

# 2019 SUPER STOCK RULES

Last Updated: 19 December 2018

**All drivers will be required to register with Thunderbird Speedway to be eligible to receive points and/or pay for regular nights and/or special events, excluding touring series that handle their own points and/or payouts.**

**2019 clarifications and changes are in red.**

**TECHNICAL INSPECTIONS:** The top four (4) finishers in the main event and any other race cars as instructed by officials, are required to report to a designated area after the completion of the main event where mandatory and varied post-race technical inspections will be required to take place. At the discretion of Tri-State Speedway officials overseeing the event, any participant may be disqualified by the official for violation of any Tri-State Speedway rule and/or equipment or action(s) deemed to be hazardous to other participants or officials. All race cars 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 one thousand dollars (\$1,000), suspension from all 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. Any illegal part discovered through inspection will be subject to confiscation by an official and forfeited by the driver. All

measurements must be made while the race car is stationary on a flat horizontal surface.

For first infraction, driver discovered to be using illegal parts of any kind shall be subject to loss of all points earned at the event and forfeiture of all cash and/or awards earned at the event.

For second infraction, driver shall be subject to a fine of one thousand dollars (\$1,000), suspension from all events for 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.

For third infraction, driver shall be subject to a fine of twenty-five hundred dollars (\$2,500), suspension from all events for one (1) year, loss of all points earned to date for the current season and forfeiture of all cash and/or awards earned at the event.

Confiscated parts are subject to being 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.

**TRANSPONDERS & RACECEIVERS:** RaceCeivers and transponders are mandatory. RaceCeivers must be worn at all times when on the track. Transponders must be mounted on the right rear end tube.

**SAFETY:** Drivers should have in their pit area as part of their equipment, at all times, a fully charged dry chemical, Halon (or its equivalent) fire extinguisher. Ten (10) or thirteen (13) pound fire extinguishers are highly recommended. Driver must wear required helmet, head and neck restraint system, fire suit, fire resistant gloves, shoes and five-point safety harness whenever the race car is on the racetrack.

Helmets are mandatory and must be certified to **Snell SA2010/ FIA-8860, Snell SA2015/FIA-8860, SFI 31.1/2010 or SFI 31.1/2015 is REQUIRED.**

Helmet must accompany driver and race car at time of inspection. Complete one- or two-piece fire suits of a flame-retardant nature are mandatory. A fire suit certified to SFI Spec 3.2A/5 is strongly recommended. SFI approved fire-resistant gloves and shoes certified to SFI Spec 3.3/5 are mandatory. Fire resistant socks are strongly recommended.

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

shoulder and seat belts. Shoulder harness must be mounted securely to the roll cage. Where the belt passes through the seat edges, a grommet must be installed, rolled and/or padded to prevent cutting of the belt. Driver restraint systems must be no more than two (2) years past the manufacturer's date. Full-size window net mounted in the left side driver's window opening is mandatory. Window net mounts must be welded to the roll cage. Window nets certified to SFI Spec 27.1 are strongly recommended and must be mounted in accordance with the manufacturer's instructions and technical director's satisfaction. All bars around the driver must have approved roll bar padding. Approved racing arm restraints are recommended. Must be certified to SFI Spec 27.1. Fire-resistant safety neck collars are allowed.

**Head and Neck Restraint Devices/Systems are recommended. At all times during an Event (practice, qualifying, and competition), drivers must connect their helmet to a head and neck restraint device/system certified to SFI Spec 38.1, and must be acceptable to track officials.**

**The device/system must display a valid SFI Spec 38.1 label. The head and neck restraint device/system, when connected, must conform to the manufacturer's mounting instructions, and must be configured, maintained and used in accordance with the manufacturer's instructions.**

**It is the responsibility of the driver, not Thunderbird Speedway, to ensure that his/her device/system is certified to SFI Spec 38.1, correctly installed, maintained, and properly used.**

