

UNITED STATES MODIFIED TOURING SERIES 2017 RULES & REGULATIONS

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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 2016 USMTS Rules & Regulations 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. 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 Modified Touring Series shall hereafter be simply referred to as USMTS throughout the rules description. USMTS official(s) shall include all personnel employed as an official by participating racetrack.

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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 USMTS-sanctioned competition between two or more 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 USMTS 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.
- 1.10 **OEM:** An original equipment manufacturer (OEM) manufactures products or components that are purchased by another company and retailed under that purchasing company's brand name. OEM refers to the company that originally manufactured the product. OEM replacement parts are those which have been manufactured by another company to the same specifications as the OEM parts.
- 1.11 **EIRI:** Except in rare instances.

ARTICLE 2: GENERAL RULES

- 2.1 USMTS rules shall apply at all events. All participants are subject to the rules of the USMTS and are expected to know the rules. An expressed ignorance of USMTS rules by any participant will not be recognized as a valid argument for failure to comply with USMTS rules.
- 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 USMTS 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 USMTS. 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 USMTS rules shall be considered to have engaged in unsportsmanlike conduct and shall be dealt with accordingly and swiftly by the USMTS. Unsportsmanlike conduct shall include, but is not limited to, participant entering another driver's pit area; threatening or touching an official; throwing a tantrum or acting outrageous due to an official decision; removing helmet during race conditions; use of profanity or obscene language directed at officials or other participants; intentionally making contact with another racecar following the finish of race or during a race under non-racing conditions (i.e. cautions, **warm up and/or cool down laps and in or on the way to pit area**); fighting; and/or publicly criticizing USMTS officials, rules, decisions or sponsors.
- 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 USMTS headquarters prior to participation of the driver in any event.
- 2.5 The USMTS 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 Drivers must properly display approved USMTS sponsor decals in order to participate in any cash or contingency award program related to that sponsor. Decals must be displayed on both sides of the racecar – not on deck or trunk lid - and must be of the original size and design distributed by the USMTS. At each event, drivers must properly display the approved USMTS logo decal in order to receive any points, prize money or contingency awards for that event.
- 2.7 No equipment or racecar will be considered as having been approved by reason of having passed through inspection unobserved.
- 2.8 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.
- 2.9 The USMTS reserves the right to add to, delete, supersede or modify any rule, exhibit or drawing that the USMTS deems necessary for the conduct of events and/or safety of participants. All amendments are effective on the

date of publication by the USMTS regardless of when a person subject to the rules receives actual notice of the amendment.

- 2.10 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.
- 2.11 All drivers are responsible for registering their racecar for each event in order to ensure their respective starting position in each event.
- 2.12 The USMTS and/or promoter reserve the right to refuse to accept the entry of any racecar or participant. Furthermore, the USMTS 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 USMTS.
- 2.13 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.
- 2.14 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 with no scanning capabilities to enable audio communication from officials to drivers. Furthermore, racecars may be fitted with a timing transponder as supplied by officials.
- 2.15 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.

2.16 Technical Inspections:

- 2.16.1 No fewer than the top three (3) finishers in the "A" Main will be required to report to a designated tech area following the "A" Main, where mandatory and varied post-race technical inspections will be performed.
- 2.16.2 At the discretion of the official(s) overseeing an event, any participant may be disqualified by the official(s) for violation of any USMTS rule(s) and/or equipment and/or action(s) deemed to be hazardous to other participants or officials.
- 2.16.3 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 USMTS events for fourteen (14) days, loss of all points earned to-date for the current season and forfeiture of all cash and/or awards earned at the event.
- 2.16.4 Any illegal part discovered through inspection **any time after the driver enters the grounds where an event is being held** can be confiscated by officials and forfeited by the driver. For first infraction, driver discovered to be using illegal parts of any kind **can be** subject up to a fine of two-thousand dollars (\$2,000), possible suspension from all USMTS events for up to fourteen (14) days, possible loss of all points earned to-date for the current season and possible forfeiture of all cash and/or awards earned at the event. For second infraction, driver discovered to be using illegal parts of any kind shall be subject to a fine of up to five-thousand dollars (\$5,000), possible suspension from all USMTS events for up to one (1) year, possible loss of all points earned to-date for the current season and possible 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. A "part" shall be defined as any piece of the racecar and/or competitor's apparel, including, but not limited to, tires, wheels, engine components, chassis components and fuel.
- 2.16.5 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.
- 2.16.6 All measurements must be made while the racecar is stationary on a flat horizontal surface.

2.17 Decals and Contingency Awards:

- 2.17.1 Drivers must properly display approved USMTS 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. Decals shall be distributed by the USMTS, along with a description of each sponsor's program, decal placement requirements and contact information.
- 2.17.2 Each racecar must properly display the approved USMTS logo decal in order to compete in any USMTS event and/or 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.
- 2.18 Decisions of the USMTS are final and binding without exception.

- 2.19 These rules have been set by the USMTS and are subject to change without notice. All rules are subject to change at any time and for any reason as deemed necessary by the USMTS in the best interest of the sport. 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 their racetrack and/or announced at drivers meeting. The USMTS will also publish any amendments to these rules on the USMTS website at www.usmts.com.

ARTICLE 3: POINTS, PROVISIONALS, AWARDS & PROCEDURES

3.1 Licenses:

- 3.1.1 The cost of a USMTS license shall be \$150 per region and \$150 for the Hunt for the USMTS National Championship (The Hunt). Alternatively, a driver may purchase a 20-race license which is good for 20 events in any region and/or The Hunt. There is no requirement that a driver purchase a USMTS license to compete in any event, but benefits enjoyed by licensed drivers include \$100,000 excess medical coverage, higher event purses and bonus payouts, increased tow money, discounted entry fees, contingency awards, points funds, increased media recognition, a personalized driver profile page on the USMTS website and more.
- 3.1.2 Driver must be licensed in the region for which an event is being held to earn points, points funds, provisionals and/or the licensed driver pay scale for that event.
- 3.1.3 Driver must be licensed prior to the start of an event in order to earn points for that event. Points will not be awarded retroactively.

