



2022

English Creek Speedway  
Rules and Regulations

**OFFICIAL RULES**

## English Creek Speedway 2021

### Rules and Regulations Classes

- Restrictor Box Stock 245 Lbs. 5 years old to 8 years old
- Box Stock 300 Lbs. 8 yrs. old to 12 yrs. old
- Wing Intermediate OPEN CLONE 350 Lbs. 12 – 16
- Adult Wing OPEN CLONE 425 Lbs. 16 yrs. and up
- 125/250cc 250/4 415lbs 250/2 415 lbs 125/2 375lbs. Minimum age 10  
**Maximum age 16**
- Open/500cc Outlaws 450 Lbs.

All drivers are subject to promoter's approval

\*\*Adults. Ages 16 and up. All drivers are subject to promoter's approval

Any other organized class must be approved by the promoter. Mailing Address 812 W Jefferson St Knoxville, IA 50138 641-842-5454

#### Disclaimer:

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.

**NO EXPRESS OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATIONS 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 of a participant, spectator or official. The race director shall be empowered to permit minor deviation from any of the specifications herein or imposed and further restrictions that, in his opinion, do not alter the minimum acceptable requirements. **NO EXPRESS OR IMPLIED WARRANTY SPECIFICATIONS.**

Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final. Drivers and parents or minor drivers are responsible to read and understand the rules and regulations set forth in this book.

**IF WE DON'T SAY YOU CAN - YOU CAN'T.**

All classes must run Hoosier tires on all four corners.

English Creek Speedway Clone track rules Exceptions:

- 1. Drum or Disc clutch only in all clone classes**
2. All pipes are no tech no loop pipes allowed. All pipes must stay within the rear axle and point down or must return in to tail.
3. All pipes must be approved by track official.
4. If your pipe/muffler falls off you will be black flagged and given last place points. If it is broken, loose, cracked, missing ect. After the race you will also be DQ'ed and given last place points.
5. ECS will not have a claim rule in any class.
6. All Fuel tanks must be approved by promoter
7. Transponder mandatory and must be mounted on the back-seat support loop or seat with an unobstructed line of site to the ground.

**YOU ARE RESPONSIBLE FOR THE SAFETY OF YOU AND YOUR KART!**

**ALL CLASSES**

1. Frames must be of kart configuration. Not to exceed 90" in overall length. No EXCEPTIONS. Kart not to exceed 350 lbs. including full tank of gas, **excluding driver.**
2. Cages are mandatory. Must be for protection of driver. Not for looks or wing mounts.  
**Cage must be mounted with 4 grade 5 bolts or pins at all times**
3. **NO CAGE SHOCKS OR STRUTS ALLOWED.**
4. **A frame type cage support is recommended.**



**Should a single cross tube be used it must be a minimum of 12 inches from the top of the down tube.**

**Side pods will not be allowed. Nerf bars cannot enclose, front or top of the nerf bar.**

500/OPEN. Wing sides must stay within 3" from outer most edge of kart. No sharp edges. or too long of bolt. Overall length 48" maximum.

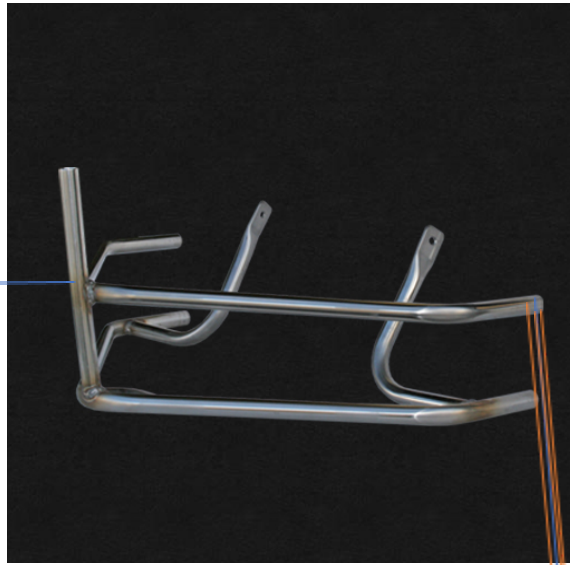
All wing clone classes WING DIMENSIONS

CENTER PANEL 36" LONG 32" WIDE...RIGHT SIDE PANEL 40"LONG X

14"WIDE...LEFT PANEL 40"LONG X

20"WIDE ALL DIMENSIONS ARE +/- 1"

5. Uppermost part of kart and wing not to exceed 76" (all wing classes).
6. Bodies can be any material, except wood. No sharp edges or protruding parts.
7. Wing, hood and tail piece must be sprint car like in appearance and are mandatory in in all classes



Must be a minimum of 13 inches from end of bottom frame rail.

