittings in the passenger compartment are metal or steel braid (Aeroquip).
- 9.10.2.12.4. The mounting frame and attachments for the fuel cell should be constructed of 1" square or tubular steel, with a minimum wall thickness of 0.120", and tied into the roll-cage.
- 9.10.2.12.5. Drivers are not allowed in the car during the fueling process.
- 9.10.3. Fuel Fillers and Fuel Lines:
- 9.10.3.1. Vehicles may not have more than the stock number of fill ports.
- 9.10.3.2. 3" MAXIMUM O.D. for all fuel fill lines.
- 9.10.3.3. MAXIMUM -8 (AN) or 1/2" I.D. shall be used for all fuel lines from cell/tank to the engine.
- 9.10.3.4. All fuel lines must be routed in a direct routing to and from source/termination point.
- 9.10.3.5. Any fuel, oil, or coolant lines that pass through the driving compartment must be encased by steel conduit or aluminum tube. (Flex-conduit is acceptable. Lines wrapped in aluminum tape are not acceptable.) OE metal lines in good condition, in their original location, are exempt from this rule, but encasement is still recommended. Steel braided lines are acceptable.
- 9.10.4. Over-flow vents may be installed. Over-flow vents MUST:
- 9.10.4.1. Exit at the rear of the car;
- 9.10.4.2. Be constructed of a gasoline-resistant hose, no larger than 3/4" (0.75") inside diameter;
- 9.10.4.3. Be securely attached to a 3/4" outside diameter, tubular, metal bulkhead that extends no less than 4" and no more than 6" inside the car and extends no more less than 4" and no more than 6" outside the rear panel/bulkhead of the car;
- 9.10.4.4. Allow positive and secure MECHANICAL attachment of a sealed overflow can with a minimum liquid capacity of 1-gallon (US);
- 9.10.4.5. No hand-held overflow cans. No overflow can may spill fuel upon attachment or removal; and
- 9.10.4.6. Use of an overflow vent and overflow can DOES NOT remove the requirement for a ground- positioned catch pan for spills.
- 9.11. OIL CATCH TANKS, FILTERS, COOLERS AND BREATHERS**
- 9.11.1. Non-stock engine, transmission/transaxle, and differential breathers shall be equipped with catch tanks.
- 9.11.1.1. Minimum catch tank capacity shall be one U.S. quart
- 9.11.1.2. Catch tanks shall vent outside the driver's compartment.
- 9.11.2. Remote oil filters shall NOT be mounted in the driver/passenger compartment.
- 9.12. COOLANT**
- 9.12.1. Coolant must be water only--no antifreeze or anti-boil allowed. Red Line Oil's "Water Wetter" is allowed. A functional 1-Qt. capacity catch tank (overflow) is mandatory.
- 9.13. EXHAUST**
- 9.13.1. A professional installed, quality exhaust system is required.
- 9.13.2. Exhaust systems must be designed, routed, and maintained to avoid the proximity of fuel tank(s) and/or fuel-system components and/or driver compartments.

- 9.13.3. Exhaust system shall not terminate in front of the main roll-cage hoop.
- 9.13.4. Exhaust system must include at least two professional-quality flexible exhaust hangers behind the collector. All exhaust joints must be properly slip-jointed, properly bolted, or welded.
- 9.13.5. All teams must maintain their exhaust in good condition throughout the event.

9.14. NOISE LIMIT

- 9.14.1. ChampCar's basic noise limit for FOR ALL EVENTS is 96 dB at 50 feet from the track. Certain events may impose a tighter noise restriction – check all event supplemental rules. Excessive noise will result in a black-flag and require repair prior to being re-admitted to the race. A second offense will result in disqualification and removal from the event.

9.15. COCKPIT

- 9.15.1. All loose items in the cockpit must be removed or secured.

9.16. MIRRORS

- 9.16.1. All cars must have at least one interior mirror. Cars with OE-type interior mirrors must also have a driver's-side exterior mirror. Passenger's-side exterior mirrors are optional. Cars with panoramic or "Wink"-type interior mirrors do not require exterior mirrors, however they are optional.

9.17. ENGINE FIREWALL

- 9.17.1. Openings or holes in the engine firewall under 2" diameter must be closed and sealed with metal plate, adhesive metal tape or OE-type grommets. Openings larger than 2" diameter must be closed and sealed with metal plate that is bolted, welded or riveted in place.