It is recommended that each race car have built-in fire extinguishing equipment, but cannot be of the dry powder type (must be Halon 1211 or equivalent), **or be equipped with a fire suppression system. If utilizing a Fire Suppression System, it must be equipped with a thermally deployed automatic fire suppression system. The fire suppression system will consist of a DOT approved cylinder manufactured from aluminum or steel with a capacity of ten pounds (10lbs.) of fire extinguishing agent, steel or steel reinforced lines, and two (2) thermally activated discharge nozzles. All systems must meet or exceed SFI 17.1 specifications. Systems must be fully charged with ten pounds (10lbs.) of DuPont FE-36, 3M NOVEC 1230, or Fire Aide and display a legible and valid SFI and manufacturer label depicting fire extinguishing agent, capacity, and certification date. Cylinders that or beyond useful certification date must be inspected, serviced and re-labeled by the manufacturer.**

**Cylinders must be mounted forward of the fuel cell. Cylinders must be securely mounted to the frame/roll cage assembly. The certification label must be unobstructed and easily accessible for inspection when the mounting is complete. The cylinder must be connected to the nozzles with steel or steel reinforced lines. Two (2) thermally activated nozzles must be used.**

**One (1) nozzle must be located directly above the fuel cell in the fuel cell area and the second nozzle must be located in the driver cockpit area. An optional engine bay nozzle may be added. An optional manual override cable may be added to the system.**

**APPEARANCE:** All race cars 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 race car 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. Officials reserve the right, in the public image of the sport and/or Tri-State Speedway, 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.

**FRAME:** Minimum wheel base of 101" and must be stock for the body. 1" tolerance on wheelbase from side to side but must not be less than minimum. 101" cars must remain stock on 3-link and pan hard bar. Must be stock in all aspects and remain unaltered metric frame. Rear of frame behind rear axle may be replaced with two-inch by three-inch steel tubing with .095-inch wall thickness. Original suspension mounts must remain intact, unaltered, and in stock location. Maximum 3" Height Spring Buckets allowed to allow for weight jack cup.

Spring must remain in stock location. **Maximum rear coil spring height is (16") sixteen inches.** Race car must be same generation frame and body. (Exception is: 1980 or newer Ford uni-body may be installed on Ford full frame and shortened to minimum 108-inch wheelbase. No tolerance.)

Original suspension mounts must remain intact, unaltered, and in stock location. Uni-body cars must tie rear frame to front frame. Lead weight may be added but must be painted white and be marked with car number and bolted to the frame in a safe manner. Weight cannot be mounted inside driver's compartment above bottom of window opening.

**ROLL CAGE:** Four-point roll cage required. Cage must be frame mounted. Minimum of three bars in driver's door. Roll cage must be cross braced. Cage must be minimum of 1 1/2 " steel tubing with minimum wall thickness of .095. Front and rear hoops are allowed. Aluminum and/or other soft metals are not allowed. Roll bar connections must be properly welded.

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. Installation and workmanship must be acceptable to officials. With helmet on and driver securely strapped into the racing seat, top of driver's head must not protrude above the roll cage. May have two bars for protection in front of radiator. Must be located behind the front bumper and within the confines of the body and may be no wider than stock frame horns. Front horns may be tied together. All front and rear bars must be inside the body. A minimum of one cross bar in top halo of roll cage is required. Steel door plate with eighteen (18) gauge or forty-nine one-thousandths (.049) inch minimum thickness metal must be securely welded the driver side door bars. Plate must extend from the top door bar, to the bottom door bar, and must extend from the back of the seat to 6 inches in front of the seat. Must be visible for inspection. A tow hook on both the front and rear is required.