No more than 4 inches of flat surface

No bars, other than regular Nerf bar, may extend out past outer edge of the tire on either side of kart.

**Side pods will not be allowed. You cannot in close the front or top of the nerf bar.**

8. NOISE:

- A. Must meet state noise levels.
- B. Karts in Violation may not race until standards are met.

9. ALL KARTS MUST DISPLAY 10" NUMBERS OR RIGHT AND LEFT SIDE OF KART AND WING AND INSIDE ○ LARGE WING PANEL.

Numbers that are not legible will not be scored.

10. Duplicate numbers must include a letter. Must be a minimum of 6".

11. Numbers must be displayed on contrasting backgrounds.

○ **Safety committee and track officials' decision is final.**

- This is open wheel racing, No front-end cowcatchers. If in doubt, see officials.
- All drivers under the age of 18 must provide a notarized minor's release form to the scorekeepers. A new form is required for each season. In addition, when parent or guardian is not in attendance, drivers must provide us with a designated guardian form. A NEW FORM IS REQUIRED FOR EACH RACE.

- Any other organized class must have a minimum of 12 karts and be approved by the promoter.
- Should your car enter the infield during a race you must slow down and come to a stop at the edge of the track at that time a yellow flag will come out.
- R-Box, Box Stock must run pump gas only 87 Octane no additives.
- R-Box and Box Stock must purchase their gas from Casey's General Store Located at 101 A St. Melcher-Dallas or the store located at 203 S. Lincoln Knoxville.

- a. All other classes - no tech on fuel.
- b. Karts will be tested for fuel requirements. Fines will be assessed or failure to meet any one of the four tests.

## SAFETY

YOU ARE RESPONSIBLE FOR THE SAFETY OF YOU AND KART.

1. Brakes must be in good working condition at all times.
2. All karts must have seat belts and shoulder harnesses. Shoulder harnesses must be mounted in a way to restrict forward body motion independently of the seat. Lap belts should be mounted on frame. Cut or frayed seat belts will not be allowed. This entire rule will be strongly enforced.
3. Approved neck braces and arm restraints are mandatory. Arm restraints must be attached to lap belt and worn below the elbow.
4. HELMETS:
  - a. Snell 2010 or SFI 24.1 approved with face shield only.
  - b. Must fit driver's head.
5. Aluminum high back seats are MANDATORY. The top of the seat should be at the middle of the driver's head.

## SEAT MOUNT

1. Securely mounted to the frame.
2. No excessive holes.
6. All drivers must maintain a working fire extinguisher in their pit area.
7. All karts must have a 6" nylon tie attached to spark plug wire.
8. Kill switches are mandatory and with in reach of the driver.
9. Minimum standard for roll cage (tubing thickness):

- a. All classes  $\frac{3}{4}$  " .083 chrome molly or 1" .06 chrome molly or 1".083 steel.
  - b. No exotic steel.
10. Driving apparel: Driving suits and gloves are required SFI3-2A/1min.
  11. No sharp or protruding objects on any part of the kart.
  12. Roll cage must be securely fastened with grade 5 or better bolt or pins in at least four spots.
  13. Fuel line location cannot be closer than 2" to any of the exhaust system at any time and shall not be above the exhaust. If closer than 2", fuel line must be insulated. Fuel line must have ample slack for cage movement. Must be petroleum grade fuel line.
  14. Fuel tank location:  
Out board mounted fuel tanks must have metal protection, particularly grade fuel line.
  15. Suicide doors: No suicide bars. Side bar must open from the rear. Left side protection is recommended.
  16. No axle protrusion beyond wheel rim. Max axle length 40".
  17. Tail piece protection: If the top of the rail section protrudes above the seat, tail must be padded.  
Hood and Tail section must be securely attached to the Kart
  18. Smoking in pit area is not recommended. Use commonsense.
  19. RED LIGHT: WHEN THE RED FLAG COMES OUT, AND THE LIGHTS COME ON YOU MUST COME TO A COMPLETE STOP. AS SOON AS IT IS SAFE. You must not pass the accident. If in the opinions of the officials, you did not stop when you should have you will be disqualified. Once the officials say it safe the pit gate will open for one pitman per kart if more than one person attends to a kart that kart will be disqualified.
  20. Pitmen are not allowed on racetrack or infield while race is in progress. Violators will result in their kart being disqualified.
  21. During a yellow flag, WORK ON KARTS ON RACETRACK IS PROHIBITED.
  22. SPEEDING IN THE PIT AREA will result in a \$50.00 fine and loss of points.  
Officials and Safety Crew members are authorized to issue fines.
  23. Any Official is permitted to remove karts from racetrack due to unsafe conditions to driver and/or other karts.
  24. Safety Crew and Track Official's decision is final.
  25. Chain guards are mandatory. Appropriate design to prevent injury to arm. If in doubt, see safety tech.

