



# 2026 4 Cylinder Division

## RULEBOOK

THE RULES WITHIN ARE THE GENERAL GUIDELINES FOR ALL 4 CYLINDER CARS THAT COMPETE IN THE 2026 SEASON.

IF THESE RULES DO NOT CLEARLY SAY THAT SOMETHING IS LEGAL, ASSUME THAT IT IS NOT PERMITTED.

RULES ARE SUBJECT TO CHANGE DUE TO SAFETY CONCERNS, OVERLY COMPETITIVE CARS, OR FUTURE RULES IMPOSED BY THE N.J. STATE POLICE.

### 2026 Rule Changes:

**Page 6: Racing springs are permitted.**







**Page 8: Factory exhaust manifolds or tubular headers are permitted.**

**Fuel: No performance enhancing products can be added to the fuel.  
(Thermal charged, nitrated fuels, oxygen induced chemicals or oxides)**











## **FIRE SUPPRESSION SYSTEM**

The installation of a 5-pound fire suppression system is now required in all 4 Cylinder race cars.

-  It must at least be manual, can be upgraded too automatic.
-  One nozzle required. Must be pointed into the cockpit (driver.)
-  SFI Certification required.
-  The bottle date must always be within 2 years of the current date.
-  Bottle(s) must always be full and charged.
-  Visitors and drivers “new” to Wall Stadium (first race of the season) will be granted a 1-2 race waiver. **Turkey Derby is excluded.**

## **SAFETY EQUIPMENT**

-  The use of a HANS DEVICE or HANS-like device is MANDATORY. 5-year expiration.
-  Window net is MANDATORY.
-  5-point Harness is MANDATORY. SFI 38.1 Belts good for 2 years.
-  Full face helmets are MANDATORY. Must have SNELL SA 2020/2025 or newer sticker.
-  Driver must wear a one-piece fire suit and flame-retardant underwear. Both must be in good condition, with no rips or holes. SFI 5.
-  Fire retardant gloves and driving shoes required. Fire retardant socks suggested.
-  Full containment seat MANDATORY.
-  New Jersey racers are required to have a fire suppression system. (see above)

## **GENERAL:**

This is a **PURE STOCK** division intended for inexpensive participation. Abuse of these rules or creative interpretations will not be tolerated. Track officials, as always, have the final decision as to whether a car can compete. Wall Stadium management reserves the right to confiscate illegal parts and components.

The 4 Cylinder Division is all about car choice.

**The 4 Cylinder Division was created as an entry level option and will remain that way.**


**NO racer that regularly runs or has run a points race in Modified, Sportsman, Legends, Limited Late Model or TQ Midgets will be allowed to race in this division during the 2026 points season.**


**4 Cylinder racers may enter races in one of the above divisions as long as 4 Cylinder is their primary focus and 4 Cylinder races are the majority.**


**Turkey Derby is an exception. We will accept all entries for that event.**


**This rule is in the interest of keeping competition fair for all. Racers with experience or an aggressive driving style should race in another division.  
This one is a FUN hobby!**


## **ENGINE**


 **ENGINE AND COMPONENTS:** Original manufacturer parts for specific make and model. The only modifications allowed to an engine are listed in the following paragraphs. Maximum compression 11:5:1 all engines. Engines will be pumped. **Any other modifications will be deemed illegal.**

 Engine must be in its original mount and position. **MOTOR SWAP ALLOWED FOR SAME MAKE AND YEAR OF CAR. MUST BE APPROVED BY TECH FIRST.**

 No rotary engines. No turbos or super charged engines. No high-performance engines or cars. Example: Porsche will not be legal and not intended for this class.


 Any four cylinder piston type engine front or rear wheel drive car. No convertibles, four-wheel drive, jeep, or truck type vehicle. Maximum wheelbase 106 inches.


 No porting and or polishing of heads and or manifold. Head may be resurfaced maximum of twenty thousandths (.020). Head and manifold must be stock. Head port casting must be able to be seen and or felt or it will be considered illegal.








 Pistons must be stock type and profile with stock wrist pin height. No dome or pop-ups.

 Stock fuel delivery system only.



 Engines with carburetors maximum 500 CFM.

