



## **2021 4 CYLINDER TRUCK RULES**

### **Updated 4/9/2021**

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 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 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 2021 rules book or is not otherwise approved by EMRP may not be used in competition in

2021, and is subject to confiscation at the discretion of EMRP Officials.

By competing at EMRP, you agree to have read the EMRP 2021 General Rule book and the

2021 4 Cylinder Truck rule book.

### **ELIGIBLE VEHICLES**

- 2001 and older 4-cylinder trucks only.
- No turbo trucks allowed.
- Rear wheel drive only (no 4-wheel drive conversions allowed).
- All OEM parts are for year, make and model of truck being used.
- All trucks must register year, make, and model with tech officials. NO EXCEPTIONS.
- Absolutely NO mirrors allowed.



## **CAB AND BODY**

- Removal of all inner panels is allowed.
- Inner fenders may be removed.
- All body panels must be OEM to year, make and model of truck or 20-gauge steel.
- Rear deck lid is required and can be made from aluminum (with tech approval).
- Must keep cab structure intact for safety purposes.
- May use OEM dash or replace with fabricated dash.
- No self-tapping screws allowed.

## **FRAME**

- Frame must be stock to year, make and model of truck. ABSOLUTELY NO EXCEPTIONS.
- Frame must be straight, sound, and complete.
- Must have complete floor pan intact and free from all holes.
- No widening, chopping, shortening, or lowering of frame is allowed.
- Any cutting or modification of frame must be approved by Tech.

## **WEIGHT**

- Truck minimum weight is 2,600 pounds.
- Left side percentage is 56% maximum.

## **WHEELBASE**

- Wheelbase must be stock to year, make and model of truck. NO EXCEPTIONS.
- No making a long box truck into a short box truck.
- Truck front wheel width is 74" inches maximum (measured from outside to outside of front tires).
- The wheelbase measurement on the right and left side of the truck must be within 1/4 inch measured center of wheel to center of wheel.

## **ROLLCAGE**

- 6-point roll cage is mandatory. NO EXCEPTIONS.



- Must be made from 1-1/2"x .095 wall tubing.
- Must be welded to main frame of truck.
- Must have two (2) rear down bars made from 1-1/2"x.095 wall tubing welded from the top of the back of the cage to the rear of the factory frame. NO EXCEPTIONS.
- Front bars may pass through firewall (providing they meet tech approval).
- Driver and passenger side doors must have a minimum of three (3) horizontal bars with uprights made from 1-1/2"x.095 wall tubing.
- Driver side of roll cage must be completely welded with 1/8" steel plate from top of door bars to the bottom of door bars. ABSOLUTELY NO EXCEPTIONS.
- Roll cage must be free from holes, tears and any and all bubble gum welds. THIS WILL BE STRICTLY ENFORCED.
- All pipes will be completely welded.
- All bars including steering shaft within drivers reach will be padded.

### **SAFETY CHAINS**

- Safety chains will be mandatory in front and rear of truck for towing purposes.

### **GROUND CLEARANCE**

- Minimum clearance is five (5) inches (a-arms, leaf springs and rear axle do not have to meet this rule).
- Front valance must have a minimum clearance of two (2) inches.
- Minimum side skirts clearance is four (4) inches.
- These measurements will be measured at the lowest point.
- There is zero tolerance.

### **ENGINE LOCATION**

- All trucks must maintain engine location as manufactured.
- No moving of engine mounts or lowering or moving engine back.
- Must use stock mounts (i.e., rubber mounts).

### **ENGINES**



- Engine must be identical for year, make and model of truck.
- All engine parts must be unmodified and identical to OEM parts for year, make and model of truck.
- Maximum two (2) valves per cylinder.