26. Karts will be inspected using the following safety list.

IMMEDIATE - must be fixed same day.

SECONDARY- must be fixed by the following race date or pay \$25.00 fine.

Failure to fix by third race will result in suspension of kart.

IMMEDIATE

Helmet- fit/condition

Seat belt & harness mounted

Arm restraints

Neck brace or Hans Device

Brakes

Suicide doors

Steering link, lock nuts or cotter keys

Protruding objects

Axle Protrusion

Fuel Line Location

Spindles - Cotter Keyed Cage

Mounts height

Frame, Nerf Bars, Bumpers, and Roll Cage

Floor Pan Condition

Seat

—

Condition/Mounting

SECONDARY

Wing - Mounts

Kill Switch

Wheel Condition

Rear Axle Keepers

Hood & Tail Mounts

Tail Piece Protection

Fire Extinguisher

Number/Letter Chain

Guard

Any track Official has the authority to disqualify a kart for safety violations.

27. No nose wings allowed.

28. All karts must maintain a sprint car like appearance.

29. No traction control devices allowed.

RACING RULES & ETIQUETTE

- GREEN FLAG: The entire track is open for racing. Passing will not be permitted before the green flag is displayed, at designated point.



Single file starts will be at MEDIUM SPEED, until the lead kart begins to race. At this point the green flag will be displayed and racing will begin. To receive points for the race you must take the Green flag on your own power.

- A. Double file starts. The two lead karts must stay side by side, at MEDIUM SPEED, until reaching the start cone. After two attempts if we do not get a side by side start the front row will move to the last row
  - B. AT 3rd restart line up will be single file
  - C. If car drops out before Start of a race other karts will be moved up in that row - NO STAGGERING of line up
2. RED/YELLOW FLAG: Restart race. This will happen on the first lap only. All races will be entitled to two restarts.
3. YELLOW FLAG: CAUTION, All karts must come to a parade lap speed. Failure to do so will result in being sent to the back. Karts must be in single file formation (nose to tail). Line up reverts to previous lap for line up.
4. RED FLAG: STOP AS SOON AS SAFELY POSSIBLE.
- A. Revert to previous lap for lineup.
  - B. Once the pit gate is open only one pitman per kart is allowed.
  - C. FAILURE TO OBSERVE THE RED FLAG WILL RESULT IN DISQUALIFICATION.
5. BLUE/YELLOW FLAG: MOVER OVER. To inform slower moving karts that leaders are about to pass. Move over with CAUTION.
6. BLACK FLAG: PROCEED TO THE INFIELD for consultation. Kart will cease being scored from time flag is displayed.
7. WHITE FLAG: ONE LAP TO FINISH.
8. CHECKERED FLAG: Race is officially over. All karts must pass under this flag to be scored.
9. If a kart has a safety problem on the racetrack and an Official can easily fix it, kart will resume position.
10. Jump starts will result in a loss of two positions. This will be imposed at next yellow or at the end of the race.
11. Drivers who are involved in or the cause of a yellow or red flag will start in the back of the pack. The TWO SPIN rule is in effect. Should you be involved, cause or have to be restarted at any time you will be charged with one spin. \*\*\*After second spin Kart and driver will be directed to go

to the center of the infield and wait in Kart until race is concluded Only exception is Restrictor Box Stock are a Three Spin rule

12. NO REFUNDS issued once kart reaches track.
13. At no time will a driver or a kart representative may enter the scorer's booth without permission of the head scorer. Should you enter the scorer booth without permission you kart or the kart you are representing may RESULT IN DISQUALIFICATION.
14. At no time will a driver or anyone associated with a kart enter the tech area without permission. Entering without permission results in disqualification.
15. Quads are to be used for pushing karts only.
16. Quad operators must be a minimum of 15 years old.

### ALCOHOL BEVERAGES

1. Alcohol beverages are not allowed in the pit area.
2. Anyone observed drinking any type of alcohol during the race program will be disqualified.
3. You are responsible for your pit crew members. If a member of your pit crew is observed drinking alcohol you will be disqualified.

### CONTROLLED SUBSTANCE

1. Any person found using or under the influence of drugs will be disqualified plus banned from the racing facility indefinitely.