 No aftermarket distributors and/or distributor parts. No aftermarket electronic computers or components and or components in ignition. Ignition must be stock for make of engine. Example: Toyota for Toyota, Ford for Ford. Fuel injection must be stock for vehicle running.

 Electric fuel pumps are allowed and must shut off with ignition switch.
















-  No aluminum flywheels. No flex plates. Single disc stock style clutch and pressure plate.
-  No adjustable cam gears.
-  ALDL diagnostic connector must be functional.
-  Computer values for engine computers (when scanned) must be within stock specs and must have all stock components.
-  Compression ratio must be lock valve for specific engine.
-  Compression pressure must be within stock spec.
-  Idle must be consistent in RPM.

## **ROLL CAGE**






-  Roll cage must be welded securely to frame using a six-post design. Vehicles using a uni-body construction must install a 6 inch by 6 inch by ¼ inch thick base plate affixed to outer flooring of the car roll cage and must be welded to the floor of the car.
-  Rear roll cage hoop must be six inches behind the driver's head and three inch minimum above the driver's head. There must be a minimum of two horizontal bars connecting front and rear roll cage hoops and be a minimum of three inches above the driver's head (seated in car with helmet on.) Roll cage must extend from windshield to rear of driver's compartment with a loop at the front and rear. A one inch or better pipe placed at the center of the windshield. Two bars may be added from top of cage to rear of car (not to be attached to bumper.) You may also run two bars from dash area to front in line with the frame rails but end six inches before front bumper.
  - Uni-body cars are allowed frame bracing but no cross bracing.
  - Driver side must have three or more horizontal bars in door area, and the passenger side two or more. A ¼ inch steel plate may be installed from bottom side. Roll cage to be to rocker panel below rear of seat forward.
  - All roll cages must be of construction and quality to afford driver maximum protection against injury. Petty bars recommended.
  - Nerfing bars are **MANDATORY**. Nerfing bars must give the driver maximum protection. All nerfing bars must turn into car at ends. No angle cuts. Bars **MUST BE MOUNTED FLUSH** against body. **NO DEVIATIONS**.
  - Roll cages must be a minimum of 1 ½ inch OD-.095 wall tubing.
  - SFI roll bar padding required.
  - Unibody cars – frames can not be twisted to gain Left rear to Right front percentage before the roll cage is installed. **YOU WILL BE SCALED**.










- A minimum clearance of three inches between the top of the roll cage and the top of the driver's helmet is mandatory.
- ADDITIONAL SUPPORT BARS ARE REQUIRED BY N.J. STATE POLICE: 4" x 4" x ¼" steel plate mounted to the back of the front strut tower. Also, 1 ¾" round tubing connected to the main cage down bar. Roll cage must be secured to the unibody with a 6" x 6" x ¼" plate.

## **BODY REQUIREMENTS**









-  NO shortening allowed. Interior skin may be removed. Opening of wheel well no longer than one inch of stock is allowed as desired. Car must not appear as a sheet metal box.
-  If roof is removed for roll cage installation, they must be reattached in stock form and location.
-  Trunk and hood lids may also be stripped.
-  Hoods must have a 5-inch opening for firefighting purposes.
-  Hoods must be kept in place by secure quick release pins.
-  **ALL DOORS MUST BE WELDED SHUT.**
-  All glass and lights must be removed. All open exterior holes must be covered after lights are removed.
-  No after market spoilers of any type.
-  Stock metal only. Reproduction fenders and doors may be used. Must look stock.
-  No fiberglass bumpers.
-  Both bumpers must contain an easy, visible, and accessible way to be hooked and towed off the track...**NO SHARP EDGES.**
-  **Side body skirts allowed, minimum ground clearance 5" without driver.**
-  **Rub Rails MUST be flush against the body.**
-  Cars will be allowed plastic front and rear rubber fascia, 5" minimum ground clearance.
-  **Hood must always be on.**

## **SUSPENSION REQUIREMENTS**







-  No racing struts or shocks.
-  No cutting of suspension except for top of strut tower. Shifting of strut is permitted as it stays within the original strut tower.
-  After market control arms will be allowed due to cost and safety and availability of factory components. Must be non-adjustable and factory specs.
-  **No welding strut/spindle together. Strut must be able to be taken out with ease.**
-  No steering quickener allowed.

