



2018
INDEPENDENCE MOTOR SPEEDWAY LATE MODEL
RULES

Revised 04/17/2018

REVISIONS IN RED

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 all events, and by participating in these events, all participants are deemed to have complied with these rules. NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATIONS OF OR COMPLIANCE WITH THESE RULES AND/OR REGULATIONS. They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator or official.

1. Race Receivers are mandatory.
2. Standard Motor Rule (See weight rules) including all open motors

2018 SAFETY/GENERAL RULES

1. Helmets must be SFI 31.1/2005 or Snell rated Sa2005, SA2010 or SA2015 helmet required. (no open face helmets).
2. All drivers must wear approved fire retardant racing **gloves SFI 3.3/5** at all times when the car is on the track.
3. Solid center steering wheels are highly recommended.
4. **Head and neck restraint devices such as a HANS or similar with a minimum of a full wrap around neck brace is recommended, and may become mandatory.**
5. All cars must have seat belts and shoulder harness securely fastened to the frame or roll bar. They must be of the approved racing type with quick release aircraft type hookups. NO stock type seat belts allowed. Shoulder harness must be securely mounted to the roll cage no higher than TWO inches above shoulder level. Sternum straps are highly recommended. All cars are required to have 3" lap belt, crotch belt and 3" shoulder harness recommended to be no more than one year old. Unless approved 2" shoulder harness while using a HANS device. Belts must be no older than 3 years on the production date.
6. **Must use a full containment racing seat.**
The SFI 39.2 rating seat will be MANDATORY IN 2019. All seats must be mounted properly & securely per the Technical Directors recommendations. The use of Grade 5 or better hardware is also required to attach the seat to the chassis with minimum four mounting bolts (3/8 inch or bigger). Seat mounting brackets must use properly sized bolts 3/8 inch or bigger with washers to match the holes in the mounting bracket. No oversized holes or slotted holes in the bracket. For drivers that need more room for entrance and exiting the racecar check with the ISPseat Company on seat parts number ISP 202LA L quick release helmet belt and the ISP 202M mounting bracket. No head support may be trimmed any shorter than the distance of the face of the helmet on the LEFT SIDE ONLY.
7. Fire suits of at least a fire-retardant material are mandatory. (SFI 5 is the recommended minimum.) Sleeves must be rolled down. Nomex underwear is highly recommended, including hood and socks. Race approved footwear (leather shoes) are highly recommended.
8. All roll bars within the driver's area must be padded with flame retardant foam roll bar padding.
9. **All cars are recommended to use a window net 16x20 rectangular shape mesh or ribbon style, must be mounted in accordance with the manufacturer's instructions and technical director's satisfaction, must latch at the top. Window net will not be required when using a SFI 39.2 containment seat and a HANS (or similar) device. This does not include wrap around neck brace.** Arm restraints highly recommended.
10. Ballast (extra weight) added to the car for weight rule conformance must consider all provisions of safety and must be securely fastened. Ballast must be bolted to the frame or cage only. No ballast may be mounted above the interior deck to rub rails or body mounts. Any ballast weight of 20 lbs or more must be drilled and mounted with two 1/2" studs through

each weight. No ballast blocks less than 5 lbs. or more than 60 lbs. will be allowed. No stacking of ballast. Ballast must be painted white and stamped with your car number (this is a maintenance item and must be maintained all year.)

11. No unapproved cameras, listening or transmitting devices, timing retard controls, or digital gauges, digital tach is ok. No electronic monitoring computer devices capable of storing or transmitting information except analog tach. No electronic traction control devices. Eighteen-gauge steel or one-eighth inch aluminum "cockpit tub" to protect front, sides and rear of driver is highly recommended.
12. No car covers or opening covers of any kind allowed. Exception: If rain or inclement weather occurs you may cover your car until the weather passes and/or the rain stops. Including tires.
13. Fuel Cell see section-3 Rule 5
14. Window Bars see Section 4 – Number 2
15. Battery see section- 9 Rule 1 & 2
16. Wheel section – 14 Rule 2
17. All safety Rules must be followed or there will be a 50 lb. penalty for each rule not followed. There will be a grace period of 3 races that you can run with the weight penalty then the safety requirements will need to be installed.

SECTION 1: WHEEL BASE, SHOCKS, SPRINGS & SUSPENSIONS

1. The minimum average wheelbase is 103 inches. With ¼" tolerance.
2. Shocks must be constructed of aluminum or steel. Canister shocks are permitted.
 - A. The only external connection allowed to the shock is a single hose to a single remote canister with the option of a compression adjuster in the canister.
 - B. Compression adjuster and/or canister cannot be mounted within the reach of the driver.
 - C. Only 2 way compression/rebound adjustable shocks are permitted no 3 or 4 way adjustable.
 - D. Air shocks will only be allowed to attach on the left rear of the racecar.
 - E. Air and gas shocks will only be the only shocks on the car without a compression rule.
 - F. All other gas or hydraulic shocks on left front, right front, right rear, or 5th arm will need to be compressible by hand once spring has been removed and set in race setting.
3. No cross connected shocks are allowed.
4. No "RodThrough" designs are allowed.
 - A. "RodThrough" shocks are defined as those shock absorbers in which the piston rod protrudes from both ends of the shock body.
5. No Inerters are allowed
 - A. No rotating parts inside the damper.
 - B. No Inerter style dampers, either mechanical or hydraulic, or other type of primarily acceleration sensitive damping devices not permitted.
6. No Electrical adjusted or active dampers are allowed. No electrical wires, transmitting or receiving components will be allowed to be attached internally or externally to the dampers or mounted inside any component or dampers. No portion of the racecar including and not limited to shocks and spring components or chassis components may have the ability to communicate transfer/transmit/receive any type of digital or analog data or any language and or adjust or monitor in any way whatsoever including but not limited to a variation of a wireless remote device/phone/computer/tablet/ipad or a mechanical remote device.
7. Any new chassis design or component designs pertaining to and/or but not limited to shock absorber mounts must be submitted to FSP for approval before they will be permitted for use in competition. Manufacturer and/or competitor may be required to disassemble for complete inspection before instatement of new part is permitted.
8. Stacked coil spring permitted. Leaf Springs will be permitted on rear end only.
 - A. Coil Springs must be made of magnetic steel. Leaf Spring must be made of magnetic steel of approved composite material.
 - B. One traction spring and one brake spring mounted to the torque arm is permitted.
 - C. Torsion bars are not allowed in rear of car.
 - D. Spring preload adjustments for coil springs must be made using mechanical adjusting nuts on the shock body.
 - E. Spring preload adjustments for leaf springs must be made using a mechanical adjusting device such as an adjustable shackle or threaded rod type mount.
 - F. Other than spring dampening by the shock absorber, hydraulic, pneumatic, or electrically controlled adjusting devices. (static or dynamic) that affect spring preload or race car heights will not be permitted.
9. Shock Locations
 - A. Only one shock per wheel is permitted at the left front, right front, right rear corners.
 - B. Left rear must have one shock behind the axle tube and may have one traction (dummy) shock on the front side or top of axle tube. Must mount vertically to the birdcage or clamp bracket. C. One 5th Coil Shock permitted.