### UNSPORTSMANLIKE CONDUCT

1. **Fighting on premises will result in permanent suspension. Drivers are responsible for the action of their pit crew.**
2. **ANY display of unsportsmanlike conduct (on or off the track) will result in a FINE, SUSPENSION, IMMEDIATE REMOVAL FROM RACE AREA, POINT PENALTIES, and OR ALL OF THE ABOVE.**
3. **Rough driving will result in docked position, fine or black flag.**
4. **Pit crew members observed verbally, or physically abusing driver will result in loss of accrued points for their driver and/or fine. NO Exceptions!**
5. **Any person entering another person's pit in an adverse manner will result in the kart that are associated with being disqualified and possible fines and suspension**
6. **We have the right to refuse service to anyone**

### POINT RULES

1. Point system will be disclosed at the first race. Copies available at sign in booth, upon request.
2. Drivers must have a valid Competitor's License to race and/or be eligible for points
3. Drivers may qualify only ONE kart number in their class and run that number kart for the entire event.
4. To be eligible for points and awards, licensed drivers must not miss more than 25% of point races, per series.
5. Borrowing a kart is not permitted.

6. Substitute drivers are permitted for 2 races.

**SUBSTITUTE DRIVER MUST BE PREAPPROVED BY THE PROMOTOR -All substituted drivers will start in the last Position in ALL Races for that Race Night**

7. Points and winnings are awarded to registered kart number.
8. You must be present at awards banquet to receive awards and/or prize money.
9. All classes except the open Class are trophy classes.
10. As stated above you must take the Green flag under your own power to receive points for that race.

### Engine PROTEST RULES

Motor may be protested for \$250.00.

- MUST be protested Within 15 minutes of completion of the "A" MAIN for that class.

- Only competitors must have raced in the A main of that class

In order to protest. Protestors must not leave tech area with their kart or the protest will be denied.

- This fee to be used for professional inspection.
- The protestors motor will be teched first, once found legal the protested motor will be teched. Should the protestors motor be found illegal the protested motor will not be teched. All fines and loss of points will be imposed on the protester.
- Motors well be held for 72 hours for inspection.
- Driver or parents of minor drivers are the only person eligible to protest.
- Officials may spot check motors at any time.

2. Illegal motors will be fined. First Offense: \$250.00 fine, loss of points and earnings for that race.

Second Offence

\$500 Fine loss of points and earnings for that race

Third and Final Offense Kart and driver disqualified for the remaining race season.

3. Parents/Guardians of minor drivers are responsible for fines assesses.

4. If motor is found to be illegal protestor may be reimbursed \$200 less \$50 for tech service.

## **RBOX (BS)**

Restrictor Box Stock ENGINE SPECIFIC TECH SHEET FOR: BOX STOCK 6.5 OHV

Description: Single cylinder, 2 valve, OHV 4 cycle engine. (Gas Only) Must run a **green .425 plate**. 6.5 OHV – Fuel Pump Gas ONLY – Approved Engine: 6.5 OHV 196cc clone engine- No Kohlar, No Honda, No Predators. **No** aftermarket coatings of any type are permitted on any part of the engine (exception Blower Housing and Shrouds)

Restrictor Box Stock: age 5 to 8 (All exceptions must be approved by promoter.) (.425 restrictor plate)

Combustion chamber volume: 26.5 cubic centimeter minimum, with piston at TDC, using prescribed procedure. The Liquid CC check is the official check

Cylinder Head Requirements: Must be OEM casting only. All cylinder heads must be the “JT” 4 bolt valve cover cylinder head (168-f 6.5hp GX 200 series) or the TG-1 head only. Porting and / or grinding are not permitted. Valve seats are two angles 45 degrees valve face and 30 degrees top relief. Intake seat maximum ID .897”, Exhaust seat maximum ID .862”. Outside face of valve may not be below floor of combustion chamber (i.e. don’t sink the valves). Stock head bolts only, must have four. Head gasket/s maybe after market, must be of stock configuration, gasket thickness is a non tech item. Depth check between the valves, front to back and side to side may not vary by more than .005” max. No copper or aluminum gaskets allowed. Any stock configuration exhaust gasket allowed no other sealer.

Block Requirements: Stock cylinder bore is 2.685” max. Stroke is 2.123” + .010” or - .005”. No piston pop out allowed. Matting surface finish of block and cylinder head is a non-tech item, surfacing of both to correct gasket failure and meet cc check allowed however, no piston pop out is allowed. May use 2 side cover gaskets of stock configuration. Block must remain stock as produced. Stub for governor may be removed and hole plugged. No machining of block allowed. Welding to the block shall be for rod damage repair only and may not constitute a functional modification. **Tillotson blocks allowed**. Side cover bolts are non tech

Carburetor requirements: Huayi OR RUI\*ING model **type** carb only. Carb to intake sealer is gasket only no other sealer allowed. Choke must be as supplied from factory, but may be fixed to stay in open position. Venturi .615” NO-GO. Rear carb bore .751” NO-GO. Main fuel jet .042” NO-GO. Low speed idle jet is a Non-Tech item. Stock emulsion tube must be used and unaltered, .066” max ID (no pass through). Side holes in E-Tube 4 holes max in bottom section and 20 holes max in top section. **Black Phenolic carb spacer is a non tech item but must be present**. Minimum E-Tube length 1.092”. Throttle shaft - .115” minimum. Butterfly - .037” minimum. Aftermarket air filter adapter allowed (max length of 1.375).