### **ENGINE COMPONENTS**

- Camshaft can be stock or performance with a maximum lift of 490 measured at the valve.
- Valve springs to match camshaft are allowed.
- No other modifications are allowed.
- Must use stock OEM valves only.
- No porting or polishing allowed.
- No adjustable timing gears or offset keyways allowed.
- Pistons must be stock or OEM replacement for year, make and model of truck.
- Flat top pistons only (no dome pistons allowed).
- Pistons cannot exceed deck height of block.
- Maximum overbore is .040.
- No coated pistons allowed.
- 10 to 1 (10:1) compression ratio maximum.
- Cylinder head must remain stock for year, make and model of truck.
- No larger valves allowed.
- No porting or polishing allowed.

### **FUEL INDUCTION**

- No turbos allowed. Naturally aspirated only.
- Race trucks may adapt to a Holley 350 cfm 2 bbl carb only (part number #0T7448).
- No HP carbs or metering blocks allowed.
- Maximum spacer is one inch (1").
- Spacer must be open hole - no tapering or hour glassing of any kind allowed.

### **FUEL INJECTED MODELS**



- OEM fuel injection only.
- OEM sized injectors only.
- OEM sized throttle body only.
- The ECU must be from year, make and model of truck.
- Mass air flow sensors, if equipped, must remain OEM sized with no modifications.
- Ford trucks can only run the grey fuel injectors (with a 14#/hour rating).

### **IGNITION**

- Ignition must be stock and for year, make and model of truck only.
- Aftermarket plugs and wires are allowed.
- Factory style distributor drive engines may use any other OEM style distributor.
- Absolutely no performance coils or distributors allowed

### **FUEL SYSTEM**

- Mandatory eight (8) gallon fuel cell maximum.
- Must be in a 20-gauge steel can.
- Must be located in center of chassis behind rear end and a minimum of eight inches (8") off the ground.
- Manual fuel shut off mandatory and must be within driver's reach and clearly labeled.

### **EXHAUST**

- Aftermarket headers are allowed.
- Exhaust system must be installed from header and exit behind the driver.
- 2-1/2" muffler inlet and outlet maximum mandatory.

### **COOLING SYSTEM**

- Electric fans permitted.
- Any radiator can be used providing it is mounted in the same place as factory.
- One (1) quart overflow tank must be mounted under hood and blow off by the right side lower windshield.
- Absolutely NO antifreeze allowed. Water Wetter or NAPA Kool is allowed.



## **BATTERY**

- Battery must be mounted under engine hood or in box behind driver.
- Must be in a marine type box securely mounted to the frame.
- Main disconnect switch is mandatory and will kill all power. NO EXCEPTIONS.
- Master switch must be clearly labeled and within driver's reach.

## **TRANSMISSION**

- Factory transmission to year, make and model only. Absolutely NO modifications allowed.
- Must have all working gears.
- Steel flywheel only.
- NO aluminum flywheels allowed.
- NO lightening of flywheels allowed.
- NO racing clutches allowed.

## **REAR ENDS**

- Must be stock for year, make and model of truck.
- Gear changes are allowed.
- Rear axle may be moved to top of springs.
- The use of blocks is permitted.
- Spring shackles are permitted on rear springs only.
- NO limited slip differentials or lockers allowed.

## **DRIVESHAFT**

- Steel driveshafts only.
- All driveshafts must be OEM for year, make and model of truck.
- Absolutely NO aluminum driveshafts allowed.
- All driveshafts must be painted white.
- Must have two (2) safety hoops located in front of the driveshaft and to the rear of the driveshaft. They must be constructed of 2 inch wide by ¼ inch thick steel hoops.

## **BRAKES**



- Brake system must be OEM for year, make and model of truck.
- No disc brake conversions allowed.
- No adjustable brake bias allowed.
- All four (4) brakes must work at all times.
- No brake shutoffs allowed.
- No relocating of any brake component other than in the factory location.

### **SUSPENSION**

- Lower control arms must remain unaltered and in the factory location for the year, make and model of truck.
- Spindles must remain OEM as factory and be unaltered in any way.
- Front race coil springs are permitted.
- Tubular upper a-arms are allowed.
- Upper a-arm mounts can be modified for camber.
- Aftermarket or OEM style shocks only for year, make and model of truck.
- No coil overs allowed.
- No aluminum shocks of any kind allowed.

