

# 2011 USRA MODIFIED RULES

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THE RULES AND/OR REGULATIONS SET FORTH HEREIN ARE DESIGNED TO PROVIDE FOR THE ORDERLY CONDUCT OF RACING EVENTS AND TO ESTABLISH MINIMUM ACCEPTABLE REQUIREMENTS FOR SUCH EVENTS. THESE RULES SHALL GOVERN THE CONDITION OF SPEEDWAY EVENTS AND, BY PARTICIPATING IN THESE EVENTS, ALL RACEWAY COMPETITORS ARE DEEMED TO HAVE COMPLIED WITH THESE RULES. NO EXPRESS OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATION OF, OR COMPLIANCE WITH THESE RULES AND REGULATIONS. THEY ARE INTENDED AS A GUIDE FOR THE CONDUCT OF THE SPORT AND IN NO WAY ARE A GUARANTEE AGAINST INJURY OR DEATH TO PARTICIPANTS, SPECTATORS OR OTHERS.

Significant and/or material changes from the 2010 USRA RHS Modified rules are highlighted in red. Changes made for grammatical purposes or to improve clarity are not highlighted.

References are made throughout these regulations requiring and/or recommending that particular products meet certain specifications (i.e. SFI, Snell, etc.). These products are manufactured to meet or exceed certain criteria and are labeled as such upon satisfying those criteria. Any change to these products voids that certification. Under no circumstances may any certified product be altered from the "as manufactured" condition or such certification is voided.

The United States Racing Association shall hereafter be simply referred to as the USRA throughout the rules description. USRA official(s) shall include all personnel employed as an official by participating racetrack.

## TABLE OF CONTENTS

- Article 1: Definitions
- Article 2: General Rules
- Article 3: Points System
- Article 4: Body
- Article 5: Roll Cages
- Article 6: Frame
- Article 7: Cockpit
- Article 8: Suspension
- Article 9: Electrical System
- Article 10: Fuel System
- Article 11: Tires & Wheels
- Article 12: Braking System
- Article 13: Drive Shaft
- Article 14: Transmission
- Article 15: Rear End
- Article 16: Engine
- Article 17: Weight
- Article 18: Safety
- Article 19: Claiming Procedures
- Appendix A: Body Specifications
- Amendments

## ARTICLE 1: DEFINITIONS

- 1.1 Racecar: An automobile designed solely for competition on oval race tracks, controlled from within by a driver.
- 1.2 Automobile: A vehicle which carries its own motor and operates on four non-aligned complete wheels, of which two are used for steering and two for propulsion.
- 1.3 Vehicle: A man-made locomotive device propelled by constantly taking real support on the earth's surface whereas the propulsion and steering are under the control of a driver aboard the vehicle.

- 1.4 Driver: The person controlling the operation of the racecar. The driver is expected to understand how to operate the mechanisms which control the speed, direction and braking of the racecar.
- 1.5 Participant: A person directly involved in the mechanical operation and/or management of a racecar, including, but not limited to, drivers, crew members, racecar owners, sponsors and their family members.
- 1.6 Event: A USRA-sanctioned competition between two or more USRA-licensed competitors and their racecars. An event shall consist of practice (hot laps) and actual racing contests.
- 1.7 Official: An official shall be any person participating in the exercise of authority for enforcing or interpreting these rules. The official may also make judgments concerning the conduct of participants and declare penalties for breaches of these rules, as well as perform technical inspections on any USRA racecar. The combination of officials may vary from week to week and from one racetrack to another.
- 1.8 Promoter: An entrepreneur who oversees the operations of the racetrack, either as a tenant or owner of the facility. Furthermore, the promoter is the person responsible for the implementation of rules, hiring staff and financial compensation to participants.
- 1.9 Cockpit: The volume of the racecar which accommodates the driver.

## **ARTICLE 2: GENERAL RULES**

- 2.1 USRA rules shall apply at all events. All participants are subject to the rules of the USRA and are expected to know the rules. An expressed ignorance of USRA rules by any participant will not be recognized as a valid argument for failure to comply with USRA rules. **Some tracks may have amendments, additions or other adjustments to the rules for a particular class. Promoters must make these differences clear, in writing, posted online and available to drivers at all times. Drivers should verify rules packages with sanctioned track prior to competing at an unfamiliar venue.**
- 2.2 Approval of any racecar by an official shall mean that the racecar is approved for participation in the event and shall not be construed in any way to mean that the inspected vehicle is guaranteed to be mechanically sound or safe. Be it further declared that officials and/or the USRA shall not be liable for any mechanical failure, nor for any losses, injuries or death resulting from the same.
- 2.3 Conduct:**
  - 2.3.1 Participants will conduct themselves as professionals. Any unsportsmanlike conduct by a participant shall be grounds for disqualification and/or punitive action by the USRA. This will be strictly enforced.
  - 2.3.2 Drivers are responsible for the conduct and actions of their car owners, crew members, sponsors and family members.
  - 2.3.3 Absolutely no alcoholic beverage or other illegal chemical substance may be consumed by a driver prior to, or during, an event. The duration of the event shall also include all support class events run as a part of the overall program. The use, sale or distribution of illegal drugs at any time shall be cause for immediate and indefinite suspension.
  - 2.3.4 Any participant who defies or violates the intent or spirit of the USRA rules shall be considered to have engaged in unsportsmanlike conduct and shall be dealt with accordingly and swiftly by the USRA.
- 2.4 All drivers must be at least fourteen (14) years of age (proof of age required). Drivers under eighteen (18) years of age are required to have a signed and notarized Parental Consent Form. The Parental Consent Form must be signed by a parent or legal guardian, and must be received by USRA headquarters prior to participation of the driver in any event.
- 2.5 The USRA may require any driver to undergo a physical examination by a licensed health care provider prior to being allowed to participate in any event.
- 2.6 No equipment or racecar will be considered as having been approved by reason of having passed through inspection unobserved.
- 2.7 All racecars must be able to join the race lineup on demand and unassisted, or must go to the rear of the lineup for the start of the race.
- 2.8 The USRA reserves the right to add to, delete, supersede or modify any rule, exhibit or drawing that the USRA deems necessary for the conduct of events and/or safety of participants. All amendments are effective on the date of publication by the USRA regardless of when a person subject to the rules receives actual notice of the amendment.
- 2.9 Every driver must inspect the racing surface and the track area to learn of any obstructions or other defects which, in the driver's opinion, presents an unsafe condition for competition. The driver shall report any unsafe condition in writing to an official. Any driver that competes in an event is considered to have inspected the track surface and surrounding perimeter to determine that all conditions are satisfactory. If the driver does not feel that the conditions are satisfactory, the driver should not compete

in the event. The driver further acknowledges that he or she is aware that auto racing involves risk, and that by competing in an event, the driver assumes these risks with full awareness and responsibility.