3.2 Points:

- 3.2.1 In addition to possessing a valid USMTS license, drivers must also meet other eligibility requirements to earn points in an event, including, but not limited to, utilizing American Racer KK704 tires on all four wheels, and displaying the USMTS logo decal and certain mandatory sponsor decals.
- 3.2.2 **USMTS Points System:** Points will be awarded to each licensed driver in the "A" Main 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 "A" Main and finish below 23rd are awarded 50 points. All eligible drivers that fail to qualify for the "A" Main are awarded 45 points. Each driver that leads at least one (1) lap in the "A" Main will earn one (1) bonus point. The driver that leads the most laps in the "A" Main will earn two (2) bonus points (tie goes to the highest-finishing driver).
- 3.2.3 The USMTS National Championship will consist of two or three regions where drivers earn points to qualify for The Hunt. There are three ways to qualify for The Hunt: (1) After all events in a region have concluded, the driver finishing 1st place in the region will earn 20 points, 2nd-place finisher will earn 19 points and so forth descending to 6 points for the 15th-place finisher; (2) Each driver with perfect attendance in a region will earn an additional 10 points; (3) Drivers with a 20-race license will earn 10 points upon completion of 20 events prior to The Hunt. The total shall be used to calculate the base points for each driver to begin The Hunt (Note: driver may finish lower than 15th in regional points and still qualify for The Hunt with the 10 points for perfect attendance). Once all events in each region are complete and base points have been set, the USMTS points system will be used during The Hunt to determine the final series points standings.
- 3.2.4 If a tie should occur for any position among the top 15 drivers in regional or Hunt points, the tie shall be broken by the driver with the most wins during the region or The Hunt. Should a tie still exist, the next determining factor(s) shall be top-5 finishes, and then top-10 finishes, and then events started and then the highest finisher in the most recent event(s) in that region or The Hunt. Drivers that are tied for any other position(s) below 15th place shall remain tied (Note: points funds shall be awarded based on criteria in Rule 3.6.3).
- 3.2.5 To earn points in an event, driver must be in full uniform and must participate by being in the racecar and on the racetrack during hot laps (EIRI). If mechanical or other unforeseen circumstances prevent that driver from participating in hot laps or any race during an event, that driver will be credited for a start toward their attendance totals, but will be awarded no points for that event (EIRI).

3.3 Qualifying Procedures:

- 3.3.1 The following qualifying procedures are typical, but may be altered on a per-event basis when USMTS officials deem necessary due to car count, track or weather conditions, attrition, etc.
- 3.3.2 Drivers must draw for starting positions in heat races. Cut-off for draw is typically 15 minutes prior to start of hot laps. Drivers failing to draw before cut-off time shall be lined up at the rear of the earliest heat race with the smallest starting field.
- 3.3.3 Drivers failing to start their scheduled heat race shall be scored in last place for that heat race. Drivers shall not be allowed to start at the rear of another heat race if they fail to start their scheduled heat race.
- 3.3.4 For main event line-up purposes, heat races will award 59 points to the winner, then descending by 4 points for each finishing position thereafter (59-55-51-47-43-39, etc.). Each driver will earn an additional 1.5 points for each racecar passed in the heat race, based on actual starting position versus actual finishing position. The sum of

these points shall be the driver's total passing points. Typically, the top-12 drivers in passing points qualify for the first 12 starting positions in the "A" Main. Of those, the top-8 drivers in passing points will redraw for starting positions 1 through 8, with the remaining four drivers starting "heads up" by passing points in positions 9 through 12. Officials may elect to stage a "dash" race among the top 8 qualifiers to determine the starting line-up (this is not typical). Heat race passing points are not factored into the actual points earned for an event.

3.3.5 One or more "B" Mains will be staged with non-qualified drivers starting "heads-up" by passing points. The top-12 "B" Main finishers (typical) shall start the "A" Main heads-up by "B" Main finish in positions 13 through 24. If a "B" Main driver qualifies for the "A" Main but is unable to start the "A" Main, the next highest finisher behind that driver in the same "B" Main may advance to the "A" Main.

3.3.6 When the total number of entries for an event is 40 or less, 24 drivers shall start the "A" Main. When the total number of entries for an event is 41 or more, 26 drivers shall start the "A" Main.

3.4 Provisional Starters:

3.4.1 Driver must possess a USMTS license for the region/Hunt where an event is staged in order to be eligible for a provisional starting spot. Each licensed driver will be eligible for a maximum of two (2) provisionals in each region/Hunt for which the driver possesses a USMTS license. If a region/Hunt consists of ten (10) or more events, each licensed driver will be eligible for one (1) additional provisional after the driver completes his/her tenth event in the region/Hunt.

3.4.2 Provisionals at each event shall be awarded based on current points standings in that region/Hunt with a maximum of two (2) drivers added to the rear of the "A" Main field as provisional starters. The first event in each of the four regions will be based on previous year's points for that region/Hunt.

3.4.3 Provisional starters shall be awarded prize money for the difference of "B" Main (tow) money and their "A" Main finish money, but shall receive full points earned in the "A" Main.

3.4.4 If all licensed drivers qualify for the "A" Main, no provisional starter shall be added. However, track and/or event promoter(s) may elect to add provisional starters to the "A" Main at their discretion and cost, but those drivers will not earn any additional points in the "A" Main.

3.5 Top Dog Bonus:

3.5.1 Drivers in each region and/or The Hunt shall be guaranteed a minimum of \$400 in earnings at each event where that driver is ranked among the top ten (10) in points for that region and/or The Hunt.

3.5.2 To be eligible, driver must possess a USMTS license for that region and/or The Hunt and have perfect attendance in the region and/or The Hunt where the event is held.

3.5.3 The Top Dog Bonus will take effect beginning with the third race in each region, and will begin with the first event in The Hunt.

3.6 Points Funds:

3.6.1 Points funds shall be paid out to no fewer than the top ten (10) finishers in the final points standings of each region and The Hunt.