**CAR/BODY:** Any model rear wheel drive American made production car. All cars and bodies must be stock appearing. Roof and A & B pillars must be OEM style. No flat late model or

modified style roofs. Hoods must be OEM style, may be fiberglass or aluminum. Rear deck lids must be OEM style, may be aluminum. Fenders, doors, and lower rear quarter panels may be aluminum but must maintain original body line contour and remain stock appearing. No slab side bodies. Cars may use aftermarket nosepiece and tailpiece but must remain stock appearing. No wedge noses. Plastic front nose side allowed, must not extend past center of front wheel well. Flare may not protrude more than 2" outward or above the standard contour of OEM Fender. Rear of car must have center section completely enclosed. **No holes in tail piece.** Minimum 1-3/4" diameter tube front bumper will be allowed w/aftermarket nose but must remain behind nose piece and attach at original position. No mirrors or reflecting device of any kind. All glass, chrome, trim, moldings, etc, must be removed. Windshield must be removed and replaced with a gravel screen or minimum of three (3) windshield bars in front of driver. Gutting of inside panels and front inner fenders will be allowed. **Must have stock OEM or OEM style steel floor pan in stock location or a fabricated floor pan is okay.** Firewall may be stock or constructed of minimum .049" steel and must be complete side to side. Trunk pan may be removed. Relief may be cut for fuel cell and for engine set back only. All doors must be bolted or welded shut. A rear firewall is required between the driver compartment and gas tank. Trunk lid must be secured. Interior on right side of car may be enclosed but must have 12" x 12" trap door for inspection. Seat must be mounted in front of the original front door post. Maximum 6 inches high spoiler allowed no wider than the body. Spoiler may be braced on both ends and have one center brace no more than 6" high and 12" long and must be triangular in shape. The maximum height from the ground to the top of the rear deck at the top of the rear quarter panel is forty-three (43") inches **\*\*May run NeSmith bodies but must be complete NeSmith body kits\*\***

**COCKPIT:** Loose objects and/or weights are not allowed. Air bags are not allowed. Rear view mirrors are not allowed.

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

**SUSPENSION:** GM must run GM suspensions, Ford on Ford, etc. with exception of the rear end. Tubular front non-adjustable all-steel, upper a-frames allowed. Speedway Motors 3 pc spindle will be allowed with OEM style steering arm. Front lower control arms must be unaltered OEM or OEM style non-tubular, non-adjustable approved aftermarket direct replacement. No aluminum parts. No bird-cages. No sliders.

No traction devices of any kind, no torque arms, no lift bars etc. One steel non-adjustable, unaltered shock per wheel. No bump stops allowed (internal or external), no air, remote reservoir, bulb type, or schrader valve shocks allowed. No coil over eliminators. Adjustable weight jacks allowed, must be in original centerline of spring tower; OEM upper A-frame mount may be moved or replaced with after-market steel mount matching upper A-frame bolt on design; OEM or OEM replacement ball joints allowed. For 1978-1987 GM mid-sized metric frames, OEM upper A-frame may be replaced using one-piece after-market upper A-frame. Shock location may be moved and may go through center of after-market upper A-frame. Front spring tower may be notched for shock clearance. Single hole shock mounts only. Rear shocks may be mounted to install weight jacks. Only one single mounting point on the car for rear shocks; additional mounting points not allowed. Ballast built cups, widgets, spring-loaded cups, and/or double spring cups are not allowed.



Front adjustable spring spacers are allowed. Suspension mounts OEM and in OEM location. **Maximum rear coil spring height is (16") sixteen inches.** Rear trailing arms must be non-adjustable OEM or non-adjustable approved aftermarket direct replacement. Trailing arm bushings must be installed and must be OEM type. Lower trailing arms must be at least 19" center to center and the same length. **Lower trailing arm mount on rear axle may be no more than 3 1/2 inches from bottom of axle housing to center of bolt and must be same height side to side. Upper trailing arm mount may be no more than 3 inches from housing to center of bolt. Front upper and lower trailing arm mounts must be in stock OEM unaltered location.** Sway bars OEM and in OEM location and non-adjustable on rear. No suspension travel limiting devices (chains, straps, etc). Any suspension stops are not allowed. No underslung rear suspension bars allowed.

**SHOCKS: Open Shock packages will be allowed. NO Schrader Valves are allowed**

**STEERING:** Must be OEM and remain within original bolt pattern for type of frame used. May be modified to suit driver but must remain on left side of cockpit (no center steering). Removable steering wheel and steering quickener allowed. Plastic couplings are not allowed. OEM rack and pinion steering allowed if car was originally equipped. No aftermarket rack and pinion units.