9.18. CAMERA MOUNTS

- 9.18.1. The mounts for video / photographic cameras shall be of a safe and secure design, and confined within the cockpit area of the vehicle. No cameras may be mounted outside of the driver's area or cockpit. The body of the camera (recording unit) shall be securely attached to the roll-cage or interior bodywork of the car. A retaining tether is REQUIRED to restrain the camera in case it should break loose of its mount and the tether length shall be limited so that the camera cannot come in contact with driver. Helmet mounted cameras are prohibited.

9.19. COOL SUITS AND DRINKING SYSTEMS

- 9.19.1. Cool suits and drinking systems are allowed in all vehicles. Water tank and/or ice storage container mounts shall be of

a safe and secure design. No leakage of any kind is allowed throughout the system. ChampCar will Black Flag your car for any liquid leakage because we won't know if it's cool-suit water or gasoline. Driver-connections should be quick-disconnect or break-away.

9.20. BALLAST

- 9.20.1. Ballast shall NOT be added to any cars to provide corner weight.

I. General

- a. Right of Publicity: All participating cars, drivers, crew members and guests may be photographed, videotaped, recorded, or quoted and by entering, attending and/or participating in any ChampCar event, you grant ChampCar the right to the use of such images and/or recordings including but not limited to use on television, internet, within various publications and/or any other analog-digital broadcast or print media.
- b. Any known medical condition (including pregnancy) which could affect medical fitness to compete shall be reported and identified on the event entry application. Any significant change in medical status from the date the entry has been submitted until and up to the start of the event, including cardiac or neurological problems, such as heart attack, heart surgery, strokes, seizures, any major surgery or diagnosis of cancer must be reported to the Event Director prior to that driver entering the track.
- c. Each competitor and crew member is encouraged to have someone in their team maintain medical information about them in the event it may be needed by a medical treatment team.
- d. A driver who is involved in an accident in which his or her car rolls over, collides with a stationary object hard enough to cause structural damage to his or her car, who is aware of possible injury from an accident, or who is directed to obtain medical attention by an official shall report to the Event Director of the event as soon as possible.
- e. A driver, crew member, official or staff worker/volunteer at an event that is transported off- site to a medical facility shall not subsequently compete in or engage in any further activity at that event and may not enter any other ChampCar event without presenting a medical release signed by their personal physician.
- f. A driver, crew member, official or staff worker/volunteer who suffers loss of consciousness shall not subsequently compete in or engage in any further activity at that event and may not enter any other ChampCar event without presenting a medical release signed by their personal physician.

II. Entries and Teams

- a. The organizers have the right to refuse an entry at their discretion without giving a reason for refusal. If an entry for any competition is refused, notification of such refusal shall be sent to the entrant at the e-mail address given on the Entry Form as soon as possible.
- b. An entry which contains a false or incorrect statement may be determined to be null and void by ChampCar. The entrant may be deemed guilty of a breach of the BCCR, the entry fee may be forfeited, and further penalties may be imposed.

III. Children & Pets:

- a. Parents or guardians of any minor shall be fully responsible for actions of their children. At SOME tracks children under the age of eighteen (18) MAY be allowed in the paddock or cold pit lane, under supervision by an adult. However, SOME tracks do not allow children in a cold pit lane. Each event's Supplemental Rules shall state the track's and/or event's policy for children on COLD pit lane. Children are prohibited in the HOT pit lane, even with an adult. Any person signing an event waiver for a minor shall be held responsible for that minor. Children under the age of 16 are not allowed to drive any motorized- or gasoline-powered vehicle in the paddock or garage area at any race track. That includes golf carts, scooters, ATV's, etc.
- b. Pet owners shall be fully responsible for actions of their pets. When track rules permit, a pet may be in the paddock, provided it is enclosed in a vehicle or on a leash that does not exceed six feet (6') in total length. When a pet is on a leash, it shall be controlled by an adult. Pets are prohibited in the pits. Pet owners are responsible for contacting the track to inquire about pet access and specific track rules. Track rules on pets shall always supersede ChampCar rules on pets.

ChampCar BCCR and Transponder Mounting Tips:

6.2.3. AMB 260X or AMB /MyLaps X2 transponder required to compete. You can bring your own or rent one from ChampCar.

6.2.3.1. Rental transponders must have a factory MyLaps / AMB transponder mounting bracket affixed to their car in an approved location. Mounts are sold by ChampCar at tech inspection. No loose or zip-tied or duct-taped transponders are allowed.

