

**Read  
Both  
Sides**



**Read  
Both  
Sides**

**Lawn Mower Racing**

## **Grasscar Racer Classes and Technical Information 2010 Season**

### **Pure Stock (Also See Rules for All Classes)**

1. Maximum 3600RPM **Must have & use factory governor**
2. Gear Ratio Currently Undetermined
3. Maximum rear tire size 20 X 10.00 X 8, Minimum front tire size 15 x 6 x 6.
4. Must be Lawn cutting ready, deck on, deck belt on, spindles functional, with blades removed, have reverse, functional clutch (or a hydrostatic transaxle), and brakes.
5. Tire pressure not to exceed 20 PSI.max.
6. No other modifications allowed.

### **Sportster Class (Also See Rules for All Classes)**

1. Maximum **3650RPM Must have & use factory governor**
2. Maximum 8:1 ratio with maximum 16" rear tires.
3. Minimum front tire size 13" Diameter.
4. Deck must be removed.
5. May modify throttle for hand or foot control.
6. Must have reverse, Functional clutch, Functional brakes.
7. You may convert to a heavy-duty transaxle and lock it,
8. Front axle may be fabricated. Spindles may be modified as needed
9. Mower maybe lowered for safety purposes
11. Tire pressure not to exceed 15 PSI max. Actual Tire Diameter may not exceed 16 ¼" (16 ¼" high measured from the ground)
10. No other modifications allowed

### **Modified Class (Also See Rules for All Classes)**

1. Maximum **4500RPM Must have & use factory governor**
2. **No Gear Ratio requirement**
3. Maximum rear tire size - 18" Diameter.
4. Deck must be removed.
5. Pin or thread w/ locking nut front and rear wheels
6. Must have rear brakes capable of locking rear wheels.

### **Unlimited Class (Also See Rules for All Classes)**

1. Maximum 5400 RPM unless the mower has a flywheel scatter shield or an Aluminum flywheel (See design specifications at end of rules sheet)
2. Any Gear Ratio
3. Deck must be removed. If retained it must be safely secured
4. Throttle must return to idle if let go.
5. All wheels must be pinned or bolted on.
6. Must have brakes capable of locking rear wheels

### **Outlaw Class (Also See Rules for All Classes)**

1. No restrictions on ratio, body style (front, mid or rear engine), drive train configuration or tire sizes.
2. Maximum 5400 RPM unless the mower has a flywheel scatter shield or an Aluminum flywheel (See design specifications at end of rules sheet)
3. Must have brakes capable of locking the rear wheels.
4. All wheels must be pinned or bolted on

## **Rules for all Classes**

- ▶ All mowers must be an air-cooled front engine mower (single or twin cylinder) with a vertical shaft engine (The Outlaw class may run vertical OR horizontal shaft engine.)
- ▶ Gas pedals will have stop at or above throttle linkage point
- ▶ The throttle must return to idle if let go. (all classes except Pure Stock)
- ▶ Pure Stock and Sportster may NOT run a "live axle".
- ▶ Modified, Unlimited and Outlaw Class may run a transaxle or a "live" axle.
- ▶ No Mower will be allowed to exceed 44" in overall width
- ▶ Fuel tanks and batteries must be adequately protected from collisions.
- ▶ No protrusions considered dangerous will be allowed.
- ▶ BREAKAWAY SAFETY SWITCHES MUST BE USED IN ALL CLASSES WITH TETHER (Pure stock may use seat safety switch)
- ▶ Gasoline fuel only (ALL CLASSES)
- ▶ Frame heights: Pure Stock (factory only) Sportster and Modified: frame heights 4" minimum from lowest part of frame. Unlimited and Outlaw Classes open. Mowers of current members are grand fathered in.
- ▶ No modifications to stock flywheel. (Cutting drilling etc.) Must have functional charging system
- ▶ A rear bumper is mandatory and should be no wider than the rear tire width; it may be fabricated from ¾" outer diameter tubing with radius bends or from ¾" square tubing with 90° corners. It must be installed a maximum of 2" from closest surface of the rear tire. The bumper must be centered along the centerline of the axle. The bumper should also be centered side to side on the rear of the mower. The intent of the bumper is to prevent mowers from "climbing" the rear tires and making contact with a driver. No other bumpers are permitted, (this includes the front) even those offered as factory options. (Rule does not apply to Pure Stocks)
- ▶ Clear access to spark plug wire must be provided, one that does not bring the tester's hand near the exhaust pipe. This may be through the grill or by grill removal. An alternative would be a #18 wire wrapped 4 to six times around the spark plug wire, taped in place and extended through the grill or up under the hood, so that the club tachometer can be attached to this wire.
- ▶ **OFFSET:** Mowers may be offset a maximum of 2" (inches) At the centerline of the mower. Front & rear axles must not be offset more than 1" from each other. (NO offset for Pure Stocks)