Valve Train: Stock valve cover only with any stock configuration gasket, no sealer.

Factory stock rocker arms 1:1 ratio and push rods only. Stock valves only 45-degree angle only both valves, Intake valve Max OD .982” +/- .005” and Exhaust valve Max OD .948” +/- .005”, no modifications allowed. Only Box Stock valve springs. (Installed Height for valve springs .815”, must be checked by using the .815” spring must go gauge with retainer seal in place on intake an exhaust valve if used.) Prescribed check procedure as follows – Remove valve spring, reinstall spring retainer, insert .815” must go gauge in spring location. Gauge must go in both locations Intake and Exhaust with any allowed retainers in place, as raced, during check procedure. Max wire diameter on spring wire is

.071" with a maximum tension of 10.8 lbs. at a height of .850". Lash cap on exhaust valve only. Valve stem seal allowed on Intake and Exhaust valve, maximum lip thickness of .027". Minimum thickness of Intake retainer .230", Exhaust retainer .250". BS lifters only, no modifications allowed.

Ignition system: Stock Box Stock system only and must be unaltered. Low oil sensor may be disabled and removed.

Flywheel: Approved SFI certified billet aluminum flywheel only. No machining or alteration of any kind allowed. Minimum weight for flywheel is 3.3 lbs. Any timing key or no key at all may be used. A flat washer or spacer may be used, and is recommended, between the flywheel and the nut.

Handheld electric starter may be used, but compression release mechanism must remain on camshaft.

**If choose to use an electric starter and your karts engine dies on the track we will not restart it.**

Current Approved flywheels: ARC 6619, ARC 6618, **ARC 6689**, Racing Flywheels RSP-13-075 Revwheel NF- S1 & RSP-13-077 Revwheel F-S1. If manufactured for use with removable fan, the fan must be unaltered, attached and functional. Timing and flywheel key is non-tech.

Header and Muffler Requirements- Silencer must be a (B91XL round hole muffler). Exhaust Pipe must be double nutted, or safety wired, and silencer must be supported by clamped on brace to secure it in place. No modifications allowed. Muffler will be teched against stock B91XL No loop pipes.

Piston and Rings: Must be unaltered Box Stock only. Must have 3 rings. No machining of piston and rings allowed.

Connecting Rod: Stock Box Stock rod or billet. No machining of any type allowed.

Crankshaft Requirements: Stock Box Stock crankshaft required. Machining, polishing, addition of material or other alteration of crankshaft is prohibited. Stock factory timing gear mandatory and must be installed in original location. Crankshaft journal diameter is 1.180" max - 1.168" min.

Camshaft Requirements: Stock camshaft cores only, ez-spin assy must remain as stock. Cam lobe base circle diameter .865" -.005"/+.010" Duration check for Intake and Exhaust lobes (taken off pushrod). Intake duration of 219 degrees at .050 lift/86 degrees at .200 lift. Exhaust duration of 222 degrees at .050" lift/97 degrees at .200" lift. Max Intake lift on cam .225" – Min .215" lift taken at the pushrod. Max Intake lift at the valve .238" Taken on valve spring retainer with zero lash. Max Exhaust lift on cam .232" – Min .222" lift taken at the pushrod. Max Exhaust Lift at the valve .242" Taken on valve spring retainer with zero lash.

Blower Housing Assembly: pull starter must be present and remain stock. Pull starter may be rotated for a better crank angle. After market coating allowed.

**If choose to use an electric starter and your karts engine dies on the track we will not restart it.**

Fuel Tank Requirements: stock tank must be removed. Floor mount or gravity fed- Must be approved by promoter

Fuel Pump Requirements: Fuel pump must be pulsed from either the crank case or the valve cover. You may install a flat metal plate in the original tank location for the purpose of mounting the throttle linkage and fuel pump.

Clutches: **DISC OR DRUM CLUTCHES ONLY ALLOWED**

+/- .005 or 2 degrees on all measurements to allow for gauge variances and wear.