6.2.3.2. If a rental transponder is lost or broken, you agree to be charged \$500 for its replacement, or you buy us a new one. If the case is cracked or deformed in any way but the unit still works, you agree to be charged \$100 for repair and testing.



AMB 260X Wireless Transponder.



AMB 260X 12v Wired Transponder.

Transponder Mounting Tips:

Always mount the transponder so that the black is to the ground (not sideways).

You need to get a bracket (they're only \$10 and hold a \$500 unit in place).

Recommendations for where to mount:

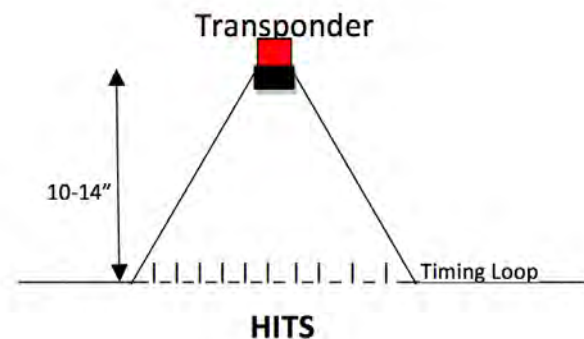
- Do not mount it anywhere near the exhaust as the unit will melt.
- Put in a safe place where it will not get destroyed if someone "rubs" you.
- There should be a clear line of sight top the ground with no objects between the transponder and the ground.
- DO NOT cut a hole in the floorboard.
- It is best to mount the transponder on a the engine bay frame rail (away from hot exhaust headers/turbo) or near the fuel cell/tank.
- Installation height should be between 10" - 14" off the ground.



Example of AMB 260X Wireless Transponder mounting bracket.



Example of AMB/MyLaps X2 Transponder Direct Power with 1-Year Subscription.



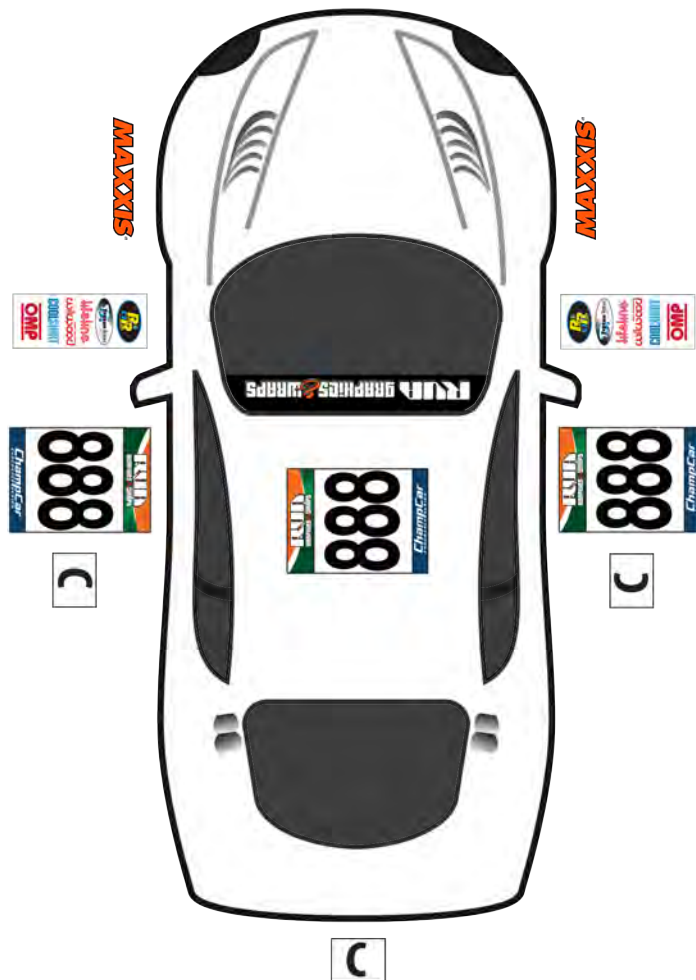
Transponder mounting distance from mount to track surface.

Decal Installation & Location Instructions

The following examples are approved installation locations for the required decal package.

Contact info@champcar.org for alternate decal location requests. Roof/Hood number panels may be installed at a slight angle per pre-2018 rules.

Visit <https://www.rvagfxstore.com/> to purchase decals.