**BRAKES:** Standard steel rotors only. No Scallop or gun drilled rotors. Solid rotors are not allowed. No exotic brake systems. Must be operating on all four wheels and must lock up all four wheels during inspection. Must have caliper and vented rotor on all four wheels. Both front calipers must match. Both rear calipers must match. Electronic brake actuators are not allowed. Must be OE operative four-wheel drum or disc brake combination. Rotors may not be lightened.

Rear rotors may be aftermarket 0.810 inch thick (new). Floating brakes are not allowed. All brake lines must be outside frame rails and visible. Brake shut-off and/or pressure sensitive devices are not allowed. One proportioning device (front to rear only) is permitted. Must maintain minimum OEM dimension for hubs, rotors, **brake pads** and calipers. No added ballast on any rotating parts. No titanium, magnesium, carbon fiber or tungsten products. **NO glowing rotors are allowed.**

**REAR ENDS**: Rear ends may be locked. 8" or 9" Ford may be used on all car makes. Floater rear ends are allowed. No traction control devices. No ratchet rear ends or torque dividing differentials. No cambered rear ends allowed. Axle Tubes must be OEM and same diameter and length side to side. Ballast may be added to rear end tube but "MUST" be secured with two (2) bolts. Maximum of 40 lbs. total ballast will be allowed. No titanium, magnesium, carbon fiber or tungsten products.

**DRIVESHAFT**: Minimum 2" diameter drive shaft retained with a steel safety strap. Must be painted white and made of steel. A loop is required and must be constructed of at least one-quarter (1/4) inch by two (2) inch solid steel. Loop must be mounted no more than six (6) inches from the front of the drive shaft tube. Alternatively, two (2) loops of one-quarter (1/4) inch by one (1) inch solid steel fastened to cross member are allowed. Yokes must be made of steel.

**WHEELS**: Must be fifteen (15) inches in diameter and eight (8) or 10 (ten) inches in width. Tire must match wheel width. Must be reinforced steel only. A steel bead lock may be used on the right rear wheel only and may be mounted on the outside of the wheel so long as it does not add over three-quarters (3/4) of an inch to the overall width of the wheel. Homemade mud caps are not allowed.

Wheel covers are permitted on right side wheels only. Inner mud plugs are permitted. Aluminum Spacer or adaptor only, offset wheel or a combination of the two is permitted, but may not exceed two (2) inches total offset per wheel. Three tabs of no more than two (2) inches long each may be welded onto the wheel for mounting of mud cap. Bleeder valves are not allowed. No Wide-5's. Added ballast to any wheel is not allowed. **No rotating weight allowed. Aluminum wheel spacers only. No enlarged spacers, bolt pattern size only.**

**TIRES: Asphalt take offs only.** Tire must match wheel width. May re-groove tires. Tires must durometer minimum 55 hardness. 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. Grooving and/or siping is permitted. All sidewall markings must remain visible at all times. Buffing or removing of the compound designations is not allowed. **Added ballast to the inside of any tire is not allowed.**

**TIRE TESTING PROCEDURES:** All tires must "Cold" durometer a minimum of 55 prior to pre-race inspection, no tolerance allowed. After any race the tires must "Hot" durometer 50 or above. Any tire reading below 50 will result in a disqualification for that race and will be subject to tire testing. Any tire "Hot" that durometers higher than 60 will be subject to tire testing.

Any tire not meeting the durometer rule reading is subject to having a tire sample sent in for chemical testing. Track tech official will have the driver take nine different samples of the tire under the tech official's observation and one witness and place three samples each into three different bottles. These bottles will be sealed and placed in an evidence bag and sealed with the identifying numbers on the seals and evidence bag number will be documented on a Tire Sample Collection Form with the sample

date, track name, drivers name, address, tire information written on the form. The driver, tech official and the witness will sign the form. The driver will retain one of the samples for further testing if needed, along with a copy of the form. One sample will be sent to the accredited laboratory for testing. One sample will be held by track officials for further testing if needed. Track officials will be notified of the results of the test as soon as they are provided to the accredited laboratory. The driver will then be notified of the results and any other action that may be required based upon the results. Traces of chemicals and/or excessive quantities of chemicals found to be outside the baseline on any test shall result in the following penalties:

For first infraction, driver shall be subject to a fine of one thousand dollars (\$1,000), suspension from all events for fourteen (14) days, loss of all points earned at the event and forfeiture of all cash and/or awards earned at the event.

