



# 2018 RULES

These rules are also for the Powder Puff Series

## 2018 SIX SHOOTER DIVISION

One way scanner from the race tower to the race car is mandatory. Discount receivers are available for purchase from Race Parts NH. Penalty - car will be placed last in your heat / feature for not having. Transponders are also mandatory in 2018 and are available for discount thru Star. Any AMB2 Transponder will work. Transponder will be mounted to outside frame rail 6" back from center of rear axle a max of 12" from track surface.

### 1. ELIGIBLE VEHICLES:

Eligible vehicle includes mid-sized front wheel drive V-6 Automatic models of US Manufacturers Ford, GM, and Chrysler that are **10 years and older**. The Ford Taurus, Chevrolet Lumina, Monte Carlo, Pontiac Grand Prix, Olds Cutlass. Buick Regal and other similar cars will comprise most of the field.

No convertibles, Pickup trucks or SUVs of any kind may compete. No special high performance cars. **Absolutely No Chevy Cavalier Z24, Pontiac G6 or Like- sized** Mercury Cougars will be permitted to compete. However some cars with a 104" wheelbase midsize cars like the Pontiac Grand Am, Chevy Malibu, and Ford Contour, these may be penalized by adding weight. Absolutely No vehicles of any foreign manufacturer can compete regardless of where the car was built. No Toyotas, Hondas, Nissans VW's, Volvos and the like. No four wheel drives. No car will be able to compete that will threaten the viability of less expensive and readily available American made sedans. This Division will be all about driver performance and plenty of luck and not about the superiority of any particular car. It's all about having fun and entertaining the spectators. Eligible cars should be constructed from running vehicles in relatively good condition. **Engines and all other drive train components MUST remain stock as manufactured. No interchanging of components allowed. No performance enhancements of any kind will be allowed.**

### 2. Car Configuration:

- A. You may use the stock dash or replace it with a full length dash, **must remain in stock location.**
- B. Car must use a column mounted key switch. Must have a safety kill switch on the left side of dashboard (Neg. side of battery).
- C. Car must have factory column and steering wheel. A removable quick release steering wheel is highly recommended.
- D. All doors must be welded shut.
- E. All exterior trim must be removed; Door handle holes are to be covered with sheet metal.
- F. All glass must be removed – headlights, taillights, reflectors, side mirrors, including all windows, regulators and door locks. Front Windshield can remain stock or it may be replaced with Lexan. No rear or side windows without tech approval.
- G. All exterior holes must be patched, door handles, headlights, taillight openings etc.
- H. All air bag sensors and air bags must be disarmed for safety purpose.
- I. **All cars must have a VIN number.**
- J. All of the interior/trim panels must be removed; this doesn't allow removal of metal inner panels, the only exception would be removal for the cage door bars. Firewall between passenger and trunk area must be covered with metal. If inner sheet metal panels are removed for other than door cage bars a weight penalty will be added; a minimum of 25lbs will need to be added to cars total weight.
- K. No cutting of exterior sheet metal: fenders, bumpers, trunk, etc. Only the front inner hood panel may be removed.
- L. Drivers side metal interior door panel may be removed for cage purposes only.
- M. Battery may remain in the stock location **or relocated to behind drivers seat**, must be in a battery box acceptable to Star Tech Staff. Battery must be free from any fluid leaks. **Starting in 2018 batteries may not be located in the trunk area.**
- N. Rub rails are allowed between the front and rear tires only. Maximum of one rub rail per side. **Only lexan rub rails allowed for paint and lettering protection. NO metal rub rails.**

### 3. WHEELBASE:

Cars must have a minimum of 104" wheelbase.

### 4. DRIVE TRAINS:

- A. Car must be front wheel drive, No all wheel drives. No rear wheel drives.
- B. No differential gear changes allowed. No locked differentials allowed.
- C. No computer performance chips allowed. **Swaps may be done by track officials. Refusal is DQ and a 150 point deduction.**

### 5. ENGINE:

- A. Must be a V 6-cylinder, fuel-injected motor models, stock for year and make and model of car being used in (Completely Stock). Engine size and Transmission must be car for car (this will be checked by VIN code).
- B. Engine will only have water in radiator.

### 6. EXHAUST SYSTEM:

- A. No headers or high performance exhaust manifold of any kind allowed. Stock exhaust pipe should extend from the manifold to the flange of the catalytic converter.
- B. The catalytic converter should be removed. Car may have any stock muffler. **Starting in 2018 glass packed and cherry bomb mufflers are allowed.** No side exhausts. Exhaust must dump under car toward the track surface. Muffler and pipes must be firmly attached to the bottom of the car.

### 7. TRANSMISSION:

- A. Must be an automatic only. **NO sport shift transmissions allowed.**
- B. **NO** traction control devices stock or aftermarket.

### **8. WEIGHT:**

A. 50lbs of right side weight will be required after 2 feature wins; weights must be mounted under the passenger floorboards, lined up with the driver seat or mounted farther ahead towards the passenger side front firewall. Each additional feature win after 2nd win will require an additional 25lbs of weight under the passenger floorboards; this will be up towards the front firewall.

B. **All cars will be weighed at the beginning of racing season to establish base weights and will use 4 corner wheel weights.** and may/will be weighed after Heats/Features.