3.6.2 Points funds shall be prorated by percentage of events completed by the driver.

3.6.3 In the event of a tie in the final points standings for any position where points funds are awarded, the higher-ranked driver shall be the driver with the most wins. Should a tie still exist, the next determining factor(s) shall be top-5 finishes, and then top-10 finishes, and then events started and then the highest finisher in the most recent event (s) in that region and/or The Hunt. Drivers that are tied in positions that do not award points funds shall remain tied.

3.6.4 At the discretion of the USMTS, drivers may be required to attend the USMTS banquet at a time and place to be determined. Failure to attend the USMTS banquet may result in loss of all or part of points funds and/or year-end contingency awards.

3.7 Rookies:

3.7.1 Cash, trophies and contingencies designated for USMTS rookie drivers shall be awarded to drivers who fulfill and meet all minimum requirements for eligibility.

3.7.2 Driver shall earn points for events where that driver possesses a valid USMTS license in that region and/or The Hunt.

3.7.3 Driver may have participated in no more than twenty-four (24) USMTS events prior to the current year.

3.7.4 Driver may not have won a USMTS "A" Main during a prior year.

3.7.5 Driver may not have previously won a Rookie of the Year award or championship title with any similar (as determined by USMTS) series or sanctioning body.

3.7.6 Official decisions regarding rookie eligibility are final, binding and not subject to appeal.

3.7.7 Rookie points shall be awarded to each eligible driver based on the driver's best twenty-four (24) points-earning performances in all USMTS events during the year.

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 twenty (20) inches at bottom, going straight up to top.
- 4.4 A minimum window opening of twelve (12) inches must be maintained on all four (front, back, left and right) 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. Two (2) inch maximum roll, turned downward, is permitted along the front edge of the roof. No more than one-half (0.5) inch stiffener allowed at the rear of the roof and must turn down perpendicular to the ground. A single one (1) inch roof lip is allowed **on the left and right edges of the roof**. A maximum of four (4) inch sides on roof allowed. OEM Gremlin roofs are not allowed. Aluminum roofs are permitted but must remain flat and not concaved.
- 4.7 Sail panels must be of matching design with matching styles on both sides of racecar. Sail panels may have a maximum bow of four (4) inches top to bottom, maximum bow of three (3) inches front to back and may be no more than eight (8) inches above the back edge of deck.
- 4.8 Reverse hood rake is not allowed. Hood must be level or slope forward toward nose of racecar. Back of hood may be no more than two (2) inches above decking and sealed off completely. Lips on the sides of hood are not allowed. Hood must be flat from side to side (bowed or concave designs are not allowed).
- 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. A rock shield may be installed to protect the oil pan and the bottom of the motor, from the front cross member no further back than the rear engine mount (mid-plate/mid-mount) no wider than the radiator front to back.
- 4.10 Panel(s) (engine covers) in front of the door next to the engine compartment are permitted, but must maintain a six (6) inch gap from the door. One side must remain open for inspection of engine on the scales.
- 4.11 Bodies with excessive damage (as determined by an official) will not be allowed to compete.
- 4.12 Overall width of the racecar may not exceed 78 inches. Width shall be measured from the widest points on each side of the racecar.
- 4.13 The rear deck lid and/or trunk area must be covered.
- 4.14 Nose:**
- 4.14.1 **Maximum overall nose width is forty-two (42) inches. Two (2) inch nose fins are permitted along both sides of the nose. Nose fins may not pass the leading edge of radiator or continue past leading edge of hood. All aluminum of the nose (including the fins) must be completely inside the outer edges of the bumper. Nose fins must match side to side.** If it is between nose fins, it is considered to be the nose; if it separates from the hood, it is considered to be the nose.
- 4.14.2 Plastic valances and/or plastic nose pieces are permitted but no plastic may extend in front of the bumper. Plastic may flare past the sides of the bumper. **Aluminum or steel is not allowed outside the bumper.**
- 4.14.3 All nose piece components must be a minimum of five (5) inches above the ground.
- 4.15 **Maximum door and quarter panel height permitted is thirty-seven (37) inches total material.** Doors and quarter panels may be mounted a maximum of one (1) inch above the deck, and must match side to side –NO TOLERANCE. **A maximum five (5) inch plastic skirt on bottom of doors and quarter panels and nose piece is permitted.**
- 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 A maximum five (5) inch plastic skirt on bottom of doors and quarter panels and nose piece is permitted.
- 4.17 Spoilers:**
- 4.17.1 **All spoilers shall be measured as complete material height including hinge and all hardware associated with connecting the spoiler to the decking.**
- Option 1: Five (5) Inch Spoiler** – includes USMTS/USRA spec engine, **23-degree steel-headed flat tappet engine and GM CT525 crate engine.** The maximum rear spoiler height shall be five (5) inches.
 - Option 2: Six (6) Inch Spoiler** – includes USMTS/USRA concept engine or GM #88958604 or #19318604 crate engine (GM 604). The maximum rear spoiler height shall be six (6) inches.
 - Option 3: Three (3) Inch Spoiler** – includes open engine. The maximum rear spoiler height shall be three (3) inches.
- 4.17.2 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. Spoiler must remain flat.
- 4.17.3 Rear spoiler must remain separate from sail panels.
- 4.17.4 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 for dimensions).

- 4.17.5 Fins, wings, lips, deflectors or other air spoilers (except as noted above) are not allowed.
- 4.17.6 Any fins, wings, lips, deflectors or other permitted air spoilers must match corresponding part on opposite side of racecar.

4.18 Bumpers:

- 4.18.1 Center of bumpers (front and rear) must be a minimum sixteen (16) inches and a maximum twenty (20) inches from ground.
- 4.18.2 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 (1.25) inch tubing and must be able to support the racecar if lifted by a tow vehicle. Top bar must be directly above bottom bar.
- 4.18.3 Rear bumpers may be constructed of tubing or flat stock, and must protect the fuel cell. 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).
- 4.18.4 Any aluminum of the nose may not extend outside of front bumper. Plastic valances and/or plastic nose pieces are permitted but no plastic may extend in front of the bumper. Plastic may flare past the sides of the bumper but all nose piece components must be a minimum of five (5) inches above the ground.
- 4.18.5 Front bumper may be a maximum width of 44 inches from outside to outside.