For second infraction, driver shall be subject to a fine of twenty-five hundred dollars (\$2,500), suspension from all events for one (1) year, loss of all points earned to date for the current season and forfeiture of all cash and/or awards earned at the event.

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 race car 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). It is strongly recommended that all drivers use only soap and water. Baking tires will not eliminate traces of illegal substances. Tri-State Speedway will aggressively test for illegal substances and will levy severe punishment for infractions relating to tires.

## **ENGINES**

**OPTION 1: CRATE ENGINE** - GM Performance Parts (GPP) factory-sealed CT400 Chevy small block crate engine (Part No. 88958604): includes 8-quart circle track oil pan with dual kick-out design, valve cover breather kit, open-plenum high-rise intake manifold, 1.5:1-ratio aluminum roller rockers, forged steel crankshaft, hypereutectic pistons, 23degrees Fast Burn aluminum heads and special "kool nut" rocker arm design. Must be unaltered and sealed from factory at appropriate points (intake, head, timing chain cover and oil pan) with approved GPP break-off bolts. "Only" GM Performance Crate Motor Specs will be followed during technical inspections. Any altered, damaged or missing GPP break-off bolts will result in driver being disqualified from that event, loss of all track points accumulated up to, and including, the date of the offense, a \$1,000 fine and a one-year suspension from all events. May utilize one (1) Holley 4-barrel carburetor. Use of a spacer between carburetor and intake is optional but must be no more than one (1) inch thick if used and may not be throttle bore adjustable. Aerosol carburetors are not permitted. Any driver running a "Standard" engine with a "Crate" sticker will be disqualified. Bert, Brinn, and Falcon, and Mitchell Machine Bullet Transmissions with internal clutch are allowed on crate motor. Must utilize a maximum 6800 RPM rev limiter. (Rev limit may be subject to changes if needed). Rev Limiter may not be within reach of the driver while in cockpit and must be easily accessible to officials at any time.

**OPTION 2: THUNDERBIRD SPEEDWAY SUPER STOCK 360 SPEC ENGINE** - Must be stock appearing. Absolutely no changes are allowed. Must use stock firing order for that make and model (GM to GM, Ford to Ford, etc.). Titanium is not allowed. Must appear strictly stock for that model and make and in the original mounts. Parts for 400 cubic-inch or larger engines are not allowed.

Stroke must match block. Only stock appearing crankshafts are permitted. Lightweight cranks are not allowed. Undercut, bull-nosed, gun-drilled and/or knife edge crankshafts are not allowed. Lightweight, aluminum and/or fluid dampeners are not allowed. Only flat-top or dished pistons are permitted. Aluminum or light weight is not allowed. A minimum two (2) inch plug above the oil level in the side of the oil pan is recommended. If not utilizing a plug, oil pan will have to be removed at time of inspection.

Absolutely no stroking allowed. Only stock, unaltered two-or four-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, #2171 or #2665) or Weiand (#7515, #8023 or #7516); Chrysler -Edelbrock (#2176) or Weiand (#7545 or #8022). Porting, polishing and/or port machining is not allowed. Bowtie, aftermarket, SVO and W2, marine, VORTEC or other special production intake manifolds are not allowed. 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) or World Products (Part #043600 or #042670); Ford World Products (Part #53030; Chrysler-EQ (Part #CH138B) or RHS/Indy (Part #20300 or #20301). Chryslers may utilize OEM steel or aluminum shaft rockers but may not exceed one hundred twenty (120) pounds of valve spring seat pressure and must maintain OEM valve spring dimensions.