05/17/2018 Change to Version 2018 v1.0.3

The following changes are approved by the ChampCar Endurance Series Board of Directors

Page 12 4.2.3 Change to the following statement:
Vehicle Performance Indexes and Curb Weights may be petitioned for review. A written request for review is to be submitted to the ChampCar National Director of Tech & Safety (tech@champcar.org). Updates to the VPI and Curb Weight tables will be posted once per year with the release of the new BCCR in the Fall. All changes will go into effect on January 1st of the following year.

Reason for change or addition:
Club decided that value edits should be held to once per year as the BCCR updates are.
Stability.

Effective Date: Immediately.

Additional changes:
Page layout fixed to put 4.3 onto one page.

Updates made by:
William Strong Date: 05/17/2018
Approved to post by:
Phil McKinney Chief Technical Director Date: 05/16/2018
Michael Chisek CEO Date: 05/16/2018

03/07/2018 Change to Version 2018 v1.0.2

The following changes are approved by the ChampCar Endurance Series Board of Directors

re: Racing Harness, Window Nets, and Arm Restraints
3.4.2., 3.5.1.1., 3.5.2.1.
Page 9 and 10.

Clarification of existing rules.
Reason for change or addition: Clarification
Effective Date: Immediately.

Updates made by:
William Strong Date: 03/07/2018
Approved to post by:
Phil McKinney Chief Technical Director Date: 02/07/2018
Michael Chisek CEO Date: 02/07/2018

01/14/2018 Change to Version 2018 v1.0.1

The following changes are approved by the ChampCar Endurance Series Board of Directors

re: Modifying Stock Fuel Tanks
9.10.2.1.1 and 9.10.2.1.2 Added to BCCR per the CCES BoD vote on 01/13/2018.

Appendices

Reason for change or addition: Safety
Effective Date: Immediately.

re: AMP Transponders
6.2.3. added AMB X2 to approved transpoders.
Updated images on transponder mounting instructions per Michael Chisek.
Reason for change or addition: Clarification and addition of new product approved for use by members.
Effective Date: Immediately.

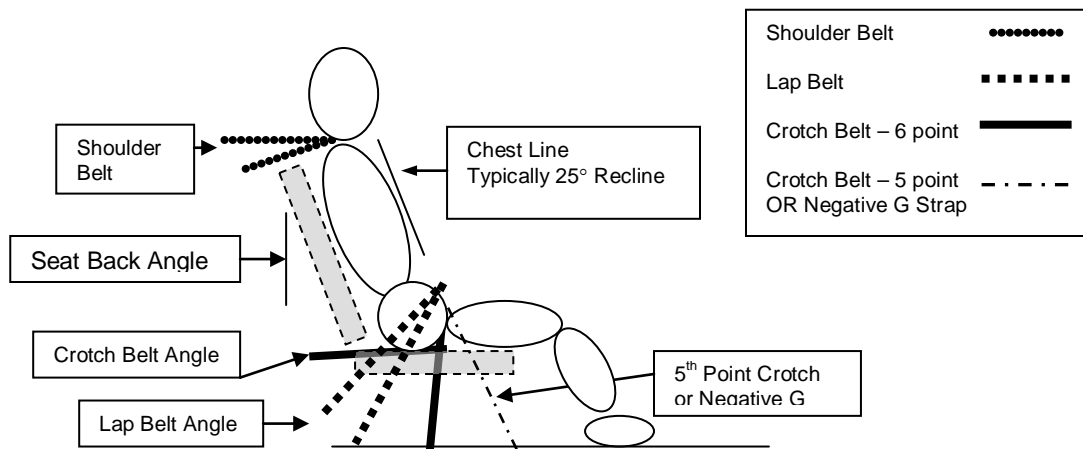
Additional changes:
BCCR ChampCar graphic updated on title page.
ChampCar web address added to all page footers.
BCCR Change Log page added to last page of BCCR.

Updates made by:
William Strong Date: 01/14/2018
Approved to post by:
Phil McKinney Chief Technical Director Date: 01/15/2018
Michael Chisek CEO Date: 01/15/2018

SEATBELT INSTALLATION GUIDE* FOR UPRIGHT SEATING (UP TO 25° RECLINE SEAT BACK ANGLE)

