



# 2023 IGNITE KARTING RULEBOOK



## TABLE OF CONTENTS

### **100 – Class Regulations (pg. 2)**

- 100.10 – Class structure (pg. 2)
- 100.20 – Age rule (pg. 2)

### **200 – Ignite K2 Regulations (pg. 3)**

- 200.10 – Ignite K2 chassis (pg. 3)
- 200.20 – Spindles & Yokes (pg. 3)
- 200.30 – Axle & components (pg. 3)
- 200.40 – Brakes (pg. 3)
- 200.50 – Wheels (pg. 3)
- 200.60 – Seats (pg. 3)
- 200.70 – Steering Shafts (pg. 3)

### **300 – Ignite K3 Regulations (pg. 4)**

- 300.10 – Ignite K3 chassis (pg. 4)
- 300.20 – Spindles & Yokes (pg. 4)
- 300.30 – Axle & components (pg. 4)
- 300.40 – Brakes (pg. 4)
- 300.50 – Wheels (pg. 4)
- 300.60 – Seats (pg. 4)
- 300.70 – Steering Shafts (pg. 4)

### **400 – Bodywork Regulations (pg. 5)**

- 400.10 – Front spoiler (pg. 5)
- 400.20 – Front panel (pg. 5)
- 400.30 – Side pods & nerf bars (pg. 5)
- 400.40 – Rear bumper (pg. 5)
- 400.50 – Floor pan (pg. 5)

### **500 – Engine Regulation (pgs. 6-7)**

- 500.10 – Briggs LO206 (pg. 6)
- 500.20 – Engine claiming (pg. 6)
- 500.30 – Fuel (pg. 6)
- 500.40 – Oil (pg. 7)
- 500.50 – Clutch (pg. 7)
- 500.60 – Sprockets (pg. 7)
- 500.70 – Chain (pg. 7)
- 500.80 – Exhaust system (pg. 7)

### **600 – Tire Regulations (pg. 8)**

- 600.10 – Tire structure (pg. 8)
- 600.20 – Treating & additives (pg. 8)

### **700 – Safety Gear Regulations (pg. 9)**

- 600.10 – Helmets (pg. 9)
- 600.20 – Neck collars (pg. 9)
- 600.30 – Suit, gloves and shoes (pg. 9)
- 600.40 – Chest protectors (pg. 9)

### **800 – Supplemental Regulations (pg. 10)**

- 800.10 – Radios (pg. 10)
- 800.20 – Data acquisition (pg. 10)
- 800.30 – Transponders (pg. 10)
- 800.40 – Spirit & intent (pg. 10)

**GENERAL RULE:** Unless the rules state that you can, you can't.

## 100 – CLASS REGULATIONS

### 100.10 - CLASS STRUCTURE

#### IGNITE KID KART

**Age:** 5-12 years old  
**Chassis:** Open  
**Engine:** Honda GXH50  
**Exhaust:** Factory supplied  
**Tire:** Hoosier 4.5/4.5 R60B  
**Bodywork:** CIK plastics  
**Weight:** 150lb\*

#### IGNITE ROOKIE

**Age:** 8-12 years old  
**Chassis:** Ignite K2  
**Engine:** Briggs LO206  
**Slide:** Red (#302333)  
**Tire:** Hoosier 4.5/4.5 R80  
**Bodywork:** CIK plastics  
**Weight:** 250lb\*

#### IGNITE JUNIOR

**Age:** 12-15 years old  
**Chassis:** Ignite K3  
**Engine:** Briggs LO206  
**Slide:** Yellow (#302341)  
**Tire:** Hoosier 4.5/6.0 R80  
**Bodywork:** CIK plastics  
**Weight:** 320lb\*

#### IGNITE SENIOR

**Age:** 15+ years old  
**Chassis:** Ignite K3  
**Engine:** Briggs LO206  
**Slide:** Black (#302328)  
**Tire:** Hoosier 4.5/7.1 R80  
**Bodywork:** CIK plastics  
**Weight:** 360lb\*

#### IGNITE MASTERS

**Age:** 35+ years old  
**Chassis:** Ignite K3  
**Engine:** Briggs LO206  
**Slide:** Black (#302328)  
**Tire:** Hoosier 4.5/7.1 R80  
**Bodywork:** CIK plastics  
**Weight:** 370lb\*

#### IGNITE HEAVY

**Age:** 15+ years old  
**Chassis:** Ignite K3  
**Engine:** Briggs LO206  
**Slide:** Black (#302328)  
**Tire:** Hoosier 4.5/7.1 R80  
**Bodywork:** CIK plastics  
**Weight:** 400lb\*

**Min Driver Weight:**  
200lbs with safety gear

### 100.20 – AGE RULE

Ages are determined by the age a driver will attain for that given season. If a driver ages out of a class before the start of the season, they are required to move up to the older class option. If a driver will attain an age into an older class during the course of a season, they may choose to stay in their current class, or move up to the older class. Once a driver has raced in a class, they may not move back to a younger class (applies to Rookie, Junior and Senior classes only). **This applies to all Ignite series, including local tracks, Ignite Challenge and Major races.**

## 200 – IGNITE K2 REGULATIONS

### 200.10 – IGNITE K2 CHASSIS

No external modifications may be made to the chassis: permanent seat struts, added or subtracting standard bars and equipment, frame cutting, etc. The frame must remain as it was issued from the factory. Magnesium or carbon components are not allowed. Sniper system not allowed.

