

2018 THUNDER STOCK RULES

The rules herein shall refer to Adirondack International Speedway as "AIS". These rules are intended to create affordable and fair competition. While they offer a good outline, every item cannot be covered by a written rule. Any questions regarding any item not specifically covered in these rules should be addressed with AIS Officials prior to proceeding. No car, Component, or equipment will be considered as having been by reason of having perviously passed through inspection unobserved or undetected. All equipment is subject to inspection and approval by AIS Officials. You may be assessed penalties including, but not limited to: added weight, fines, loss of points, loss of handicapping, and suspension, car parts, componets, and/or equipment deemed as not in compliance with these rules. Any car part, component, and/or equipment which does not conform to the specifications or tolerances conatined in the 2018 rules book or is not otherwise approved by AIS may not be used in competitiin 2018, and is subject to confiscation at the discretion of AIS Officials

By competing at AIS, you agree to have read the AIS 2018 General Rulebook and the 2018 AIS THUNDER STOCK Rulebook.

1. APPROVED MODLES

- 1.1 This class includes fully stock, 4 cylinder single or dual overhead cam cars with no modifications.
- 1.2 Air bags must be COMPLETELY removed.
- 1.3 Must register year, make, and model of car with AIS Tech Inspector(s).
- 1.4 No turbo charged, supercharged, and/or rotary powered cars allowed. Naturally aspirated cars ONLY. Gasoline ONLY as a fuel: no methanol. No additives permitted.
- 1.5 All cars must have chains/cables on the front and rear of the car for towing purposes.
- 1.6 May use cold air intake.
- 1.7 Hood scoops will be permitted, provided that they are for decorative purposes ONLY, and they may not be functional. NO air flow will be permitted. ANY air flow will result in disqualification.

2. CHASSIS/FRAME

- 2.1 Stock frames in good condition. Frame MUST be straight, sound, and complete.
- 2.2 NO welding, chopping, shortening, or lowering of frame is allowed.

3. DRIVER SAFETY EQUIPMENT

- 3.1 Full body SFI rated fire retardant suit mandatory. Either a one piece or two piece race suit is acceptable. If fire suit appears weathered, burned, or otherwise compromised, or if SFI tag is not visible/legible, AIS Officials reserve the right to reject any suit.
- 3.2 SFI rated fire retardant undergarments are recommended.
- 3.3 Approved SFI rated racing shoes or leather work shoes are permitted. ABSOLUTELY no sneakers allowed. Fire retardant socks recommended.
- 3.4 Fire retardant racing racing gloves required.
- 3.5 All drivers must have a full face helmet that meets a minimum DOT rating with no sign of previous damage. NO openface helmets permitted.
- 3.6 Neck collar or head and neck restraint device highly recommended for your safety.

4. OVERALL CAR WEIGHT

- 4.1 Weight requirements is calculated by engine size - one (1) pound per cc.
- 4.2 Minimum weight 1800 pounds.

5. ADDED CAR WEIGHT

- 5.1 Added weight must be in block form magnetic steel or lead only of no less than five (5) pound blocks (no pellets).

6. WINDOW NET

- 6.1 All cars must have an SFI - approved net properly installed in the driver's window area. Window net must be securely mounted with a good type of quick release that must be inspected and acceptable to AIS Tech Inspector(s).

11. BATTERY

- 11.1 All cars must have main power disconnect located within reach of the driver and clearly marked. Power disconnect must shut off the **WHOLE** electrical system - a key switch does not and can not take the place of the main disconnect.

12. RADIOS

- 12.1 Monitoring of AIS Race Control on frequency 454.0000 is mandatory via a RaceCeiver, microscanner, or receiver. The approved one-way receiver must be mounted in plain view for inspection. Any car not monitoring the Race Control frequency during practice will be black -flagged to be made aware of their failure and is required to remedy it before proceeding further in the event. Any car not monitoring the Race Control during competition may be removed from the track at the discretion of AIS Officials. No other form of one- or two- way communication is permitted in the car at any time.

13. EXHAUST SYSTEM

- 13.1 Any oval style muffler (i.e, Turbo or OEM). Maximum in and out diameter of 2-1/2".
- 13.2 Must exit at the rear behind the driver.

