

Go-Kart Cart Racing Rules 2024-2025

Enduro: Saturday, November 2nd, at 8 PM

Sprint Races: October 4-5, 2024

Racing Schedule:

Enduro: November 2nd

No practice/time trials offered for the enduro.

Race starts at specified time 6-8 pm (light rain or shine).

Trophies awarded for first and second in each class.

Sprint Races:

Times and schedule should be available on the Hootenanny/Homecoming page as applicable.

Date: October 4-5

Time trials: October 4

Heat races: October 5?

Finals: October 5? Trophies to follow.

Enduro-Specific Rules:

- All racers must have one or more headlights fitted to the front of the cart. – Headlights must be functional through the race and failure to work will result in the cart being pitted until the lights work again.
- Tail light and/or reflectors must be fitted to the rear of the vehicle.
- Teams must consist of a **minimum of 2 people** and rotate driving positions at least every hour. Teams not switching drivers will be penalized and then removed from the race if continued disobedience is observed. There are no other forced stops except for a red flag situation.

Racing Classes

Stock class:

- Predator 212cc engine (6.5 HP)
 - No internal modifications (Jetting is allowed)
 - **Governor present, intact, and untampered with**
- Briggs and Stratton 208cc engine (6.5 HP - not the LO208 racing engine) ask if clarification is needed.
 - No internal modifications (Jetting is allowed)
 - Governor present and intact

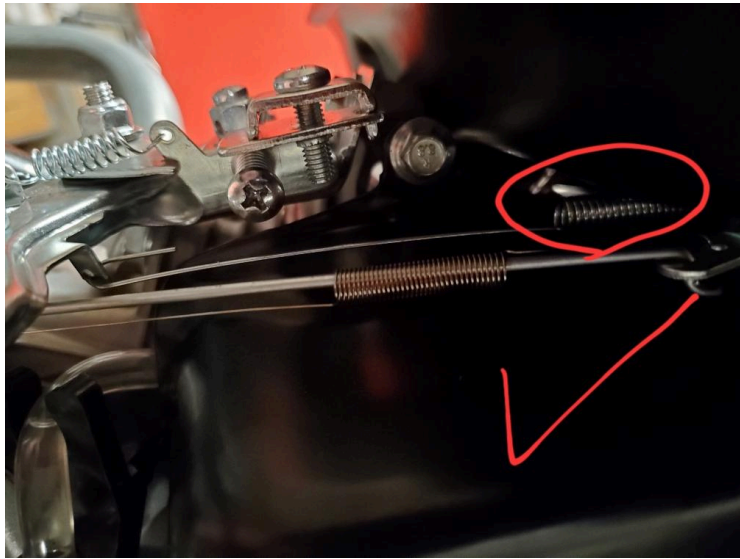


Image 1: Un-modified Predator Motor Governor Spring

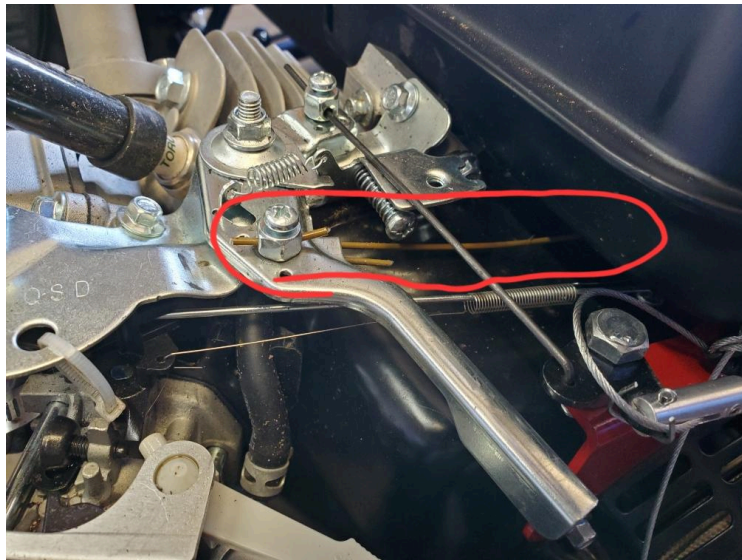


Image 2: Modified Predator Governor

Note:

1. If more than 4 carts are entered into a single class, the class may be split or a class added to ensure more fair races (Specifically for the Briggs and Stratton motors).
2. If illegal modifications are made to a stock class kart and found before the race begins, repairs may be done to return the kart to stock performance or move it into the open class.
3. If illegal modifications are found during or after the race, a disqualification of that kart and its drivers will be enforced.
4. Automotive Society race officials reserve the right for random inspections at any time before, during, or after the race has ended. This is not meant to be a slow down rather a quick check with the racers cooperation to ensure continued race eligibility.
5. The Predator Ghost Engine is NOT permitted in the Stock class. Due to its internal upgrades over the "Stock" predator motor it is allowed to race in the Open class.
6. Full rules and requirements listed in "Requirements to Race".
7. As of Spring 2023, carb jetting will be permitted. Any other carb modifications are NOT permitted.

Open Class:

- Up to 250cc four-cycle or 125cc two-cycle engine
- Up to 5 Kilowatt rated electric motor

Note:

1. Any modification is allowed as long as the cc limit (engine size) is adhered to, and all the safety requirements are met.

Requirements to Race

Driver Equipment:

- Full face Helmet
- Full finger gloves
- Boots covering the ankle or above
- Full sleeved jacket or racing suit
- Full length pants or racing suit
- Neck brace (Provided by race committee)

Vehicle Equipment:

- Number plate visible from at least the right side, front is nice too.
- Roll bar
 - A roll bar or a full cage that prevents the driver's helmet from contacting the ground in the event of a 90-degree tilt or a full inversion. This implies the roll bar be at least the height of the driver's helmet when seated.