Heads may be flat milled to reach the 10.5:1 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. Roller cams and lifters are not allowed. Roller rocker arms are permitted. Must be a maximum 10.5:1 compression. May be a maximum of 360 cubic inches (368 c.i. for Dodge). GM five and seven-tenths (5.7) inch or six (6) inch rods are permitted. Must be stock-appearing I-beam non-polished rod. Cap screw rods are permitted. Mushroom lifters are not allowed (stock diameter only). Must match make and model. Stud girdles are not allowed. May utilize one (1) Holley 4150 HP Series, four-barrel carburetor. Use of a spacer between carburetor and intake is optional, but must be no more than one (1) inch thick if used and may not be throttle bore adjustable. Aerosol carburetors are not allowed. Must utilize a maximum 7400 RPM rev-limiter. (Rev limit may be subject to changes if needed). 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 so as to defeat the rev limiter rule shall receive a 30-day suspension, loss of all track 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 points for the season and a \$2,000 fine.**

**OPTION 3: STANDARD ENGINE** - Steel blocks only. Must be able to be used in a conventional passenger car without alteration. Aluminum intake is allowed. Headers allowed. No Tri- Y headers. Tip of number one spark plug must be even or in front of installed upper ball joint. Oil pump must be in stock location and OEM. No dry sump systems. Exhaust system and /or mufflers must be mounted in such a way as to direct spent gasses away from the cockpit. No lightening or external machining of block or heads. No aluminum heads. (Rev limit Rule may be added during the season or future if needed).

Bert, Brinn, Falcon, and Mitchell Machine Bullet Transmissions with internal clutch will be allowed with Engine Option 3 and 50 lbs of weight must be added (25 lbs on each upper frame tube measured 12" on center in front of engine plate to center of weight). Weights will not exceed 12" in total length. **NO BALL SPLINE TYPE ALLOWED.**

**CARBURETOR:** Cars utilizing engine option #3 Standard Engine must use 2-barrel carburetor. No more than 500 CFM. Maximum 1-11/16" throttle bore maximum. Carb must pass all top and bottom "go/no go" gauges (**boosters included**). Holley's OK. Engine option #1 Sealed crate engines and engine option #2 360 spec engines may use 4-barrel as stated in rules. Maximum one-inch spacer under carburetor. No aerosol type carburetors allowed. No remotely adjustable spacer/adaptor plate between carburetor and intake manifold. **All air should pass through the venturi of the carb.**

**STARTER, TRANSMISSION & CLUTCH:** Starter must bolt to engine block or factory location. Reverse mount starter is OK. Approved aftermarket transmissions are Bert, Brinn, Falcon, RaceGator, and Mitchell Machine Bullet Tranny with internal or external clutch. Aftermarket transmissions will be allowed with all engine options listed. **NO BALL SPLINE TYPE ALLOWED.** OEM three-speed, four-speed and automatic production-types are permitted.

Automatic transmissions must remain in OEM stock appearing automatic case with a functioning stock appearing pump. "In and out" boxes are not allowed. Ball spline transmissions are not allowed.

May all be clutch-operated or an OEM automatic with a coupler. May use a hand or clutch pedal operated ball valve for neutral.



Clutch must be inside of bell housing for OEM production- type transmissions. Internal clutches are not allowed except for approved aftermarket transmissions

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.

Aluminum flywheel is permitted. Must have full-sized SFI approved 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 and clutch must be workable. Mini clutch is allowed. 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. With engine running and race car in stationary position, driver must be able to engage race car in gear and then move forward and then backward at time of inspection.

**COOLING SYSTEM:** Aluminum water pumps are permitted. Cooling system may be modified. Sprinkler systems are not allowed. One (1) radiator is permitted and must be mounted in front of engine. Overflow tubes must be directed to the ground, between frame rails. Accumulators and Accusumps must be mounted in the middle of the race car or behind the driver, but not on door bars. Top flow air cleaner housings are permitted. Cold air boxes and/or air cleaner ductwork is not allowed. Marine-type engine components are not allowed.