- 2.10 All drivers are responsible for registering their racecar for each event in order to ensure their respective starting position in each event.
- 2.11 The USRA and/or promoter reserve the right to refuse to accept the entry of any racecar or participant. Furthermore, the USRA and/or promoter reserves the right to revoke or cancel any entry, or any participant's claimed right to be on the racetrack's premises, if it is determined that a participant's presence or conduct is not in the best interest of the sport of auto racing, other participants, spectators, track management and/or employees of the USRA.
- 2.12 Lighted signaling devices, hand signals or any other equipment or methods used for communication during an event between a non-competing participant and a driver is not allowed.
- 2.13 Radios and any other devices used for transmitting or listening are not allowed on the racecar. *Exception:* Officials may require drivers to utilize a one-way radio to enable audio communication from officials to drivers. Furthermore, racecars may be fitted with a timing transponder as supplied by officials.
- 2.14 No computers allowed on the racecar, including, but not limited to, electronic traction control devices. Any driver found to be using traction control will be subject to a minimum fine of five thousand dollars (\$5,000) and up to a lifetime suspension from all events.

### **2.15 Technical Inspections:**

- 2.15.1 For all classes at all events, the top **four (4)** finishers in the main even and any other racecars as instructed by officials, are be required to report to a designated area after the completion of the main event where mandatory and varied post-race technical inspections will be required to take place.
- 2.15.2 Each racetrack is required to have a USRA-certified technical inspector at each event.
- 2.15.3 At the discretion of the official(s) overseeing an event, any participant may be disqualified by the official(s) for violation of any USRA rule and/or equipment or action(s) deemed to be hazardous to other participants or officials.
- 2.15.4 All racecars are subject to inspection by an official at any time. Any driver whom refuses to allow any inspection by an official, or terminates an inspection in progress, shall be subject to a fine of two thousand dollars (\$2,000), suspension from all events for fourteen (14) days, loss of all points (national and track) earned to-date for the current season and forfeiture of all cash and/or awards earned at the event.
- 2.15.5 Any illegal part discovered through inspection shall be confiscated by an official and forfeited by the driver. For first infraction, driver discovered to be using illegal parts of any kind shall be subject to a fine of two thousand dollars (\$2,000), suspension from all events for fourteen (14) days, loss of all points (national and track) earned to date for the current season and forfeiture of all cash and/or awards earned at the event. For second infraction, driver shall be subject to a fine of five thousand dollars (\$5,000), suspension from all events for one (1) year, loss of all points (national and track) earned to date for the current season and forfeiture of all cash and/or awards earned at the event. Confiscated parts will be sent to manufacturer for inspection. Failure by the driver to surrender any illegal part for confiscation shall result in a separate penalty, in addition to other applicable penalties under this rule.
- 2.15.6 All measurements must be made while the racecar is stationary on a flat horizontal surface.

### **2.16 Decals and Contingency Awards:**

- 2.16.1 Drivers must properly display approved USRA sponsor decals in approved locations on the racecar in order to participate in any prize money, points funds and/or contingency awards which require specific decals and/or decal placement for eligibility. All decals shall be distributed by the USRA or sanctioned racetrack, **along with a description of each sponsor's program, decal placement requirements and contact information.**
- 2.16.2 Each racecar must properly display the approved USRA logo decal or USRA Weekly Racing Series decal in order to participate in any points funds. **Decal must be positioned on both sides of the racecar at the front of the door below the window opening.**

### **2.17 Licenses and Points Funds:**

- 2.17.1 **All drivers competing in USRA-sanctioned events must possess a valid USRA license. The 2011 USRA license application can be downloaded at [www.usraracing.com/forms/usra-license-application-2011.pdf](http://www.usraracing.com/forms/usra-license-application-2011.pdf).**
- 2.17.2 **The cost of a USRA Competitor License for the 2011 season shall be \$120 for USRA RHS Modifieds.**
- 2.17.3 **Drivers wishing to compete in USRA events but not participate in points funds and contingency awards may purchase a Temporary License good for one (1) event only for \$20. Drivers opting for a Temporary License will not earn any points, points funds or contingency awards distributed by the USRA. The**

purchase of a Temporary License will not apply toward the cost of purchasing a USRA Competitor License if a driver decides later to change license status.

- 2.17.4 Track and national points funds shall be paid out as an equal percentage of events completed while possessing a USRA Competitor License. For instance, if a driver has competed in 10 events while possessing a USRA Associate License, and then competes in 10 additional events after obtaining a USRA Competitor License, that driver will receive one-half (50%) of the points fund money posted for his/her finishing position.
- 2.17.5 In order to be eligible for track and/or national points funds, driver must have competed in a minimum of fifty percent (50%) of the events held at any one of the sanctioned racetracks at which that driver earned points (minimum of 8 events with a minimum of 4 starts).
- 2.18 Decisions of the USRA are final and binding without exception.
- 2.19 These rules have been set by the USRA and are subject to change without notice. All promoters will be informed of any changes to these rules after the date of publication, and those changes should be made available to drivers at each racetrack and/or announced at drivers meeting. The USRA will publish amendments to these rules on the USRA website at [www.usraracing.com](http://www.usraracing.com).

