

# 2024 Salina Highbanks Speedway B-Mod Rules

## ARTICLE 1: BODY

- 1.1 1970 or newer American compact passenger cars only (panel vans and/or station wagons are not allowed). Plastic and/or composite body panels are not allowed.
- 1.2 An aluminum half-windshield may be used on driver's side of the front window opening only.
- 1.3 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.
- 1.4 A minimum window opening of twelve (12) inches must be maintained on all four window openings (front, back, left and right).
- 1.5 Streamlining at top of windshield is not allowed. Bodies must have standard appearing windshield opening and corner post must follow standard configuration.
- 1.6 Original roof line (parallel to deck, front to back side to side) of vehicle must be maintained with a maximum of five (5) inches of slope from rear to front. No more than one inch stiffener allowed at the rear of the roof and must turn down perpendicular to the ground. A maximum of one (1) inch roof lips on outside edge of roof are permitted. A maximum of four (4) inch sides on roof are permitted. Fiberglass roofs are permitted. Aluminum roofs are permitted but must remain flat and not concaved.
- 1.7 Sail panels must be solid and of matching design with matching styles on both sides of racecar. Sail panel may be no farther forward than the driver's seat and no farther back than rear of decking. Sail panel must be mounted within one (1) inch of the outer edge of deck and flush with the outer edge of roof. Sail panels, side to side, may have no more than four (4) inches of variance in material length when measured from roof line to deck
- 1.8 Sail panels may have no more than four (4) inch bow from top to bottom. A maximum eighteen (18) inches of sail panel along the roof and maximum five (5) inches tall at rear of decking and must be a straight line from back edge of roof to back edge of deck when the sail panel is held flat. Leading edge must within two inches of 90 degrees from roof to quarter panel.
- 1.9 Hood may be no more than two (2) inches above decking and must be sealed off from driver. Reverse hood rake is not allowed. Hood must be level or slope forward toward nose of racecar. Lips on the hood are not allowed. Hood must be flat from side to side—bowed and/or concaved designs are not allowed.
- 1.10 Belly pans are not allowed. A belly pan will be defined as any object or material that alters the airflow under the racecar.

- 1.11 Panel(s) in front of the right door next to the engine compartment is/are not allowed.
- 1.12 Bodies with excessive damage (as determined by an official) will not be allowed to compete.
- 1.13 Spoilers are not allowed.
- 1.14 The rear deck lid and/or trunk area must be covered. Deck height may be a maximum of thirty-nine (39) inches—NO TOLERANCE. Must have an access panel no smaller than six (6) inches wide and twelve (12) inches long in front of fuel cell in the deck to view pull bar location. Drop decks are not allowed. Deck may be a maximum length of one hundred twenty (120) inches from rear of engine. Deck must remain square and parallel to the frame, square to mid-plate and level from side to side. Deck may have a maximum total slope of six (6) inches with a maximum of three (3) inches of slope from racing seat to rear of deck. Doors and quarter panels must be flush with deck. Doors and quarter panels may not be concaved towards center of car. Deck width may be a maximum of sixty-six (66) inches and must be the same from front to rear.
- 1.15 Maximum overall width of nose is forty-two (42) inches top and bottom, must remain flat and parallel to deck and may not be concaved. 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 the nose; if it separates from the hood, it is the nose.
- 1.16 Tires must remain the widest part of the racecar. No part of body may extend beyond the outside edge of the tires. Exception: The lower part of the left rear quarter panel's wheel opening's front edge may extend a maximum one inch outside the tire but wheel opening must remain no smaller than outside diameter of tire.
- 1.17 Excluding hood and nose piece, body may extend no further forward than the back of the engine block. Exception: Bottom of door may extend a maximum of eight (8) inches ahead of rear of block.
- 1.18 A maximum five (5) inch plastic skirt on bottom of doors and quarter panels and nose piece is permitted. Body must remain a minimum of three (3) inches from ground. Engine covers are not allowed. Fins, wings, lips or other air spoilers (other than noted) are not allowed. Any approved lip(s) must be the same from side to side.
- 1.19 Bumpers:
  - 1.19.1 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.
  - 1.19.2 Both front and rear bumpers must be used, and must not have any sharp edges. Any inappropriate bumper will be disallowed by an official. Front bumper must 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 diameter tubing with a minimum

wall thickness of sixty-five one-thousandths (.065) inch and must be able to support the racecar if lifted by a tow vehicle. Top bar must be directly above bottom bar (not off-centered).

- 1.19.3 Rear bumpers and side rail bars must not extend beyond the width of the rear tires. Tires must be the widest part of body.
- 1.19.4 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).
- 1.19.5 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.
- 1.19.6 Front bumper may be a maximum width of 44 inches from outside to outside. Nose tin may have a maximum width of 42 inches at bottom. Note: 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.

## 1.2 Appearance:

- 1.20.1 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.
- 1.20.2 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.

