

# Stock mower rules

## 2024

### 1. DRIVER SAFETY EQUIPMENT

A. Every DRIVER must wear an automobile racing or motorcycle type FULL FACE HELMET snell approved.. The helmet must fit snugly and be securely buckled when the driver is on the track. Long hair must be kept tucked inside the helmet. Goggles or a face shield are required. Glasses are not sufficient.

B. Every DRIVER must wear: long pants, long-sleeved shirt or jacket, full-fingered gloves and leather, over-the-ankle footwear on the track. Motorcycle leathers or anti-abrasion karting suits are highly recommended. No loose clothing (un-tucked or unbuttoned shirts, etc.)

C. Every DRIVER must wear an approved racing neck support.

D. Every DRIVER must have a 5lb abc rated fire extinguisher in his/her equipment.

E. It is highly recommended, but not mandatory, that Drivers wear chest protectors of their choice for their safety.

5. TECHNICAL INSPECTION A. Every mower entered in any event must be approved for competition by Technical Inspection before practicing or racing at any event. A Safety Tech/Build Tech sticker will be issued at each race. Top five finishing machines may be required to go directly from the track to the impound area (when provided), and be inspected for Build Tech compliance. Failure to impound directly from the track may be cause for automatic disqualification and loss of points. Participation is mandatory if needed.

B. All racing mower MUST have been originally sold to cut grass. The generally accepted category of lawnmowers have rear tires 20 inches in diameter and under.

E. Drivers must show their personal safety equipment at Technical Inspection before practicing or racing at any event.

F. When going through Technical Inspection, you must bring the complete mower. This includes the hood NO EXCEPTIONS!

## 2. STOCK MOWER REQUIREMENTS

### 1. ENGINE:

a. No liquid cooled engines in any class.

b. All mowers must have the flywheel covered by either the recoil housing, the stock wire housing or racer made cover.

c. All positively charged terminals must be insulated with a cover or heavy tape, and the battery must be well secured with a 1 in wide metal strap

d.. Governed at 3600 RPM maximum with no load (foot off clutch in neutral).

E. Single-cylinder, overhead valve engines or L-head (flathead) must be stock, complete, and not to exceed a factory rating of Box Stock Legal. Maximum of 18 hp single cylinder

F. Mower MUST have the original stock flywheel.

G. Fuel lines must be clamped at all joints no fuel leaks tolerated

### 3. FRAME:

a. Discrete strengthening is allowed. Front and rear axles must use original frame as primary mounting point. The original frame can be used, and can be reinforced.

b. Minimum 4 in ground clearance to frame

c. No offset or stagger. Body must be mounted in the center of the wheels.

### 3. WHEELBASE:

a. Wheelbase may not be altered.

b. You will be allowed, but not required, a maximum width 40" sidewall to sidewall unless otherwise stated in the class build section

#### 4. WHEELS:

a. Wheels must be the same size on each axle, or any origin, made of metal.

b. No dual or tandem wheels.

#### 5. TIRES:

a. Tires must match in size, brand and tread design per axle.

b. Tires must be lawnmower style, absolutely No Snow Hog, tiller, A.T.V., or racing tires of any kind. Tires must be of the same tread design and size on each axle (front tires the same, rear the same).

#### 6. REAR AXLE:

a. Mowers must be free of projections, which could injure the driver or a competitor, or damage another mower. No axle or wheel mounting bolts may protrude beyond the face of the tire sidewall.

B. rear go cart axles are acceptable

#### 7. FRONT AXLE AND STEERING:

a. Steering wheels may be replaced with any commercially available pieces, but not substituted for each other. Steering columns must pass through the original hole in the hood or dash at the original angle. All nuts and bolts attaching the steering assembly (tie rods and spindles) must be secured with lock nuts, castle nuts with cotter pins, or coiled tension pins. Grips may not be added to steering wheels in any class. NO TIE RODS ALLOWED all steering steering joint must be made with heim ends

#### 8. DRIVELINE:

a. All exposed chains and sprockets must be fitted with metal guards to direct a broken chain downward.

b. All mowers must utilize a clutch.

d.. Metal rims: 5" minimum front wheels; 6" minimum rear wheels.