ALL CLONE CLASSES: WING DIMENSIONS

CENTER PANEL 36" LONG 32" WIDE...RIGHT SIDE PANEL 40"LONG X 14"WIDE...LEFT PANEL 40"LONG X 20" WIDE

ALL DIMENSIONS ARE +/- 1". **NO COCKPIT ADJUSTABLE WING SLIDERS.**

## **Box Stock – (BP)**

6.5 OHV – Fuel Pump Gas ONLY – Approved Engine: 6.5 OHV 196cc clone engine- No Kohlar, No Honda, No Predators, – Any 168-f Clone Block

SPEC SHEET FOR 6.5 OHV CLASS

Description: Single cylinder, 2-valve overhead 4-cycle engine. No aftermarket coatings of any type are permitted on any part of the engine (exception Blower Housing and Shrouds). Cylinder Head Requirements: Must be OME casting only. All cylinder heads must be the “JT” 4 bolt valve cover cylinder head (168-f 6.5hp GX 200 series) or the TG-1 head only. Porting and /or grinding are not permitted. Valve seats may have up to three angles, 45-degree valve face and 30 degrees top relief and 60-degree bottom relief. Cutting of the valve seats allowed to ensure proper seal. Intake seat maximum ID .897”. Exhaust seat maximum ID .862”. Outside face of valve may not be below four of combustion chambers (i.e. don’t sink the valves) Stock head bolts only, must have four. Head gasket/s may be aftermarket, must be of stock configuration, gasket thickness is a non tech item, sealer allowed to ensure proper seal. Depth check between the valve, front to back and side to side may not vary by more than .005-inch max. No cooper or aluminum gaskets allowed. Any stock configuration exhaust gasket allowed, sealer permitted, Header may also be run without gasket, sealer only. Allen head bolts permitted on header to head. The use of aftermarket FLANGED bolts of similar OEM design (head size, diameter, length and thread length/pitch) allowed as replacements for stock head bolts. No studs allowed.

Breather hole on valve cover may be tapped with ¼” pipe tap to accommodate breather fittings, no oversize drilling allowed.

Bore and Stroke: Stock bore is 2.685” and may be over bored to 2.718” Stroke is 2.123” +.010”-.005”.

Connecting Rod: Billet aluminum rods, with or without bearing inserts required. No titanium rods allowed. Rod length is a non tech item. MUST use billet rods.

Combustion Chamber Volume: 25 cubic centimeter minimum, with piston at TDC, using prescribed procedure. The Liquid CC check is the official check.

Carburetor/Intake Requirements: Stock Huayi or RUI\*ING **TYPE** carb. Venturi .625” NO-GO. Rear carb bore .751” NO-GO. Carb bore finish, non tech. Throttle shaft - .115” minimum. Butterfly - .037” minimum. Air Filter adapter of 1.375” max length allowed. No air rams. Pulse-type fuel pump is mandatory (other fuel system must be preapproved by promotor). Fuel pump must be pulsed from either the crankcase or the valve cover. **Black phenolic carb spacer is a non tech item but must be present.** Choke assembly may be removed. Jets, air bleeds jets, and emulsion tubes are non-tech. Throttle shaft, washer, and butterfly must be stock and must be present, butterfly screw non tech. Stock intake runner gasket configuration only. One extra gasket may be used with restrictor plates. No other alterations are permitted.

Ignition system: Ignition timing is non-tech. Stock ignition module only. No modifications of any type allowed. Sparkplug connector must be stock as from factory.

Piston Requirements: Must be stock dished piston with no modifications. Oversize Clone or Honda dished piston is allowed up to .035" oversize. Rings must appear stock and all three rings must be installed. Piston may not pop out above cylinder deck.

Valve Train: Stock valve-train only in stock configuration except: Any single valve springs and valve spring shims are allowed; Any 5.5mm stem steel valve (including stainless) that uses stock retainers **OR 2 PIECE RETAINER** allowed. Intake valve head Max OD .982" +/- .005" and Exhaust valve head Max OD .945" +/- .005". Valves must be one angle only, 45°. No knife edging of valves (1mm min. margin). Valve length is non-tech. No additional support for rocker studs permitted. Champion rocker arm assembly and valve cover allowed.

Camshaft Requirements: Stock camshaft cores only, ez-spin easy must remain as stock. Duration check for Intake and Exhaust lobes (taken off pushrod). Intake duration of 248 degrees at .050 lift/107 degrees at .200 lift. Exhaust duration of 247 degrees at .050 lift/116 degrees at .200 lift. Max lift at the valve retainers, Intake .238" and exhaust .242" taken on valve spring retainer with zero lash.

Crankshaft Requirements: Stock, factory crankshaft only with stock, factory timing gear in factory location. No modifications to crankshaft allowed. Aftermarket steel main bearings of non-self-aligning type, with or without seal are allowed. No ceramic bearings. Crankshaft Journal diameter is 1.180", 1.168" minimum.