### **ARTICLE 3: POINTS SYSTEM**

- 3.1 Drivers competing in an event are eligible to earn national points and track points at the racetrack where the points were earned for that particular class.
  - 3.2 Points will only be awarded for events held and officially reported to the USRA the promoter. Promoter is solely responsible for gathering and submitting complete event results in a timely manner.
  - 3.3 National points will be awarded to each driver based on his/her best twenty (20) points nights from **January 1, 2011**, through **October 16, 2011**, within their division.
  - 3.4 At the discretion of the promoter, track points may include all USRA-sanctioned events at that racetrack for the 2011 calendar year, or only those they designate as such.
  - 3.5 National points will be awarded to each driver in the main event as follows: 1st - 200 points, 2nd - 190 points, 3rd - 182 points, 4th - 174 points, 5th - 168 points, 6th - 162 points, 7th - 156 points, 8th - 152 points, 9th - 148 points, 10th - 144 points, 11th - 140 points, 12th - 136 points, 13th - 132 points, 14th - 128 points, 15th - 124 points, 16th - 120 points, 17th - 116 points, 18th - 112 points, 19th - 110 points, 20th - 108 points, 21st - 106 points, 22nd - 104 points, 23rd - 102 points. All other drivers that start the main event and finish below 23rd are awarded 100 points. All drivers that fail to qualify for the main event are awarded 90 points.
  - 3.6 Track points will be awarded to each driver in the main event as follows: 1st - 100 points, 2nd - 95 points, 3rd - 91 points, 4th - 87 points, 5th - 84 points, 6th - 81 points, 7th - 78 points, 8th - 76 points, 9th - 74 points, 10th - 72 points, 11th - 70 points, 12th - 68 points, 13th - 66 points, 14th - 64 points, 15th - 62 points, 16th - 60 points, 17th - 58 points, 18th - 56 points, 19th - 55 points, 20th - 54 points, 21st - 53 points, 22nd - 52 points, 23rd - 51 points. All other drivers that start the main event and finish below 23rd are awarded 50 points. All drivers that fail to qualify for the main event are awarded 45 points.
- 3.7 Bonus Points:**
- 3.7.1 Bonus points are awarded toward national points only.
  - 3.7.2 Passing Points: One (1) bonus point is awarded to each driver in the main event for each racecar passed from the actual starting spot. For instance, if a driver starts 18th and finishes 11th, that driver will earn an additional seven (7) bonus points.
  - 3.7.3 Competition Points: For each driver competing in a particular class on a given race night, bonus points equivalent to the total number of drivers will be awarded to every driver in that class. For instance, if there are 12 drivers on a given night, each driver in that class earns an additional 12 bonus points for that race night. There will be a maximum of 24 Competition Points awarded to each driver at any given event.

### **ARTICLE 4: BODY**

- 4.1 1970 or newer American compact passenger car only. Panel vans or station wagons are not allowed.
- 4.2 An aluminum half-windshield may be used on driver's side of the front window opening only.
- 4.3 Stock appearing front window support units must be used (painted roll bars are not acceptable substitutes). Front window may have a support of no more than six (6) inches at bottom, going straight

- up to top for non-clear materials. Support may be up to ten (10) inches at bottom, going straight up to top, only if it is a clear Lexan material.
- 4.4 A minimum window opening of twelve (12) inches must be maintained on both side window openings.
- 4.5 Streamlining at top of windshield is not allowed. Bodies must have standard appearing windshield opening and corner post must follow standard configuration.
- 4.6 Original roof line of vehicle must be maintained with a maximum of five (5) inches of slope from rear to front. No more than one-half (1/2) inch stiffener allowed at the rear of the roof and must turn down perpendicular to the ground. OEM Gremlin roofs are not allowed.
- 4.7 Sail panels must be of matching design with matching styles on both sides of racecar **and a maximum bow of four (4) inches.**
- 4.8 **Reverse hood rake is not allowed. Hood must slope forward toward nose of racecar.**
- 4.9 Belly pans are not allowed. A belly pan will be defined as any object or material that alters the airflow under the racecar.
- 4.10 Panel(s) in front of the right door next to the engine compartment is not allowed.
- 4.11 Racecars with excessive (to be determined by an official) body damage will not be allowed to compete.
- 4.12 Spoilers:**
- 4.12.1 If utilizing a Flat Tappet/Steel Head Engine (see Rule 16.16), BRODIX Aluminum Spec Head Engine (see Rule 16.17) or **CT525 Crate Engine (see Rule 16.18)**, the maximum rear spoiler height shall be **eight (8) inches**. If utilizing any other steel or aluminum heads other than the BRODIX Aluminum Spec Heads, the maximum rear spoiler height shall be **five (5) inches**.
- 4.12.2 Rear spoiler may not exceed the width of the rear deck lid, must be flush to the deck and must extend from right edge of deck to left edge of deck.
- 4.12.3 A maximum of two (2) center supports and a maximum of two (2) side supports may be attached to the front of the rear spoiler. See Body Diagram (Appendix A) for spoiler and spoiler brace dimensions.
- 4.12.4 Fins, wings or other air spoilers (except as noted above) are not allowed.
- 4.13 The rear deck lid and/or trunk area must be covered.
- 4.14 Aluminum roofs are permitted.
- 4.15 Doors and quarter panels may be mounted a maximum of one (1) inch above the deck.
- 4.16 Excluding hood and nosepiece, the top of the body should extend no further forward than the back of the engine block. The bottom of the body may extend up to eight (8) inches forward of the back of the engine block.
- 4.17 Nose may not extend past front bumper and must be a minimum of seven (7) inches above the ground. A two (2) inch lip on the nose is permitted, but may go no further than leading edge of hood.
- 4.18 Bumpers:**
- 4.18.1 Both front and rear bumpers must be used, and may not have any sharp edges. Any inappropriate bumper may be disallowed at the discretion of an official. Front bumper should be mounted from frame-end to frame-end with the bottom loop parallel to ground. Bumpers must be made of a minimum of one and one-quarter (1-1/4) inch tubing and must be able to support the racecar if lifted by a tow vehicle. **Top bar must be directly above bottom bar.**
- 4.18.2 Rear bumpers may be constructed of tubing or flat stock, and must protect the fuel cell. Center of bumpers (front and rear) must be at least sixteen (16) inches from the ground and no more than twenty (20) inches from ground. Rear bumpers may be no more than two (2) inches wider than the body on each side and may not be open-ended (must wrap around and be connected to side rail bars).
- 4.19 Appearance:**
- 4.19.1 All racecars must be numbered with large legible numbers on both sides, on top and on the nose and rear panels. Numbers on the sides of the racecar should be in contrasting color from the body and be at least four (4) inches thick and at least eighteen (18) inches high. Top numbers should be at least four (4) inches thick and twenty-four (24) inches high.
- 4.19.2 Officials reserve the right, in the public image of the sport and/or the USRA, to assign, approve or disapprove any advertising, sponsorship or similar agreement in connection with any event. All cars must be neat appearing and are subject to approval of officials to compete. By competing in an event, all drivers agree to comply with the decisions of officials in this regard.
- 4.20 Overall width of the racecar may not exceed 78 inches. Width shall be measured from the widest points on each side of the racecar.