### 200.20 – SPINDLES & YOKES

The Ignite K2 will utilize a 17mm spindle manufactured by Margay Racing (part #465538 and #466538). External front hubs are not allowed. Caster/camber pills and ride height are adjustable. Spindle yokes are a tech item, and cannot exceed +/- 10mm camber with center pills installed when measured static, on the stand. Ceramic bearings are not allowed. Dowell pins can be used.

### 200.30 – AXLES & COMPONENTS

The Ignite K2 utilizes a 30mm diameter rear axle that is 1000mm in length. Different axles can be used to achieve desired handling characteristics. Axles must remain 1000mm in length. No magnesium or titanium components are allowed. Ceramic bearings are not allowed. 55" max width.

### 200.40 - BRAKES

Braking system must remain as provided by the factory. The Ignite K2 is equipped with a MCP Billet master cylinder (part #7130), a MCP MiniLite rear caliper (part #71357) and braided brake line set (part #71995). Brake rotors must remain fixed Margay #7125 – no floating systems are allowed.

### 200.50 – WHEELS

The Ignite K2 utilizes a TruSpeed direct spindle mount 5" x 130mm front wheel (part #771311) and a TruSpeed 5" x 130mm rear wheel (part #771310). Wheels must remain as provided by the factory. Ceramic bearings are not allowed. Bead locks may not be removed.

**Previous DWT AlumiLite wheels are still legal but must be ran as a set of four matching wheels.**

### 200.60 – SEATS

Seat manufactures can vary. Only carbon or fiberglass allowed. No laydown style seats are allowed. Supplemental seat struts can be added. The top of the seat to the ground cannot measure below 10".

### 200.70 – STEERING SHAFTS

Steering shafts must remain as provided by the factory. 17" (part #094116), 19" (part #094115), and 21" (part #094117) 3/4" Margay tubular steering shafts are allowed.



## 300 – IGNITE K3 REGULATIONS

### 300.10 – IGNITE K3 CHASSIS

No external modifications may be made to the chassis: permanent seat struts, added or subtracting standard bars and equipment, frame cutting, etc. The frame must remain as it was issued from the factory. Magnesium or carbon components are not allowed. Sniper system not allowed.

### 300.20 – SPINDLES & YOKES

The Ignite K3 will utilize a 17mm spindle manufactured by Margay Racing (part #465538 and #466538). External front hubs are not allowed. Caster/camber pills and ride height are adjustable. Spindle yokes are a tech item, and cannot exceed +/- 10mm camber with center pills installed when measured static, on the stand. Ceramic bearings are not allowed. Dowell pins can be used.

### 300.30 – AXLES & COMPONENTS

The Ignite K3 utilizes a 40mm diameter rear axle that is 1040mm in length. Different axles can be used to achieve desired handling characteristics. Axles must remain 1040mm in length. No magnesium or titanium components are allowed. Axle inserts are not allowed. Ceramic bearings are not allowed. 55" max width.

### 300.40 - BRAKES

Braking system must remain as provided by the factory. The Ignite K3 is equipped with a MCP Billet master cylinder (part #7130) and MCP Billet rear caliper (part #7135). Brake rotors must remain fixed, Margay 'Wave' rotor #7171 – no floating systems are allowed. #71360, #71361 or #71362 pads only.

### 300.50 – WHEELS

The Ignite K3 utilizes a TruSpeed DSM 5" x 130mm front wheel (part #771311). Ignite Junior will utilize a 5" x 180mm euro mount wheel (part #771710) and the Ignite Senior, Masters, and Heavy will utilize a 5" x 212mm euro mount wheel (part #771910). Ceramic bearings are not allowed. Bead locks may not be removed. **Previous DWT AlumiLite wheels are still legal but must be ran as a set of four matching wheels.**

### 300.60 – SEATS

Seat manufactures can vary. Only carbon or fiberglass allowed. No laydown style seats are allowed. Supplemental seat struts can be added. The top of the seat to the ground cannot measure below 12".