[Continued on back]

► **Tires: (Rear) Turf style type tire. Final decisions on tread will be up to Technical inspector and Technical assistant. Front Tires must be "Turf" type tires.**

► **Racer numbers must be high contrast, 4" tall and placed on all four sides so the announcer can see them!!** The letter designating class will be put immediately in front of racer number on the Right and Left sides.

- Pure Stock ----- P
- Sportster ----- S
- Modified ----- M
- Unlimited ----- U
- Outlaw ----- O

► Racer *must* put his number on the right side of his/her mower when not using machine he/she registered (Class letter not needed)

► Only one person may use a number. In other words one man one number.

► Only one person may use a number. In other words one man one number.

► If a racer is not racing his own mower, he/she must start at the back of the field.

► Any safety modification may be made provided it does not give a competitive advantage.

► If a rule does not appear here for or against something you want to do, you can probably do whatever you want to try. *How-ever* if it is any way dangerous to yourself or other racers, you will be forbidden to do it or not be allowed to race.

**We only race for fun, plastic trophies, and to ENTERTAIN the Spectators, do not lose sight of that concept.**

### Grasscar Basic Rules

**NO ALCOHOL ALLOWED IN PITS OR ON TRACK, NO DRIVER WILL BE ALLOWED TO RACE IF THOUGHT TO HAVE BEEN DRINKING.**

### Scatter shields

(Minimum requirement)

Scatter shield will be made from minimum 1/8" thick steel, height and contour of blower housing. Must use 1" strap around starter motor cutout (as shown in picture). May bolt to blower housing or extend brackets down to bolt to frame.



## Racing Info

### Notice to Racers

► The flagman shall be in total control of the racing surface and will make the final determination in any racing decision.

► Standard racing rules apply.

► Seniors Group and Ladies Group will run Sportster class machines.

► Drivers must wear approved helmet, long pants, gloves, racing collars and ankle high shoes. You must also have adequate eye protection, goggles or helmet face shield and brakes.

**Without these you cannot race!!!**

+++++

#### RACES

Pure Stock, Sportsters, Modified, Ladies, Seniors, Unlimiteds, and Outlaw Class

Drags will be run provided there are enough participants.

An Enduro (will be run from time to time and must have at least 10 paid racers)

Heat & Feature races will be run in each class except Drags & Enduro

+++++

### Scoring

1. Points awarded

a. 1<sup>st</sup> place — 50 points

b. 2<sup>nd</sup> place — 40 points

c. 3<sup>rd</sup> place — 30 points

d. All others - 20 points

2. Prior to race, if you fail tech because of RPM, tire size or gear ratio issue you may still race. However you will start at the back and not be eligible to receive points or a trophy. (Unless repaired)

3. If you are disqualified from a feature for a technical violation (such as RPM check) you will not receive any points or a trophy.

### Age Limitations

>>> Ages 10 & older may race in the Pure Stock

>>> Ages 13 & older may race in the Sportster Class

Younger racers with one season of racing experience and able to pass our driving test may race in this class.

>>> Ages 16 & older may race in the Modified Class if issued a Florida driver's license or learner's permit.

>>> Kids must be 18 or over to run in Unlimited or Outlaw class with at least one year's experience in racing.

>>> Seniors – Must **turn or be at least 50 years old during the season** or have a birth certificate chipped on stone.....