## ARTICLE 5: ROLL CAGES

- 5.1 Round steel tubing, seamless roll-over bars are required for the basic roll cage, and must be acceptable to officials. Acceptable tubing is as follows: one and three-quarters (1-3/4) inches by nine-tenths (.090) of an inch or one and on-half (1-1/2) inches by ninety-five one-hundredths (.095) of an inch for mild steel and DOM tubing (one and three-quarters (1-3/4) inches by eighty-three one-hundredths (.083) of an inch for chrome-moly tubing). Aluminum and/or other soft metals are not allowed. Roll bar connections must be properly welded.
- 5.2 Roll bars within the driver's reach must be padded with an accepted material as determined by an official. Fire retardant material is highly recommended.
- 5.3 Installation and workmanship must be acceptable to officials.
- 5.4 Must be frame-mounted in at least six (6) places.
- 5.5 Must consist of a configuration of front and rear hoops connected by tubing on the sides or side hoops.
- 5.6 With helmet on and driver securely strapped into the racing seat, top of driver's head must not protrude above the roll cage.
- 5.7 Must have a protective screen or bars in front window opening in front of driver's face.
- 5.8 Protection of driver's feet utilizing a bar across the back of the engine with vertical bars and rub rails or similar protection is mandatory.
- 5.9 Brace bars forward of roll cage may not be higher than the stock hood height.
- 5.10 A minimum of three (3) driver side door bars must be parallel to ground and located perpendicular to the driver so as to provide maximum protection for the driver, but without causing undue difficulty in getting in or out of the racecar. Side bars must be welded to the front and the rear of the roll cage members. Door bars with a thickness of less than nine-tenths (.090) of an inch should have four (4) bars at least one and one-half (1-1/2) inches in diameter at a minimum of eighty-three one-hundredths (.083) of an inch thickness and be gusseted in place. The door bars must have six (6) vertical studs per side of one and three-quarters (1-3/4) inches by eighty-three one-hundredths (.083) of an inch minimum seamless round tubing equally spaced.

## **ARTICLE 6: FRAME**

- 6.1 Factory production complete full 1960 or newer parallel American passenger car frames only. Frames may be cut in rear only at a point not further than thirty-six (36) inches from center of rear end housing.
- 6.2 May only be altered for the installation of springs and shocks.
- 6.3 All components must be made of steel and be properly welded.
- 6.4 Must be full and complete on both sides, may not be widened or narrowed and must be able to support roll cage on both sides.
- 6.5 Minimum height from ground is four (4) inches (*Exception*: front cross member may be notched for radiator clearance only). Right front frame rail must be a maximum of seven and one-quarter (7.25) inches above the ground.
- 6.6 No Jeep, Bronco or similar four-wheel drive frames allowed. No sports car frames allowed. No front-wheel-drives allowed.
- 6.7 Rear of frame may be altered to accept leaf or coil springs.
- 6.8 No hydraulic, ratchet or electric weight jacks anywhere on the racecar. Aluminum jack bolts are not allowed.
- 6.9 Wheelbase must be a minimum of one-hundred eight (108) inches on both sides (no tolerance).
- 6.10 Tubular front clips are not allowed.
- 6.11 Maximum overall width of car (at front or rear) shall not exceed seventy-eight (78) inches from outside of tread to outside of tread (no tolerance).

## **ARTICLE 7: COCKPIT**

- 7.1 Loose objects and/or weights are not allowed.
- 7.2 Air bags are not allowed.
- 7.3 Rear view mirrors are not allowed.
- 7.4 Floor and firewall must be complete in the driver's compartment. No interior sheet metal can be higher than or enclose a standard window opening. Sheet metal in the driver's compartment must be horizontal from the top of the driver shaft tunnel to the right side door bars or angle from the top of the drive shaft tunnel upwards to the top of the right side door bars. Driver must be able to exit the racecar from both sides.

### **7.5 Steering:**

- 7.5.1 Must be OEM and must remain within original bolt pattern for type of frame used
- 7.5.2 Rack and pinion is not allowed.
- 7.5.4 May be modified to suit driver, but must remain on left side of cockpit (no center steering).
- 7.5.5 Quick-release metal coupling on steering wheel is mandatory. Plastic couplings are not allowed.

**7.6 Seat:**

- 7.6.1 Factory-manufactured racing seats are mandatory, and must be acceptable to officials.
- 7.6.2 Homemade aluminum, plastic or fiberglass seats are not allowed.
- 7.6.3 Must be properly installed and seat back cannot be moved back further than rear edge of quarter post.
- 7.6.4 High-back aluminum seats only. **Full containment racing seats are strongly recommended.**

**ARTICLE 8: SUSPENSION**

- 8.1 Must remain stock-type for the type of frame being used. Steel aftermarket parts may be used as stock components as long as they mount in the stock location and are the same size as the OEM parts. This includes lower tubular A-frames. If using lower tubular A-frames, must match factory specs.
- 8.2 Aluminum and/or titanium components are strictly forbidden. Magnet must stick to all components.
- 8.3 Steel tube-type upper A-frames are allowed and may be moved. **Steel or aluminum cross shafts are permitted.**
- 8.4 **Coil-over springs are not allowed on the front.**
- 8.5 Stock passenger car spindles only. Fabricated spindles are not allowed. Bottom A-frames may not be altered, lightened or moved.
- 8.6 Front sway bars may be used. Front sway bars must be made of steel and may be attached to the bottom A-frame using steel heim joints. Must be solid full-length OEM.
- 8.7 Rear panhard bars may be used. Must be made of steel and may be attached by using a minimum three-quarter (3/4) inch i.d. steel heim joint.
- 8.8 Steel coil-over eliminators or steel/aluminum coil-over kits are permitted on the rear only, but must conform to shock and spring rules.
- 8.9 Suspension and/or rear-end parts must be made of steel. Aluminum mounting brackets are permitted.
- 8.10 Shocks & Springs:**
  - 8.10.1 One shock only per wheel is permitted.
  - 8.10.2 Aluminum heims on shocks are not allowed (steel caps only).
  - 8.10.3 Air shocks are not allowed.
  - 8.10.4 All coil springs must be at least four and one-half (4-1/2) inches outside diameter. Springs must be made of steel. Torsion bars are not allowed in rear.
  - 8.10.5 Canister shocks are not allowed.
  - 8.10.6 External rubber bump stops are permitted (steel or plastic cup only).
  - 8.10.7 Shocks shall be subject to claim, as outlined in Claim Procedures (Article 19).
  - 8.10.8 **Progressive springs are not allowed (except on pull bar or lift bar).**

**ARTICLE 9: ELECTRICAL SYSTEM**

**9.1 Battery:**

- 9.1.1 Must be securely mounted **and covered.**
- 9.1.2 One (1) 12-volt or 16-volt battery is permitted.
- 9.1.3 Voltage converters are not allowed.
- 9.1.4 **Positive battery posts must be covered.**