- D. One 90/10 optional shock may be mounted above lift arm on upper lift arm plates. Must be mounted towards the front of the car lying parallel with the car. Shock must mount within 3" of the centerline of the rear ends center section.
10. Drop Chain (limiting chain) is permitted. Must mount vertically between frame and a clamp bracket.
 11. Bump stops and/or bump springs are permitted.
 12. Suspension covers are not allowed. Rear covers on racecar 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.
 13. A Swing Arm and/or Z Link suspension is permitted as long as the Top and Bottom solid links are mounted on hiems and run in the opposite directions of the bird cage. The Shock on a Swing Arm or Z Link rear suspension may mount to the bird cage or the bottom radius rod.
 14. Any new chassis design or component design and or technology pertaining to and/or containing suspension must be submitted to FSP for approval before they will be permitted for use in competition. Manufacturer and/or competitor may be required to disassemble for complete inspection before instatement of new part is permitted.
 15. Suspension and/or rear end parts can be made of steel or aluminum. Aluminum mounting brackets are permitted. Must be A-frame type.
 16. Frame and/or suspension mounts must be welded or bolted solid to the frame and not move. le Floating, sliding, pivoting and/or rotating mounts and/or brackets of any sort are not allowed.
 17. Bolted components must match the correct bolt size with the hole (for instance no 3/8 bolts in a 1/2 inch hole will be deemed illegal) and be torqued to a min of 40 foot pounds per inch
 18. Rear Suspension Mounts.
 - A. All chassis mounts must be double sheer.
 - B. Double sheer mounts must be 1/8" minimum steel and/or 1/4" minimum aluminum.
 - C. Sheer mounts must use minimum 5/8" rod ends with minimum 1/2" grade 8 bolts only. The bolt must be bolted through both sheer mounts.
 - D. Double sheer mount must be no wider than 4 inches with a minimum 1/2" inch grade 8 bolt with steel or aluminum spacers only.
 19. Only one (1) mechanical traction device is permitted. Only one (1) pull bar or one (1) lift arm is permitted. No other options are allowed. Covers of any sort in any relation to the lift arm or pull bar are not allowed.
 20. Lift Arm & Pull Bar
 - A. 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.
 - B. Lift arm is defined as a steel or aluminum triangulated bar that is connected at the top and bottom of the rear end housing, extending forward where it is connected to a shock, shock spring coil over combination and a limiting chain. One stabilizer bar is permitted to locate the front of the lift arm from left to right in the car. C. 6th coil or braking spring assemblies are permitted, must be in front of 5th coil shock.
 - D. Pull bar is defined as a continuous assembly that is connected to the top of the rear end and extends forward to a solid mounting point located on the chassis. 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).
 21. Radius Rods
 - A. All rear suspension radius rods must be of a fixed length. No hydraulic cylinders, torsion bars, bump rods, spring rods, slider rods or shock type radius rods are permitted.
 - B. Radius Rods must be a minimum of 1" diameter OD. Rods can be round, square, or hex shaped. Rods must be a minimum of .095 steel or .120 aluminum in tubing thickness.
 - C. Heim joints must be a minimum 5/8, and a maximum 3/4" steel heim. No rubber bushings.
 - D. ONLY Two (2) radius rods per side.
 1. Radius rods must be spaced on the frame a minimum of 6"
 2. Radius rods must be spaced on the birdcage a minimum of 6" and a maximum of 12"
 3. Measurements will be made from center of each radius rod bolt.
 4. All radius rods must be straight with the exception of the left lower that can have a bend for axle housing mount clearance.
 22. Axle Housing Mounts (Birdcages)
 - A. Birdcages must be made of aluminum or magnetic steel, no exotic materials. Birdcages don't have to be made of the same material from side to side.
 - B. Birdcages may consist of multiple barrels but must bolt or weld together to work as single barrel birdcage.
 - C. Limited one birdcage (1) per side.
 - D. Shock(s) and radius rods must mount to the birdcage.
 - E. Floating, pivoting and/or rotating mounts and/or brackets of any sort are not allowed. All brackets or mounts attached to the birdcage must be bolted or welded solid.
 23. Rear Suspension and Suspension Components: A. Axle Housing, Rear Differential
 1. The axle housing must be of the "closed tube" design utilizing "full floating" magnetic steel axle shafts.
 2. The center section of the axle housing must be manufactured of either aluminum or magnesium.