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 USMTS, 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.

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: minimum one and one-half (1.5) inches by ninety-five one-thousandths (0.095) inch for mild steel and DOM tubing.
- 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 and uprights must be at least one and one-half (1.5) inches in diameter at a minimum of eighty-three one-thousandths (0.083) of an inch thickness and be gusseted in place. The door bars must have four (4) vertical studs per side and must be 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. All factory holes must be present for inspection. All measurements must meet the frame diagram

- tolerances listed or be within one-half (0.5) inch (either way) of OEM measurements on any measurement not listed on frame diagram – NO TOLERANCE.
- 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 Jeep, Bronco or similar four-wheel drive frames are not allowed. Sports car frames are not allowed. Front-wheel-drives are not allowed.
 - 6.7 Rear of frame may be altered to accept leaf or coil springs.
 - 6.8 Hydraulic, ratchet or electric weight jacks are not allowed 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, STEERING & SEAT

- 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. Minimum 0.125 inch aluminum, or 0.06 inch steel, complete floor pan required. 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 remain within original bolt pattern for type of frame used. Center link must match frame. Inner and outer tie rod end and adjustment sleeve may be replaced with a heim end and steel tube.
 - 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

Note: Spherical bearings may also be referred to as heims, heim joints, heim ends or rod ends. Axle housing mounts may also be referred to as birdcages.

- 8.1 Any new chassis design, component design and/or technology pertaining to and/or containing suspension must be submitted to, and approved by, the USMTS before these alterations will be permitted for use in competition. The manufacturer and/or competitor may be required to disassemble any part or assembly for inspection before in-statement of new part is permitted.
 - 8.2 Suspension and/or rear end parts must be made of steel. Aluminum and/or titanium components are strictly forbidden. Magnet must stick to all components. Aluminum mounting brackets are permitted only as follows: J-bar brackets (chassis and pinion), upper A-frame cross shafts and limiter chain brackets.
 - 8.3 Limiting (drop) chains may be utilized in the front and rear of the race car, and must be mounted vertically. Minimum three-sixteenths (3/16) inch diameter steel chain may be mounted to floating or bearing type brackets on the rear end, and must be bolted solid top and bottom on front suspension. Rubber bump stops are permitted only on limiter chains on rear end only. Canisters containing gas, oil or springs are not allowed in association with limiting chains.
 - 8.4 All chassis brackets and/or mounts must be welded or securely bolted to the chassis. Floating, pivoting and/or rotating mounts and/or brackets of any sort are not strictly forbidden. All bolted components must match the correct bolt size with the corresponding hole size (example: 1/2-inch bolt in 1/2-inch hole only).
 - 8.5 Suspension covers are not allowed. Tarps and/or covers on your race car are not allowed outside of your pit area. Spring and/or shock covers are permitted, but must be fastened directly to the spring or shock. Covers on the lift arm or pull bar are not allowed, and those areas must remain completely exposed.
- 8.6 Front Suspension:**

- 8.6.1 Front suspension must remain stock type for the type of frame being used. Steel aftermarket parts may be used as stock components but must mount in the stock location and be the same size as the OEM parts. This includes lower tubular A-frames. If using lower tubular A-frames, they must match factory specs. All parts must meet OE specs and match side to side. GM 1978-1988 metric "G" body frames are permitted to use the Nova lower "A" frames.
- 8.6.2 Steel tube-type upper A-frames are permitted and may be moved. Steel or aluminum cross shafts are permitted.
- 8.6.3 Only stock passenger car spindles are permitted. Fabricated spindles are not allowed. Bottom A-frames may not be altered, lightened or moved and must match side to side.
- 8.6.4 Front sway bars may be utilized. 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).
- 8.6.5 Coil-over springs are not allowed on the front.

8.7 Rear Suspension:

- 8.7.1 All rear suspension radius rods and lift arms must be of a fixed solid steel design. Hydraulic cylinders, torsion bars, bump rods, spring rods, slider rods and/or shock-type radius rods to locate the rear end are strictly forbidden.
- 8.7.2 Radius rod must be a minimum thirteen-sixteenths (0.8125) inch outside diameter; may be round, hex or square shape; minimum ninety-five one-thousandths (.095) inch steel thickness.
- 8.7.3 Only two (2) radius rods per side are permitted. **All rods must be of solid design. Spring and/or trick-type rods are not allowed.** One additional rod per side for brake floater only is allowed.
- 8.7.4 Axle Housing Mount (Birdcages)
 - a) Only one (1) birdcage per side is permitted. Birdcage may consist of multiple barrels but must bolt or be welded together to act as a single unit containing both the top and bottom radius rod connectors.
 - b) All bearings pertaining to birdcages must freely spin forward and backward.
 - c) Shock, radius rods and spring must mount to birdcage. If one rod is floated, the other rod must also be floated; If one rod is locked up, the other rod must also be locked up (one bracket). Exceptions:
 - 1) Swing arm type suspension where shock, spring or shock-spring combination is connected directly to one of the radius rods.
 - 2) Shock is mounted solidly to rear end axle tube.
 - 3) Spring is mounted solidly to rear end axle tubeIn Exceptions 2 and 3, mounts may be no more than seven (7) inches from center of axle tube to center of lower heim of shock or slider with bracket welded or securely bolted solid to axle tube.
 - d) One additional floated birdcage-style bracket is permitted per side to accommodate floated brake system only (one additional radius rod is permitted to control this bracket).
 - e) Floating, pivoting and/or rotating mounts and/or brackets of any sort on the birdcage are not allowed. All brackets or mounts must be welded or bolted solid. Cleaves-style rotating mounts will be permitted on birdcage only for mounting of shock and slider.
- 8.7.5 Only one (1) mechanical traction device is permitted. Only one (1) pull bar or one (1) lift arm is permitted. All other options are not allowed. Covers of any sort in any relation to the lift arm or pull bar are strictly forbidden. **Rubber bushings and/or biscuits are permitted on both lift arm and pull bar applications, but must be directly connected and functioning in relation to corresponding part only.**
- 8.7.6 Floating, pivoting and/or rotating mounts and/or brackets of any sort (connected to and/or associated with the pull bar or lift arm) are not allowed.
- 8.7.7 Lift arm is defined as a solid steel triangulated bar that is connected at the top (with one heim) and bottom (with one heim) of the rear end housing, extending forward where it is connected to a shock (that may utilize only the heim directly related to that one shock (ONE ON EACH END), shock-spring coil-over combination (that may utilize only the heims directly related to that one shock (ONE ON EACH END)) and a limiting chain (with or without a biscuit for cushion). One heim only is permitted in this configuration. One stabilizer bar is permitted to locate the front of the lift arm from left to right in the car.
- 8.7.8 Pull bar is defined as a continuous assembly (that may or may not contain a spring or biscuit assembly located inline to absorb torque) that is connected to the top of the rear end with one heim and extends forward to a solid mounting point located on the chassis where it is connected with one heim. The mounting location at both the front and rear of the pull bar may be adjustable but must remain constant during competition (cannot be adjustable from the cockpit).
- 8.7.9 Steel coil-over eliminators and/or steel-aluminum coil-over kits are permitted on the rear only, but must conform to shock and spring rules.
- 8.7.10 Rear panhard bars are permitted, but must be made of steel and may be attached by using a minimum three-quarter (0.75) inch i.d. steel heim joint.

