



# EMRP Thunderstocks Rules

**Updated February 5, 2024**

The rules herein shall refer to Evans Mills Raceway Park as “EMRP.” 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 EMRP officials prior to proceeding. No vehicle, 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 EMRP 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 rules book or is not otherwise approved by EMRP may not be used in competition and is subject to confiscation at the discretion of EMRP officials.

By competing at EMRP, you agree to have read and agree to adhere by the EMRP Thunderstocks rules book and EMRP General Rulebook

Items that may have received amendments or are important sections to note are highlighted in yellow.

# Table of Contents

ITEM #	ITEM	PAGE
1	Eligible Vehicles	3
2	Body	3
3	Interior	3
4	Windshield and Rear Window Glass	3
5	Bumpers	3
6	Chassis	3
7	Roll Cage	3-4
8	Ground Clearance	4
9	Engine	4
10	Exhaust	4
11	Carburetor	4
12	Cooling System	4
13	Batteries	4
14	Powertrain	4-5
15	Shocks	5
16	Suspension	5
17	Brakes	5
18	Steering	5
19	Fire Extinguisher	5
20	Driver's Seat	5
21	Driver's Restraint/Padding	5
22	Window Safety Net	6
23	Weight	6
24	Fuel System	6
25	Tires	6-7
26	Wheels	7
27	Driver Attire	7
28	Radio	7
29	Transponders/Scoring Device	8
30	Protest Procedure	8

**1. Eligible Vehicles**

- 1a.** Any four cylinder naturally aspirated engine.
- 1b.** Two-wheel drive coupes and sedans.
- 1c.** No turbo charged, supercharged, or rotary powered vehicles allowed.
- 1d.** All airbags must be removed.
- 1e.** Vehicles must be registered with Vehicle Identification Number (VIN) with EMRP tech officials through a driver registration form.

**2. Body**

- 2a.** Bodies must be OEM to make and model the vehicle.
- 2b.** No self-tapping screws of any kind.
- 2c.** Any sunroofs must be securely closed with adequate material and must be approved by EMRP tech officials before competing.
- 2d.** No fiberglass roofs.
- 2e.** Side skirts are permitted only with approval from EMRP tech officials.
- 2f.** All glass and plastic must be removed.
- 2g.** Trunk lids and compartments must remain intact.

**3. Interior**

- 3a.** Complete factory floor pan must be used and free from any holes and tears.

**4. Windshield and Rear Window Glass**

- 4a.** Factory windshields can be used, providing they are free of any cracks.
- 4b.** Wire mesh or Lexan can be used and must have two (2) 1"x1/8" pieces of flat bar welded from the center of the roof down to the dash supporting wire or Lexan.
- 4c.** No mirrors allowed.

**5. Bumpers**

- 5a.** All vehicles must have stock-appearing bumpers.
- 5b.** Front air dams are not allowed on front bumpers.
- 5c.** Front and rear safety chains are mandatory for towing purposes.

**6. Chassis**

- 6a.** Stock frames only.
- 6b.** Frame must be straight and in sound condition.
- 6c.** No welding, cutting, chopping, or lowering of frame allowed.

**7. Roll Cage**

- 7a.** 6-point roll cage mandatory made from 1 – ½" x .095 wall tubing minimum. Roll cages are subject to EMRP tech official approval.
- 7b.** Driver's side door bars must be completely covered by 1/8" steel plate welded from top to bottom of door bars.

**7c.** Driver's side must have at least three (3) horizontal bars made of 1 – ½" x .095 minimum wall tubing welded from the front of the cage to the back of the cage with at least four (4) pipes of the same size welded between them.