June 5, 2012

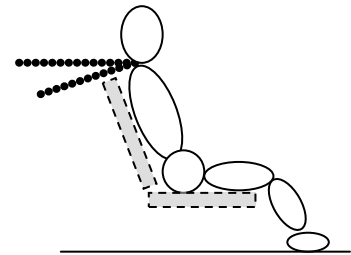
***IMPORTANT NOTICE:** The purpose of this guide is to provide motorsports vehicle drivers, owners and mechanics with additional information on seatbelt installation. This guide is for informational purposes only and in no way should it be construed to be an express or implied warranty of safety or guarantee that Driver Restraint Systems mounted in accordance with this guide will prevent any injury, systems failure, property damage, or death. Participation in motorsports carries with it the risk of serious injury, property damage and death at all times regardless of which driver restraint systems are used. This informational guide does not supersede or replace product manufacturers' installation instructions or sanctioning body rules and requirements. This guide applies to Driver Restraint Assemblies which pertain to the SFI Specification 16.1 and SFI Specification 16.5 compliance programs. Prior to any seatbelt installation or installation modification, consult with the motorsports vehicle builder, seatbelt manufacturer, and sanctioning body. At all times the driver and vehicle owner have prime responsibility for the safe installation and use of seatbelts.



SHOULDER BELTS

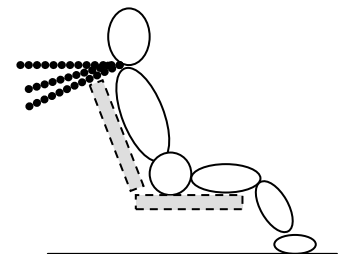
Shoulder Belt Angle: 0 to -20° (-10° optimum) from horizontal

- Clear passage of webbing from top of shoulder (or head and neck restraint) back to the harness bar or mounting point without any interference of the seat openings
- Belts should be as short as possible back to the mounting points

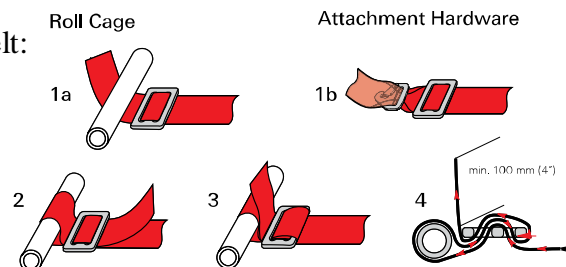


Double Shoulder Belt (Over/Under Belt):

- Upper belt (2" belt) 0 to -10° (-10° optimum)
- Body belt (3" belt) -10 to -30° (-20° optimum)
- Separation between upper and lower belt 1" to 2"
- Upper belt mounted to line up with the inside edge (closer to the neck) of the Body belt



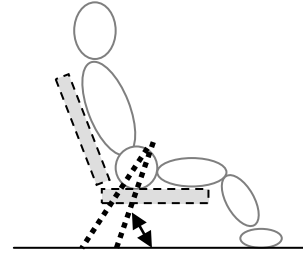
Proper Wrap of Shoulder Belt:



LAP BELTS

Lap Belt Angle: -45° to -80° from the horizontal

- Belt should ride within the curvature of the pelvic bone preferably just below the iliac crest
- There should be clear passage through the seat opening without webbing being corded or binding on edges of seat openings with a direct path to the mounting point
- The webbing should not ride against any hardware such as seat mounting brackets, bolts, or tabs
- Lap belt adjusters should be clear of the seat openings. Pull-up adjusters if outside the seat opening should be a minimum of 2" below the opening when the lap belt is tightened
- Belts to the mounting point should be as short as possible mounted beside the seat and never behind the seat
- Lap belt should be allowed to pivot freely at the mounting point
- Webbing should be allowed to pull on hardware in plane (straight)



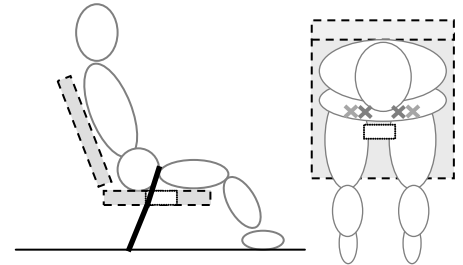
Position of the Cam Lock or Latch and Link

- Centered on the body 1 to 2 inches below the belly button when all belts are tightened

CROTCH BELT – 6-POINT

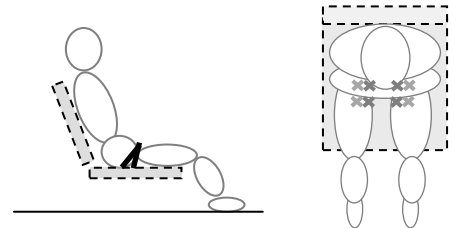
Sports Car “Shell Type Seat” and aluminum seats with single crotch belt hole forward of the inside seat back from 10 to 12 inches: (*NOTE: Seats with a single hole positioned more than 12 inches from the inside seat back are designed for 5 point belt installations and may not be as effective for 6-point installations*):