### **FRONT END**

- Front camber can be adjustable.
- Ford Ranger I-beam trucks may use aftermarket front I-beams to achieve this.
- Aftermarket Ford arms cannot be a lowering arm - must be OEM stock for year, make and model of truck.
- Cutting factory Ford I-beams is not allowed.

### **STEERING**

- Steering column may be used or be replaced with steering shaft.
- Must have a slip joint if replacing steering column.
- Steering wheel disconnect is allowed.
- Steering wheel center must be padded.



## **TIRES**

- Only American Racer 705 tires will be allowed or
- DOT tires must have minimum tread wear rating is 260.
- Must have a measurable tread depth of 1/8".
- 195-235 tire sizes only.
- 50,60 and 65 series tires allowed (NO 55 series tires allowed).
- No traction chemicals on or in tires allowed.
- No camber cut tires allowed.

## **WHEELS**

- Maximum wheel width is 8".
- Must use same size wheels on both sides of truck.
- 14" and 15" wheels only.
- Steel wheels only (Bassett or Aero standard weight wheels allowed – NO lightweight wheels).
- Must all be the same offset.
- Maximum wheel offset is one inch (1").
- Must use one inch (1") lug nuts.
- No wheel spacers or shims of any kind allowed.

## **FIRE EXTINGUISHER**

- All trucks must have a fire extinguisher mounted within reach of driver.
- Fire suppression system allowed.

## **DRIVER SEAT AND BELTS**

- Aluminum high back race seat only.
- Seat must be mounted using four (4) 3/8" bolts on seat bottom and two (2) 3/8" bolts on seat back (must use fender washers on bolts).
- Padded right side head restraint is recommended.
- SFI approved 5-point harness of 2" or 3" seatbelts with quick release or latch only. NO





#### EXCEPTIONS.

- Must be properly mounted to roll cage. NO EXCEPTIONS.
- Seatbelts must be five (5) years old or newer and free from holes, tears and frays.

#### **WINDOW SAFETY NET**

- All trucks will have an SFI approved net properly installed in driver side window.
- Must be equipped with a quick release.

#### **DRIVER ATTIRE**

- One- or two-piece fire suit designed for competitive motorsports use mandatory. Must be free from cuts, holes, and tears.
- Racing gloves are mandatory.
- Race shoes or leather boots are mandatory.
- Neck collar is mandatory. Factory manufactured head and neck restraint is recommended.
- Full face helmet mandatory (Snell SA2010 or newer only – NO EXCEPTIONS). No “M” rated helmets.

#### **WINDSHIELD AND REAR WINDOW**

- Windshield must be OEM glass or Lexan or wire mesh only.
- Stock windshields must be from all cracks.
- Must have two (2) 1”x1/8” steel straps welded from the roof center down to the firewall.
- Rear Lexan window only is allowed.

#### **BUMPERS**

- May use OEM stock appearing bumpers on front and rear.
- Aftermarket front and rear tailpiece are allowed.
- No fiberglass allowed.

#### **RUB RAILS**

- Must be made from 1-1/4”x.095 wall tubing or 1”x1-1/4”x.095 wall box tubing only.
- Sidebar ends must be capped.



- Sidebars will be mounted tight to the body (NO EXCEPTIONS).

### **SPOILERS, SKIRTS AND AIRDAMS**

- 5" maximum rear spoiler height.
- Rear spoiler cannot extend past the outside of box and must be mounted across the tailgate. Rear spoiler side skirts are NOT allowed.
- Side skirts allowed and cannot be any lower than five inches (5").
- Spoilers can be adjustable.
- Front air dam allowed PLASTIC ONLY and cannot be any lower than two inches (2") from the ground.

### **RADIO**

- One way radio is mandatory. Frequency is 454.0000.
- No other form of one- or two-way communication permitted.

### **PROTEST PROCEDURE**

- See General Rules.