3. Axle tubes must be one (1) piece. Axle tubes must be manufactured of aluminum or magnetic mild steel. Axle tubes manufactured of exotic, heavy materials will not be permitted. The outside diameter of the axle tubes must not exceed three (3) inches. Axle tube internal inserts or external sleeves will not be permitted. The addition of any ballast weight to the axle housing will not be permitted.
- B. Axle Housing Mounts
1. The only materials used to fabricate axle housing mounts (birdcages) that will be permitted is aluminum or magnetic mild steel. Axle housing mounts fabricated of exotic, heavy materials will not be permitted.
 2. When fabricating axle housing mounts detail must be paid to functionality. The completed axle housing mounts, when comparing the right and the left side, must be as similar in design as possible.
- C. Rear Suspension Attaching (Radius) Rods
1. The only materials used to fabricate attaching (radius) rods that will be permitted are magnetic steel or aluminum
 2. Aluminum attaching (radius) rods may be solid or tubular material. Magnetic steel attaching (radius rods) must be tubular with a maximum wall thickness of 3/16 inch.
24. Shock, Spring, and Suspension Penalties and Infractions: If violations are found during prerace technical inspection: The driver and or team will receive a warning and must meet full compliance before being allowed to compete. If a violation is found after qualifying has started technical inspection: No Winnings, Points, will be paid and a fine of \$1,000 may be assessed to the violating team and or driver.
25. DROOP RULE
- We are looking real hard into using the droop rule in 2018. We do not know the specifications of how we will tech this rule yet. But is a possibility sometime during the 2018 season this will be implicated.
<https://www.youtube.com/watch?v=7xAduiR4mzU> this is the link that will help you understand the droop rule if you aren't already familiar with it.
26. One mechanical power steering pump permitted. Electronic steering components are not permitted.

SECTION 2: ENGINES

- A) Any motor may be used restrictors and weight rules will serve as equalizers. See weight rules.
- B) GM crate motors See weight rules.
- C) IMCA/Wissota engines must pass all IMCA/Wissota spec rules, including carburetor spacer plate (see weight rule options).
- D) Engine Set-Backs
1. **All competing models using an engine larger than G.M. 361 cubic inches, including 525 crate, or Ford, or Chrysler larger than 364 cubic inches are allowed a maximum engine set back of 25½ inches (to be measured on the left side of the engine, from the front side of the rear engine plate, to the center of the upper A frame/control arm mounting bolts which should be equal to the center of the ball joint)**
 2. **All competing models using a Ford or Chrysler engine 364 cubic inches or smaller or a G.M. Engine 361 cubic inches or smaller including 602 & 604 crates are allowed a maximum engine set back of 27 inches using the same measuring technique as listed in section a.**
 3. **For any fraction beyond the measurement listed in a and b there will 25 lb. penalty to be placed in front of the rear motor plate up to each ½ inch increment beyond that will be an additional 25 lbs.**
- E) Steel Head Engine Rules (Small Cubic Inch)
1. Only O.E.M. stock production steel heads as numbered below will be allowed.
 2. No Dart, fuel injected, Ford Cleveland, or GT40 heads allowed.
 3. The specified (spec.) head will be the **G.M. BOWTIE non-vortec cylinder head, part/casting number 10134392, 14011058, 12480034, or 14011034. Chevrolet Performance Vortec Part number 12558060. Casting number 12039906 or 12558062 that have a 64CC combustion chamber, a 170CC intake port, No alterations to the head including porting or polishing and valve size must remain stock. 1.940" intake valve and 1.500" exhaust valves are legal to run by adding 50 lbs. to the total weight. You must use intake manifold Edelbrock 2716. Vortec Small port only with intake runner volume 185cc and exhaust runner volume of 65cc. No alterations to the head including porting or polishing and valve size must remain stock. You must use intake manifold Edelbrock 2716. Absolutely no large port Vortec bowtie heads. Valves must remain 2.00 intake 1.550 exhaust must add 50 lbs. to total car weight. THESE HEADS WILL NOT BE USED IN 2019.**
 4. Ford M-6049-n351, Mopar head casting number 4532693. Mopar may run Chrysler R block #P4532907 or P4532908. Mopar heads may be 15 or 18 degrees. O.E.M. J Design Mopar heads are not legal. No modification outside of the combustion chambers, except surfacing, three angle valve jobs, and touching up the combustion chamber. Titanium valves and retainers allowed.

5. Roller camshaft, lifters, and rocker arms will be allowed. Shaft rockers will be allowed.
6. Any aluminum intake may be used with a maximum total height of 6" from top of intake to the floor of the plenum. Up to a 2" spacer may be included in the 6" height. No super highrise intakes allowed. Plenum must have flat floor.
7. May run up to and including the Holley 4150 series 850 c.f.m. carburetor.
8. No titanium engine parts, except titanium valves and retainers.
9. Engine casting numbers stamped on the engine will be left on the block at the bell housing area.
10. No epoxying of block numbers will be allowed. Block numbers will be stamped by inspector if needed

Engine Claim Rules: REMOVED – There will be no engine claiming

SECTION 3: FUEL AND FUEL PUMPS

1. Racing Gasoline Only with no oxygenated Additives (Preferred VP 110 or VP Late Model +) No propylene.
2. Crate Motors (GM602, GM604, GM525) will be allowed to use commercial pump gas with no ethanol additive.
3. E-85 is not allowed.
4. All testing with the digitron dielectric meter is the responsibility of the driver or owner before the races if you are in question of your reading.
5. Commercially manufactured fuel cells mandatory, The only fuel cells that are approved are those that meet and/or exceed the FIA/FT3 specifications, NO alterations (example: alterations to top plate, removal of foam, etc.). fuel cell capacity may be from 5 to 32 gal including fill spout. You may purchase a kit to make existing fuel cells FIA/FT3 legal. Fuel cells that are not contained within a welded steel tubing "rack" must have two (2) equally spaced steel straps that measure two (2) inches wide by 1/8 inch in thickness that completely surround the fuel cell. The straps must be bolted to the frame. Longitudinal (front to rear) orientation is recommended for strap mounting. Fuel cell cannot extend below rear end tubes.
6. Fuel cells must have non-vented caps, rollover valves in return and vent lines, must pick up from the top of the fuel cell. Willy's Carburetor roll over plate part #WCD4000 is approved for competition.
7. Fuel cell guard must be made of at least 1" tubing and must extend to the bottom of the fuel cell.
8. No electrical fuel pumps allowed. (Belt driven fuel pumps or mechanical pumps will be permitted)

SECTION 4: WINDSHIELD SCREENS ROLL CAGES. FRAMES

1. All main cage and door bars must be 1.5" od x .083 wall minimum.
2. Bars in the windshield area will be required from left 1 ½ inch down tubes to right 1 ½ inch down tubes connecting roof hoop to the cowl area there must be ½ inch tubes (vertically mounted) spread a maximum of 6 inches. We also recommend a screen across the full area from left 1 ½ inch down tube to right 1 ½ inch down tubes, no bigger than 1x1 squares and no smaller than ½ x ½ squares across the whole front area.
3. All cars are required to use a roll cage with at least 3 horizontal bars across the driver's door.
4. All competing models will be required to have a vent window bar and a bar in the center of the roll cage over the driver's head.
5. All cars will be required to have a bar to protect the driver's feet.
6. Mandatory Door Plate

A collective effort of chassis manufacturers; crew chiefs; engineers and racers have provided the following images and developed two additional intrusion plate designs which have been approved for competition.