8.8 Shocks:

- 8.8.1 Any new design of components pertaining to and/or containing shock absorber(s) must be submitted to, and approved by, the USMTS for approval before these designs will be permitted for use in competition. The manufacturer and/or competitor may be required to disassemble any part or assembly for inspection before in-statement of new part is permitted.
- 8.8.2 Only one shock per wheel is permitted (five total). Shocks must be mounted vertically **and no more than twenty (20) degrees from vertical (ninety (90) degrees) in any direction** (only exception is fifth shock may be mounted horizontally over pull bar). Dummy shocks in relation to functioning shock absorbers are not allowed (i.e. no dummy shocks to replace slider). Fifth shock is permitted only in relation to pull bar or lift arm (example: 90/10 mounted in line with the pull bar, this shock must run in same direction as the pull bar, shock on lift arm must be mounted as referred to in the lift arm summary in Rule 8.7.7). Shock may not be connected directly to the pull bar in any way.
- 8.8.3 All shocks must be made of steel (magnet must stick). Aluminum heims on shocks are not allowed (steel caps only).
- 8.8.4 Only conventional-type (closed on one end) shock absorbers are permitted. Only single-shaft shocks are permitted.
- 8.8.5 Air shocks and/or canister shocks are not allowed.
- 8.8.6 Inerter shocks, J-damper shocks, active mass damper shocks and/or through-rod-designed shocks are not allowed.
- 8.8.7 **Bump stops (rubber and/or spring-type), spring rubbers or any other limiting devices are not allowed on any suspension component including, but not limited in relation to: shocks, springs, upper or lower "A" frames (Exception; bump stops and/or various rubber biscuits are permitted in conjunction with the pull bar or lift arm assemblies only, limiting chains or blocks from rear-end housing to chassis, and one (1) rubber bushing on front shock is allowed no more than one-half (0.5) inch in total rubber thickness, plastic or steel shims and or cups only.**
- 8.8.8 Electronically-controlled and/or monitored shocks by any means or methods is strictly forbidden. Cockpit-adjustable shocks are not allowed.
- 8.8.9 Shocks shall be subject to claim, as outlined in Claim Procedures (Article 19).
- 8.9 Springs:**
- 8.9.1 One spring per wheel is permitted (five total). One additional spring is permitted in the center of the car pertaining to the traction device (i.e. spring on the pull bar or lift arm).
- 8.9.2 All coil springs must be at least four and one-half (4.5) inches outside diameter. Springs must be made of steel. Torsion bars in the rear are not allowed.
- 8.9.3 **Progressive, stacked and/or welded springs are not allowed.**
- 8.9.4 **Spring wire diameter and coil spread must remain consistent from one end to the other (Exception: last coil on each end may be closed and shaved off to create flat surfaces for mounting).**
- 8.9.5 **Only conventional spring mounting devices are permitted. Widgets, trick and/or spring-altering mounting devices are not allowed.**

ARTICLE 9: ELECTRICAL SYSTEM

9.1 Battery:

- 9.1.1 Must be securely mounted inside frame rails and covered. If mounted outside of frame rail, a nerf bar **(minimum one and one-quarter (1.25) outside diameter by ninety-three one hundredths (.093) thickness tubing)** must be installed around battery box for protection.
- 9.1.2 One (1) 12-volt or 16-volt battery is permitted. **One (1) additional 9-volt battery is permitted to run digital tachometer only.**
- 9.1.3 Voltage converters are not allowed.
- 9.1.4 All battery posts must be securely covered.

9.2 Ignition:

- 9.2.1 One (1) unaltered ignition system is allowed (no secondary or back-up systems). **Recommended: MSD 6CT #PN6427.**
- 9.2.2 Crank-triggered ignitions are permitted **only on** racecars utilizing a **GM CT525 crate engine. Must utilize MSD LS Series #PN6014CT set to the GM recommended preset.**
- 9.2.3 One (1) coil only is permitted.
- 9.2.4 Kill switch required within easy reach of the driver. The switch must be clearly marked "OFF" and "ON". Except for memory recall tachometer, electronic monitoring computer devices capable of storing and/or transmitting information are not allowed.
- 9.2.5 Ignition boxes shall be subject to claim, as outlined in Claim Procedures (Article 19).
- 9.2.6 Must utilize a maximum RPM rev-limiter for the following engine combinations: 375 cubic inch displacement engines or larger is **8,000**; 374 cubic inch displacement engines or smaller is **8,600**; USMTS/USRA concept engine

is 8,000; CT525 crate engine is 7,300; GM 604 crate engine is 6,800. Rev-limiter may not be within reach of the driver while in cockpit and must be easily accessible to officials at any time. Any driver caught altering the rev-limiter or ignition system in any way to defeat the rev-limiter 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.

