



2017 THUNDER STOCK RULES

(Amended May 15, 2017)

The rules herein shall refer to Evans Mills Speedway as "EMS". 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 EMS Officials prior to proceeding. No car, component, or equipment will be considered as having been approved by reason of having previously passed through inspection unobserved or undetected. All equipment is subject to inspection and approval by EMS Officials. You may be assessed penalties including, but not limited to: added weight, fines, loss of points, loss of handicapping, and suspension, car parts, components, 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 contained in the 2017 rules book or is not otherwise approved by EMS may not be used in competition in 2017, and is subject to confiscation at the discretion of EMS Officials.

By competing at EMS, you agree to have read the EMS 2017 General Rulebook and the 2017 EMS Thunder Stock rulebook.

APPROVED MODELS

This class includes fully stock, 4 cylinder single or dual overhead cam cars with no modifications.

Air bags must be COMPLETELY removed.

Must register year, make, and model of car with EMS Tech Inspector(s).

No turbo charged, supercharged, and/or rotary powered cars allowed. Naturally aspirated cars ONLY. **Gasoline ONLY as a fuel; no methanol. No additives permitted.**

All cars must have chains/cables on the front and rear of the car for towing purposes.

May use cold air intake.

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.

Steel roof must be maintained for structural integrity. Fiberglass roof will NOT be permitted.

CHASSIS/FRAME

Stock frames in good condition ONLY will be permitted. Frame MUST be straight, sound, and complete.

NO welding, chopping, shortening, or lowering of frame is allowed.

DRIVER SAFETY EQUIPMENT

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, EMS Officials reserve the right to reject any suit.

SFI rated fire retardant undergarments are recommended.

Approved SFI rated racing shoes or leather work shoes are permitted. ABSOLUTELY no sneakers allowed. Fire retardant socks recommended.

Fire retardant racing gloves required.

All drivers must have a full face race helmet that meets a minimum Snell SA2000 rating with no sign of previous damage. NO open face helmets permitted.

Neck collar or head and neck restraint device highly recommended for your safety.

OVERALL CAR WEIGHT

Weight requirement is calculated by engine size – one (1) pound per cc.

Minimum weight 1800 pounds.

ADDED CAR WEIGHT

Added weight must be in block form magnetic steel or lead only of no less than five (5) pound blocks (no pellets). Added weight must be securely bolted to the frame rail and painted white with the truck number stenciled in black. No added weight will be permitted inside the driver's compartment. Weight must be welded in a box or attached with two (2) or more 7/16" diameter (minimum) grade 8 bolts and locking nuts.

WINDOW NET

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 EMS Tech Inspector(s).

WINDSHIELD

All glass must be removed.

Stock windshield will be permitted ONLY if it is not cracked.

Lexan or wire mesh may be used for windshield with at least two safety straps in the center.

Three (3) inch maximum visor over windshield permitted. May not obstruct the driver's view in any direction.

REAR VIEW MIRROR

Absolutely NO mirrors allowed.

INTERIOR

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).

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. EMS Officials reserve the right to reject any harness that shows discoloration or wear.

All roll bars located around driver must be padded. Fire retardant padding recommended.

GENERAL ENGINE REQUIREMENTS

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.

No engine modifications allowed.

All sensors must be in stock OEM position of factory.

BATTERY

All cars must have a 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 cannot take the place of the main disconnect.

RADIOS

Monitoring of EMS 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 EMS Officials. No other form of one- or two-way communication is permitted in the car at any time.

TRANSPONDERS

AMB X2 Car or AMB TranX X260 car transponder is required on all cars at all times (NO MX or Kart transponders). Transponders are to be mounted on the right side of the car, between 15 and 20 inches rearward of the centerline of the rear axle, and no more than 18 inches above the track surface. Transponders must be mounted vertically with an unobstructed view of the track surface (no metal underneath). Any driver caught improperly mounting their transponder in order to gain an advantage will have their finish position adjusted and/or be disqualified from the event (including forfeiture of points and prize money) at the discretion of EMS Officials.

EXHAUST SYSTEM

Any oval style muffler (i.e., Turbo or OEM). Maximum in and out diameter of 2-1/2".

Must exit at the rear behind the driver.

DRIVESHAFT/DRIVE AXLES

Driveshafts and drive axles must be painted white.

Rear wheel drive vehicles must have a drive shaft loop.

TRANSMISSION

Stock OEM transmission ONLY for make and model of car.

No fabricating of mounts allowed.

SUSPENSION

Maximum camber adjustment is five (5) degrees, within reason and no major modifications to get camber unless PRIOR approval is granted by EMS Tech Official(s).

TIRES AND WHEELS

OEM wheels mandatory.

DOT tires only.

Tire sizes allowed are 165-235, 50/60/65/70/75 series. Tread wear must be 260 or higher.

No mismatching of wheel sizes allowed. The same size wheel must be on all four (4) corners of the car.

Permitted wheel sizes are 13, 14, 15, 16, and 17.

NO wheel spacers or shims permitted.

NOTE: A participant competing in any race at EMS specifically agrees that he/she acknowledges it is illegal 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.

GROUND CLEARANCE REQUIREMENTS

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 zero tolerance.

Frame rails must have a minimum of five (5) inches of ground clearance.

There will be four (4) points of measurement on the frame.

BRAKES

Must have four (4) wheel working brakes.

No shut-offs or bias adjusters allowed.

FUEL CELL

Fuel cells are permitted but not mandatory.

Fuel cell installation must be inspected and approved by EMS Tech Inspector(s).

Main power of fuel pump must be wired to clearly labeled safety shut off switch.

ROLL BARS

A four (4) point cage minimum – six (6) point cage maximum – is required. Must be inspected and approved by EMS Tech Inspector(s).

Must have 1/8" steel plate welded to outside of driver's side of roll cage to protect driver.

Six point roll cage must have gussets welded at all 90 degree joints.

Cage must be built with suitable headroom for driver.

No front tubing in engine compartment at all.

Rear strut bracing allowed only from strut tower to strut tower, and will not be attached to the cage at all.

Solid welds only – no holes or bubbles.

Pipes must be completely welded.

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 EMS Officials PRIOR to acceptance. We can be reached by phone at (315) 221-9180 or on a message through our Facebook page.