DIRECT WELD – INDIVIDUAL PLATES

A minimum 1/8" (.125") thick magnetic steel intrusion plate on the driver's side door bars is mandatory. Individual plates between door bars are permitted but must be weld around the perimeter.



APPROVED FOR COMPETITION: WELDED TABS/BOLT ON PLATE

Minimum 1/8" (.125") thick magnetic steel intrusion plate measuring a minimum of 16" x 26".

Intrusion plate must be bolted to fabricated 1/8" (.125") magnetic steel tabs, welded securely to the chassis, using a minimum of eight (8) x 3/8" Allen button head bolts.

A minimum of three (3) fabricated 1/8" (.125") magnetic steel tabs and 3/8" Allen button head bolts required across top of the intrusion plate, a minimum of three (3) fabricated 1/8" (.125") magnetic steel tabs and 3/8" Allen button head bolts required across the bottom of the plate, and one (1) fabricated 1/8" (.125") magnetic steel tabs and 3/8" Allen button head bolt in each in the middle front and middle rear of intrusion plate.



APPROVED FOR COMPETITION: INDIVIDUAL DOOR BAR CLAMPS/BOLT ON PLATE

Minimum 1/8" (.125") thick magnetic steel intrusion plate measuring a minimum of 16" x 26".

Intrusion plate must be bolted to a minimum of six (6) approved-design door bar clamps using the included 12 x 1/2" Allen button head bolts per the manufacturer's specification.

A minimum of three (3) approved-design door bar clamps and the included six (6) x 1/2" Allen button head bolts required across top of the intrusion plate and three (3) approved-design door bar clamps and included six (6) x 1/2" Allen button head bolts required across bottom of intrusion plate.

Vendor and part number must be clearly labeled on part.

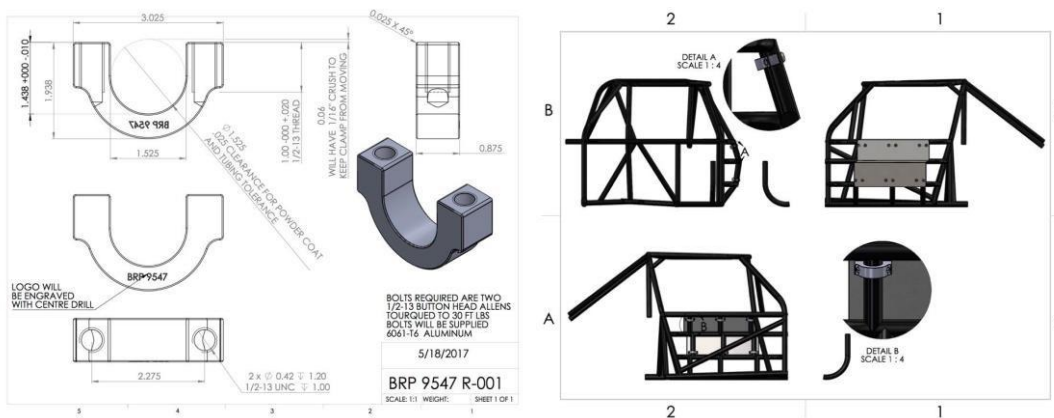
Current approved-design door bar clamps (as of June 6th, 2017) – in alphabetical order:

Manufacturer(s): Allstar Performance – Part Number: ALL4198

Bicknell Racing Products – Part Number: BRP 9547

Wehr's Machine & Racing Products – Part Number: WM397

(no other manufacturer has submitted a design for approval at this time)



SECTION 5: CARBURETORS AND AIR CLEANERS

1. Any eligible carburetor may be used. Approval of carburetor means approval for all competitors within the same guide lines.
2. All competing models must run the Holley 4150 series carburetor. Must meet the Holley 4150 height specs. (See Engine Rules for specific C.F.M.)
3. Any eligible dry element round air cleaner will be permitted. (Min.12" Max.17" in diameter and maximum 5" in height.
4. Only round metal air filter housing will be permitted. The top and bottom of the air filter housing must be solid and must be of the same diameter. A max. of a 1" lip will be permitted from the air filter element to the top edge of the air filter-housing top and bottom. The air filter housing must be centered and set level on the carburetor. It is permissible to attach a shield to air filter housing. The shield can be no higher than the height of the air filter element. Tubes, Funnels or any device

which may control the flow of air will not be permitted inside of the air cleaner or between the air filter housing and carburetor.

5. Cowl induction may be used as long as the air box is designed to draw air from under the hood. One side or end of the air box must be open. Hood scoops will be permitted to be open in the rear only.
6. No carburetor air dams or devices allowed increasing the airflow to the carburetor, either inside or outside air cleaner.