- 9.2.7 Wiring elements must be accessible for technical inspection. Any racecar advancing spots and missing will be subject to disqualification.
- 9.2.8 **Cameras pointing to any moving or suspension parts are not allowed.**

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 is 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 **Maximum overall weight of tire and wheel for non-bead-lock wheels is forty five (45) pounds. Maximum overall weight for tire and wheel with bead-lock (including mud cover if it is utilized during competition) is fifty (50) pounds.**

11.2 Wheels:

- 11.2.1 Must be fifteen (15) inches in diameter, eight (8) inches in width **and minimum nineteen (19) pounds.**
- 11.2.2 Stickers are not required.
- 11.2.3 Must be reinforced steel only.
- 11.2.4 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 (0.75) of an inch to the overall width of the wheel.
- 11.2.5 Homemade mud caps are not allowed.
- 11.2.6 Wheel covers are permitted on right side wheels only **(5 fastener type recommended)**. Inner mud plugs are permitted. **All mud covers must display car number on at least one side.**
- 11.2.7 Wide five wheel adaptors are not allowed.
- 11.2.8 Spacer between hub and wheel is permitted, but **must be made of aluminum** only and overall width of racecar cannot exceed 78 inches (see Rule 4.19).
- 11.2.9 Aluminum or steel lug nuts are permitted.
- 11.2.10 **Absolutely no weight may be added to wheels in any fashion.**

11.3 Tires:

- 11.3.1 The only tire permitted is the American Racer G60-15 KK704 (Short, Tall or X-Tall). Tires **should durometer 50** or harder at the conclusion of any race. Any tire not meeting this durometer reading is subject to having a tire sample sent in for chemical testing.
- 11.3.2 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.

- 11.3.3 Grooving and/or siping is permitted.
- 11.3.4 All sidewall markings must remain visible at all times. Buffing or removing of the compound designations is not allowed.

11.4 Tire Testing Procedures:

- 11.4.1 Random lab testing will be conducted at USMTS convenience. Three (3) samples will be taken with at least three (3) slivers of tire per sample container. All three containers will be sealed, labeled and numbered in presence of driver and/or team member and at least one USMTS official. One sample will atomically be selected to be sent directly to the lab for testing, one sample will be given to the team to dispute in event of an issue and one will be kept by USMTS. If problems arise, the race teams' sample will be sent to the original lab for comparison to the benchmark. If second sample confirms the issue, immediate action will be taken as outlined in Rule 2.16.4. Second offenses may be met with up to a lifetime ban. If the first and second samples vary in results, the third sample will be sent to the lab for analysis. Majority (2 out of 3) wins. In addition to penalties and fines, the competitor will be responsible for all costs related to tire testing from their racecar at that event.
- 11.4.2 Traces of chemicals and/or excessive quantities of chemicals found to be outside the baseline on any test shall result in the penalties declared in Rule 2.16.4 plus an additional indefinite financial penalty and indefinite length of suspension. This penalty also applies to driver refusal of a tire test. Refusal of tire test shall be treated the same as an infraction. Official(s) may inspect any tire on the racecar and/or any tire in possession of the driver in his/her pit area and/or hauler (in other words, if you have "doped" tires then do not even bring them to the track).
- 11.4.3 It is strongly recommended that all drivers use only soap and water. Baking tires will not eliminate traces of illegal substances. The USMTS 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 and/or pads may not be lightened and must be OEM
- 12.5 Steel or aluminum single-piston OEM-type calipers are permitted. Piston diameter must be the same on all calipers.
- 12.6 Rotors must be steel and may not be lightened, scalloped or drilled but may be slotted. Rotors may be re-drilled for different bolt patterns or larger studs.
- 12.7 Front-to-rear brake bias is permitted (no left to right).
- 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 (0.25) 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 (0.25) inch by one (1) inch solid steel fastened to cross member are permitted.
- 13.2 Drive shafts must be painted white.
- 13.3 Aluminum drive shafts are not allowed. **Steel or carbon fiber drive shafts only (carbon fiber may have aluminum yokes).**

ARTICLE 14: TRANSMISSION

- 14.1 OEM automatic, three-, four- and five-speed production-type transmissions are permitted. Approved aftermarket transmissions are permitted.
- 14.2 "In and out" boxes are not allowed.
- 14.3 Must all be clutch-operated.
- 14.4 Approved aftermarket transmissions are Bert, Brinn, Falcon, RaceGator and Mitchell Machine Bullet Tranny with internal clutch.
- 14.5 Clutch must be inside of bell housing for OEM production-type transmissions (except as noted in Rule 14.4).
- 14.6 Clutch-type transmissions must be equipped with an explosion-proof steel bell housing. Aluminum must be SFI-approved (Note: GM bell housing is not SFI approved).
- 14.7 Automatic and aftermarket transmissions must have a guard two-hundred seventy (270) degrees around flex plate or flywheel, and must be constructed of at least one-eighth (1/8) inch. Alternatively, automatic transmissions may utilize an SFI-certified aftermarket guard. All flex plates must be SFI-certified.

- 14.8 With engine running and racecar in stationary position, driver must be able to engage racecar in gear and then move forward and then backward at time of inspection.

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).
- 15.5 Hub and/or drive flange assembly may not be oversized (heavy) and entire hub assembly must match both material and dimensions from side to side. Maximum drive flange diameter is seven (7) inches across, maximum thickness is three-eighths (.375) of an inch.
- 15.6 Excessive rotating weight is not allowed. Any weight being added to the rear-end must be secured directly to the rear-end housing in a fashion acceptable to track and/or series officials.