E. Rear tires are a maximum of 16" diameter as written on the sidewall of the tire.

F. Wheels must be the same size on each axle, of any origin, made of metal. vi. No dual or tandem wheels.

G. . Transmission or transaxle must be shiftable and of lawnmower origin and gear ratio in highest gear can be no less than 8:1. Example: While in the highest gear, the rear wheels can turn no more than one revolution every time the engine rotates eight (8) times. Driveline may be modified from the engine pulley to the rear wheels, but must utilize a shiftable lawnmower transmission or transaxle. No vari-drives, centrifugal or torque converter clutches. Mowers using a chain drive type transmission must use an axle mounted brake system. ( again unless we want to run predator engines)

## 9. BRAKES:

a. Mower brakes must be in good condition and easily operated. They must be operating on at least the two rear wheels.

b. Brakes may be improved in any way. Rear brake rotors may not be mounted on jackshafts only on rear axles.

## 10. EXHAUST:

a. Any style exhaust pipe is allowed with the exception of trumpet horns or any other unnecessary device that is solely made for the purpose of being loud/annoying at track officials discretion.

## 11. THROTTLE:

- a. All mowers MUST be equipped with an automatic dual spring throttle closing device.
- b. Throttle and brake controls may be relocated.
- c. Mowers in all classes must be fitted with sturdy double return springs mounted at two (2) different mounting points on both ends to help eliminate the throttle from sticking or failure to completely close when released.

#### 12. KILL SWITCH:

a. All mowers must be equipped with a kill switch, which will turn off the ignition if the driver leaves the mower. Non-stock mowers shall use a tether, mechanically attached to the mower and driver. Velcro is NOT acceptable. Pressure switches are not allowed. Kill switches must remain in closed position (engine not running) until the driver mounts the mower. Additional switches that can by-pass the kill switch are not allowed under any circumstance. The ignition interrupter kill switch and cap/prong must be commercially available for racing type vehicles such as jet skis, snowmobiles, 4-wheelers, etc. Magnetic, or any other form of homemade switch is not allowed.

#### 13. BODY:

- a. Cutting blades must be removed completely from all mowers.
- b. Glass headlights must be removed.
- c. Mowers must be safe and complete, all parts and panels in place, with no missing nuts, bolts, cotter keys, etc.
- d. Mowers must be neat and clean, with paint in new or very good condition.
- e. Front bumpers permitted classes If used, they must be built to these standards: Single Pipe Bumpers may NOT be used. Must be no sharp edges and rounded ends
- f. Rear Bumpers are allowed, but not required. If used, they must be built to these standards: Single Pipe Bumpers may NOT be used. Must be no sharp edges and rounded ends

g. Fenders may be discretely moved, modified and altered so that the driver can lower the seat assembly. Fender trimming is allowed, however, chopping of fenders is not allowed.

H. Due to the increased speeds it is required that all "Mowers" can have SIDE BARS commonly known as NERF BARS mounted on the running boards as long as they meet the set dimensions noted below. Nerf bars should come within 2" of the rear tire and no closer than 1/2". Also no further out in width than the sidewalls of the rear tire. Center MUST be filled in so the foot cannot slip through. Nerf bars must be at least 3" high off the running board. And made of mild steel tubing.

I. Hood must be secured in place with bolts or pins

J. all seats must have side bars to prevent sliding off of racer.

#### 14. RACE NUMBERS:

a. Race numbers MUST be of a sharply contrasting color from their background, and must be visible from all four sides of the mower. All mowers must have their number visible from the front for grid line up and scoring purposes.

#### 15. FUEL AND FUEL DELIVERY

a. The only acceptable fuel is pump gasoline.

B. Gas tank under hood or dash

C.any apparatus other than the carburetor which can be used to introduce any gaseous or liquid substance into the induction flow, whether connected or not, is prohibited, and will result in disqualification. Such devices include, but are not limited to, nitrous oxide, alcohol or water injection systems, turbo or superchargers, and/or the attendant hardware consistent with these systems. Any attempt to conceal or disguise such apparatus will be considered a flagrant violation and may result in expulsion

D. Electric fuel pumps are NOT allowed in any class.

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. No protest will be accepted for this division.

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.