- Crotch Belt Angle: -20° (2" rearward) through the hole
- Two separate anchors 4 to 6 inches apart (x)



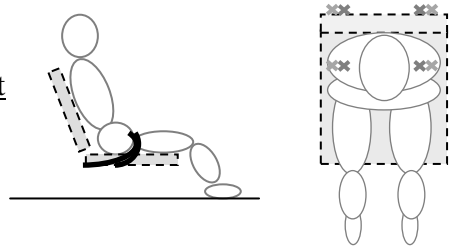
Containment Seats with Crotch belt mounting directly to seat bottom OR through holes provided at the back of the seat bottom: (*Driver is sitting on the Crotch belts*)

- Crotch Belt Angle -10° to -20° from the perpendicular just in front of the crotch with anchors 4 to 6 inches apart (x)



OR

- Crotch Belt Angle Horizontal rearward to under the butt or to the back of the seat (x)



Option (typically for single-seat wide cockpits):

Crotch Belt mounting to the front side of the outboard lap anchors. (Option not illustrated)

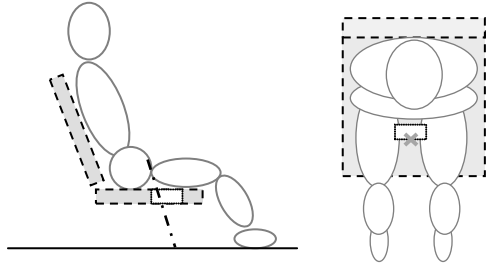
Considerations:

- Routing of crotch belts should have a clear and unobstructed path to the mounting point

CROTCH BELT – 5-POINT

Sports Car “Shell Type Seat” and aluminum seats with single crotch belt hole forward of the inside seat back from 11 to 13 inches:

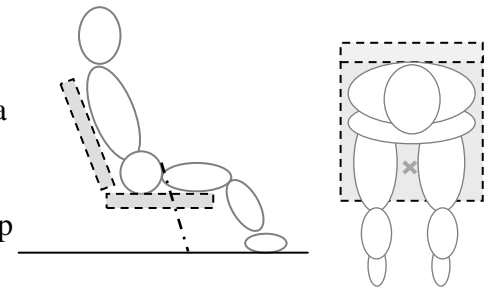
- Crotch Belt Angle: Chest line to 20° through the hole
- Crotch Belt should never wrap around the front of the seat – there should be a pass through
- Crotch belt is used only to maintain position of the lap belt



NEGATIVE G BELT – (7TH POINT)

Negative G Strap Angle: 20° to 25° (Chest line extension on a 25° seat back angle)

- Used in conjunction with a 6-point crotch belt system as an additional point to maintain the position of the lap belt in “Negative G” i.e. rollovers





SAFETY & TECH INSPECTION FORM

FOR CHAMPCAR OFFICIAL USE ONLY

Passed Annual Tech

Yes

No

Engine Size:

Car Class: A B C D EC

Racetrack:	Car No.	
Team Name:		
Team Captain or Entrant:	Cell Phone No. at Track:	Date of Inspection:
Car Year / Make / Model / Color:		Tech Inspector:
Notes:		Tech Signature:

(6) Laps w/ Multiplier	(5) Penalty Laps	(4) Total Comp Value	(3) VPI	(2) Swap Value	(1) Value-Add
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Safety Inspection
<p>Safety Items:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Leaks - Coolant / Oil / Fuel <input type="checkbox"/> Roll Cage & Padding <input type="checkbox"/> Racing Seat <input type="checkbox"/> Seatbelt Harness / Date <input type="checkbox"/> Window Nets & Secure Attachment / Date <input type="checkbox"/> Arm Restraints <input type="checkbox"/> Steering Wheel Lock Removed or Disabled <input type="checkbox"/> Fire Extinguisher System <input type="checkbox"/> Kill Switch <input type="checkbox"/> Fuel, Oil, Coolant Line(s) <input type="checkbox"/> Battery Box, Installation and Isolation <input type="checkbox"/> Fuel Tank or Fuel Cell <input type="checkbox"/> Bulkheads / Wiring / Plumbing <input type="checkbox"/> Glass and/or Lights Removed <input type="checkbox"/> Window Attachment Hardware <input type="checkbox"/> Window Support Straps <input type="checkbox"/> Sunroofs, T-Tops, Convertibles <input type="checkbox"/> Body Panel Attachments <input type="checkbox"/> Transponder & Mount <input type="checkbox"/> Exhaust System & Termination <input type="checkbox"/> 2 Brake Lights <p>BCCR Items:</p> <ul style="list-style-type: none"> <input type="checkbox"/> DOT / 180 TW Tires <input type="checkbox"/> Minimum 60% Original Bodywork <input type="checkbox"/> Max. 93 DbA Noise Limit <input type="checkbox"/> Fuel Capacity +/- 2 Gallon / Stock <input type="checkbox"/> Brakes to 2X Rule <input type="checkbox"/> 2018 Official Sponsor Panel <input type="checkbox"/> Official ChampCar Number Panel <input type="checkbox"/> Approved Font / Size Numbers <p>Night Racing:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Min. 2 Brake / 2 Tail Lights <input type="checkbox"/> Max. 4 Headlights <input type="checkbox"/> Night Racing - Bulbs/LED to Rules <p>Additional Safety Inspection Notes:</p>