ARTICLE 16: ENGINE

- 16.1 General Engine Rules:** Unless otherwise noted, the following general engine rules apply to all engine options.
- 16.1.1 Engine type shall determine the overall weight of the racecar (see Rule 17.3), spoiler height (see Rule 4.12.1) and RPM limits of the rev-limiters (see Rule 9.2.5).
- 16.1.2 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. If utilizing lightened blocks (removal of material from inside and/or outside), an additional twenty-five (25) pounds of weight must be added in front of the mid-plate.
- 16.1.3 "Dry sump" systems are not allowed. "Wet sump" oil system only. Internal or external oil pumps are permitted, however, single pickup must remain in pan with a maximum one (1) pickup and one (1) return line. External remote oil tanks (dry sump tanks) are not allowed. Oil coolers and remote filters are permitted.
- 16.1.4 Modification of cooling system is permitted. Radiators and oil coolers may not protrude above interior.
- 16.1.5 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.
- 16.1.6 Offset must be within two (2) inches of centerline of front cross member.
- 16.1.7 Must be a minimum of eleven (11) inches from ground to front center of crankshaft.
- 16.1.8 Steel blocks only –aluminum and/or titanium are not allowed.
- 16.1.9 Overflow tubes must be directed toward the ground and inside the frame rails.
- 16.1.10 Radiator must be mounted in front of engine.
- 16.1.11 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. Mufflers may be required at track's discretion.
- 16.1.12 Roller cams are permitted, unless otherwise noted.
- 16.1.13 Intake manifolds must be made of cast iron or cast aluminum. External modifications to cast aluminum intakes are not allowed. Internal modifications are permitted.
- 16.1.14 Tri-Y headers are permitted, but cannot contain stainless steel.
- 16.1.15 Stud girdles and shaft rockers are permitted.
- 16.1.16 Engine components must be of matching manufacturers (i.e. Chevy for Chevy).
- 16.1.17 Heads may be angle milled, but valve angle must remain within one (1) degree of original manufactured specification.
- 16.1.18 Engine components must be of matching manufacturers (i.e. Chevy for Chevy).
- 16.1.19 Oil drain back and cooling lines are permitted.
- 16.2 BRODIX Spec Head Rules:** Unless otherwise noted, the following BRODIX spec head rules apply to both Engine Options #1 and Engine Option #2 below.
- 16.2.1 Approved product numbers for the BRODIX aluminum spec head are SPCH (Chevrolet), SPFO (Ford) and SPMO (Mopar) for USMTS/USRA. Call 479-394-1075 or visit www.brodix.com for more information.
- 16.2.2 Removing, relocating, grinding, polishing or defacing of any cast letters and/or numbers is strictly forbidden.
- 16.2.3 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 five-sixteenths (.310) inch.
- 16.2.4 Absolutely no welding or adding material of any kind.

- 16.2.5 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.
- 16.2.6 Heli coils are permitted for repairs.
- 16.2.7 Absolutely no grinding or polishing of any kind anywhere on the casting, except for pushrod clearance. Factory CNC chamber may not be altered in any way.
- 16.2.8 Internally-repaired BRODIX aluminum spec head must be recertified by BRODIX.
- 16.2.9 BRODIX aluminum spec head checking fixtures may be used by tech officials to check specifications and dimensions.

16.3 Engine Option #1: USMTS/USRA Spec Engine (2,450 lbs., 5" spoiler):

- 16.3.1 Roller cam or flat tappet cam is permitted.
- 16.3.2 All other BRODIX Spec Head Rules apply (see Rule 16.2).
- 16.3.3 Flat tappet 23-degree steel-headed engine and GM CT525 crate engine (see Rule 17.5 for complete details) will also fall under this option.

16.4 Engine Option #2: USMTS/USRA Concept Engine (2,400 lbs., 6" spoiler):

- 16.4.1 Any cast iron block is permitted. Unnecessary machine work inside or outside of block is not allowed. Lightening, coating, painting or any other work to inside of intake manifolds, heads and/or block lifter galley is not allowed.
- 16.4.2 Maximum 14:1 compression is permitted.
- 16.4.3 Steel oil pan only is permitted. Wet sump system only is permitted. Cast iron oil pump must be in stock location. Oil pan must have inspection hole.
- 16.4.4 Unaltered aluminum intake is permitted. Must be seven and one-quarter (7.25) inches from bottom of intake to base of carburetor, including spacer and gaskets.
- 16.4.5 Stud mount rocker arms only are permitted. Maximum 1.6 ratio. Stud girdle is permitted. Shaft rockers are not allowed.
- 16.4.6 Steel valves and valve spring retainers/locks only. Hollow stem and/or titanium valves are not allowed.
- 16.4.7 Cast iron flat tappet cam with stock diameter journal, stock firing order, in stock location, with stock diameter. Cast iron lifters only. Mushroom lifters are not allowed.
- 16.4.8 Timing chain only is permitted. Gear or belt drive is not allowed.
- 16.4.9 Stock diameter "Babbitt" cam bearing only is permitted.
- 16.4.10 8,000 maximum RPM chip is required.
- 16.4.11 Steel crankshaft only is permitted. Gun-drilled mains are not allowed. Undercutting of counterweights is not allowed.
- 16.4.12 Steel balancer only is permitted.
- 16.4.13 Tri-Y headers are not allowed.
- 16.4.14 Aluminum valve covers are permitted.
- 16.4.15 All other BRODIX Spec Head Rules apply (see Rule 16.2).
- 16.4.16 Use of a sealed GM 604 crate engine will also fall under this option.

16.5 Engine Option #3: Open Engine (2,500 or 2,550 lbs., 3" spoiler):

- 16.5.1 Includes all other engines not specified in Engine Option #1 or Engine Option #2.

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. A "burn off" allowance may be offered at specific events where the number of laps will exceed normal conditions. This allowance, if any, shall be determined by USMTS officials before the event begins.
- 17.2 All racecars must display weight at which it will compete on left side windshield post. Must be two (2) inches tall and in contrasting color to the racecar. Any racecar not displaying their weight will be required to weigh the maximum weight for this class and required to add any weight in any location required in this class.