## ARTICLE 2: ROLL CAGES

- 2.1 The main roll cage must consist of continuous hoops of round steel tubing, and must be acceptable to officials. Acceptable tubing is as follows: minimum one and one-half (1.5) inches diameter by ninety-five one-thousandths (0.095) inch wall thickness for main four-point roll cage. Any tubing measuring one and three-quarter (1.75) inches diameter will be permitted a tolerance on the wall thickness for tubing manufacturing imperfections. Any tubing under one and three-quarter (1.75) inches diameter will not

be allowed any tolerance on wall thickness. Rear hoop must have an "X" brace with a minimum (one and one-quarter (1.25) inches diameter by eighty-three one-thousandths (.083) inch wall thickness. A minimum of three (3) driver side door bars must be parallel to ground and located perpendicular to the driver 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. Driver side 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) inch wall thickness and be gusseted in place. The driver side door bars must have four (4) vertical studs per side and must be equally spaced and be plated with forty-nine one-thousandths (.049) inch steel from the top door bar to the bottom door bar and from rear down post to at least six (6) inches in front of the seat. Three passenger side door bars required to be mounted to main cage and must at least one and one-quarter (1.25) inches in diameter at a minimum of eighty-three one-thousandths (.083) of an inch wall thickness.

- 2.2 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.
- 2.3 Installation and workmanship must be acceptable to officials.
- 2.4 Must be frame-mounted in at least six (6) places.
- 2.5 Must consist of a configuration of front and rear hoops connected by tubing on the sides or side hoops.
- 2.6 With helmet on and driver securely strapped into the racing seat, top of driver's head must not protrude above the roll cage. A cross bar in halo is required.
- 2.7 Must have a protective screen or bars in front window opening in front of driver's face.
- 2.8 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.
- 2.9 Brace bars forward of roll cage may not be higher than the stock hood height. 5.10 Adjustable bars on the frame and/or roll cage are not allowed. Removable bars are permitted.

### ARTICLE 3: FRAME

- 3.1 Factory production complete full perimeter 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.
- 3.2 May only be altered for the installation of springs and shocks. Top of frame may not be altered for upper "A" frame clearance.
- 3.3 All components must be made of steel and be properly welded.

- 3.4 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.
- 3.5 Minimum height from ground is four (4) inches. Exception: Front cross member may be notched for radiator clearance only. Outside frame rails may not be raised. (See measurement “L” on frame diagram)
- 3.6 Jeep, Bronco or similar four-wheel drive frames are not allowed. Sports car frames are not allowed. Front-wheel-drives are not allowed.
- 3.7 Rear of frame may be altered to accept leaf or coil springs.
- 3.8 Hydraulic, ratchet or electric weight jacks are not allowed anywhere on the racecar. Aluminum jack bolts are not allowed.
- 3.9 Wheelbase must be a minimum of one-hundred eight (108) inches on both sides and a maximum of one- hundred twelve (112) inches on both sides (no tolerance).
- 3.10 Tubular front clips are not allowed.
- 3.11 Overall width of the racecar may not exceed seventy-eight (78) inches. Width shall be measured from the widest points on each side of the racecar (the tires). 6.12 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.

#### ARTICLE 4: COCKPIT, STEERING & SEAT

- 4.1 Loose objects and/or weights are not allowed.
- 4.2 Air bags are not allowed.
- 4.3 Rear view mirrors are not allowed.
- 4.4 Floor and firewall must be complete in the driver’s compartment. Minimum 0.125 inch aluminum, or 0.060 inch steel, complete floor pan required. Interior sheet metal cannot 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.
- 4.5 Steering:
  - 4.5.1 Must be OEM and remain within original bolt pattern for type of frame used. Idler arm, pitman arm and center link must match frame. Outer tie rod end and adjustment sleeve may be replaced with a heim end and steel tube.

- 4.5.2 Rack and pinion is not allowed. Lightened steering gear boxes are not allowed.
- 4.5.3 May be modified to suit driver, but must remain on left side of cockpit (no center steering).
- 4.5.4 Quick-release metal coupling on steering wheel is mandatory. Plastic couplings are not allowed.
- 4.6 Seat:
  - 4.6.1 Factory-manufactured racing seats are mandatory, and must be acceptable to officials.
  - 4.6.2 Homemade aluminum, plastic or fiberglass seats are not allowed.
  - 4.6.3 Must be properly installed and seat back cannot be moved back further than rear edge of quarter post.
  - 4.6.4 High-back aluminum seats only. Full containment racing seats are strongly recommended.