**9.2 Ignition:**

- 9.2.1 Magnetos and/or crank-triggered ignitions are not allowed.
- 9.2.2 One (1) coil only is permitted.
- 9.2.3 Kill switch required within easy reach of the driver. The switch must be clearly marked "off" and "on".
- 9.2.4 MSD ignition boxes shall be subject to claim, as outlined in Claim Procedures (Article 19).
- 9.2.5 **Must utilize an 8,000 RPM rev-limiting chip (7,500 if utilizing CT525 Crate Engines). Chip may not be within reach of the driver while in cockpit and must be accessible to officials at any time. Track will distribute chips to each driver each race night. Any driver caught altering the chip or ignition system in any way so as to defeat the chip rule shall receive a 30-day suspension, loss of all track and national points for the night and a \$1,000 fine for the first offense. Second offense shall be a one-year suspension, loss of all track and national points for the season and a \$2,000 fine.**

## **ARTICLE 10: FUEL SYSTEM**

### **10.1 Fuel:**

- 10.1.1 Must be automotive gasoline or alcohol only. Additives of any kind are not allowed. E85 ethanol or racing fuel is permitted. Penalty for illegal fuel is loss of points, cash and awards earned for that event.
- 10.1.2 May not be blended with ethers or other oxygenates, and may not be blended with aniline or its derivatives, nitro compounds or other nitro containing compounds. **Oxygenated fuel is not allowed.**
- 10.2 Electric fuel pumps are not allowed.

### **10.3 Carburetor:**

- 10.3.1 One (1) two-barrel, four-barrel or Predator carburetor properly installed will be permitted.
- 10.3.2 Must be naturally aspirated.
- 10.3.3 Fuel injection is not allowed.
- 10.3.4 **An adapter with gasket is permitted. Adapter and gasket combined may be no more than two and one-quarter (2.25) inches.**

### **10.4 Fuel cell:**

- 10.4.1 Must be commercially manufactured and must be mounted utilizing at least two (2) steel straps. Straps must be two (2) inches wide at all measuring points.
- 10.4.2 Must be enclosed in a steel container and must be protected in rear of axle by roll cage tubing mounted securely.
- 10.4.3 No part may be lower than protective tubing. Protective tubing must be no wider than six (6) inches on both sides. **Fuel cell may be no lower than ten (10) inches from the ground.**
- 10.4.4 Must have check valves.
- 10.4.5 Limited to a maximum capacity of thirty-two (32) gallons.
- 10.4.6 Must have check valves. A ball-type, flapper or spring or filler rollover valve is mandatory for fuel cells without a positive seal filler neck/cap system.

## **ARTICLE 11: TIRES & WHEELS**

### **11.1 Wheels:**

- 11.1.1 Must be fifteen (15) inches in diameter and eight (8) inches in width.
- 11.1.2 Stickers are not required.
- 11.1.3 Must be reinforced steel only.
- 11.1.4 A steel or aluminum bead lock may be used on the right front and right rear wheels only, and may be mounted on the outside of the wheel so long as it does not add over three-quarters (3/4) of an inch to the overall width of the wheel.
- 11.1.5 Homemade mud caps are not allowed.
- 11.1.6 Wheel covers are allowed on right side wheels only. **Inner mud plugs are permitted.**
- 11.1.7 Wide five wheel adaptors are not allowed.
- 11.1.8 Steel or aluminum spacer between hub and wheel is allowed, but overall width of racecar cannot exceed 78 inches (see Rule 4.19).
- 11.1.9 Aluminum or steel lug nuts are permitted.

### **11.2 Tires:**

- 11.2.1 American Racer G60 or KK704 stamped or non-stamped tires are permitted. All non-stamped tires must be asphalt (no dirt).
- 11.2.2 Softening is not allowed. **Solvents of any kind are not allowed. Altering tires with any components or chemicals which alter the manufacturer's baseline-settings of the tire is not allowed.**
- 11.2.3 Grooving and/or siping is permitted.
- 11.2.4 **All sidewall markings must remain visible at all times. Buffing or removing of the compound designations is not allowed.**

### **11.3 Tire Testing Procedures:**

- 11.3.1 **Random GC (gas chromatography) scans will be performed to identify illegal substances. A GC scan should always be a peak in 19-20 minutes. If there is no peak, the driver will be disqualified. Driver may protest the GC scan results and request a mass spec test at the cost to the driver (usually around \$300). The mass spec test will reveal exactly what substance was used. The main peak of the tire should never be in half.**
- 11.3.2 **Traces of Toluene on either test is automatic disqualification and will result in loss of all points accumulated for the season, forfeiture of all prize money earned for the event and a \$3,000 fine (in**

addition to any other penalties). Driver will not be allowed to compete in any USRA-sanctioned event again until fine is paid in full.

11.3.3 It is strongly recommended that all drivers use only soap and water. Baking tires will not eliminate traces of illegal substances. The USRA will aggressively test for illegal substances and will levy severe punishment for infractions.

## **ARTICLE 12: BRAKING SYSTEM**

- 12.1 Must be operating on all four wheels and must lock up all four wheels during inspection.
- 12.2 Must have caliper and rotor on all four wheels. Vented rotors are required on front wheels.
- 12.3 Electronic brake actuators are not allowed.
- 12.4 Calipers may not be lightened and must be OEM
- 12.5 Steel or aluminum single-piston OEM-type calipers are allowed.
- 12.6 Rotors must be steel and may not be lightened or drilled. Rotors may be re-drilled for different bolt patterns or larger studs.
- 12.7 Front-to-rear brake bias is allowed.
- 12.8 Brake shut-offs are not allowed.
- 12.9 Brake lines must be visible.
- 12.10 Must maintain minimum OEM dimensions for hubs, rotors and calipers.

## **ARTICLE 13: DRIVE SHAFT**

- 13.1 A loop is required and must be constructed of at least one-quarter (1/4) inch by two (2) inch solid steel. Loop must be mounted no more than six (6) inches from the front of the drive shaft tube. Alternatively, two (2) loops of one-quarter (1/4) inch by one (1) inch solid steel fastened to cross member are allowed.
- 13.2 Must be painted white.
- 13.3 Must be made of steel.

## **ARTICLE 14: TRANSMISSION**

- 14.1 OEM three-, four- and five-speed and automatic production-types allowed.
- 14.2 "In and out" boxes are not allowed.
- 14.3 Must all be clutch-operated.
- 14.4 Bert and Brinn transmissions are allowed. With motor running and racecar in stationary position, driver must be able to engage racecar in gear and move forward, then backward, at time of inspection.
- 14.5 Clutch must be inside of bell housing for OEM production-types.
- 14.6 One (1) forward gear and one (1) reverse gear must be in working order, plus a neutral position, and must be able to be shifted by driver.
- 14.7 Clutch-type transmissions must be equipped with an explosion-proof steel bell housing. Aluminum must be SFI-approved (GM bell housing is not SFI approved).
- 14.8 Automatic, Bert or Brinn transmissions must have a guard two-hundred seventy (270) degrees around flex plate or flywheel, and must be constructed of at least one-quarter (1/4) inch steel. Alternatively, automatic transmissions may utilize an SFI-approved aftermarket guard.
- 14.9 All racecars must have the capability of starting without being pushed or pulled.