**7d.** Roll cages must be free from holes, tears, and all bubble gum welds. THIS WILL BE STRICTLY ENFORCED.

**7e.** No kink tubing or torch bending allowed – MUST be mandrel bent.

## **8. Ground Clearance**

**8a.** Minimum ride height is five inches (5").

## **9. Engine**

**9a.** All engines must be stock appearing and as manufactured.

**9b.** Engines must match the make and model of the vehicle being used.

**9c.** Engine block must be stock appearing.

**9d.** All sensors must be in stock location.

**9e.** Cold air intake allowed.

**9f.** No cutting harness to adapt to different style sensors.

**9g.** If the engine wiring harness is repaired, it must be approved by EMRP tech officials.

**9h.** Engine size must be clearly labelled on the hood for EMRP tech officials to easily view.

## **10. Exhaust**

**10a.** Headers are allowed.

**10b.** Exhaust must exit behind the driver with one muffler.

**10c.** No round glass packs or cherry bombs allowed.

**10d.** Muffler must be baffled. (2 – ½" maximum diameter in and out allowed).

## **11. Carburetor**

**11a.** Stock OEM fueling only. There are no exceptions.

**11b.** OEM injectors only.

## **12. Cooling System**

**12a.** Must be OEM. No aftermarket performance additives are allowed.

**12b.** No antifreeze allowed. (May use Water Wetter or NAPA Kool).

## **13. Batteries**

**13a.** One (1) 12-volt battery must be fastened in one of three locations: engine compartment, trunk, or driver's compartment. Batteries must be inside a marine box and securely mounted to the chassis. If the battery is in the driver's compartment, it must be completely covered. Only 12-volt batteries are permitted.

**13b.** Main battery disconnects must be clearly labelled or marked and within the driver's reach.

## **14. Powertrain**

**14a.** Transmission swaps are allowed as long as it is a direct bolt in replacement for the same make and model of the vehicle.

- 14b.** No fabricating mounts allowed. (If it doesn't fit, don't use it).
- 14c.** Drive shafts and C.V. shafts must be painted white.
- 14d.** Rear wheel drive cars must have two (2) drive shaft safety hoops.
- 14e.** Welded transaxles and differentials are allowed.
- 14f.** No aluminum or aftermarket racing flywheels are permitted.

**15. Shocks**

- 15a.** Must be OEM for make and model vehicle being used.
- 15b.** No performance struts allowed.

**16. Suspension**

- 16a.** No spring modifications allowed.
- 16b.** No cutting, welding, or heating of springs is allowed.
- 16c.** No progressive rate springs allowed.
- 16d.** Five (5) degrees of camber is the maximum.
- 16e.** Suspension and components must remain stock or OEM replacement.

**17. Brakes**

- 17a.** Brakes on all four (4) corners must always work.
- 17b.** No shutoffs allowed.
- 17c.** No brake bias adjusters allowed.

**18. Steering**

- 18a.** The steering column must be in the stock OEM location.
- 18b.** A quick release steering wheel is recommended.
- 18c.** The steering shaft and steering wheel center must be padded.
- 18d.** Steering must be for the make and model of the car being used.

**19. Fire Extinguisher**

- 19a.** A securely mounted operational 2 – ½ pound minimum fire extinguisher with gauge visible for inspection purpose is mandatory. Extinguishers must be mounted in a quick release bracket.

**20. Driver's Seat**

- 20a.** Aluminum high back race seat is mandatory and must be fastened with four (4) 3/8" bolts in the base and two (2) 3/8" bolts in the back (must use fender washers on the bolts).
- 20b.** Padded right side head restraint is mandatory.
- 20c.** A full containment seat is recommended.

**21. Driver's Restraint/Padding**

- 21a.** Fire retardant padding is recommended.
- 21b.** Five (5) point race harness with quick release is mandatory.
- 21c.** Belts must be five (5) years old or newer and free from cuts, tears, and holes. SFI tag must be on the belts and must be legible.
- 21d.** All roll cage bars within the driver's reach must be padded. No EXCEPTIONS.

## **22. Window Safety Net**

**22a.** All cars must have an approved window safety net with a quick release latch properly installed.

## **23. Weight**

**23a.** Minimum weight is one pound (1#) per c.c.

**23b.** Ballast weights must be lead or steel plated and securely mounted to the frame by weight ballast clamp. The weight must be painted white and labelled with the driver's car number.

**23c.** The maximum weight per piece is 25 pounds (25lbs.)

**23d.** Welding the weight to the frame is not permitted.

## **24. Fuel System**

**24a.** The vehicle must utilize a stock tank or fuel cell approved by EMRP tech officials. Stock tanks must remain in their stock location.

**24b.** Must be a minimum of eight inches (8") off the ground.

**24c.** There must be a mandatory fuel shutoff within the driver's reach and clearly marked. NO EXCEPTIONS.

**24d.** All fuel lines must be properly run and protected.

**24e.** The fuel cell/tank must be securely mounted in the trunk compartment with two (2) straps of 1 x 1/8" thick steel bolted through chassis.

