

BAY OF PLENTY LAWNMOWER RACING CLUB

CLASSES AND RULES

JULY 2010

Class 1 Stock Mower

Class 1 stock mower means a lawn mower, which has not been altered in any way from the manufacturers' original specifications.

Governed engines, 3650 RPM max. (No load)

Any replacement parts used must be exact replacements for original and may not offer any improvements in power or reliability over the stock part.

Blades or cutters: Every mower shall have the blades or cutters removed or disabled.

Battery: All positively charged terminals must be insulated with a cover or heavy tape, and battery must be well secured.

Cut-off switch: All participating mowers shall be fitted with an operational cut off switch of an approved type.

Brakes: All mowers must be fitted with an effective braking system.

Sharp or dangerous protrusions: Mowers, which have sharp or dangerous protrusions, shall be deemed ineligible for participation. Glass headlights must be taped or removed. No axle or wheel mounting bolts may protrude beyond the face of the tire sidewall.

Safety: Mowers must be safe and complete, all parts and panels in place, with no missing nuts, bolts, cotter keys, etc.

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

Mowers must be neat and clean, with paint in new or very good condition. No excess dirt, oil, grease, rust or primer. Sponsor graphics must not interfere with mower's racing numbers or class letters.

Race numbers: Every mower shall be issued with a race number, which is assigned by the Secretary of the Association. Race numbers shall be displayed on the side or rear of all mowers, be around 150 mm in height and width and a contrasting colour to the mower.

Subsequent technical inspection requirement: Any mower deemed ineligible for participation due to sharp or dangerous protrusions or that is involved in an incident causing accidental damage during a race must be re-inspected by the Technical Inspector and approved.

MODIFIED CLASSES

Class 1 Modified Mower

Engines originally manufactured for lawnmowers, up to 28ci flat head single cylinder.

Engine may be internally and externally modified.

Class 2 Modified Mower

Engines originally manufactured for lawnmowers, up to 32 ci OHV single or twin cylinder.

Engine may be internally and externally modified.

Class 3 Modified Mower

Engines originally manufactured for lawnmowers, 32 ci and over single or twin cylinder.

Engine may be internally and externally modified.

GENERAL RULES FOR MODIFIED MOWERS

Driveline: Driveline may be modified from the engine pulley to the rear wheels, but must utilize a lawnmower transmission, transaxle or right angle drive.

Rear axle may use open differential, locked, "live" or solid axle. No single wheel drive. Must use at least one drive belt.

Centrifugal and or torque converter clutches not recommended.

Rear axle should use shaft locks, centre bolts, or thru-bolts to secure the rear wheels. Maximum diameter 25.4 mm.(1")

Brakes: Must use axle mounted brakes, no lawnmower transaxle or transmission mounted brakes.

Steering: All steering linkages must use ball-type or spherical threaded rod ends.

Front axle must be pinned, bolted or welded. No suspension, no shock absorbers. Axles must have a 1-piece beam.

Front axle and steering may be reinforced, substituted or fabricated. In the case of racer-fabricated axles, these will be subject to the judgment of the Technical Inspector as to their apparent safety for racing.

Aluminium may not be used as the material for the one piece axle.

Front Wheels: Shaft locks, centre-drilled axle with locking bolts, castellated nuts with cotter pins, are acceptable for securing front wheels. E-rings and C-rings alone, bent nails, hitch pins, over-centre pins and quick-release pins are not sufficient for wheel retention and are not approved. Bearing wheels are highly recommended

Body: Hoods and body parts such as fenders may be upgraded .
Fenders may be discreetly moved and altered.

Chassis: Modification of the original chassis is permitted. Modification may include the lengthening, cutting or adapting of the chassis provided greater than 50% of the original chassis is retained and used on the mower where practical and safe. The installation of braces or other components to strengthen the original chassis or body is permitted. Where any portion of the chassis is replaced during the course of any modifications necessary, the same type and quality material shall be used.

Controls: Throttle and brake controls may be relocated. Throttle must return to idle when released.

Exhaust: Exhaust design is open, but must terminate away from driver in a rearward and/or downward direction and present no apparent safety hazard.

Starter: Starter must be onboard, either electric or pull-rope.

Overall Width: The maximum width of any mower shall be 1.0 metres (39.4”) at the widest point.

Footholds: Footholds must be discrete, and no more than 50 mm (2”) high, made of flat or “L” stock (no rod stock), and made such that the foot can not become entangled in a rollover.

Blades or Cutters: All mowers shall have the blades or cutters removed.

Battery: All positively charged terminals must be insulated with a cover or heavy tape, and the battery must be well secured.

Cut off switch: All participating mowers shall be fitted with an operational cut off switch of an approved type which is connected to the driver by means of a lanyard.

Flywheels: Factory flywheels must remain stock. No modifications including lightening, removal of fins or alternator magnets is permitted.

Sharp or dangerous protrusions: Mowers, which have sharp or dangerous protrusions, shall be deemed ineligible for participation. Glass headlights must be taped or removed. No axle or wheel mounting bolts may protrude beyond the face of the tire sidewall.

Safety: Mowers must be safe and complete, all parts and panels in place, with no missing nuts, bolts, cotter keys, etc.

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

Steering wheels only, no protruding bars.

Mowers must be neat and clean, with paint in new or very good condition. No excess dirt, oil, grease, rust or primer. Sponsor graphics must not interfere with mower's racing numbers or class letters.

Wheels: Wheels must be the same size on each axle, of any origin, made of metal, minimum 8" , maximum 10" diameter, unless from original mower. Rear axle should use shaft locks, centre bolts or thru-bolts to secure rear wheels. No dual or tandem wheels.

Ride height: Lowering is recommended

Seat: The driver's seat must be of reasonable strength and not impede the drivers exit. Automotive or race car type seats are not recommended.

Tyres: Tyres, which are fitted to any competition mower, must comply with the following—

1. Agricultural or flotation type ATV tyres are prohibited
2. Speed rated radial tyres as used on racing ATVs can to be used on front
3. Both tubeless or tube type tyres can be used unless prohibited by organisers
4. The use of knobby tyres or smooth pattern tyres on the drive wheels will depend on the ruling by event organisers.

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Subsequent technical inspection requirement: Any mower deemed ineligible for participation due to sharp or dangerous protrusions or that is involved in an

incident causing accidental damage during a race must be re-inspected by the Technical Inspector and approved.