**EXHAUST**:- Must be mounted in such a way as to direct spent gases away from cockpit of vehicle and away from area of possible fuel spillage. 'Zoomies' and/or 180- degree headers are not allowed. Exhaust pipes must extend to and connect with one (1) collector at least four (4) inches long. Must remain dual exhaust. Crossover or 'Y' pipes are not allowed.

**BATTERY**: Must be securely mounted and covered. One (1) 12-volt battery only (no 16-volt batteries). Voltage converters are not allowed. Must be in a marine-type case and mounted in trunk area. Positive battery posts must be covered.

**IGNITION**: Aftermarket or OEM Distributors allowed. No adjustable timing control or magnetos allowed. One MSD 6AL PN#6425, or MSD 6CT PN#6427 Box Allowed. Aftermarket ignition module and coil allowed. Track may confiscate and exchange MSD box at any time. Magnetos and/or crank-triggered ignitions are not allowed. No more than one (1) coil may be used. Kill switch required within easy reach of the driver. The switch must be clearly marked "off" and "on". Ignition box must be out of reach of driver. Digital gauges are not allowed.

**STARTERS**: Must be in working order and start race car. Must have capability of starting without being pushed or pulled. Must be able to join event lineup on demand and unaided.

**FUEL SYSTEM**: Automotive gasoline, racing gasoline or E85 is permitted (no E98). **Alcohol is OK**. Additives of any kind are not allowed. Penalty for illegal fuel is loss of points, cash and awards earned for that event. 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. Upper cylinder lubricants are not allowed. Electric or belt-driven fuel pumps are not allowed.

**FUEL CELL**: An approved fuel cell (32-gallon maximum) must be used at all times. Must be commercially manufactured. Boat and/or stock automotive fuel tanks are not allowed. Must be securely fastened inside trunk of race car and mounted by at least two (2) one-eighth (1/8) inch solid steel straps which are two (2) inches wide around the fuel cell and above the level of stock trunk floor. Must be in a steel container. Firewall must be between driver and fuel cell. All mounts must be made of steel and attached to frame or roll cage. Adjustable fuel cell mounts are not allowed. Must have check valves. A ball- type, flapper, spring or filler rollover valve is mandatory for fuel cells without a positive seal filler neck/ cap system Fuel lines passing through the cockpit must be enclosed in metal pipe or metal conduit. Fuel filters are not allowed in cockpit. **By 2020 Fuel valve plate, fuel pickup and fuel return fittings must be on the top of the fuel cell.**

**RADIATOR**: Radiator and transmission coolers must be mounted under the hood (aluminum allowed).

**WEIGHT**: The minimum overall weight for Engine Option 1 and Engine Option 2 will be two thousand nine-hundred (2,900) pounds. The minimum overall weight for Engine Option 3 will be three-thousand (3,000) pounds. The overall weight of the race car shall be measured at the conclusion of an event with the driver in the cockpit, wearing complete racing apparel.

**BALLAST**: No unsprung weight allowed anywhere on the car except for the following location. Ballast may be added to rear end tube but "MUST" be secured with two (2) bolts. Maximum of 40 lbs total ballast will be allowed. No titanium, magnesium, carbon fiber or tungsten products. May not be mounted in cockpit, or outside of body or hood area. Must be securely mounted, "MUST BE" painted white and clearly marked with the car number.

Must be attached with at least two (2) one-half (1/2) inch bolts.  
May not be attached to rear bumper. Any car with ballast that is not painted white, have car number and securely mounted will be subject to disqualification.

ALL RULES (OR INTERPRETATION THEREOF) WILL BE DETERMINED BY TRACK OFFICIALS. ALL TRACK OFFICIALS WILL HAVE THE RIGHT TO CHECK YOUR CAR AT ANYTIME, FOR ANY REASON. ALL TRACK OFFICIALS' DECISIONS ARE FINAL.

IF IT DOESN'T SAY YOU CAN – THEN YOU CAN'T!!!