Block Requirements: Stock Block, as cast and produced with no alterations or modifications other than those specifically permitted. Block head matting surface may be machined; however, no piston pop out is allowed. Blocks may NOT be welded for repairs. No addition of material to block (i.e. welding, jb weld, etc.). All bolt bosses in block may be drilled and tapped for repairs or other uses. Additional side cover gaskets as required for crankshaft thrust are permitted. All parts associated with the governor and the low oil sensor may be removed, plugging any associated holes. Side cover bolts are non tech. **Tillotson block allowed.**

Flywheel: Approved SFI certified billet aluminum flywheel only. No machining or alteration of any kind allowed. Minimum weight for flywheel is 3.3 lbs. Any timing key or no key at all may be used. A flat washer or spacer may be used, and is recommended, between the flywheel and the nut. Handheld electric starter may be used, but compression release mechanism must remain on camshaft. **If choose to use an electric starter and your karts engine dies on the track, we will not restart it.**

Current Approved flywheels: ARC 6619, ARC 6618, **ARC 6689**, Racing Flywheels RSP-13-075 Revwheel NF- S1 & RSP-13-077 Revwheel F-S1.

If manufactured for use with removable fan, the fan must be unaltered, attached and functional.

Connecting Rod: Must use Billet aluminum rods, with or without bearing inserts required. No titanium rods allowed. Rod length is a non tech item.

**Clutches Disc and Drum only allowed**

Header and Muffler Requirements- Silencer must be a (B91XL round hole muffler). Exhaust Pipe must be double nudded or safety wired and silencer must be supported by clamped on brace to secure



it in place. No modifications allowed. Muffler will be teched against stock B91XL. No loop type pipes are not allowed.

+/- .005 or 2 degrees on all measurements to allow for gauge variances and wear.

All CLONE CLASSES: WING DIMENSIONS

CENTER PANEL 36" LONG 32" WIDE...RIGHT SIDE PANEL 40"LONG X 14"WIDE...LEFT PANEL

40"LONG X 20"WIDE

ALL DIMENSIONS ARE +/- 1" **NO COCKPIT ADJUSTABLE WING SLIDERS.**

## **Intermediate Wing Open Clone**

6.5 OHV – Approved Engine: 6.5 OHV 196cc clone engine- No Kohlar No Honda No Predicators - ENGINE SPEC SHEET FOR 6.5 OHV CLASS

Description: Single cylinder, 2-valve overhead 4-cycle engine. No aftermarket coatings of any type are permitted on any part of the engine (exception Blower Housing and Shrouds). Cylinder Head Requirements: Must be OME casting only. All cylinder's heads must be the "JT" 4 bolt valve cover cylinder head (168-f 6.5hp GX 200 series) or the TG-1 head only. Intake seat maximum ID .897". Exhaust seat maximum ID .862".

Bore and Stroke: Stock bore is 2.685" and may be over bored to 2.718" Stroke is 2.123" +.010"-.005".

Connecting Rod: Billet aluminum rods, with or without bearing inserts required. No titanium rods allowed. Rod length is a non tech item.

Carburetor Stock appearing 196cc clone carb Huayi or RUI\*ING **TYPE** carb. Internal filler not allowed.

Ignition system: Ignition timing is non-tech. Stock ignition module only. No modifications of any type allowed. Sparkplug connector must be stock as from factory.

Piston Requirements: Piston is allowed up to .035" oversize.

Valve Train: Intake valve head Max OD .982" +/- .005" and Exhaust valve head Max OD .945" +/- .005".

Crankshaft Requirements: Stock, factory crankshaft only with stock, factory timing gear in factory location.

**Block Requirements: Stock 168-F clone type block. Bracing/welding is allowed. No billet blocks, no Honda or Kohler. Tillotson blocks are allowed.**

Flywheel: Approved SFI certified billet aluminum flywheel only. No alteration.

**Clutches Disc and Drum only allowed**

Header and Muffler Requirements- Silencer must be a B91XL round hole muffler or RLV-4106. Exhaust Pipe must be double nudded, or safety wired, and silencer must be supported by clamped on brace to secure it in place. No loop type pipes are not allowed

+/- .005 or 2 degrees on all measurements to allow for gauge variances and wear

All CLONE CLASSES: WING DIMENSIONS

CENTER PANEL 36" LONG 32" WIDE...RIGHT SIDE PANEL 40"LONG X 14"WIDE...LEFT PANEL 40"LONG X 20"WIDE

ALL DIMENSIONS ARE +/- 1" NO **COCKPIT ADJUSTABLE WING SLIDERS.**

### Adult Wing Open Clone

6.5 OHV-Approved Engine: 6.5 OHV 168-f clone engine.

Engine Spec Sheet for 6.5 OHV 168-f clone Class

Description: Single cylinder, 2 valve, overhead 4 cycle engines.