Total Comp Value Inspection	Item Value Add	Sub-Total
<input type="checkbox"/> Air filter - non-OE	0 points-	
<input type="checkbox"/> Brake cooling ducts	0 points-	
<input type="checkbox"/> Brake pads	0 points-	
<input type="checkbox"/> Camber/caster apparatus adjustable, aftermarket Pair	20 pts F / 20 pts R-	
<input type="checkbox"/> Camber/caster apparatus adjustable, homemade Pair	5 pts F / 5pts R-	
<input type="checkbox"/> Camshaft or valve train, non-OE	50 points per engine-	
<input type="checkbox"/> Carburation/throttlebody or intake manifold, non-OE	50 points each-	
<input type="checkbox"/> CV's / Axles, non-OE	25 points per pair-	
<input type="checkbox"/> Cylinder head(s), non-OE and /or non-matching	100 points per engine-	
<input type="checkbox"/> Differential cover, non-OE	5 points-	
<input type="checkbox"/> Differential swap: Any diff. from a vehicle on VPI list	25 points-	
<input type="checkbox"/> Distributor, non-OE, or aftermarket ignition system	20 points-	
<input type="checkbox"/> Driveshaft, non-OE; per single driveshaft	50 points-	
<input type="checkbox"/> Dry-sump assembly	100 points-	
<input type="checkbox"/> ECU, non-OE or chip replacement or reprogramming	0 points-	
<input type="checkbox"/> Exhaust header	25 points per engine-	
<input type="checkbox"/> Heim joints	5 points each-	
<input type="checkbox"/> Ignition coil(s), aftermarket	10 points-	
<input type="checkbox"/> Mounts, non-OE, per Engine	10 points-	
<input type="checkbox"/> Mounts, non-OE, per Transmission	10 points-	
<input type="checkbox"/> Oil accumulator (e.g. Accusump)	10 points-	
<input type="checkbox"/> Oil cooler, non-OE (engine, transmission, and/or Diff)	20 points each-	
<input type="checkbox"/> Oil pan, non-OE	25 points-	
<input type="checkbox"/> Pulleys, engine accessory, non-OE	5 pts one / 10 pts multi-	
<input type="checkbox"/> Radiator, aluminum non-OE (retail under \$300)	20 points-	
<input type="checkbox"/> Radiator, non-aluminum, non-OE	5 points-	
<input type="checkbox"/> Screens protecting radiator/brake ducts openings	0 points-	
<input type="checkbox"/> Shock absorbers/struts, over 2x limit	25 points each-	
<input type="checkbox"/> Shock absorbers/struts, adjustable	75 points per shock-	
<input type="checkbox"/> Shock/Strut tower reinforcement bar	10 points each-	
<input type="checkbox"/> Springs, non-OE coil springs (includes Coil-Over Kits)	10 points per corner-	
<input type="checkbox"/> Suspension bushings OE replacements	0 points per car-	
<input type="checkbox"/> Suspension component not listed in table, non-OE	10 points each-	
<input type="checkbox"/> Sway bar, non-OE	20 points each-	
<input type="checkbox"/> Transmission/transaxle swap. from a vehicle on VPI list	25 points-	
<input type="checkbox"/> Turbochargers & Superchargers, non-OE	100 points-	
<input type="checkbox"/> Turbocharger & supercharger intercoolers, non-OE	25 points-	
<input type="checkbox"/> Wheel Spacers / Hub Adapters per BCCR	0 points set of 4-	
<input type="checkbox"/> Wings / Splitters (Carbon Fiber not allowed)	10 points each-	
<input type="checkbox"/> Material: Plywood	1 point per square foot-	
<input type="checkbox"/> Material: Sheet aluminum/steel	2 points per square foot-	
<input type="checkbox"/> Material: Sheet plastic/polycarbonate	3 points per square foot-	
<input type="checkbox"/>		
<input type="checkbox"/>		
Value Add Total:		