## ARTICLE 5: SUSPENSION

- 5.1 Front suspension must remain stock-type for the type of frame being used. Lower A frame must be unaltered stock stamped steel and in OEM location and remain OEM dimensions with OEM type bushings only. Mono ball or heim style bushings are not allowed. One-piece steel, rubber, polyurethane or nylon bushings only No offset or bearing type bushings allowed. Inner steel sleeve in bushing must be present. Screw-in ball joints are permitted. Front suspension travel limiting devices are not allowed. GM 1978- 1988 metric "G" body frames are allowed to use Nova lower "A" frames. Both front and or rear suspension travel limiting devices are not allowed. Suspension front and or rear must travel freely in both directions from ride height measured at the shock.
- 5.2 Aluminum and/or titanium components are not allowed. Magnet must stick to all components Exception: aluminum cross shafts are permitted. Stainless steel is permitted. Gun-drilled, tubular and/or hollow bolts or studs are not allowed anywhere on the racecar.
- 5.3 Steel tube-type upper A-frames are permitted and may be moved. Pivot points are to remain on the top of the frame rail.
- 5.4 Stock unaltered passenger car spindles only, must match side to side make and dimensions. Fabricated spindles are not allowed.
- 5.5 Front sway bars may be used. Must be made of steel and may be attached to the bottom Aframe using steel Heim joints. Must be solid full-length OEM.
- 5.6 A solid rear panhard bar or solid J-bar may be used. J-bar must be mounted to right side of pinion and go over the top of the driveshaft to left side of the chassis. Must be made

of steel and may be attached by using a minimum three-quarter (0.75) inch i.d. steel Heim joint. Minimum length must be nineteen (19) inches measured from center of Heim to center of Heim.

- 5.7 Two-link suspension only. Four-link type suspensions are not allowed. All suspension bars and/or arms must remain solid and straight, a minimum fifteen (15) inches from center of Heim and must mount on the bottom side of rear end housing. Swing arms are not allowed. Solid pull bars only and centerline of pull bar must be mounted above driveshaft and within one (1) inch of driveshaft centerline.
- 5.8 Suspension or rear-end parts, including jack bolts and mounting brackets, must be made of steel. Lift arm is not allowed. Spring and suspension covers are not allowed. Tarps and/or covers on racecar are not allowed outside of your pit area.
- 5.9 Floating suspensions are not allowed. All bird cages and/or brackets must be welded to the rear-end housing.
- 5.10 A tether chain is permitted on front and rear suspension. Chain must be mounted from lower A-frame to frame on front end and on top of axle tube to frame on rear end. Chains must be mounted vertical and solid and must remain loose at ride height. Only left side rear chain may utilize a rubber biscuit. Springs of any kind are not allowed on chains.
- 5.11 Shocks & Springs:
  - 5.11.1 One (1) shock per wheel is permitted and rear shocks must be mounted within twenty-five (25) degrees of vertical. Only conventional type (closed on one end) single shaft shocks are permitted. Rear end dampener shocks are not allowed. Rear shocks may be mounted on a weight-jack-type adjustable bolt.
  - 5.11.2 Shock shaft must be able to compress all the way into shock body. Shocks must have a minimum of seven (7) inches of travel. Shock shaft must move in both directions from its installed position at ride height. Shock cannot preload the spring.
  - 5.11.3 Shock covers are permitted but may cover only front half of shock and must be mounted directly to shock. Bump stops (internal or external) are not allowed. Shock rubber stoppers on the right front are not allowed.
  - 5.11.4 Steel shock mounting bolts only. Aluminum and/or titanium is not allowed.
  - 5.11.5 Coil-over, remote and/or air reservoir shocks are not allowed. Canister and/or adjustable shocks are not allowed. Bulb-type shocks are not allowed. Air shocks are not allowed. Aluminum shocks are not allowed. Inerter shocks, J-damper shocks, active mass damper shocks and/or

through-rod-designed shocks are not allowed. Dummy shocks are not allowed. Aluminum shaft guides are permitted.

- 5.11.6 Bladder-type valves and/or Schrader valves are not allowed. Shocks shall be subject to claim, as outlined in Claim Procedures (see Article 19).
- 5.11.7 One spring slider on each rear wheel is permitted. Coil springs must be at least four and one-half (4.5) inches outside diameter. Steel springs only. Torsion bars are not allowed in rear. Spring rubbers are not allowed. Progressive, tapered, stacked and/or welded springs are not allowed.
- 5.11.8 Leaf Spring Rule: Must use steel, multi-leaf springs. Must be same number of full springs on each side (half springs are not allowed). Additional suspension components are not allowed. Adjustable lowering blocks are permitted.
- 5.11.9 Mono-Leaf Spring Rule: Must utilize coil springs centered on top of rear-end housing.
- 5.11.10 Must adhere to either Leaf Spring Rule or Mono-Leaf Rule. Mixing and matching is not allowed.
- 5.11.11 Optional: OEM Stock Suspension Rule: Must utilize stock OEM rear control arm mounts in stock locations for the frame being used. All components must be OEM and match the frame being used. Unaltered control arms only. Stock rubber, nylon or steel bushings only. Springs must remain in stock location on the top; lower perches must be welded to the rear end housing. Steel weight jacks only. Rear of engine (bell housing flange) must be mounted at least seventy (70) inches forward from the center line of the rear axle.