14. DRIVESHAFT/DRIVE AXLES

- 14.1 Driveshafts and drive axles must be painted white.
- 14.2 Rear wheel drive vehicles must have a drive shaft loop

15. TRANSMISSION

- 15.1 Stock OEM transmission **ONLY** for make and model of the car.
- 15.2 No fabricating of mounts allowed.

16. SUSPENSION

- 16.1 Maximum camber adjustment is five (5) degrees.

7. WINDSHIELD

- 7.1 All glass must be removed.
- 7.2 Stock windshield will be permitted ONLY if it is not cracked.
- 7.3 Lexan or wire mesh may be used for windshield with at least two safety straps in the center.
- 7.4 Three (3) inch maximum visor over windshield permitted. May not obstruct the driver's view in any direction.

8. REAR VIEW MIRROR

- 8.1 Absolutely NO mirrors allowed.

9. INTERIOR

- 9.1 An aluminum racing seat is mandatory. NO fiberglass seats permitted. Must be securely mounted to frame or roll cage in a minimum of six (6) points (four at the bottom and two at the back).
- 9.2 Must use SFI approved racing harness with a minimum of five (5) points, properly mounted to the roll cage. Belts must be three (3) inches wide and have a quick release latch. Restraints must be dated within five (5) years of the date of use. Date stamp must be legible - harnesses with illegible date stamps will NOT be permitted. AIS Officials reserve the right to reject any harness that shows discoloration or wear.
- 9.3 All roll bars located around driver must be padded. Fire retardant padding recommended.

10. GENERAL ENGINE REQUIREMENTS

- 10.1 Must be stock OEM for make and model of car. No swapping of twin cam head on a single cam block, or single cam head on twin cam block.
- 10.2 No engine modifications allowed.
- 10.3 All sensors must be in stock OEM position of factory.

17. TIRES AND WHEELS

- 17.1 OEM wheels mandatory.
- 17.2 DOT tires only.
- 17.3 Tire sizes allowed are 165-235, 50/60/65/70/75/255/40ZR series. Tread wear must 300 or higher
- 17.4 No mismatching of rim sizes allowed. The same size wheel must be on all four (4) corners of car.
- 17.5 Permitted wheel sizes are 13,14,15,16 and 17
- 17.6 NO wheel spacers or shims permitted.

NOTE: A participant completing in any race at AIS specifically agrees that he/she acknowledges it is to soak or treat racing tires and that said soaking or treatment of racing tires is against EPA regulations and further contains carcinogens and hazardous material which are unfit for his/her health and the health of all competitors and spectators. Any participant found violating the rule is subject to suspension.

18. GROUND CLEARANCE REQUIREMENTS

- 18.1 All ground clearance measurements will be taken at the lowest point, with the driver fully suited and in the driver's seat in a normal sitting position. There is a zero tolerance.
- 18.2 Frame rails must have a minimum of four (4) inches of ground clearance.
- 18.3 There will be four (4) points of measurement on the frame.

19. BRAKES

- 19.1 Must have four (4) wheel working brakes.
- 19.2 No shut off or bias adjusters allowed.

20. FUEL CELL

- 20.1 Fuel cells are permitted but not mandatory.
- 20.2 Fuel cell installation must be inspected and approved by AIS Tech Inspector(s).
- 20.3 Main power of fuel pump must be wired to clearly labeled safety shut off switch.

21. ROLL BARS

- 21.1 A four (4) point cage minimum- six (6) point cage maximum - is required. Must be inspected and approved by AIS Tech Inspector(s).
- 21.2 Must have 1/8" steel plate welded to outside of driver's side of roll cage to protect driver.
- 21.3 Six point roll cage must have gussets welded at all 90 degree joints.
- 21.4 Cage must be built with suitable headroom for driver.
- 21.5 No front tubing in engine compartment at all.
- 21.6 Rear strut bracing allowed only from strut tower to strut tower, and will not be attached to the cage at all.
- 21.7 Solid welds only- no holes or bubbles.
- 21.8 Pipes must be completely welded.
- 21.9 No kinked tubing.

Note: Competitors are solely and directly responsible for the safety of their race cars and racing equipment and are obligated to perform their duties (whether as a car owner, driver, or crew member) in a manner designed to minimize to the highest degree possible to risk of injury to themselves and others.

Reminder: ANYTHING not specifically addressed in the rules- or any deviation from the above rules- MUST be cleared with and approved by AIS Officials PRIOR to acceptance. We can be reached by phone at 315-486-3429 or 315-681-7553.