I have prepared, entered and inspected this vehicle and take full responsibility for its condition. I understand that this tech inspection is in no way a certification, representation, or guarantee that this vehicle meets or exceeds any standard of safety or represents any standard of use, and that this inspection does not imply any acceptance of liability on the part of the inspectors, the track, or the organizers of this motorsports event. I agree to indemnify and hold harmless ChampCar International Incorporated dba ChampCar Endurance Series, its owners, officers, sponsors, agents, employees and associates from any claims, litigation, or liability arising from any person who makes any claim whatsoever in association with this inspection.

Owner or Team Captain's Name: _____ Signature: _____ Date: _____

Once this form has been reviewed and approved by all ChampCar inspectors and signed-off, the Team Captain must take this form to the registration table to receive the team's general acceptance packet.



SWAP INSPECTION FORM

FOR CHAMPCAR OFFICIAL USE ONLY

Racetrack:	Car No.	Tech Inspector:
Team Name:	Cell Phone No. at Track:	Tech Signature:
Team Captain or Entrant:	Date of Inspection:	
Car Year / Make / Model / Color:		
Notes:		

1. Enter your vehicle make, model, year below. Enter the outgoing engine horsepower. Enter the incoming swap engine horsepower.
Note: The engine must come from a vehicle that is listed in the VPI Table located at <https://champcar.org/mainweb/rules>
2. Use the Swap Formula Online Calculator at <https://champcar.org/mainweb/rules> to get your swap points total.
3. Engine swaps include stock long block, stock exhaust manifolds, stock motor mounts, starter, ECU and wiring. Any custom adapters or parts that are required to fit engine are included. If in doubt, email tech@champcar.org.
4. Enter additional swap parts and points needed to complete swap.
5. Maximum swap cost is us\$1500 (Engine, adapters and parts). Documentation must be provided.
6. Enter the total Swapcost on the Safety and Tech Form, SWAP VALUE Box 2.
7. Swaps that reduce power and result in a negative VPI number will use a flat 50-point fee.
8. Tech reserves the right to override formula.

RACE CAR INFO	
Make	
Model	
Year	
Outgoing Horsepower	
Engine Size CC	
DONOR CAR INFO	
Swap Make	
Swap Model	
Swap Year	
Swap Incoming Horsepower	
Engine Size CC	
Swap Points from Online Calculator	

Parts needed to complete swap	Cost	Parts Needed to complete swap	Cost
Engine			
Engine Mount(s)			
Transmission Adapter			
Starter			
ECU			
Wiring			

Total Cost for Swap (USA \$):

I have prepared, entered and inspected this vehicle and take full responsibility for its condition. I understand that this tech inspection is in no way a certification, representation, or guarantee that this vehicle meets or exceeds any standard of safety or represents any standard of use, and that this inspection does not imply any acceptance of liability on the part of the inspectors, the track, or the organizers of this motorsports event. I agree to indemnify and hold harmless ChampCar International Incorporated dba ChampCar Endurance Series, its owners, officers, sponsors, agents, employees and associates from any claims, litigation, or liability arising from any person who makes any claim whatsoever in association with this inspection.

Owner or Team Captain's Name: _____ Signature: _____ Date: _____

Once this form has been reviewed and approved by all ChampCar inspectors and signed-off, the Team Captain must take this form to the registration table to receive the team's general acceptance packet.



PROTEST FORM

FOR CHAMPCAR OFFICIAL USE ONLY

Outcome: <input type="checkbox"/> Protest Upheld <input type="checkbox"/> Protest Declined
Protest Received By:
Date Received:
Time Received:
Amount Paid for Protest: \$

Event Track:	Today's Date:
--------------	---------------

Description of Protest:

Driving:	Pit:	Parts:
1.	1.	1.
2.	2.	2.
Other:		3.
		4.
		5.

Car Number:	
Team Captain:	Team Captain Cell Phone:
Team Being Protested:	Car Number:

If protest is upheld, all protest remarks MUST be recorded in the Log Book of the protested vehicle.

Protest Filed By: _____ Team Captain Signature