## ARTICLE 6: ELECTRICAL SYSTEM

### 6.1 Battery:

- 6.1.1 Must be securely mounted inside frame rails and covered.
- 6.1.2 One (1) 12-volt battery only (no 16-volt batteries).
- 6.1.3 Voltage converters are not allowed. All battery posts must be securely covered.

### 6.2 Ignition:

- 6.2.1 Must utilize OEM distributor and ignition. Stock-appearing coils, coil covers and modules only. Square coil covers are not allowed. Multiple spark ignitions are not allowed. Crank trigger ignitions are not allowed.



GM external coils are not allowed. All ignition parts must remain out of the reach of the driver.

- 6.2.2 Kill switch required within easy reach of the driver. The switch must be clearly marked "OFF" and "ON".
- 6.2.3 GM must utilize OEM GM HEI distributor. Chrysler and Ford may use aftermarket HEI (bushing type only). Roller bearings are not allowed. Must utilize stock-type components.
- 6.2.4 Circuit board modules are not allowed.
- 6.3 Digital gauges are not allowed. Digital tachometers are permitted. Cameras pointing to any moving or suspension parts are not allowed. Except for memory recall tachometer, electronic monitoring computer devices capable of storing and/or transmitting information are not allowed.
- 6.4 Wiring elements must be accessible for technical inspection. Any racecar advancing spots and missing will be subject to disqualification.
- 6.5 All standard engines (see Rule 13.7) must utilize a soft-touch rev control box MSD part #8727CT with a 7,000 RPM maximum limit. All crate engines (see Rule 13.6) and concept engines (see rule 13.8) must utilize a soft-touch rev control box MSD part #8727CT with a 6200 RPM maximum limit This must be out of reach of the driver but easily accessible for inspection at all times. MSD part #8727CT rev control box is required with unaltered wiring harness and will be required on all race cars. Ground wire must be visible for inspection and it is recommended that it be mounted near or on the distributor.
- 6.6 Transponders must be mounted vertically on or behind engine mid-plate, less than two (2) feet from the ground and unobstructed by any metal.

## ARTICLE 7: FUEL SYSTEM

- 7.1 Fuel:
  - 7.1.1 Automotive gasoline, racing gasoline is permitted. Oxygenated fuel is not allowed; however, an ethanol blend is allowed up to 85%. Additives of any kind are not allowed. Penalty for illegal fuel is loss of points, cash and awards earned for that event and subject to a fine.
  - 7.1.2 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. Fuel is tested using a Digitron dielectric meter. It is the responsibility of the driver and/or owner to have fuel tested.
  - 7.1.3 Upper cylinder lubricants are not allowed.
- 7.2 Electric fuel pumps are not allowed. Belt driven fuel pumps are not allowed. Pumps must bolt to block in stock location.

- 7.3 Carburetor:
- 7.3.1 Must be naturally aspirated.
  - 7.3.2 Fuel injection is not allowed.
  - 7.3.3 The Standard Engine must be a gauge-legal Holley 500 CFM two-barrel (part #4412). HP and XP carburetors are not allowed. Must be completely unaltered, however, an aftermarket metering block is permitted. Grinding and/or polishing of any kind is not allowed. All carburetor components must be for a Holley 500. Milling and/or grinding of throttle shaft is not allowed, and shaft must stay round. The choke and air horn may be removed (this is the only reworking permitted). Casting line at venturi must be present. Boosters must remain centered in venturi and may not be raised or lowered. Annular discharge boosters are not allowed. Crate motors and concept motors are permitted to use a Holley 4150 Series carburetor.
  - 7.3.4 One (1) two-barrel carburetor properly installed will be permitted.
  - 7.3.5 A one (1) inch adapter plate or spacer is permitted. Distance between bottom of carburetor and top of intake manifold cannot exceed one and one-quarter (1.25) inch. Spacer thickness must remain the same front to back and side to side.
  - 7.3.6 Carburetors shall be subject to claim, as outlined in Claim Procedures (see Article 19).
- 7.4 Fuel Cell:
- 7.4.1 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.
  - 7.4.2 Must be enclosed in a steel container and must be protected in rear of axle by roll cage tubing mounted securely.
  - 7.4.3 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.
  - 7.4.4 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.
  - 7.4.5 Limited to a maximum capacity of thirty-two (32) gallons.

## ARTICLE 8: TIRES & WHEELS

- 8.1 Wheels:

- 8.1.1 Must be fifteen (15) inches in diameter and eight (8) inches in width.
- 8.1.2 Bleeder valves are not allowed.
- 8.1.3 Must be reinforced steel only.
- 8.1.4 A steel bead lock may be used on the right-side wheels only, and may be mounted on the outside of the wheel so long as it does not add to the overall width of the wheel.
- 8.1.5 Homemade mud caps are not allowed.
- 8.1.6 Wheel covers are permitted on right side wheels only. Inner mud plugs are permitted.
- 8.1.7 Wide five-wheel adaptors are not allowed. Steel lug nuts only are permitted.
- 8.1.8 Spacer between hub and wheel is permitted, but must be made of aluminum only and overall width of racecar cannot exceed 78 inches.
- 8.1.9 Added ballast to any wheel is not allowed.
- 8.1.10 Solid and/or non-spoked wheels are not allowed.