**Car weights may be adjusted at any time to equal competition.**

### **9. ROLL CAGE:**

A. All cars must have a four point roll cage constructed of 1 $\frac{3}{4}$ " outside diameter X .095 wall steel tubing. The roll cage shall consist of 4 vertical upright bars connected at the top on all sides and shall be adequately cross braced. The base of the upright members shall be solidly welded to the frame of the car. Four curved door bars on the left side and three curved or straight door bars on the right side are mandatory. The roll cage members must closely conform to window/door/roof contour and not be readily apparent when car is viewed from side. Offset cages are not allowed.

B. Forward bars attached to the main cage are **not allowed**, but minor front bracing for protection of the radiator is allowed.

C. Rear roll cage bars are allowed for added protection (only one bar per side). Rear bars should mount from back of cage to rear trunk area only. Bars **cannot** connect/support rear suspension or upper/top part of strut/shock tower or connect directly to the strut itself.

### **10. RACING SEAT:**

A. Padded racing type driver's seat is required. Seat must be bolted to brackets firmly, and welded to the roll bar assembly. All bars within the driver's reach must be padded with approved roll bar padding. Approved five (5) point harness must be used and attached to the roll cage. Harness must be in good condition. Five Point Harness must meet requirements as defined in the General Rules.

### **11. BRAKES:**

A. Car must have brakes on all four (4) wheels and be operational. All ABS systems must be disarmed.

B. All brakes must remain stock for year and make.

### **12. SUSPENSION:**

A. All suspension components must remain stock as manufactured with the exception of adding camber adjustments on the left front and right front suspension only. This is to help prevent outside/inside tire edge wear and for aiding in car handling. A maximum of 2 $\frac{1}{2}$  inches of negative camber is allowed on the right front wheel, left front wheel  $\frac{1}{2}$  inch maximum positive camber allowed. Right front and left front upper strut mounts may be slotted for camber adjustments only. No top strut crossover supports allowed.

B. There will be no altering of rear suspension or adding adjustments for rear camber, but there will be an allowance of a 1/4 inch right rear negative camber and a 1/4 inch left rear positive camber for air pressure differences or suspension damage. This is not opening up the rule to allow increasing or decreasing camber in the rear suspension.

C. The maximum camber tolerance for suspension damage will be 1/8 of an inch anything beyond that may result in a disqualification. Camber will be measured on the concrete pad with a straight edge (square) with driver in car. Measurements will be taken at the bottom rim lip and at the top of the rim lip the difference between the two is the total camber in inches. No added positive or negative toe to rear tires; must be within stock toe settings. **No skewing of rear tires; this means no crab walker of the rear tires**

D. All springs must be stock as manufactured, No changing, cutting or lowing of springs allowed must be stock (OEM). Spring must be the same diameter on the left and right side (same spring gauge). Shocks and struts must be stock or stock replacement type and mounted in stock location. If you replace any part you must have the sales slip with you if asked by track official. No altered or high performance components allowed. No weight jacking devices to increase or decrease spring rate, but you will be allowed the use of one rubber spring spacer, maximum 1 spring rubber spacer per wheel. **Spacer length cannot exceed more the one coil wound (circumference).** Or you may use the taller spacers, these are roughly  $\frac{3}{4}$  inch wide by 2 inches tall, you can use up to 3 of these as long as it's only used in one coil spring wound (**circumference**). **No steel or wood spring spacers etc. allowed.**

### **13. FUEL TANK:**

A. Racing fuel cell is permitted and highly recommended, but it is not mandatory.

Fuel cells may not be more than 15 gallons in capacity. Fuel cell must be securely fastened with minimum of two 2" x 1/8 metal straps inside in the trunk. No cutting of trunk floorboard when installing a fuel cell. A sheet metal firewall must separate the trunk from the driver's compartment. **If cell is relocated it must stay in center of car.**

### **14. FUEL:**

Petroleum automotive gasoline is the only fuel allowed. **No alcohol, No methanol, No nitrous or any other additive may be used.**

### **15. TIRES AND WHEELS:**

A. Car must run four (4) matching tires and wheels.

B. Car **MUST** run factory **Steel** wheels, No aftermarket wheels. Wheels and rims must be car for car, No universal rims.

C. Must have all the same size tires with no less than a 60 series, no less than **3 1/2 inches** side wall height, no directional or snow tires and no less than 300 compound tread wear. Rating must be on tires. **Any tire side wall measuring less than 3 1/2 inches will result in a disqualification.**

### **16. SAFETY EQUIPMENT:**

A. An aluminum racing seat is required.

B. SFI Five Point harness with a date of manufacture no older than 3 years.

C. Only Snell approved full face Helmets are allowed. It is highly recommend the use of a Snell SA2015 or newer full face helmet.

D. SFI Window net is required.

E. SFI Fire Suit and racing gloves required must be in good condition, no holes, grease etc.

F. SFI Racing Shoes are highly recommended. Proper foot wear is required

G. Head and Neck restraints are highly recommended and should be used.

**In closing, everything about the vehicle must remain stock for the year, make and model of vehicle being used.** Except as permitted or required in this guidebook, vehicles must remain completely stock in appearance, configuration, set-up, and running gear including motors, transmission.

Any variances from this guidebook will result in the disallowance of competition until the variance is corrected.

**Rules may be adjusted to meet the needs to equal the playing field without notice.**