Figure 3: Roll Bar

- Seat Belt
 - 4-point harness minimum, securely mounted to the kart's frame or other secure member.



Figure 4: 4-point Harness

- Brakes
 - Foot actuated rear-disk brakes required. Front brakes not required.
 - Scrub brakes or drum brakes are not allowed.

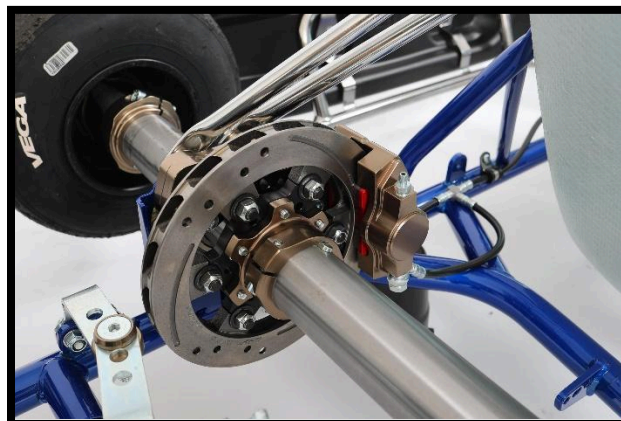


Figure 5: Disk Brake

- Wheel Height requirements
 - Wheel height must be 12 inches or below
 - Balloon tires are unacceptable
 - Kart racing slicks and/or treaded kart tires are acceptable



Figure 6: Unacceptable Tires



Figure 7: Acceptable Tires

- Visible “Kill Switch” (2 locations)
 - Big red button or switch that is clearly visible and will shut the motor off.
 - A kill switch must be located in FRONT of the driver AND on the side of the motor or in the stock location. Driver must demonstrate the ability to IMMEDIATELY shut the engine off in case of an emergency without reaching around the engine. The primary switch must be easily accessible by corner marshall or any bystander.

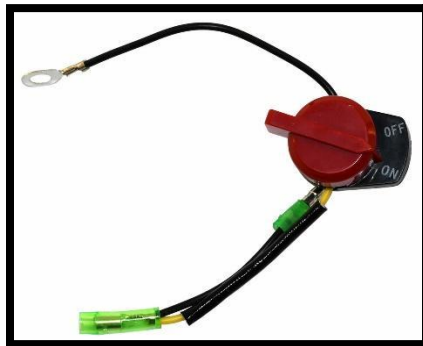


Figure 8: Kill Switch

- Gas Cap
 - Must be vented and invertible (able to be flipped upside down without leaking)

- Bumpers
 - Front and rear
 - Must be able to deflect or prevent wheels and/or bumpers from making contact with the wheels
 - Must extend to guard at least half of the front and back tires
 - Cannot be PVC. Should be some type of rigid material.
 - Mounting must be sufficient
 - Example of sufficient mounting(not limited to): Bolted or welded
 - Example of insufficient mounting(not limited to): zip tied or taped.

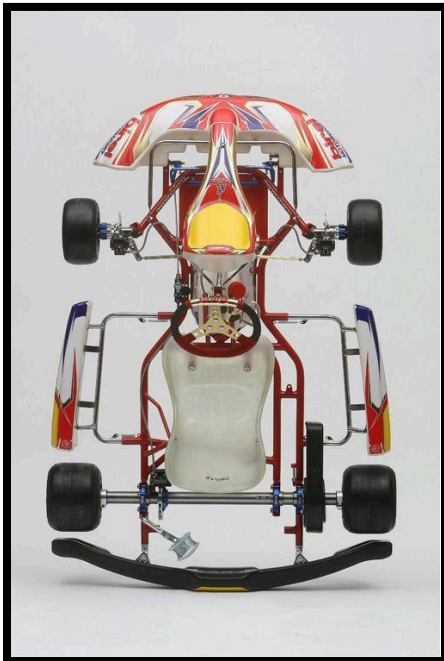


Figure 9: Front Bumper



Figure 10: Rear Hoop Bumper

- Nerf bars
 - Extends to cover the entire width of the rear wheel.
 - Serves to deflect away from the rear tires and driver.



Figure 11: Nerf Bars

Remember!

In all things, safety is paramount. Tech inspectors reserve the right and authority to fail a kart if the safety of the driver or others is at all questioned. Teams are recommended to look at the kart with fun in mind, but also to remember that the safety of others is at stake.

Racers are going to be held liable for damaged or lost transponders. By obtaining race tech approval, you are agreeing to this. Please position them in a safe place and have them checked at the instruction of Auto Society race officials. Each transponder is worth \$75.

Warning:

All campus roads are closed for go-kart driving outside of race day. If drivers desire to practice, an organized event must be set up after campus operating hours and a request sent to University Police. After operating hours are roughly from 5:00 PM to 7:00 PM (but not after dark). Suggested areas for practice are the society drive (in front of Auto Society) and the parking lot behind Glaske. The Belcher Center parking lot may also be used if an organized time is set up outside of event days.

Storage: Due to fire marshall and code requirements, karts are not to be stored with fuel cans that contain fuel. Cans must be stored in an appropriate storage unit and kart tanks should be drained when put into storage. Karts are not to be stored in any living facility, and must not block any exits to any building no matter what. This applies only to karts and fuel stored on campus property.

Contact Information:

Any questions can be addressed to: letourneauautosociety@gmail.com or any current member.