## 8.2 Tires:

- 8.2.1 American Racer G60-15 KK704 (Short, Tall or X Tall). Tires must 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. 8" or 9" asphalt pull offs also permitted
- 8.2.2 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.
- 8.2.3 Grooving and/or siping is permitted.
- 8.2.4 Sidewall markings must remain visible. Buffing and/or removing compound designations is not allowed.
- 8.2.5 Added ballast to the inside of any tire is not allowed.

## 8.3 Tire Testing Procedures:

- 8.3.1 Random GC (gas chromatography) scans may 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.

- 8.3.2 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 2.15.5 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).
- 8.3.3 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 relating to tires.

#### ARTICLE 9: BRAKING SYSTEM

- 9.1 Must be operating on all four wheels and must lock up all four wheels during inspection.
- 9.2 Must have caliper and rotor on all four wheels. Caliper and rotor must be standard size and weight. Vented rotors are required on front and rear wheels.
- 9.3 Electronic brake actuators are not allowed. Brake shut-offs are not allowed.
- 9.4 Calipers may not be lightened, must be OEM and must be made of steel and must match front to front and rear to rear. Brake pads may not be altered or lightened and must match side to side.
- 9.5 Rotors must be steel and may not be lightened, scalloped, slotted or drilled. Rotors may be re-drilled for different bolt patterns or larger studs. Oil bath hubs are not allowed.
- 9.6 Front-to-rear brake bias is permitted (no left to right).
- 9.7 Brake floaters are not allowed.
- 9.8 Brake lines must be visible. 12.9 Must maintain minimum OEM dimension for hubs, rotors, pads and calipers.

#### ARTICLE 10: DRIVE SHAFT

- 10.1 A loop is required and must be constructed of at least one-quarter (0.25) inch by two (2) inches 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.
- 10.2 Must be a minimum two (2) inches in diameter.

- 10.3 Must be painted white.
- 10.4 Aluminum drive shafts are not allowed.
- 10.5 Carbon fiber drive shafts are permitted but must be painted white.

#### ARTICLE 11: TRANSMISSION

- 11.1 OEM three-speed, four-speed and five-speed and automatic production-types are permitted. 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.
- 11.2 "In and out" boxes are not allowed. Ball spline transmissions are not allowed.
- 11.3 May all be clutch-operated or an OEM automatic with a coupler. May use a hand or clutch pedal operated ball valve for neutral.
- 11.4 Aftermarket transmissions are permitted with twenty-five (25) pounds of weight mounted in front of the mid-plate.
- 11.5 Approved aftermarket transmissions are Bert (Part #LMZ/GEN II), Brinn (Part #70001), Falcon (Part #60100) and RaceGator (Part #140002/140002-C) and Mitchell Machine Bullet Tranny with internal clutch.
- 11.6 Clutch must be inside of bell housing for OEM production-type transmissions (except as noted in Rule 11.4).
- 11.7 Starter must bolt to engine block or factory location.
- 11.8 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.
- 11.9 Aluminum flywheel is permitted. Must have full-sized explosion proof, aluminum or steel bell housing. Aluminum must be SFI approved (Note: GM bell housing is not SFI approved). Flywheel must bolt to crankshaft. Clutch must bolt to flywheel, a minimum six and one-quarter (6.25) inch clutch.
- 11.10 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-quarter (0.25) inch steel. Alternatively, automatic and/or aftermarket transmissions may utilize an SFI-certified aftermarket guard. Flex plates must be SFI certified.
- 11.11 Internal clutches are not allowed except for approved aftermarket transmissions.

#### ARTICLE 12: REAR-END

- 12.1 Any passenger car- or truck-type is permitted. Aluminum is not allowed except lowering blocks, axle cap, U-joint caps and drive plate.
- 12.2 Nine (9) inch Ford rear-end is permitted (floater recommended).

- 12.3 Quick change rear-end is permitted with steel axles and steel axle tubes only. Must use a ten (10) inch ring gear and minimum one (1) inch wide solid spur gears.
- 12.4 Cambered rear-ends are not allowed (one-piece drive flange only).
- 12.5 Traction devices are not allowed (includes Gold Track, True Track or similar type components).
- 12.6 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.