SECTION 6: CYLINDER HEADS, INTAKE MANIFOLDS, SPACER PLATES, AND IGNITION SYSTEMS

1. No MSD Rev Limiting Chip Rule
2. Any eligible cylinder head may be used. Approval of cylinder heads means approval for all competitors within the same guidelines.
3. The valve centers must remain the same as production manufactured steel cylinder heads for the make and model of the engine being used.
4. Intake must be stock configuration of OEM. manifold. (Inside of the bottom intake manifold must be flat. No devices permitted inside of intake manifold to disrupt the air flow to the engine) IMCA Chevrolet intake manifold may have the clover milled out to be an open intake. The sides must not be milled any bigger than stock and the ports and runners must not be changed from stock IMCA manifold. An additional spacer of only 1" will be added to this intake, no super sucker. The measurement of the allowed cutting will be 3.625 across and 3.625 front to back at the top of the intake where the carburetor plate is mounted. It may go down into the intake up to the maximum of 1" from the top of the intake where the carburetor gasket mounts and no farther than 90 degrees from the carburetor gasket surface. It may be less than 90 degrees no other grinding will be allowed inside the intake runners or fuel guide fins.
5. Any aluminum intake may be used with a maximum total height of 6" from top of intake to floor of plenum. Up to a 2" spacer may be included in the 6" height. ½ inch tolerance when racing with 1" restrictor/governor
6. Intake Manifolds on a Wide Bore Engine may configure to be taller than 6" with a 1" spacer & a 1" restrictor. If this motor seems to have more horsepower due to the heightened intake there will be a shorter restriction put on the spacer plate.
7. A. You may use 1 or 2 Spacer plates to hit intake height required engine specs. Between the carburetor and intake manifold. Spacer plates may be a 1-hole or 4-hole spacer plate, with nothing inside of the spacer plate with zero tolerance taper to enhance or increase the airflow to the engine.
B. When using the 1-inch governor/restrictor plate you may stack a 1-inch spacer to meet your intake height required engine specs. Between the carburetor and intake manifold. Spacer plates may be a 1-hole or 4-hole spacer plate, with nothing inside of the spacer plate with zero tolerance taper to enhance or increase the airflow to the engine.
8. No onboard computers, micro-controllers, processors, automated electronics, recording devices, Electronic memory devices, memory chips, or digital readout gages of any kind permitted. Digital Tachometers will be allowed.
9. Only one (1) electronic firing module amplifier is permitted, if used.
10. Only one ignition coil permitted.
11. NO Traction Control of Any Kind.
12. (1) MSD box #TBD will be used in place of the computer on the CT525

SECTION 7: CLUTCH, FLYWHEEL AND BELL-HOUSING

1. High speed multiple disc clutches are permitted.
2. All cars must be able to be put in and out of gear with the engine running and the car sitting still.
3. All competing models must be equipped with a flywheel and an operable starter.
4. A production manufactured steel bell housing or a heavy duty explosion proof aluminum bell housing may be used on all models.

SECTION 8: TRANSMISSION, DRIVE-SHAFTS, REAR AXLES AND REAR TREAD WIDTH

1. OEM. Production manufactured 2 to 4 speed transmissions that are cataloged through dealer channels will be permitted. Bert, Brinn, and Falcon circle track transmissions are permitted.
2. All transmissions must have at least 2 speeds forward and one reverse.
3. No 5 speed, over drive or automatic transmissions allowed.
4. All transmissions must bolt directly to the rear of the bell housing which bolts directly to the rear of the engine block.
5. All drive shafts must be painted white.
6. All cars must have a 360-degree hoop toward front of drive-shaft, made of at least ¼" by 2" steel strap.
7. It is recommended to have a drive-shaft safety hoop built out of 4 or 5-inch diameter by 6 inch long round tubing.
8. Full floating rear ends are compulsory. Rear end must be quick-change type and track approved.
9. Rear end coolers may be used, but cannot be mounted inside of the driver's compartment.

10. No open tube rear ends allowed.
11. No cambered rear ends permitted.
12. The rear tread width can be no wider than the front tread width. (Both sides)
13. Axles must be made of steel only.

SECTION 9: BATTERY, MIRROR, MIRROR, RADIATOR, FAN BLADE, WATER PUMP, AND OIL COOLER

1. Batteries can NOT be mounted in the driver's compartment. All Battery cables and battery cable ends must have a nonconductive covering to prevent electrical contact with any part of the race car creating electrical shortage.
2. (1) battery disconnect must be installed to the negative battery cable. Must be in reach of the driver near the shifter or on the deck behind the driver seat. Recommended: to have the disconnect mounted in both locations.
3. No mirrors permitted inside or outside of car.
4. Only 1 radiator permitted for the purpose of cooling water. Radiator must be mounted in front of the engine.
5. Water pump must mount in stock location.
6. No electric fans permitted. No flat bladed fans permitted (Electric fan permitted with ct525)
7. Oil reservoirs must be mounted in front of rear end housing.
8. Oil reservoirs or oil coolers cannot be mounted inside of driver's compartment.
9. Radiator overflow tube must exit towards the ground.

10.1 Bodies

- A.) Nose piece and roof must match body style of car.
- B.) All cars must have a minimum of one half inch (1/2") and a maximum of two (2") inches of roll at top of fenders, doors, and quarter panels. A sharp edge or angle will not be permitted. Body roll must go from sides over interior, not interior over sides.
- C.) Floorboards and firewall must cover the driver's area and be constructed to provide maximum safety.
- D.) Driver's seat must remain on the left side of the drive line.
- E.) Front window bars are mandatory.
- F.) Legible numbers, at least eighteen inches (18") high are required on each side of the car and roof.
- G.) No fins or raised lips of any kind are permitted anywhere along the entire length of the car.
- H.) Right side body line must be straight from front to rear with a one-inch (1") tolerance up and down, left and right. I.) No "slope noses" or "wedge cars" permitted. Noses must be stock appearing, subject to Series template.
- J.) No "belly pans" or any type of enclosure on bottom of cars will be permitted. Skid plate to protect oil pan is permitted.
- K.) No wings or tunnels of any kind are permitted underneath the body or chassis of the car. A maximum of one (1) stone deflector, for rear mounted oil pumps, oil filters, and for the main oil tank will be permitted. The deflector may be made of steel, aluminum, carbon fiber, or heavy gauge wire. Can run from rear of motor mount to in front of the four bar brackets not to cover bracket. Not to be above the top frame rail. Not to exceed below the bottom frame rail.
- L.) All body panels must be solid. No holes, slots, or air gaps are permitted. NACA ducts or NACA style ducts are not permitted. One hole for interior (deck) mounted oil cooler is permitted.
- M.) All non-approved bodies or any section/s of the body can or will be assessed a fifty pound (50#) minimum weight penalty at the discretion of the Technical Director.
- N.) No panels of any kind under the rear deck running from the front to the rear of the car. Bracing from fuel cell top from front to rear is legal.
- O.) Any air cleaner scoops used must be positioned in front of or around the air cleaner and cannot exceed one (1") inch in height above any part of the air cleaner. The scoop cannot be designed with fins or raised edges to direct airflow. The scoop cannot extend behind the rear of the air cleaner and must have a maximum width of seventeen inches (17") at the rear, with a maximum of ten inches (10") width at the front and cannot have more than one inch (1") opening in height at the front.
- P.) No cockpit or driver adjustable shocks, hydraulic or pneumatic weight jacks, trackers, MSD boxes or similar adjustable components of any kind are permitted inside the cockpit of the car. Taping over of any adjuster is not permitted. The offending component must be removed from the cockpit.