**Cylinder head requirements: No Billet heads, No Honda heads, No Kohler heads. All cylinders heads must be the "JT" 4 bolt valve cover cylinder head only.**

Bore: Any

Connecting Rod: Any

Piston Requirements: Any

Valve Train: Intake valve head max OD .982 +/- .005" (25 mm) and Exhaust valve head max OD .945 +/- .005" (24 mm). Any Valve, any Keeper, any spring, any lifter, and any push rod.

Crankshaft: Stroke is 2.133" max

Flywheel: Any approved SFI Certified Billet Aluminum Flywheel. No ALTERATIONS.

Carburetor: Any Carb 28 mm Max.

Clutch: Disc or Drum Clutch only allowed

Header and Muffler: Silencer must be a B91XL round hole muffler or RLV-4106. Exhaust pipe must be double nudded, or safety wired, and silencer must be supported by clamp on brace to secure it in place. No loop type pipes allowed.

+/- .005 or 2 degrees on all measurements to allow for gauge variances and wear.

All clone Classes: Wing Dimensions

Center Panel 36" long 32" Wide... Right Side Panel 40" Long X14" Wide... Left Panel

40" Long X 20" Wide All Dimensions Are +/- 1"

NO COCKPIT ADJUSTABLE WING SLIDERS.

### **250/125 Intermediate Class**

1. 250F Engines must be stock stroke, stock bore.
2. 250F powered karts must weigh **415 lbs.** based on the racetrack scales.
3. 250 two stroke engines must be stock stroke, stock bore.
4. 250 two stroke karts must weigh **415 lbs.** based on the racetrack scales
5. 125 two stroke engines are allowed with stock stroke and 145cc max. Kart must weigh 375 lbs. with driver after the race measured on track scales.
- 5a. Both 125 and 250 must have a single carburetor and must be naturally aspirated (no turbos/superchargers allowed). - 550cc max for both 2 stroke and 4 stroke engines.
6. Karts must run Hoosier treaded tires.
7. Hoosier D-50 or D-55 ONLY on the Right Rear. No prep or any chemical allowed.
8. No front wings or air directional devices allowed. Subject to track official discretion
9. No side panels or lips allowed on the hoods/noses.
10. **No sail panels permitted beyond the rear cage receiver on either side of the roll cage.** No air deflection devices other than the top wing will be permitted. Subject to track official discretion.
11. No panels or air deflection devices of any kind allowed on the nerf bars. (Rock Guards or devices to protect the exhaust pipe/electronics will be permitted with prior approval from track)

12. Wing Panels may not exceed the following dimensions. a. Right Side wing panel may not exceed 48" long or 20" tall at any point b. Left Side wing panel may not exceed 48" long or 28" tall at any point c. Center Section may not exceed 41" wide at any point
13. Floor Pans cannot extend beyond the beyond the frame rails and cannot extend past the rear seat mount on the frame.
14. All Body rules will be subject to track official discretion
15. Minimum driver age is 10 years old **Maximum age 16**. Track officials may make an exception. Driver must be approved in advance to compete.
16. RaceCeivers are MANDATORY.

### **Open Division:**

**Motor:** Dirt bike style production engine only, single cylinder, single carburetor and must be naturally aspirated (no turbos/superchargers allowed). - 550cc max for both 2 stroke and 4 stroke engines.

2. Slipper clutches not allowed.
3. Minimum kart and driver weight for both 2 strokes and 4 strokes are 450 lbs. based on the racetracks scales.
4. Minimum driver age is 14. Track officials will make exceptions for drivers that they feel are able to race this class. Must be approved in advance.
5. Raceceivers in working order are mandatory!
6. Hoosier Treaded tires mandatory. Must be a D50 or D55 right rear. **NO TIRE PREP ALLOWED** on any tires
7. No Methanol or Ethanol allowed.
8. No front wings or air directional devices allowed. Subject to track official discretion
9. No side panels or lips allowed on the hoods/noses.
10. **No sail panels permitted beyond the rear cage receiver on either side of the roll cage.** No air deflection devices other than the top wing will be permitted. Subject to track official discretion.

11. No panels or air deflection devices of any kind allowed on the nerf bars. (Rock Guards or devices to protect the exhaust pipe/electronics will be permitted with prior approval from track)

12. Wing Panels may not exceed the following dimensions. a. Right Side wing panel may not exceed 48" long or 20" tall at any point b. Left Side wing panel may not exceed 48" long or 28" tall at any point c. Center Section may not exceed 41" wide at any point

13. Floor Pans cannot extend beyond the beyond the frame rails and cannot extend past the rear seat mount on the frame.

14. All Body rules will be subject to track official discretion.

Hoosier tires only on all four corners. This Included 2020 Outlaw Dirt Kart Nationals Absolutely no tire dope allowed at ENGLISH CREEK SPEEDWAY tires may be impounded for testing at any time. All wing classes Must run treaded tires and must be a D-50 or D-55 on the right rear that must durometers 50.