## **ARTICLE 15: REAR-END**

- 15.1 Any passenger car or truck type is permitted. Aluminum is not allowed except lowering blocks, axle cap and drive plate.
- 15.2 Quick change rear-ends are permitted: Steel tubes only; ten (10) inch ring gear only; pinion and carrier bearings must be tapered; titanium is not allowed; wide-five wheel patterns are not allowed; aluminum spools are permitted. Magnesium will be permitted until such date that the cost increases, at which time only magnesium rear-ends purchased prior to that date will be permitted and must have original serial number.
- 15.3 Cambered rear-ends are not allowed. One-piece drive flange only.
- 15.4 Traction devices are not allowed (includes Gold Track, True Track or similar type components).

## **ARTICLE 16: ENGINE**

- 16.1 Must be able to be used in conventional passenger car without alteration. Motor mounts may not be removed or altered. Castings (includes block, heads and intake) and fittings may not be changed. Machine work on outside of engine, or on front or rear of camshaft, is not allowed. Racecars utilizing lightened blocks (removal of material from inside and/or outside) must add twenty-five (25) pounds of additional weight in front of the mid-plate.
- 16.2 Total "dry sump" systems are not allowed. "Wet" system must be operative.
- 16.3 Modification of cooling system is permitted. Radiators and oil coolers may not protrude above interior.
- 16.4 Any American make may be used. Rear of engine (bell housing flange) must be mounted at least seventy-two (72) inches forward from the center line of the rear axle – NO TOLERANCE.
- 16.5 Offset must be within two (2) inches of centerline of front cross member.
- 16.6 Must be a minimum of eleven (11) inches from ground to front center of crankshaft.
- 16.7 Steel blocks only –aluminum and/or titanium are not allowed.
- 16.8 Overflow tubes must be directed toward the ground and inside the frame rails.
- 16.9 Radiator must be mounted in front of engine.
- 16.10 Wiring elements must be accessible for technical inspection. Any racecar advancing spots and missing will be subject to disqualification.
- 16.11 Tri-Y headers are permitted, but cannot contain stainless steel.
- 16.12 Exhaust system and/or mufflers must be mounted in such a way as to direct spent gases away from the cockpit and away from areas of possible fuel spillage.
- 16.13 Mufflers may be required at track's discretion.
- 16.14 Roller cams are permitted.
- 16.15 Engine type shall determine overall racecar weight (see Rule 17.2), spoiler height (see Rule 4.11.1) and RPM limits of the rev-limiting chip (see Rule 9.2.5).
- 16.16 Flat Tappet/Steel Head Engine:**
  - 16.16.1 Stock diameter lifters only. Mushroom lifters are not allowed.
  - 16.16.2 Stud girdles and shaft rockers are permitted.
  - 16.16.3 Engine components must be of matching manufacturers (i.e. Chevy for Chevy).
- 16.17 BRODIX Aluminum Spec Head Engine:**
  - 16.17.1 Approved product numbers for the BRODIX Aluminum Spec Head are SPCH (Chevrolet), SPFO (Ford) and SPMO (Mopar) for USRA. For more information call BRODIX at 479-394-1075 or visit [www.brodix.com](http://www.brodix.com) online.
  - 16.17.2 Removing, relocating, grinding, polishing or defacing of any cast letters or numbers is strictly forbidden.
  - 16.17.3 May be angle milled, but valve angle must remain within one (1) degree of original manufactured specification.
  - 16.17.4 Valve guides must retain original angle and spacing as manufactured. Valve guides may not be tapered, thinned or shortened whatsoever. Minimum valve stem diameter must be 5/16 (.310) inch.
  - 16.17.5 Absolutely no welding or adding material of any kind.
  - 16.17.6 Removal of material is not allowed, except for pushrod clearance. Factory CNC chamber may not be altered in any way.
  - 16.17.7 Absolutely no enlarging, relocating or other altering of any bolt hole, dowel hole or threaded hole, except to spot face bolt holes after angle milling.
  - 16.17.8 Heli coils may be used for repairs.
  - 16.17.9 Absolutely no grinding or polishing of any kind anywhere on the casting, except for pushrod clearance.
  - 16.17.10 Internally-repaired BRODIX Aluminum Spec Head must be recertified by BRODIX.
  - 16.17.11 BRODIX Aluminum Spec Head checking fixtures will be used by officials to check all specifications and dimensions.
- 16.18 CT525 Crate Engine:**
  - 16.18.1 GM Performance Parts (GPP) factory-sealed CT525 Chevy small block crate engine (Part No. 19171821): includes aluminum block and heads, hypereutectic aluminum pistons, nodular iron crank and hydraulic roller tappet camshaft. For more information call Karl Performance Parts at 866-551-9188 or visit [www.karlperformanceparts.com](http://www.karlperformanceparts.com) online.
  - 16.18.2 Must have "Crate" sticker on racecar. Any driver running a sticker designating a different engine with a "Crate" sticker will be disqualified with loss of points and earnings for that event.
  - 16.18.3 Must be unaltered and sealed from factory at appropriate points (intake, head, timing chain cover and oil pan) with approved GPP break-off bolts. Any altered, damaged or missing GPP break-off bolts will result in driver being disqualified from that event, loss of all track and national points accumulated up to, and

including, the date of the offense, a \$5,000 fine and a one-year suspension from all USRA-sanctioned events.

16.18.4 Official and/or promoter reserves the right to exchange a crate engine for a similar crate engine of the same model (provided by the promoter or the USRA) at any time with any driver utilizing a crate engine.

## **ARTICLE 17: WEIGHT**

17.1 The overall weight of the racecar shall be measured at the conclusion of an event with the driver in the cockpit, wearing complete racing apparel.

### **17.2 Overall Racecar Weight:**

17.2.1 If utilizing a Flat Tappet/Steel Head Engine with a 23-degree valve angle (see Rule 16.16) or BRODIX Aluminum Spec Head Engine (see Rule 16.17), the overall weight of the racecar must be a minimum of two-thousand four-hundred (2,400) pounds.

17.2.2 If utilizing **steel or aluminum** heads with a 23-degree valve angle, the overall weight of the racecar must be a minimum of two-thousand four-hundred fifty (2,450) pounds.

17.2.3 If utilizing steel or aluminum raised runner heads, or less than a 23-degree valve angle, the overall weight of the racecar must be a minimum of two-thousand five-hundred (2,500) pounds.