10.2 Stock Nose Pieces

- A.) Technical Inspector must approve all stock nose pieces.
- B.) Nose pieces must be made of molded type material.
- C.) Two (2) piece noses must be fastened together in the center. No spacers to gain width or cutting to narrow overall width of the nose are permitted.
- D.) The nose must be mounted flat where filler panel and nose piece meet. Nose piece may not be altered from its original shape. Nose piece will be checked with a template. Nose will be pushed against mounting supports to gauge its profile against template.
- E.) Adding to the bottom of the OEM valance to achieve lower ground clearance is not permitted.

- F.) A stock nosepiece can extend a maximum of fifty-two inches (52") from the center of the front hub to the farthest point extending forward. (1" Tolerance)
- G.) Front fender flairs must be made of plastic and cannot alter the original shape of the nose piece. The front fender flairs cannot extend beyond the front tire more than one inch (1") in width with wheels pointed straight. H.) Front fender flairs must have collapsible support.
- I.) Front fender flairs can extend a maximum of three inches (3") above the fender tops and hood.
- J.) Front fender flairs can extend a maximum of four inches (4") above where the filler panel meets the hood.
- K.) The nose piece must have a headlight decal package attached. One warning will be permitted and then the car must run contrasting color tape in the shape of a headlight.
- L.) The front and sides of nose panels cannot be cut or altered, with the sides mounted no lower than 4 inches from the ground with the car at racing height. The sides of the nose panels must be parallel to the ground. M.) The racetrack officials must approve any bars ahead of the nose panel.

10.3 Roof and Roof Supports

- A.) The roof length size must be a minimum of forty-four inches (44") to a maximum of fifty-four inches (54").
- B.) The roof width size must be a minimum of forty-eight inches (48") to a maximum of fifty-two inches (52").
- C.) Roof must be stock appearing and mounted directly to roll cage with no more than a ½" spacer.
- D.) Roof height must be between forty-five inches (45") and forty-eight inches (48") from the ground.
- E.) A maximum one and one-half inch (1.5") roll, turned downward, is permitted along the front edge of the roof. A maximum one-inch (1") ninety-degree (90°) bend is permitted along the rear edge of the roof. (Roll permitted to help strengthen roof).
- F.) A maximum one and one-half inch (1.5") roll, turned downward, is permitted along the front edge of the roof. A maximum one-inch (1") roll turned downward is permitted along the rear edge of the roof. (Roll permitted to help strengthen roof).
- G.) No odd shaped roofs permitted.
- H.) All roof side (sail) panels must extend to the edge of the body. Maximum (no tolerance) right side sail panel size – seventeen inches (17") at the top and forty-three inches (43") at the bottom. Maximum (no tolerance) left side sail panel size – seventeen inches (17") at the top and forty-three inches (43") at the bottom and minimum fifteen inches (15") at the top and forty inches (40") at the bottom. The window area may be covered with clear Lexan or transparent material. Both roof support openings must be covered or both must be left open, if left open the openings must maintain a border frame of 2-3" at the top and sides and 3" at the bottom. Decals will be permitted but must meet the dimensions in the drawing and must be approved by the Technical Inspector. Maximum two-inch (2") radius (No Breaks) in either direction in rear roof side panels is permitted.
- I.) Sail Panel Windows Openings must be a border frame of 2-3" at the top and sides and 3" at the bottom with no tolerance +/-0"
- J.) Front posts must be flat and in uniform width from top to bottom – a minimum of two inch (2") and four inch (4") maximum width. Left and right sides must match in size.
- K.) Front posts must be flat and in uniform width from top to bottom – four inch (4") maximum width.
- L.) Any sun shields, four-inch (4") maximum, must be able to hinge for easy exiting of car.
- M.) Roofs may be made of fiberglass or aluminum, but must meet specifications as set forth in the rules and must be approved by the officials.

10.4 Front Fenders and Hood

- A.) Hood can drop one-inch (1") with a one-inch (1") tolerance measured at the back edge of the hood and in front of the carburetor from left to right side of car. Fenders must taper from outer edge to hood in a straight line. Fender material must be flat with no bubble. Fender top must have ten inch (10") minimum width.
- B.) Fenders are not permitted to gain height from rear to front of car. Will check with a string from the top of the quarter panel at the spoiler to the top of the highest point of the fender. Must be flat (1" tolerance) C.) No part of fender or hood can be outside of the body line.
- D.) The front fender can be a maximum of thirty-six inches (36") in height. Height is measured vertically from the ground to the top of the fender behind the front tires.

10.5 Doors

- A.) Door to door cannot exceed seventy-seven inches (76") in width at the top of the doors. (1" tolerance)
- B.) Door to door cannot exceed eighty-nine inches (89") in width at the bottom in the center of the car.
- C.) At no point can the door sides break in towards the center of the car between the top and bottom. One-inch (1") tolerance including plastic.
- D.) The minimum ground clearance permitted is three inches (3").