-  Camber: 7 degrees maximum allowed on any wheel.
-  Different length spacers allowed with rubber or urethane bushings at sway bar link on right front only.
-  Racing springs are permitted.
-  Coil springs cannot be cut or bent. No lowering springs (stock replacement.)
-  Chassis cannot be lowered.
-  All suspension components must be OEM type or OEM replacement type. Must be approved by tech.
-  Springs must be the same side to side.
-  No spring rubbers allowed.
-  Springs must be identical side to side including width, wire diameter, free height, and number of coils.



## **INTERIOR**


-  All seat cushions must be removed.
-  Rear seat shelf must remain in vehicle.
-  The stock floor plan, firewalls, trunk, floor, and wheel wells must be retained.
-  No built-up interiors of any kind.
-  Mirrors allowed. Raceivers or scanners required. (467.8125)
-  All holes in firewalls and floors must be filled in with at least 20-gauge steel.
-  Windshield area must have heavy screen, and no chicken wire. Lexan windshields **MANDATORY. NO GLASS.**
-  No plexiglass anywhere on the body.

## **TIRES AND WHEELS**


-  Stock or racing wheels.
-  Front tires must be the same tire size or within 1/2" of circumference. Rear tires must be the same size or within 1/2" circumference. Front tires can be different sizes than rear tires.
-  7" wheels maximum with 1/4 inch tolerance.
-  All rims same offset.
-  No broken or missing lug nuts. Right side 1" lug nuts recommended.
-  No wheel spacers.


## **DRIVE TRAIN**

-  Stock transaxle, rear, clutch assembly, and flywheel only.
-  Stock drive train only.


 Automatics must have working torque converter.

## **AIR CLEANER**

 Any air cleaner system is permitted if it is not air induction.


 Air cleaning system must be kept in engine compartment.


## **BRAKES**


 Stock brakes in stock mounting position. All brakes must be always working.

 No after market proportioning of valves permitted.

## **BATTERY**

 Battery in driver's compartment shall be secured and shielded to prevent leakage in the event of a turnover.


 Battery shall have a marine style box cover secured to the metal box as to not allow movement of the battery.


 Battery located adjacent to the fuel supply of the vehicle must be secured in a metal box bolted to the frame of the vehicle by at least four 3/8" line bolts and in such a manner to apply maximum pressure against the metal box to the frame.


 Only one 12-volt battery per car.


## **SEAT**

 Full containment seat with opening to allow seat belts to pass through.

 Seat shall be attached to the frame with at least six three-line 5/16" belts. Two bolts shall be installed at the bottom of the seat not more than three inches from outside edge and two bolts shall be installed at the two most practical widely spaced points at the top of the seat back.


 Vehicles with metal seats do not require straps but do require large washers at each bolt.

 Straps must be 1 inch wide and 1/8" thick connecting each set of bolts on seat.




 Seats must be mounted in front of doorstop and to the left side of the drive shaft tunnel.

## **SAFETY BELTS AND HELMET**






 **Quick release type five-point harness ONLY.**

 All connections are to be secured at frame. Shoulder harness must pass over a round bar located at the driver shoulder height.

 No alterations to manufacturer's design.

-  All belts must be in good condition and bear the date and manufacturer's name.
-  Date of manufacture cannot be more than 2 years.
-  Helmets must be Snell 2020/2025 or newer rated according to New Jersey State rules.

## **EXHAUST SYSTEM**

-  The outlet for the exhaust system shall be outside of the vehicle and extend past the driver's door.
-  Exhaust flow must be directed out and away from the driver.
-  Muffles not required.
-  Factory exhaust manifolds or tubular headers are permitted.
-  No exhaust inside car at any point.


## **FUEL SYSTEM**

### **Fuel Cell**





An approved fuel cell must be used. Maximum capacity is 22 gallons. Cell must be encased in an approved steel container made of 20-gauge steel. The fuel cell must be mounted in the trunk area and three strap minimum 1/8" x 1" wide steel must secure the cell. The cell must be mounted as far forward as possible and be centered in the car. A 1" maximum vent to the outside of the body at the left rear taillight must be installed.