#### ARTICLE 13: ENGINE

- 13.1 Overflow tubes must be directed toward the ground and inside the frame rails.
- 13.2 Radiator must be mounted in front of engine. Aluminum pulleys and radiators are permitted.
- 13.3 All belt driven components must be mounted on front of engine. Electric water pumps and/or fans are not allowed. Engine oil coolers are not allowed. Air pumps are not allowed.
- 13.4 Exhaust & Mufflers:
  - 13.4.1 Round tube headers only. Tri-Y headers are not allowed. All primary tubes must enter one collector at the same point. Crate engine and concept engine must use a non-stepped header only. Standard Engines and Crate Engines may utilize stepped headers. Header wrap is not allowed.
  - 13.4.2 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. Exhaust through body panels or fenders is not allowed.
  - 13.4.3 Mufflers are recommended. Mufflers may be required at track's discretion.
  - 13.4.4 Exhaust sensors, merge collectors, dividing collectors, venturi collectors and/or extension cones are not allowed. Collector extension and/or muffler and turn down may not exceed twenty-four (24) inches and must maintain a consistent inside diameter.
  - 13.4.5 Zoomies, Crossovers and/or 180's are not allowed.
  - 13.4.6 Oil pan evac systems are permitted but must enter exhaust header from the side of the collector only. External pump systems are not allowed.
- 13.5 OPTION #1 – Crate Engine:

- 13.5.1 GM Performance Parts (GPP) factory-sealed CT350 Chevy small block crate engine (Part No. 88958602 or 19258602): includes four-bolt-main block, 9.5:1 hypereutectic pistons, cast iron crankshaft, GM iron Vortec cylinder heads, high-rise dual-plane intake manifold, 8-quart single kick-out circle track oil pan, valve cover kit with breather tube and breather, unique dual pattern cam and special “kool nut” rocker arm nut design.
  - 13.5.2 May utilize one (1) Holley 4-barrel carburetor. Use of a spacer between carburetor and intake is optional, but spacer may be no more than one (1) inch thick and may not be throttle bore adjustable. Aerosol carburetors are not permitted. Carburetors shall be subject to claim (crate to crate only) as outlined in Claim Procedures (see Article 16).
  - 13.5.3 Must utilize soft-touch rev control box with a 6200 RPM limit. This must be out of reach of the driver but easily accessible for inspection at all times. 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.
  - 13.5.4 Must have “Crate” sticker on racecar or crate engine is claimable. Any driver running a “Standard” engine with a “Crate” sticker will be disqualified. Any driver running with a crate motor will not be eligible to claim in that season. Any driver that claims a standard engine and switches to crate engine will be eligible to be claimed.
  - 13.5.5 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, and a \$2,000 fine and fourteen (14) day suspension from all USRA- sanctioned events. Second offense carries a \$5,000 fine and one (1) year suspension.
  - 13.5.6 GM seal bolt exception is USRA, USMTS or approved rebuild seals (call 515-835-9946 for verification).
- 13.6 OPTION #2 – Standard Engine:
- 13.6.1 Must be stock appearing. Any American make is permitted. Absolutely no changes allowed. Must use stock firing order for that make and model (GM to GM, Ford to Ford, etc.). Titanium is not allowed.
  - 13.6.2 May be a maximum of 360 cubic inches. (370 c.i. for Chrysler).

- 13.6.3 Must be a maximum 9.5:1 compression. Exception: 302-, 305-, 307- and 318-cubic-inch engines may run 10.5:1 compression. Only flat top or dished pistons are permitted.
- 13.6.4 Must appear strictly stock for that model and make and in the original mounts. Parts for 400 cubic inches or larger are not allowed. Stroke must match block. Block casting number must remain visible.
- 13.6.5 Only stock appearing crankshafts are permitted. Lightweight cranks are not allowed. No undercut, bull nosed, gun drilled or knife edge crankshafts allowed.
- 13.6.6 Lightweight, aluminum and/or fluid dampeners are not allowed
- 13.6.7 GM five and seven-tenths (5.7) inch or six (6) inch rods are permitted. Must be stock appearing I-beam non-polished rod. Only permitted are standard size rod journals and wrist pins (Chevrolet 2.100/.927). Aluminum or light weight is not allowed. Cap screw rods are permitted
- 13.6.8 A minimum one (1) inch plug above the oil level in the side of the oil pan is recommended. If not utilizing a plug, oil pan may have to be removed at time of inspection.
- 13.6.9 Only stock, unaltered two-barrel low-rise cast iron intake manifolds or Approved aluminum intakes are permitted. Approved aluminum intakes are GM - Edelbrock (#2101 or #2701) or Weiand (#7547 or #7547-1); Ford - Edelbrock (#2121 or #2181 or #2665) or Weiand (#7515 or #8023 or #7516); Chrysler – Edelbrock (#2176) or Weiand (#7545 or #8022). Porting, polishing or port machining is not allowed. Bowtie, aftermarket, SVO and W2, marine, VORTEC or other special production intake manifolds are not allowed. External cooler lines from back of intake to front of intake is permitted.
- 13.6.10 Cast iron stock production or aftermarket steel stock replacement heads are permitted. Porting and/or polishing is not allowed. GM cars must utilize 76cc heads (approved head numbers are 336, 339, 388, 441, 454, 487, 624, 813, 882, 991 and 993). Aftermarket head numbers are: GM – EQ Part #CC167ES2 or #CH350I; Dart Part #10024267 or #10024360; World Products Part #043600 or #042670; Ford – World Products Part #53030; Chrysler – EQ Part #CH318B; RHS/Indy Part #20300 or #20301. Heads may be flat milled to reach the 9.5:1 compression rule. Valve size no larger than 2.02 intake and 1.60 exhaust. VORTEC heads are not allowed. Beehive valve springs are not allowed.
- 13.6.11 Screw-in studs, guide plates and poly-locks are permitted.