17.2.4 **If utilizing the CT525 Crate Engine (see Rule 16.18), the overall weight of the racecar must be a minimum of two-thousand two-hundred (2,200) pounds.**

17.3 If utilizing aluminum heads other than the BRODIX Aluminum Spec Heads, racecar must have a minimum fifty (50) pounds of weight in front of mid-plate.

### **17.4 Ballast:**

17.4.1 May not be mounted in cockpit, or outside of body or hood area.

17.4.2 Must be securely mounted, painted white and clearly marked with the car number.

17.4.3 Must be attached with at least two (2) one-half (1/2) inch bolts.

17.4.4 May not be attached to rear bumper.

## **ARTICLE 18: SAFETY**

18.1 It is recommended that each racecar have built-in fire extinguishing equipment, but cannot be of the dry powder type (must be Halon 1211 or equivalent).

18.2 Drivers should have in their pit area as part of their equipment, at all times, a fully charged dry chemical, Halon (or its equivalent) fire extinguisher. Ten (10) or thirteen (13) pound fire extinguishers are highly recommended.

18.3 Driver must wear required helmet, fire suit and five-point safety harness whenever the racecar is on the racetrack. This includes during track packing, warm ups, hot laps and races.

18.4 Helmets are mandatory and must be certified Snell SA2000, SA2005 **or SA2010 Standard or SFI Spec 31.1A, 31.1/2005 or 31.1/2010.**

18.5 Helmet must accompany driver and racecar at time of inspection.

18.7 Complete one- or two-piece fire suits of a flame retardant nature are mandatory. **A fire suit certified to SFI Spec 3.2A/5 is strongly recommended.**

18.8 SFI-approved fire-resistant gloves and shoes are mandatory. **Gloves and shoes certified to SFI Spec 3.3/5 is strongly recommended. Fire resistant socks are strongly recommended.**

18.9 The use of a five- six- or seven-point driver restraint system (safety belts, sub-belt and shoulder harness) is required. Factory-type shoulder belts or straps are not allowed. **The use of a seven-point driver restraint system certified to SFI Spec 16.1 or 16.5 is strongly recommended.**

18.10 Metal to metal buckles are required on shoulder and seat belts.

18.11 Shoulder harness must be mounted securely to the roll cage.

18.12 Where the belt passes through the seat edges, a grommet must be installed, rolled and/or padded to prevent cutting of the belt.

18.13 **Driver restraint system must be less than three (3) years of age past the date of manufacture. It is recommended that the driver restraint system be no more than two (2) years past the date of manufacture.**

18.14 Full-size window net mounted in the left side driver's window opening is required. Window net mounts must be welded to the roll cage. All bars around the driver must have approved roll bar padding. Approved racing arm restraints are recommended. **Must be certified to SFI Spec 27.1.**

18.15 Fire-resistant safety neck collars are mandatory.

## ARTICLE 19: CLAIMING PROCEDURES

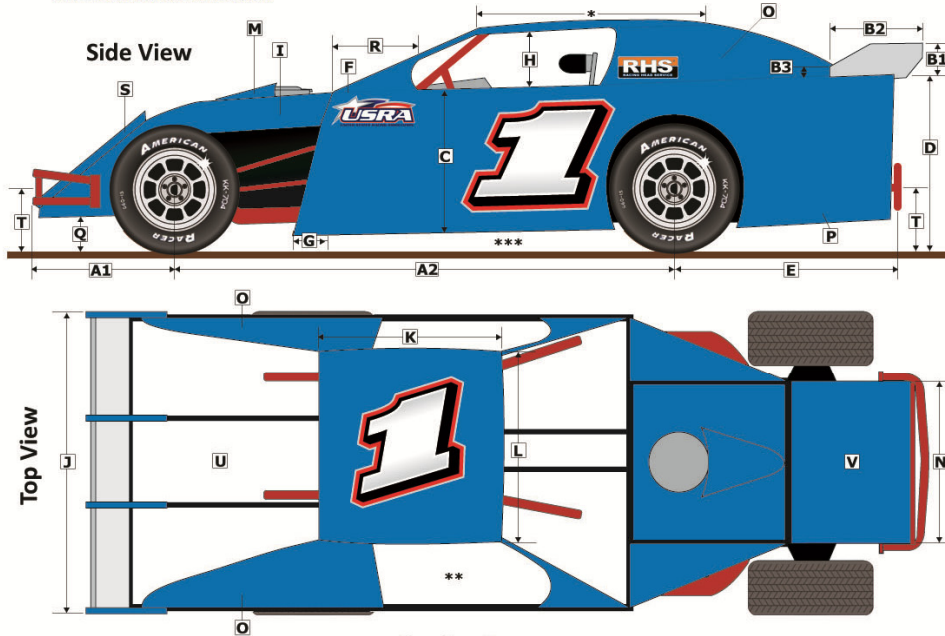
- 19.1 Any driver possessing a valid USRA license may have the opportunity to execute a claim on shock(s) or MSD ignition box of another driver's racecar.
- 19.2 The first **four (4)** finishers in the main event must drive their racecars directly to the designated claim area at the conclusion of the main event, and are subject to being claimed by any other driver that finishes **fifth** or lower and finishes on the same lap as the winner.
- 19.3 Claims must be made within five (5) minutes of the completion of the main event. Claimed items must be removed at the racetrack and within one (1) hour after claimed driver accepts the claim.
- 19.4 Driver making claim must drive his/her race car immediately after finish of feature, under its own power, directly to the claim area.
- 19.5 Claiming driver must present claim card and cash to official overseeing the claim area at the time that the driver declares his/her intention to claim. The cash price of the claim shall \$100 each for shocks; or \$250 for MSD ignition boxes. Drivers claiming shocks may claim one (1) or more shocks during a single claim.
- 19.6 **Claiming driver shall select from the first four (4) finishers in the main event, and must declare that choice to the official overseeing the claim area.** If the claiming driver decides at that time that he/she does not wish to execute the claim, he/she will nonetheless be charged one claim on his/her claim card. If multiple drivers declare an intention to claim, the driver finishing farthest back in the main event will draw first.
- 19.7 Driver is allowed one (1) claim per event, regardless of the outcome of that claim.
- 19.8 Only drivers and officials are allowed in the designated claim area. Any other participants associated with that racecar that enter the claim area will be subject to disqualification, fine and/or suspension.
- 19.9 Only a driver may claim, and only the claimed driver may agree to accept or refuse the claim. The first statement of acceptance or rejection of the claim by the claimed driver is binding.
- 19.10 Any driver refusing to accept a claim will forfeit all cash and contingency winnings for that event.
- 19.11 Any driver refusing to accept a claim forfeits his/her right to make a claim in any USRA event for a period of one (1) year from the date of refusal.
- 19.12 Any driver refusing to accept a claim will forfeit all USRA points (national and track) accumulated up to, and including, the event at which the claim was made.
- 19.13 First refusal to accept a claim will result in that driver being suspended from all USRA events for thirty (30) days and until a \$1,000 fine is paid and received at USRA headquarters. Second refusal to accept a claim will result in that driver being suspended from all USRA events for one (1) year and until a \$5,000 fine is paid and received at USRA headquarters.
- 19.14 Any driver found to be making a claim for another person will lose all USRA points (national and track) accumulated to date for the entire season, all cash and contingency winnings for that event, and will be suspended from all USRA events for thirty (30) days and until a \$1,000 fine is paid and received at USRA headquarters.
- 19.15 Sabotage of claimed parts will result in driver being suspended from all USRA events for fourteen (14) days and until a \$1,000 fine is paid and received at USRA headquarters. Driver will also forfeit all USRA points (national and track) accumulated up to, and including, the event at which the sabotage occurred. Furthermore, driver will forfeit the privilege to make a claim for a period of one (1) year from the date on which the sabotage occurred.
- 19.16 Driver may claim a maximum of three (3) times during the calendar year.
- 19.17 After making an accepted claim, driver must finish in the top **four (4)** of a main event and reinstate his/her claim card. Cost is \$25 for reinstatement of claim card. Driver will not be eligible to make another claim unless claim card is reinstated.
- 19.18 Cost for replacement of a lost claim card is \$25.
- 19.19 Driver must compete in a minimum of three (3) **consecutive** events prior to the event at which he/she makes a claim.
- 19.20 The USRA reserves the right to disallow any claim at their discretion.
- 19.21 Drivers utilizing a provisional starting position in the main event are not allowed to make a claim in that event.
- 19.22 At their discretion, officials reserve the option to claim the shock(s) or MSD ignition box of any racecar. Officials may exchange MSD ignition boxes at any time.
- 19.23 Drivers will be eligible to make a claim during the first event of the season. After one event, driver must have raced in previous events before Rule 19.19 applies.