### 300.70 – STEERING SHAFTS

Steering shafts must remain as provided by the factory. 17" (part #094116), 19" (part #094115), and 21" (part #094117) 3/4" Margay tubular steering shafts are allowed.

## 400 – BODYWORK REGULATIONS

**NOTE:** Bodywork that comes apart from its original mounting location during the course of a race is subject to penalty or disqualification at the discretion of the race director.

### 400.10 – FRONT SPOILER

Front bumpers must be CIK homologated KG. Full body nose cones are not allowed. Front bumper must be secured at all times using two quick release latches. No lead may be bolted on the plastic. Drop down front bumper system may be used at the discretion of the host track or series.

### 400.20 – FRONT PANEL

The front panels must be CIK homologated KG and may not extend above the top of the steering wheel. Numbers must be clearly visible to the race director. No lead may be bolted on the plastic.

### 400.30 – SIDE PODS & NERF BARS

Both side pods and nerf bars must be CIK homologated KG. Numbers must be located near the rear of the pod along the vertical surface. Side pods may not extend inside or outside the vertical plane of the rear tires by more than 1". No lead may be bolted on the plastic. Nerf bars must remain secured in at least one mounting location per side.

### 400.40 – REAR BUMPER

Rear bumpers must be CIK homologated KG and plastic in composition. The rear bumper must mount off of or inside the left and right frame rails. No lead may be bolted on the plastic. Rear bumper must be secured using locking nuts. **Must cover 2/3 of the rear tires and may not extend more than 1" beyond the outside of the wheel.**

### 400.50 – FLOOR PANS

**Floor pans must be OEM as supplied from the factory; no replacement pieces allowed.** May not extend beyond the center cross member or outside the main frame rails. Full length floor pans are not allowed. No carbon floor pans allowed.

## 500 – ENGINE REGULATIONS

### 500.10 – BRIGGS LO206 REGULATIONS

The Ignite series will run the Briggs LO206 senior engine package (part #302000) for all classes. The Ignite series will utilize the standard Briggs LO206 engine rules. The 2021 LO206 rules package can be viewed here - <http://www.briggsandstratton.com/engines-racing/racing-engines/karting/local-option-206/>

The Ignite series will utilize the following slides:

Ignite Rookie (ages 8-12): Red (part #302333)

Ignite Junior (ages 12-15): Yellow (part #302341)

Ignite Senior (ages 15+): Black (part #302328)

Ignite Masters (ages 35+): Black (part #302328)

Ignite Heavy (ages 15+): Black (part #302328)

**NOTE: Any alteration of the slides will result in immediate disqualification.**

### 500.20 – ENGINE CLAIMING

At the race director's discretion, the track may 'claim' a competitor's engine at any time. The track will supply the competitor with a new, factory sealed engine in direct exchange for the competitors 'as raced' engine. If the competitor fails to comply with the claim request, the competitor will be excluded from participating for one year and will forfeit all points acquired to date.

### 500.30 – FUEL

Fuel will be specified by the track and can range from 87-94 octane. Fuel will be checked with the Digatron meter post-race. Other testing methods may be utilized without notice. No additives are allowed. **Fuel tanks and fuel line must remain uncovered and without insulation or wrap.**

## 500.40 – OIL

Recommended crankcase oil is Amsoil 4T or RLV 4T, however any oil may be used as long as it does not contain oxygenators. No additives or oxygenators allowed. Oil may be tested for the presence of oxygenators.

## 500.50 – CLUTCH

The Ignite series will utilize the Hilliard Flame clutch (part #304200). The use of alternate Hilliard springs and weights is approved. All components must remain in factory stock condition and cannot be modified or ceramic coated. **Use of friction lined clutch shoes is not allowed. Both inboard and outboard clutch mounting is allowed.**

The Ignite series will utilize the following front sprockets:

Ignite Rookie (ages 8-12): 17t (part #305317)

Ignite Junior (ages 12-15): 17t (part #305317)

Ignite Senior, Masters and Heavy (ages 15+): 17t (part #305317)

**NOTE: Any alteration or modification can result in disqualification. Spec drive sprocket can be changed at the discretion of the Margay Racing or hosting track. Sanding clutch drum and shoe surfaces for cleaning purposes is allowed.**

## 500.60 – SPROCKETS

Sprockets must be 2-piece aluminum sprockets (part #235072) and must be #35 pitch. No skip tooth sprockets are allowed. Any rear tooth sprocket is legal.

## 500.70 – CHAIN

Only #35 pitch chains are allowed. #219 pitch chains are not allowed.

## 500.80 – EXHAUST SYSTEM

The Ignite series will utilize the RLV5507 exhaust header and RLV4104 silencer ONLY.