10.6 Quarter Panels

- A.) Quarter panel can be a maximum of forty-nine inches (49") from center of rear hub to rear edge measured horizontally. Quarter panel can be a maximum of fifty-four inches (54") from center of hub to rear t-bar at spoiler.
- B.) Tire clearance from body must be a minimum of two inches (2"). No wheel skirts permitted.
- C.) At no point can quarter panel sides break in towards center of the car between the top and bottom. One-inch (1") tolerance including plastic.
- D.) Right side quarter panel must be straight in line with the door. Will check with a string from the top of the quarter panel at the spoiler to the top of the highest point of the fender. Must be straight with a one-inch (1") tolerance.
- E.) Left rear quarter panels must extend downward from the deck a minimum of thirty-three inches (33") and a maximum of thirty-six inches (36") including the plastic. Measured at the front and rear of the quarter panel. Right rear quarter panels must extend downward from the deck a minimum of twenty-seven inches (27") without the plastic and thirty-one inches (31") with plastic. Measured at the front and rear of the quarter panel. One-inch (1") tolerance.

10.7 Frames

- A.) No aluminum frames or bumpers permitted in construction of car.
- B.) Minimum 103" - Maximum 105" wheelbase.
- C.) Rectangle or Square Tubing: i.) The frame of all cars must be constructed of two two-inch by two-inch (2") minimum rectangular or square tubing with a minimum of eight-inch (8") circumference and a minimum of eighty-three thousandths inch (.083") wall thickness.
- D.) Round Tube Frame: i.) The frame of all cars must be constructed of a minimum of one and three-quarter inch (1¾") round tubing and must have a wall thickness of eighty-three thousandths inch (.083") wall thickness minimum.
- E.) If rear bumper is stubbed, it may only extend a maximum of eight inches (8") beyond frame. Any stubbed rear bumpers that extend eight inches (8") or more beyond frame must be rounded and directed towards the front of the car. F.) It is recommended that all cars be equipped with a tow hook or strap.
- G.) All battery supports must be braced in two axis - two horizontal and one vertical.
- H.) All frame and chassis components must be welded or bolted together. No sleeves, slip couplings. etc.

10.8 Roll Cages

- A.) Cars must have a suitable steel roll cage in driver's compartment.
- B.) Side roll bars are mandatory and must extend into the door panels.
- C.) A minimum of three (3) bars must be used on the left side of the car. Each bar must be a minimum of one and one-half inch (1½") in diameter with a minimum thickness of ninety-five thousandths inch (.095"). D.) Roll cage must be welded to the frame.
- E.) Roll cage must be above the driver's helmet. 38" minimum between floor pan and the bottom of the roll cage F.) No "fin-shaped" or "foil-shaped" add-ons permitted on any part of the roll cage. The entire roll cage must be constructed of round tubing only.
- G.) Roll cage padding certified to SFI Spec 45.1 is required anywhere the driver's helmet may contact the roll cage while in the driving position.

10.9 Interiors

- A.) Interior is permitted to be dropped to the middle (just behind the seat) of the car a maximum of five inches (5") below the top of doors and a minimum of twelve inches (12") below the roll cage.
- B.) Interior must be fastened flush at the top of the door and quarter panels and must taper gradually towards the center of the car. Maximum of seventy-degree (70°) angle from the deck.
- C.) Interior must run in a straight line from behind the driver's seat to the rear spoiler.
- D.) Interior (deck) must run in a straight line (vertical and horizontal) across the back of car at the spoiler.
- E.) All interiors must be made of aluminum.
- F.) If interior is flat through the car, it must maintain a twelve-inch (12") clearance from roll cage for easy exiting from either side of the car.
- G.) Cowl (driver protection) panels in front of the driver may have a maximum of three inches (3") in height. The cowl panel must taper to the deck or end in line with the steering wheel.
- H.) If interior is dropped at firewall/back of hood, that portion of the firewall must be filled in vertically with aluminum. Interior may be dropped a maximum of two inches (2") from the top of the hood.

10.10 Spoiler

- A.) Rear spoiler must be manufactured of material of adequate strength, such as Lexan, Aluminum, or Carbon Fiber.
- B.) Rear spoiler material maximum eight-inch (8") height measured from deck to tip of material. Maximum seventy-two inch (72") width between outer edges of spoiler sides.

- C.) Rear spoiler is not permitted to be suspended above the deck to create a “wing effect.”
- D.) Rear spoiler must begin where quarter panels end. No extended decks permitted.
- E.) Maximum of three (3) rear spoiler supports. Option of two (2) additional one-inch (1”) aluminum braces.
- F.) Spoiler supports cannot be mounted wider than the top of the quarter panel.
- G.) Spoiler must be straight (vertical and horizontal) where it mounts to interior (deck) panels.
- H.) All spoiler braces will be required to fit the series template, be no higher than 4” at the front of the base and can be no higher of extend rearward past the rear spoiler.
- I.) Spoiler braces will be permitted to have up to a ½” break in them.

10.11 Covers

Car opening covers are not permitted. Exception: in the event of rain or inclement weather you may cover your car until the weather passes or the rain stops.

SECTION 12: WEIGHT RULES: All weight rules are to be met after all races.

Weight rules and restrictors may be changed at any time as determined by Track Officials to equal the competition.