13.6.12 Roller cams and lifters are not allowed. Roller Rocker arms are not allowed (stock-type stamped steel rocker arms or cast steel rocker arms only). Roller tip rocker arms are permitted. Chryslers may utilize OEM steel shaft rockers but may not exceed one hundred twenty (120) pounds of valve spring seat pressure and must maintain OEM valve spring dimensions. Under valve cover pressurized valve train oiling systems are not allowed.

13.6.13 Mushroom lifters are not allowed (stock diameter only). Must match make and model.

13.6.14 Stud girdles are not allowed.

13.7 OPTION #3 – Concept Engine:

13.7.1 Must be stock appearing. Any American make is permitted. Absolutely no changes allowed. Must use stock firing order for that make and model (GM to GM, Ford to Ford, etc.) Titanium is not allowed.

13.7.2 May be a maximum of 360 cubic inches. (370 c.i. for Chrysler).

13.7.3 Must be 9.5:1 compression. Only standard weight (minimum 450 grams) flat top or dished pistons are permitted. Must use standard weight wrist pins (minimum 130 grams). Must use minimum 1.5mm, 1.5mm, 3mm piston rings. Maximum six one hundredths (.06) inch oversized allowed.

13.7.4 Aftermarket and/or splayed main caps are not allowed. Grinding, polishing and/or coating of any internal or external engine parts is not allowed. Altering lifter bores are not allowed. Lifter bore valley vent tubes are not allowed. Block casting number must remain visible.

13.7.5 Only stock appearing crankshafts are permitted. Lightweight cranks are not allowed. No undercut, bull nosed, gun drilled or knife edge crankshafts allowed. Balancing permitted by drilling only. Resizing journals to a maximum .030 inch under is permitted. Stroke must match block.

13.7.6 Lightweight, aluminum, and/or fluid dampeners are not allowed. Any stock steel balancer is permitted.

13.7.7 Must be stock appearing I-beam non-polished connecting rod. Standard size rod journals and wrist pins (Chev rod 2.100/.927) only permitted. Aluminum or lightweight is not allowed. Only an OEM length rod is allowed. Cap screw rods are permitted. Minimum weight of 530 grams is required.

13.7.8 Steel oil pans only with a minimum one (1) inch plug above the oil level in the side of the oil pan. If not utilizing a one (1) inch plug, oil pan may have to be removed for inspection. Wet sump oil systems only.

- 13.7.9 Only stock, unaltered two-barrel low-rise cast iron intake manifolds or approved aluminum intakes are permitted. Approved aluminum intakes are GM – Edelbrock (#2101 or #2701) or Weiand (#7547 or #7547-1); Ford – Edelbrock (#2121 or #2181 or #2665) or Weiand (#7515 or #8023 or #7516); Chrysler – Edelbrock (#2176) or Weiand (#7545 or #8022). Porting, polishing or port machining is not allowed. Bowtie, aftermarket, SVO and W2, marine, VORTEC or other special production intake manifolds are not allowed. External cooler lines from back of intake to front of intake is permitted.
- 13.7.10 Cast iron stock production or aftermarket steel stock replacement heads are permitted. Porting and/or polishing is not allowed. GM cars must utilize 76cc heads (approved head numbers are 336, 339, 388, 441, 454, 487, 624, 813, 882, 991 and 993). Aftermarket head numbers are: GM – EQ Part #CH350I; Dart Part #10024267 or #10024360; Ford – World Products Part #53030; Chrysler – EQ Part #CH318B. Heads may be flat milled to reach the 9.5:1 compression rule. Valve size no larger than 2.02 intake and 1.60 exhaust. VORTEC heads are not allowed. Intake valves must weight a minimum one hundred three (103 grams). Exhaust valves must weight a minimum eighty-seven (87) grams. Only stock diameter valve springs are permitted. Beehive valve springs are not allowed. Only stock steel valve spring retainers permitted.
- 13.7.11 Screw-in studs, guide plates and poly-locks are permitted.
- 13.7.12 Roller cams and lifters are not allowed. Only flat tappet hydraulic camshafts with forty-five on hundredths (0.45) inch maximum lift are permitted. Roller rock arms are not allowed (stock- type stamped steep rocker arms or cast steel rocker arms only). Roller tip rocker arms are not allowed. Must maintain an OEM rocker arm ratio (1.5 for GM). Chryslers may utilize OEM steep shaft rockers but may not exceed one hundred twenty (120) pounds of valve spring seat pressure and must maintain OEM valve spring dimensions. Under valve cover pressurized valve train oiling systems are not allowed.
- 13.7.13 Mushroom lifters are not allowed. Steel stock diameter lifters only and lifter must collapse one-tenth (0.1) inch minimum.
- 13.7.14 Stud girdles are not allowed.
- 13.7.15 Any Holley 4150 series four-barrel carburetor is permitted.
- 13.7.16 Only non-stepped headers are permitted. Must follow all USRA header rules.
- 13.7.17 Must utilize a four-hole carburetor spacer with a maximum one inch height and a maximum 1.693 inch straight thru holes a maximum three-eighths (0.375) inch of gasket material between carburetor and intake.

