



555 Fairground Rd.  
PO Box 577  
Mercer, PA 16137  
Ph: 724-662-1310  
E: [info@mercerracewaypark.com](mailto:info@mercerracewaypark.com)

## 2012 410 SPRINT RULES

### Table of Contents

2012 410 SPRINT RULES.....	1
1. ENGINE: .....	2
2. FUEL AND SYSTEMS: .....	2
3. INJECTION:.....	2
4. DRIVE LINE:.....	2
5. BODIES:.....	2
6. CHASSIS SPECS:.....	2
7. MUFFLERS: .....	3
8. CAR WEIGHT: .....	3
9. TIRES: .....	3
10. NERFBARS:.....	3
11. MISCELLANIES:.....	3
NOTE:.....	3
Tech Inspector: Larry Riffe (724) 854-0814 .....	4
RULE BOOK DISCLAIMER .....	4

## 1. ENGINE:

Cast iron or aluminum naturally aspirated engine, with a maximum of one spark plug per cylinder is permitted. No overhead cams allowed, two valves per cylinder only. Maximum engine capacity of 410.000 cubic inches. No tolerance will be permitted on this maximum capacity. Formula =  $6.2832 \times \text{bore}^2 \times \text{stroke}$ .

## 2. FUEL AND SYSTEMS:

- a. Methanol only is permitted, with no additives, except approved top oil, which must pass fuel test.
- b. Fuel bladders are mandatory.
- c. No smaller than 24 gallon fuel tank is allowed at any time (33 gallon or larger fuel tank is recommended).
- d. The use of a top siphon fuel cell is highly recommended.
- e. No nitrous oxide.

## 3. INJECTION:

- a. No throttle body, plenum-type, or electronic fuel injection allowed.
- b. Fuel pump must be mechanically driven.

## 4. DRIVE LINE:

- a. Highly recommended to be completely enclosed.
- b. Drive line hoop or strap is mandatory.

## 5. BODIES:

- a. Cars must resemble a sprint car: hood, fuel tank, etc.
- b. Top Wing:
  - i. Maximum 25 square foot top wing
  - ii. Top wing no wider than 61".
  - iii. Maximum side board 30" x 72".
  - iv. No kick-outs.
  - v. Maximum 3" wicker bill.
  - vi. Triangular side panels on roll cage are allowed, but must be within roll cage.
  - vii. No turnouts or any other airfoils.
  - viii. The driver's right-side opening must be at least 12 inches vertically at any point and a minimum of 21 inches horizontally at any point.
  - ix. Left side opening must remain free of panels for safe exit and access by safety crews.
  - x. Car number must be displayed on wing. Car must start event with top wing.
- c. No part of car can extend past front bumper, and bumper must be no more than 23" from front of front axle.
- d. 2' x 3'-nose wing.

## 6. CHASSIS SPECS:

- a. Aluminum and titanium are not allowed on chassis construction.
- b. No carbon fiber or composite materials allowed, with the exception of top wing noses
- c. Driver's seat must be bolted in with four bolts minimum no dzus buttons.

- d. Driver's seat fuel/flame deflector is highly recommended. Must be wider than seat and extend from floor pan, underneath seat, and then turn up behind seat.
- e. No bracing will be allowed in the center of the top cage opening that would prevent a driver from exiting through the opening or inhibit a safety/rescue crew's ability to extract the driver.
- f. A protective rock screen must be installed in front of driver, with no larger than 4" square opening.
- g. Roll cage must have protective padding.

**7. MUFFLERS:**

- a. Mufflers are required. The part #112535 Schoenfeld is the minimum requirement.
- b. Must be welded with a minimum of four one-inch welds required on each muffler.
- c. NO rivets, screws or spot welds.
- d. Mufflers must be inspectable.
- e. Mufflers are required at the start of all events.

**8. CAR WEIGHT:**

- a. Car and driver must weigh a minimum of 1375 pounds on speedway scales at the completion of heat, consy, and feature.
- b. No add-on weights or bolt-on ballast are allowed.
- c. Bolt-on weight is permitted but must be securely installed on the cars basic framework and must be located in the area between the bottom frame rails and axles but mounted no higher than the upper rails.
- d. All added weight must be painted white and bear the car number in 1 ½ inch tall Sharpie numbers.

**9. TIRES:**

Follows the National Goodyear Spec Tire Rule (100, 200, 300 only) on the left and right rear.

**10. NERFBARS:**

- a. Nerf bars, which offer adequate protection in the event of contact with another car, are mandatory.
- b. Nerf bars must be attached with bolts, not rivets.

**11. MISCELLANIES:**

- a. No batteries, wet or dry, except 9-volt to power tachometer.
- b. Car cannot push off without a rear bumper.
- c. Drag link tether is mandatory. Steel drag link and steel hyme ends are highly recommended.
- d. Arm restraints are highly recommended.

**NOTE:**

*All preceding rules are subject to change. The official(s) in charge reserve the right to make decisions and judge accordingly, with the interest of safety and in the spirit of competition for this division, without recourse. Anything not covered in these rules is up to the discretion of the official(s).*

**Tech Inspector: Larry Riffe (724) 854-0814**

**RULE BOOK DISCLAIMER**

- a. The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all events, and, by participating in these events, all participants are deemed to have complied with these rules.
  
- b. **No expressed or implied warranty of safety shall result from the publication of or compliance with these rules and/or regulations.** They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator, or official.
  
- c. The race director shall be empowered to permit reasonable and appropriate deviation from any of the specifications herein or impose any further restrictions that in their opinion do not alter the minimum acceptable requirements.
  
- d. **No expressed or implied warranty of safety shall result from such alterations of specifications.** Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final. On occasion when situations arise that are not covered by written rules, the track officials may put special rulings into effect. Once such rulings are acted upon, they may become an act of policy and will be added to the existing rules of procedures.

The Management of MERCER RACEWAY PARK