17.3 Overall Weight:

- 17.3.1 If utilizing Engine Option #1 (USMTS/USRA spec engine, 23-degree steel-headed flat tappet or GM CT525 crate engine (see 17.5 for details), the overall weight of the racecar must be a minimum of two-thousand four-hundred fifty (2,450) pounds.
- 17.3.2 If utilizing Engine Option #2 (USMTS/USRA Concept Engine), the overall weight of the racecar must be a minimum of two-thousand four-hundred (2,400) pounds.
- 17.3.3 If utilizing Engine Option #3 (Open Engine), the overall weight of the racecar must be a minimum of (a) two-thousand five-hundred (2,500) pounds if using 23-degree steel or aluminum heads and roller cam, or (b) two-thousand five-hundred fifty (2,550) pounds with less than 23-degree heads.
- 17.4 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.
- 17.5 If utilizing the CT525 crate engine, must use one of the two following track options:

1. **Track Option 1** – Minimum of fifty (50) total pounds (twenty-five (25) pounds on each side of the engine) at or ahead of front motor mounts, at or above the spark plugs height.
2. **Track Option 2** – Front axle weight of at least one thousand fifty (1,050) pounds combined total of the front two wheels. If racetrack utilizes one single-pad scale, racecar shall be pulled onto scale to a point where rear motor plate (mid-mount) is just over the scales.

The USMTS will utilize Option #1 always unless competing at a track where Option #2 is utilized on regular basis, at which time both options will be recognized as legal for that event. If racetrack uses individual wheel scales, front two wheel weights will be added together to get front axle weight while car is on all four scales.

17.6 If utilizing lightened blocks (removal of material from inside and/or outside), an additional twenty-five (25) pounds of weight must be added in front of the mid-plate (see Rule 16.1).

17.7 Ballast:

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

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

17.7.3 Must be attached with at least two (2) one-half (0.5) inch bolts.

17.7.4 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- or thirteen-pound fire extinguishers are 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 SA2005, SA2010 or SA2015.

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

18.6 Complete one- or two-piece fire suits of a flame retardant nature are mandatory.

18.7 Fire-resistant gloves and shoes are mandatory. Fire-resistant socks are recommended.

18.8 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 is recommended. Shoulder harness must be mounted to main cage and not the tail section of car.

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

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

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

18.12 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.

18.13 Full-size window net mounted in the left side driver's window opening is required. Window net mounts must be welded or securely bolted to the roll cage. All bars around the driver must have approved roll bar padding. Approved racing arm restraints are recommended. Window net mounts are highly recommended to be securely welded or bolted to the inside of the main roll cage on top.

18.14 Fire-resistant safety neck collars are mandatory.

18.15 Absolutely no plastic except from edge of firewall to body skin and inner wheel tub to body skin.

ARTICLE 19: CLAIMING PROCEDURES

19.1 Any driver possessing a valid USMTS license may have the opportunity to execute a claim. All drivers, licensed or not, are subject to being claimed.

19.2 Any driver in the "A" Main is eligible to claim the shocks or ignition box of another driver's racecar in the "A" Main.

19.3 Claims must be made within five (5) minutes of the completion of the "A" Main. Claimed items must be removed at the racetrack and within one (1) hour after claimed driver accepts the claim.

19.4 Immediately following the conclusion of the "A" Main, without returning to his/her pit location, driver making claim must drive racecar, under its own power, directly to the designated claim area. Claiming driver shall select from eligible racecars in the "A" Main, 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 "A" Main will select first.

- 19.5 Claiming driver must present cash to official overseeing the claim area at the time the driver declares intention to claim. The cash price of the claim shall be \$200 each for shocks or \$250 for ignition boxes. Drivers claiming shocks may claim one (1) or more shocks during a single claim.
- 19.6 Driver is permitted one (1) claim per event, regardless of the outcome of that claim.
- 19.7 Only drivers and officials are permitted 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.
- 19.8 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.
- 19.9 Any driver refusing to accept a claim will forfeit all cash winnings and contingency awards for that event. Any driver refusing to accept a claim will forfeit all USMTS points (national, regional or otherwise) accumulated up to, and including, the event at which the claim was made. Furthermore, driver will forfeit the privilege to make a claim for a period of one (1) year from the date on which the claim was refused.
- 19.10 Sabotage of claimed parts will result in driver being suspended from all USMTS events for fourteen (14) days and until a \$1,000 fine is paid and received at USMTS headquarters. Driver will also forfeit all USMTS points (national, regional or otherwise) 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.
- 19.11 Driver must compete in three (3) consecutive USMTS events prior to executing a claim. Driver may claim a maximum of three (3) times during the calendar year.
- 19.12 The USMTS reserves the right to disallow any claim at their discretion.
- 19.13 At their discretion, officials reserve the option to claim the shocks or ignition box of any racecar. Officials may exchange ignition boxes at any time.
- 19.14 Disqualification shall not affect a legal claim. Claimed parts will be removed and transferred prior to any penalties being assessed.

AMENDMENTS

March 22, 2017

- 11.1.8 Spacer between hub and wheel is permitted, but **must be made of aluminum** only and overall width of racecar cannot exceed 78 inches (see Rule 4.19).

August 8, 2017

- 11.1 **Maximum overall weight of tire and wheel for non-bead-lock wheels is forty five (45) pounds. Maximum overall weight for tire and wheel with bead-lock (including mud cover if it is utilized during competition) is fifty (50) pounds.**
- 11.2.1 **Must be fifteen (15) inches in diameter, eight (8) inches in width and minimum nineteen (19) pounds.**
- 11.2.10 **Absolutely no weight may be added to wheels in any fashion.**
- 15.5 **Hub and/or drive flange assembly may not be oversized (heavy) and entire hub assembly must match both material and dimensions from side to side.** Maximum drive flange diameter is seven (7) inches across, maximum thickness is three-eighths (.375) of an inch.
- 15.6 **Excessive rotating weight is not allowed. Any weight being added to the rear-end must be secured directly to the rear-end housing in a fashion acceptable to track and/or series officials.**

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For rules clarifications or questions, call 515-825-8803 or email tech@usmts.com.

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