- 13.7.18 Must utilize a rev limiter with a maximum setting of 6,200 RPM
- 13.7.19 Overall racecar weight must be a minimum two-thousand five-hundred (2,500) pounds
- 13.7.20 Must have a “concept” sticker on racecar, otherwise engine is claimable. Any driver utilizing a concept engine will not be eligible to claim that season. Any driver that claims a standard engine and switches to a concept engine will be eligible to be claimed.
- 13.7.21 Concept engines are not subject to claim.
- 13.7.22 All USRA fuel rules apply.

#### ARTICLE 14: WEIGHT

- 14.1 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. All racecars must display weight at which it will compete on both windshield posts. 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.
- 14.2 Overall weight of the racecar must be a minimum of two-thousand five hundred (2,500) pounds.
- 14.3 Ballast:
  - 14.3.1 May not be mounted in cockpit, outside of body or hood area, or on any rotating parts. Weight must be mounted to the frame, roll cage or rear-end housing only. Weight brackets for rear-end housing must be made of steel.
  - 14.3.2 Must be securely mounted, painted white and clearly marked with the car number.
  - 14.3.3 Must be attached with at least two (2) one-half (0.5) inch bolts with a maximum of one hundred (100) pounds per mounting. Any ballast weighing twenty-five (25) pounds or less may be mounted with one (1) one-half (0.5) inch bolt.
  - 14.3.4 May not be attached to rear bumper.
  - 14.3.5 Any part of the racecar that may be deemed “added ballast” is subject to all ballast rules.

#### ARTICLE 15: SAFETY

- 15.1 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).
- 15.2 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.
- 15.3 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.
- 15.4 Helmets are mandatory and must be certified SA2010, SA2015 or SA2020.
- 15.5 Helmet must accompany driver and racecar at time of inspection.
- 15.6 Complete one- or two-piece fire suits of a flame-retardant nature are mandatory.
- 15.7 Fire-resistant gloves and shoes are mandatory. Fire-resistant socks are recommended.
- 15.8 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.
- 15.9 Metal to metal buckles are required on shoulder and seat belts.
- 15.10 Shoulder harness must be mounted securely to the main roll cage.
- 15.11 Where the belt passes through the seat edges, a grommet must be installed, rolled and/or padded to prevent cutting of the belt.
- 15.12 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 of age past the date of manufacture.
- 15.13 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.
- 15.14 Fire-resistant safety neck collars are mandatory.
- 15.15 Absolutely no plastic except from edge of firewall to body skin and inner wheel tub to body skin.

#### ARTICLE 16: CLAIMING PROCEDURES

- 16.1 Driver making claim must have raced the previous 4 weeks to be eligible.
- 16.2 Can only claim once per season
- 16.3 Cash price for open motor to be \$3800.00 with \$500 and swap option
- 16.4 Crate Motor - \$3500.00

16.5 Carburetor - \$300 or \$150 and swap

16.6 Shocks - \$50 per shock (Must swap)

#### ARTICLE 17: ADDITIONAL AMENDMENTS

##### 17.1 Protest Rule

17.1.1 Protest fee is \$150 per item protested.

17.1.2 Driver protesting must finish on lead lap to protest car.

17.1.3 Protest must be in writing, with what is being protested, money in hand and turned in AFTER the A-feature race to the head tech official.

17.1.4 Driver making protest must be present while item is being protested. Crew members of protesting party are not into the tech area.

17.1.5 If protested driver is found legal \$100 of the money goes to the protested car, \$50 to Salina Highbanks Speedway. If the car is illegal, the driver loses points and money earned for that night. The protester gets the \$100 back and \$50 goes to Salina Highbanks Speedway.

##### 17.2 Sport Mods

17.2.1 IMCA Sport Mods are permitted to compete if legal under IMCA Southern Sport Mods Rules with the following exceptions: No Hoosier 500's (must run American Racer KK704 or 8" or 9" asphalt pull offs). Must remove spoiler.

17.2.2 IMCA Sport Mods must otherwise be 100% IMCA legal and may not mix and match rules with USRA B-Mods.