## 600 – TIRE REGULATIONS

### 600.10 – TIRE STRUCTURE

Hoosier R80 compound tires are mandated for all classes. Mandated sizes are:

**Rookie:** Front 4.5/10.0-5 R80, Rear 4.5/10.0-5 R80

**Junior:** Front 4.5/10.0-5 R80, Rear 6.0/11.0-5 R80

**Senior:** Front 4.5/10.0-5 R80, Rear 7.1/11.0-5 R80

**Masters:** Front 4.5/10.0-5 R80, Rear 7.1/11.0-5 R80

**Heavy:** Front 4.5/10.0-5 R80, Rear 7.1/11.0-5 R80

### 600.20 – TREATING & ADDITIVES

ANY ALTERING OF THE MANDATED HOOSIER R80 TIRE THROUGH PREPPING, DOPING, CHEMICAL TREATING, OR CUTTING IS EXPRESSLY FORBIDDEN. ANY COMPETITOR FOUND TO BE ALTERING THE TIRE OR ATTEMPTING TO ALTER THE TIRE FROM THE AS-SUPPLIED CONDITION WILL BE IMMEDIATELY DISQUALIFIED, EJECTED FROM THE FACILITY, BANNED FROM THE FACILITY FOR THE PERIOD OF ONE YEAR, AND WILL FORFEIT ALL SERIES POINTS. NO REFUNDS WILL BE GIVEN FOR PREPAID ENTRIES. POSSESSION OF TIRE PREP, DOPING COMPOUNDS, OR OTHER TIRE TREATMENTS IS CAUSE FOR EXPULSION AND BANNING FROM THE PREMISES. TIRE WARMING BLANKETS, HOTBOXES, OR OTHER WARMING DEVICES ARE PROHIBITED. TIRES MAY ONLY BE CLEANED WITH WATER. TIRES MAY BE SUBJECT TO LAB TESTING BY THE RACE DIRECTOR OR TECH OFFICIALS AT THEIR DISCRETION. A COMPLIANCE FORM WILL BE ISSUED TO THE RACER TO SIGN. THEN, A SAMPLE WILL BE SEALED TO BE SENT TO THE LAB FOR TESTING. COMPLYING RACERS WILL RECEIVE A REPLACEMENT TIRE AND WILL BE BILLED ACCORDINGLY. IF THE TLAB TEST COMES BACK NEGATIVE, A FULL REFUND FOR THE REPLACEMENT TIRE WILL BE ISSUED TO THE RACER. FAILURE TO COMPLY IS CONSIDERED VIOLATION OF OUR TREATING & ADDITIVES POLICY. VIOLATION OF THIS POLICY IS NOT EXCLUSIVE TO INTENT. WE WANT TO BE VERY CLEAR THAT TIRE ALTERING OF ANY KIND IS EXPRESSLY FORBIDDEN AND WILL NOT BE TOLERATED UNDER ANY CIRCUMSTANCES.

## 700 – SAFETY GEAR REGULATIONS

### 700.10 – HELMET

Full faced, Snell or SFI approved helmets only. Snell M rated helmets are acceptable.

### 700.20 – NECK COLLAR

Neck collars are required for all classes. EVS R4 (#3390x) or EVS R2 (#3393x) are recommended.

### 700.30 – SUIT, GLOVES AND SHOES

Full coverage, abrasion resistant karting suit is strongly recommended. Abrasion resistant karting jackets are acceptable when worn with full-length jeans. Jeans must not have large visible holes. Closed fingered gloves are required. High top, racing style shoes are strongly recommended. No open toed shoes or sandals are allowed.

### 700.40 – CHEST PROTECTOR

SFI approved chest protections are required for all Ignite Rookie (ages 8-12) participants. Armadillo chest protector (part #09992x) is recommended.

**NOTE: Safety gear compliance for gloves, shoes, jeans and jackets are at the discretion of the race director and are subject to disqualification.**

## 800 – SUPPLEMENTAL REGULATIONS

### 800.10 – RADIOS

The use of radios to communicate with drivers while on track is prohibited. Use of radios may result in disqualification.

### 800.20 – DATA AQUISITION

The use of on board data acquisition systems such as the MyChron 5 are allowed. GPS and mapping units are allowed. Telemetry systems are prohibited.

### 800.30 – TRANSPONDERS

Transponders must be located on the right or left hand side pod, with the leading edge no closer than 10" from the centerline of the kingpin bolt.

### 800.40 – SPIRIT & INTENT

Lack of clarification in the rule book does not ensure legality. The race director, tech officials and/or series officials reserve the right to prevent a competitor from entering the track and alter or disqualify competitors who are not in compliance or have altered equipment in an attempt to circumvent the rules or spirit of the rules. Racers are required to make every effort to be in compliance with the spirit and intent of the spec Ignite program and its regulations.

**NOTE: Supplemental rules may be added throughout the course of the season.**