## **25. Tires**

**25a.** Must be stock passenger car radial DOT tires only:

- 205/70/13,14, or 15
- 205/65/13,14, or 15
- 205/60/13,14, or 15

**25b.** No racing slicks, racing tires, or performance street tires are allowed.

**25c.** The same size tire must be present on all four (4) corners of the vehicle.

**25d.** No wheel spacers allowed.

**25e.** All lug nuts must be present and properly torqued.

**25f.** No camber cut tires allowed.

**25g.** No altering of struts to fit tire size.

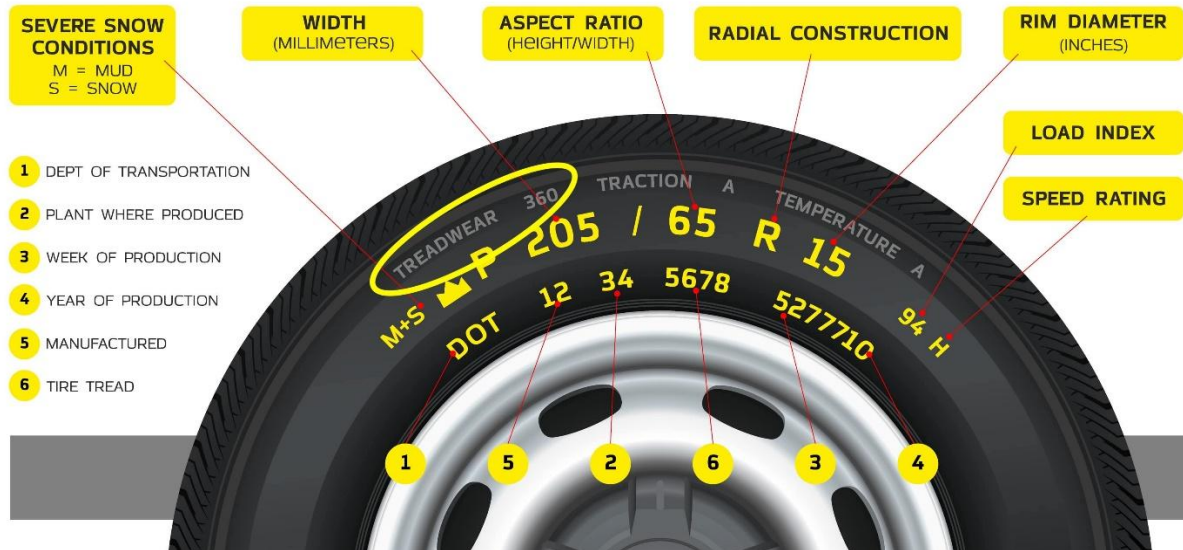
**25h.** Tread depth is 1/8" minimum

**25i.** Minimum tread wear is 380 or higher and must be visible.

**25j.** The tires must be S, T, U, or H-rated tires.

**25k.** Tires must not exceed an MSRP of \$85 per tire. EMRP will monitor the tire market and adjust if need be. If you are purchasing tires and are unsure of legality, contact the EMRP tech officials to confirm legality.

# TIRESIZEGUIDE



## 26. Wheels

**26a.** Steel wheels only. Maximum width is seven inches (7") with a minimum offset of three inches (3"). No aluminum wheels allowed.

**26b.** Bassett or Aero standard weight wheels are allowed. No lightweight wheels are allowed.

**26c.** No wheel spacers are allowed.

**26d.** The same size wheels must be used on all four (4) corners of the car.

**26e.** Aftermarket wheels must have a one-inch (1") lug nut on all wheel studs.

**26f.** 13", 14", and 15" wheels only.

## 27. Driver Attire

**27a.** A race suit is mandatory, free from holes, tears, and cuts.

**27b.** A neck collar is mandatory. Factory manufactured head and neck restraints are recommended.

**27c.** Race gloves are mandatory.

**27d.** Race shoes or boots are mandatory. No sneakers are allowed.

**27e.** A full-face helmet is mandatory (Snell SA2015 or newer – NO EXCEPTIONS). M-rated helmets are not allowed.

## 28. Radio

**28a.** A one-way radio is mandatory. No other form of one-way or two-way communications are allowed. The radio frequency is 454.0000.

**29. Transponders/Scoring Device**

**29a.** An AMB x2 or AMB TranX x260 is mandatory. No motocross or karting transponders are allowed.

**29b.** The transponder must be mounted 155 inches from the furthest forward point of the front bumper. It must be mounted on the lower right-side frame rail. If a driver is unable to mount a transponder in this location, it is the driver's responsibility to notify EMRP tech officials to determine an alternative mounting location PRIOR to competing.

**30. Protest Procedure**

**30a.** See EMRP General Rules.