1. STEEL BLOCK ONLY: 602, 604 GM crate Motors, 2200 lb. weight minimum with up to a 8” spoiler
2. STEEL BLOCK ONLY: Complete IMCA Spec Motor Rule may use any intake spacer including super sucker up to 2” tall **2350 lbs. Chevrolet Read intake manifold Section 6 Rule #4.**
3. STEEL BLOCK ONLY: Wisconsin Spec Motor must weigh **2350 lbs. with (2) 1.250 restrictor and (2) 1.300 restrictor** and not allowed to run alcohol (unless otherwise stated) must run a steel block.
4. STEEL BLOCK ONLY: 364 or smaller all steel engine with compression ratio 11 to 1 or less must weigh **2325 lbs. (high comp 2400 LBS.) both compression ratios must meet rules section 2-5 (a through I)**
5. STEEL BLOCK ONLY: Chevrolet Motors Under 364 cu in motor with standard valve angle of plus or minus 2 degrees of standard ported steel or aluminum heads must weigh **2350 lbs.** with (2) at 1.100 restrictor and (2) at 1.150.
6. STEEL BLOCK ONLY: Chevrolet Motors Over 364 cu in motor with standard valve angle plus or minus 2 degrees of standard ported steel or aluminum heads must weigh **2350 lbs.** with (4) at 1.100 restrictors
7. GM ct525 minimum weigh **2350 lbs.** with up to a 8” spoiler
8. Open Aluminum or steel motors with unrestricted valve angle 365 cubic inch or less must weigh **2400 lbs.** with restrictors **(4) 1.000 restrictors**
9. Open Aluminum or steel motors with unrestricted valve angle 366-400 cubic inch must weight **2400 lbs.** with **(2) 1.000 restrictors and (2) 0.950 restrictors**
10. Open Aluminum or steel motors with unrestricted valve angle 401 cubic inches and larger must weigh **2400 lbs.** with **(4) at 0.950 restrictors**
11. **45 lbs. of weight in block form weight in pieces no less than 5-pound pieces** is required in front of rear motor plate with Aluminum block motor, **option on motors 9 & 10:** May run 30 additional pounds instead of **45** additional pounds by subtracting **(2)** of the 4 restrictors by .050. (Example if you motor option #9 to run only 30 lbs. addition **(2)** restrictors would need to be .950 and **(2)** restrictor of 1.000)
12. **Any lightened steel blocks will have to add 15 lbs. of weight in block form no less than 5 lb. pieces in front of the engine plate.**
13. In the future, an LS style engine is being worked on for rules. As of now the weight has not been determined.
14. All weights must be in block form of no less than 5lbs and must be painted white with the car number on them.
15. All weight must be bolted to the frame of the car in a secure manner. Should use at least 2 half inch bolts for each weigh that is bolted to the car. No stacking of weights permitted.
16. Any weight mounted behind the fuel cell must be mounted below the frame of the car.
17. Mounting of weight inside of the driver compartment or above the interior of the car is NOT permitted.

SECTION 13: TIRE RULE

1. **The tire will be Hoosier WRS 2-D55.**
2. 11.0/88, 11.0/90, or 11.0/92 only will be permitted.
3. **Grinding and straight siping on tire tread only will be allowed in 2018. No softening, conditioning or grooving will result in disqualification.**
4. The composition and character of the tire may not be altered from original. This includes NO soaking, softening, conditioning, chemicals of any kind or recapping. D-55 tire should be no softer than 55 points on the durometer, warmers and any other means of artificially warming tires are prohibited.

5. Recommended washing tire with water only. Warning soaps and cleaning products may be detected as chemicals or altering the tires and is subject to disqualification, fines and suspension.
6. Tire protest: Any driver, owner, or crew chief competing in the A feature event (must take a lap) are eligible to protest tires for chemical compounds or conditioning. Cars being protested must have finished in the top 5 A feature positions. Protest fee will be \$300 for 1 tire – 1 test. All other tires on the same car can be tested for an additional \$250 per tire. Totaling \$1050 for all 4 tires on the same car being protested at the same event. Protest must be cash and bills must be in denomination of not less than \$20.
7. Tire protest and money must be presented within 15 minutes of the drop of the checkered flag to one of the FSP tech officials. Winnings of the protested tire will be held until test comes back along with any other winnings made until the tests come back.
8. Tire Sample(s) will be cut with a blade/tool provided by the person being protested.
9. Denial Refusal of Tire protest will result in a Disqualification for that night (loss of both winnings & points) Loss of 100 additional points & a \$500 fine due before you can compete at a FSP weekly racing series event again. Protester will receive his/her money back if protest is denied.
10. If testing proves tire sample to be illegal you will lose winnings for the night you were protested and all points accumulated in the season up to the protested date. \$500 fine due before you can compete at FSP in the weekly racing series again. You will not be able to compete in the next 3 weekly racing series events (not to roll over into the following season.)
11. If Protested tire comes back to be illegal the person who protested the tire(s) will receive the Protested driver's winnings for that event up to the amount that was used to protest.

SECTION 14 WHEELS AND BRAKES

1. Brakes, Brake Components, Wheel Hub:
 - a) Brake calipers must be manufactured of aluminum.
 - b) The brake caliper including brake caliper pistons must be used as produced by the brake caliper manufacturer.
 - c) Brake rotors must be manufactured of magnetic steel, stainless steel or cast iron.
 - d) Brake rotors must be used as produced by the brake rotor manufacturer.
 - e) Wheel hubs must be manufactured of aluminum or magnesium.
 - f) Wheel hubs must be used as produced by the wheel hub manufacturer.
 - g) The combined weight of the wheel hub, wheel bearings and seal, spindle nut and washers, brake rotor and attaching hardware, the axle cap, and the wheel spacer must not exceed 27 pounds.
 - h) All brake lines must be metal. No plastic lines, Brake hoses must be steel braided.
2. Wheel, Wheel Discs, Wheel Spacers:
 - a) Only aluminum wheels will be permitted. Maximum wheel width 14". Bead locking devices permitted on all 4 corners.
 - b) Only approved wheel discs will be permitted. Approved wheel discs are wheel discs that are fastened to the wheel using a minimum of three (3), 1/4 or 5/16 inch diameter magnetic steel hex head bolts. Foam style mud plugs are permitted.
 - c) Only aluminum wheel spacers will be permitted. Maximum 2 1/2".
 - d) The combined weight of the wheel, wheel hardware, wheel disc and fasteners, and tire must not exceed 40 pounds*. *The maximum combined weight in this rule is based upon current tire rules and may need to be adjusted in the event of an alternate tire.

SECTION 15 LATE MODEL POINT FUND

The 2018 track point fund will pay the top ten cars at both Independence Motor Speedway in points as follows: (1) \$2,500, (2) \$1,200 (3) \$900 (4) \$700 (5) \$600 (6) \$500 (7) \$400 (8) \$300 (9) \$250 (10) \$200. Must run all required sponsor decals at all events to be eligible for point fund.

**** These rules are subject to change, so stay tuned. There will be drivers meetings on a regular basis!!**