19.24 Disqualification shall not affect a legal claim. Claimed parts will be removed and transferred prior to any penalties being assessed.

## APPENDIX A: BODY SPECIFICATIONS

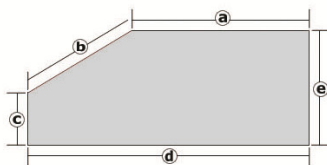


### 2011 USRA RHS MODIFIED BODY SPECIFICATIONS



- A1. Maximum 42".
- A2. Minimum 108".
- B1. Maximum 5" or 8" (see Engine Rules).
- B2. Maximum 24" long; Maximum 2" above and 2" behind spoiler; Maximum 2 center and 2 side supports.
- B3. Maximum 5" tall from deck lid to end of angle. No square or rectangular supports.
- C. Minimum 22"; Maximum 30".
- D. Maximum 39" (no tolerance).
- E. Minimum 34"; Maximum 48".
- F. Top of door and deck to rear of block.
- G. Maximum 8" forward from rear of block.
- H. Minimum 12"; Maximum 18".
- I. Maximum 6" sides; Maximum 5" slope.
- J. Minimum 53"; Maximum 66" (must be same front to back).
- K. Minimum 40"; Maximum 56".
- L. Minimum 44"; Maximum 50".
- M. Maximum 6" high.
- N. Maximum 40" (must be inside bumper braces).
- O. Sail panels must be same on both sides.
- P. Maximum 6" plastic skirt.
- Q. Minimum 7".
- R. Maximum 20".
- S. Maximum 2", bent same (both in and out) and flush with hood.
- T. Minimum 16" and maximum 20" to center from ground.
- U. Deck must remain flat from side to side, except for cockpit (maximum 8" rake from front to rear). If doors remain flat, only maximum 4" rake permitted.
- V. Nose may not extend past front bumper. Maximum 2" lip on the nose is permitted, but may go no further than leading edge of hood. Hood must slope forward toward nose of racecar.
  - \* Maximum 5" front clearance and 2" rear clearance using 4" level.
  - \*\* Driver may be asked to exit right side of car with helmet on if Official deems interior shield to be too large or otherwise unsafe.
  - \*\*\* Minimum 3" from ground to body; Minimum 4" from ground to frame.

#### Spoiler Braces



- |                   |                   |
|-------------------|-------------------|
| <b>8" Spoiler</b> | <b>5" Spoiler</b> |
| a: 12" Maximum.   | a: 10" Maximum.   |
| b: 12" Minimum.   | b: 10" Minimum.   |
| c: 5" Maximum.    | c: 3" Maximum.    |
| d: 24" Maximum.   | d: 20" Maximum.   |
| e: 10" Maximum.   | e: 7" Maximum.    |

All spoiler supports must be of the same shape with a maximum of four supports. No mixing of the two outside supports. Metal braces in center are permitted. Spoiler must mount to deck. Supports may extend a maximum 3" above and maximum 2" behind spoiler.

**Spoilers:** If utilizing a Flat Tappet/Steel Head Engine (see Rule 16.16), BRODIX Aluminum Spec Head Engine (see Rule 16.17) or CT525 Grate Engine (see Rule 16.18), the maximum rear spoiler height shall be eight (8) inches. If utilizing any other steel or aluminum heads other than the BRODIX Aluminum Spec Heads, the maximum rear spoiler height shall be five (5) inches. Rear spoiler may not exceed the width of the rear deck lid and must be flush to the deck.

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## AMENDMENTS

2/14/2011 – Rule 17.2.1: Removed mushroom lifters from engine description as this was not required.  
 3/2/2011 – Rule 4.12.2: Added clarification that spoiler must extend to both sides of deck. Removed adjustable spoiler supports as this is addressed in previous rule; Rule 4.12.3: Moved specific measurements to Appendix A: Body Diagram; Rule 8.8: Clarified that steel coil-over eliminators or steel/aluminum coil-over kits are permitted on the rear only; Body Diagram: Changes spoiler braces to dimensions to match changes in spoiler rules for 2011. Item D changed from 38 to 39 inches with no tolerance. Item U changed rake maximums from 10 and 5 inches to 8 and 4 inches, respectively. Changed spoiler braces to reflect different measurements for 5- or 8-inch spoilers.

##

For rules clarifications or questions, call 515-825-8803 or email [tech@usrracing.com](mailto:tech@usrracing.com).

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