**A rear bar will be allowed around the fuel cell for additional protection. Bar must be located behind the fuel cell and go from frame rail to frame rail. This bar may additionally be connected to the angled down bars of the roll cage. 1 3/4 x .095 max tubing size.**








### **FIRE WALL**

-  All vehicles must have a permanent firewall between the driver, fuel supply, and motor.


### **FUEL LINES**

-  Half inch fuel line running under a car.
-  Fuel shut off within reach of driver is **MANDATORY**.
-  Shut off must be clearly marked with a bright and contrasting color.
-  Fuel lines must be steel.


## **FUEL LINES AND PUMP**

-  Aftermarket fuel pumps are allowed. Stock fuel pressure must be maintained.
-  Fuel pumps or fuel lines are prohibited in the driver's compartment unless properly shielded. The shielding for fuel lines must consist of steel braided material. Fuel pumps in driver compartment must be properly shielded to prevent leakage in the event of damage or breakage of pump or lines.
-  Fuel lines must be more than three inches from exhaust unless shielded by metal.
-  Fuel shut off is mandatory within easy access to the driver, conspicuously marked with bright orange paint and labeled ON/OFF.
-  Competitor must provide a fuel pressure check point using a standard Schrader valve located in the engine compartment.
-  Fuel pressure must be within stock spec.
-  Ignition Switch: All vehicles must have an ignition switch within easy access to the driver in the drivers compartment CLEARLY MARKED.


## **WINDOW NET**

-  Must be used on driver's side.



## **STEERING WHEEL**

-  Padded center. Quick release pull pin type recommended.


## **WATER OVERFLOW AND RESERVOIRS**

-  Cannot be mounted in driver's compartment.

## **DRIVE SHAFTS**

-  The drive shaft must be enclosed and secured front and rear by a ¼" wide rod, or a 1" steel tubing with .06 wall thickness.
-  No chains.

## **WEIGHT**

-  Horsepower to Weight Ratios:

120 Horsepower	2400 pounds
130 Horsepower	2430 pounds
140 Horsepower	2470 pounds
150 Horsepower	2510 pounds
160 Horsepower	2550 pounds
170 Horsepower	2600 pounds


180 Horsepower	2650 pounds
190 Horsepower	2700 pounds
200 Horsepower	2750 pounds
210 Horsepower	2800 pounds
220 Horsepower	2850 pounds


If your horsepower number falls between two numbers:  
For horsepower ending in 1 to 4 – use lighter weight option.


For horsepower ending in 5 to 9 - use higher weight.


Example: 120-124 HP weighs 2400 lbs., 125 HP weighs 2430 lbs.

 Minimum weight 2400 pounds.


 All cars will be weighed AFTER the race with driver.

 Added weight must be positioned halfway between the front and rear axles (wheelbase.) If the weight is bolted to the sheet metal part of the floor – then 3” x 3” x ¼” plates must be on the sheet metal side to function as washers.

 Weights can be adjusted for safety and/or competitive dominance at the discretion of Wall Stadium Officials.

 Failure to meet minimum weight and/or go over scales will be cause for immediate disqualification.

 Left side percentage 53.0% maximum.

 Horsepower and weight MUST be on the right hood/fender, written 3” high.

## **TRACK SCALE AND TRACK OFFICIAL’S DECISIONS ARE FINAL**

### **TOW HOOKS**

 MUST have two tow hooks installed in the front and the rear of the car.

 ECM Computers: ALDL diagnostic connector must be functional to check Prom I.D.

 Location: 11-13” from the back of axle 2.

Any time parts are changed, or there is a question about the way these rules are written or interpreted, or a problem with parts installed, you must contact an official.

### ***RULES SUBJECT TO CHANGE AT ANY TIME.***

**\*\*\*OVERLY COMPETITIVE CARS ARE SUBJECT TO INSPECTION!**

The age of participation is seventeen with a valid Driver’s License.

Minors with racing experience (without a driver’s license) may be able to compete if special permission is granted by the N.J. State Police through Wall Stadium Management.

Parent or Guardian: Email the minor's racing resume (list all racing experience, including a year, racetrack, and finishes) and a clear photo or scan of the minor's birth certificate along with a note granting the minor permission to race at Wall Stadium to

[shari@wall-stadium.com](mailto:shari@wall-stadium.com).

\*This process may take up to 6 weeks. \*

**KEEP THEM STOCK!**