

# Thunder Car / Street Stock Rules 2021

## Mt Lawn Speedway

( 1 )

### Chassis/Base Weight:

1. Cars must utilize a street-type American made chassis (1965 or newer). 105" min wheelbase.
2. 3200 lbs. base weight minimum at all times, including after race with driver (no refueling after race).  
Max. left side weight is 57.0% at all times unless approved changes within rules.
3. Cars must utilize factory frame sections from front steering box mount to rear of rear spring pocket. No widening of the frame. The cross member must remain the OEM Stock component and in OEM location but may be modified for oil pan or fuel pump clearance. Weight Jacks OK. Leaf Spring cars must have prior tech approval for rear suspension chassis construction.
4. Roll cages must not be offset and must be perimeter type. Installation is subject to technical approval. The width of the top roll cage bars (halo) must be a min. of 75% of the width of frame rails where the cage attaches. The cage must go straight up the doors before a slight angle into the roofline. Side plate on driver's door must be used and must be a minimum of 12" high, post to post, 1/4" thick and either be welded to the cage or fastened with six 1/2" bolts. A min. of 3 windshield protection bars (min. 1/4" wide round stock) in front of driver are mandatory.
5. No cage or body supports may run through the body or windshield.

### Transmission:

1. **Standard Automatic transmissions w/ working torque converter. add .5% left side.**
2. Clutches must be a min. of 7.25" and MUST attach to the crankshaft and be a OEM manual transmission.. No internal clutch transmissions.
3. Transmissions must have working reverse gear. Drive shaft loop is required.

### Suspension:

1. No Bump-Stops or suspension travel limiting devices. No coil binding. **No chains on front suspension**  
**Frame and Body height must be a minimum of 5" at all times.** (untouched after race included).
2. No aftermarket lower A-Frames (O. E. M. mounting towers only).
3. No aftermarket or made for racing spindles Must be OEM style spindle.
4. Standard aftermarket upper A-Frames may be used.  
**25 lbs penalty for aftermarket upper mounting towers. . No slider Adjustable mounting towers**
5. Factory or aftermarket trailing arms may be used. Must have single, non adjustable chassis mounting point only. Trailing arm lengths, center bolt hole to center bolt, must be within 1 inch in total length of each other. Must be steel, non adjustable and utilize bushings welded into the trailing arm. Lower trailing arms may be no longer than 22" and upper arms may be no longer than 11.5". (1" tolerance on both without weight penalty. 50 lbs per inch over tolerance weight penalty.)
6. No 3-Link or Panhard Bar set ups. Even if they were stock for the chassis).
7. One shock per wheel. Shocks must be steel, economy-type, may not be externally adjustable and may not be gas re-chargeable.  
**No Schrader valves or any method to charge with gas. .. SEE APPROVED SHOCKS LIST ATTACHED TO RULES PAGE.**  
**Stock mount shocks add .5% left side**
8. **Ford 9 inch rear ends are permitted. ANY 9" Rear End MUST be locked and utilize spool, welded spider gears or an axle "plug" extension to lock the rear end.** Cambered rear ends are NOT allowed. **OEM rear ends can be open providing the car wheelbase is 112" or longer.**  
No Quick Change rear ends.
9. Max. 78" tread width from outside to outside of **tire** at spindle height.
10. Stock-type, steel brake calipers only. Brake caliper may not be of a floating design and must be mounted solidly to rear end housing. Must have working brakes on all four wheels. **Rear Drum Brakes may deduct 25 lbs**
11. Stock-type sway bars only. Maximum 1.25" diameter and must be mounted, on the chassis side, forward of the steering box.
12. Maximum 8" wide steel wheels only.
13. **The spec. tire for this division is the 15" American Racer 970. One (1) tire per race rule.** Built in air jacks are not allowed.

### Engine:

1. Engine must be cast iron (block & heads). No Dry Sumps.
2. **Must use stock type Ignition. No Crank triggers allowed. One (1) MSD box allowed**
3. Heads must be standard valve angle. NO shaft mounted rockers.
4. Headers may be used. (no 180's or over the top headers).

(2)

5. **No electric fuel pumps.**

6. Engine must be located so the spark plug of forward most cylinder is no further back than 1 inch of center-line of the upper ball joints.
7. Exhaust must exit behind the driver and beneath car .
8. 2 or 4 barrel carburetors only. No Predator Carbs. One spacer plate or adapter not to exceed 1 1/4 inches with gaskets.

**Body:**

1. No compact or sub compact bodies. Standard Chevelle, Nova, Monte Carlo, Regal, and Cutlass, bodies allowed as well as their Ford and Dodge counterparts. Anything that does not fit within these guidelines may not be used or must get prior approval before racing.
2. An aftermarket firewall and floor pan may be used, but must be steel, similar gauge and have a stock appearance of the replaced items.
3. Cars must have factory steel roof (A,B,C pillars considered part of the roof) and factory upper portion of rear 1/4 panels. All other body panels must be made out of steel and be stock appearing. GM to GM, Ford to Ford, Mopar to Mopar for chassis and engines, body excluded. Aftermarket bodies are not allowed. Front fenders must retain stock body line. No notching or "bending" fenders to improve performance. No "Dirt Style" bodies or components allowed.
4. The aftermarket, 5-Star composite 88 Monte Carlo street stock roof may be used, but must be used completely unaltered, with as produced dimensions and weights. It must be used with factory quarter panels that include the B and C pillars with factory quarter window opening. Cars with this roof will receive a left side weight penalty of 1%. They may only race at 56% maximum left side weight.
5. **Frame and Body height must be a minimum of 5" at all times**
6. **Fiberglass or Aluminum hoods may be used. They must not be flat and must have detail lines and appear stock.**
7. **Aftermarket bumper covers must cover all bumpers and brace supports and all metal must be behind and covered by the cover. Must run a stock-type bumper and attached to the body if no bumper-cover is used. Rear bumper/tail-light area must be enclosed (no open tail sections).**
8. **Nose-piece must be mounted with stock body line in mind. Nose-piece should not be chopped, lowered, or angled. Horizontal centerline of front bumper-cover must be a minimum height of 16".**
9. Rooflines must have stock appearance ("Chopped Roofs" may result in additional weight penalty).
10. Side windows may go no further back than 6" from the corner of the A-Post and must go straight up at a 90 degree angle from the door. Window openings on both sides of car must be minimum of Fourteen and 1/2 inches (14.5") in vertical height.
11. Interior behind the driver must be parallel to the ground up to the rear window and there must be a definitive transition from interior to the rear deck area which must remain relatively flat. No Decking inside the four points of the roll cage.
12. Minimum roof height with standard roof rake is 50 inches.
13. No spoilers allowed (regardless if they are stock). No holes cut in hood for air cleaners. Hood scoops are discouraged and fabricated hood scoops may require an additional weight penalty.
14. Rub rails may only be used if they are polycarbonate.
15. No under car panning. No metal below frame rails. No redirecting of air under the car

**Additional Rules:**

1. A fuel cell is mandatory and cannot exceed 22 gallon capacity. Fuel line must be standard in its size and length. Fuel cell must have a minimum 10" ground clearance
2. A collapsible steering column is highly recommended
3. No carbon fiber use of any kind other than personal safety devices
4. Radios or Mirrors Not Allowed. Drivers MUST use a scanner / Raceceiver to monitor race control.
5. No traction control of any kind.
7. No antifreeze allowed. Penalty if caught .
8. **Officials may change rules in the interest of fairness and safety at any time and all decisions are final.**