

2024 Intermediate Wing Open Clone Rules-

ALL WING KART CLASSES: (Read through entire rules below and know your class rules)

Drivers that move up a class cannot go back and compete in lower classes or compete in both classes with possible exception of Nationals event. (Promoter discretion)

Working RaceCeivers and Transponders are MANDATORY. If your RaceCeiver does not work in staging you will not be allowed to race.

2. Transponders must be installed and in working order. If your transponder does not work you will not be scored. 3. **Transponders on Wing karts will be mounted behind seat on seat mount (low) near the frame** (If mounted in the incorrect spot and a close finish is scored you will be put behind the other finisher)

- A:
1. All karts must be approved by the race director prior to competition.
 2. Tires must be Hoosier treaded kart tires and approved by series officials. Not to exceed 6" diameter.
 3. Cages are mandatory and must be for the protection of the driver.
 4. Bodies can be any material except wood. No sharp edges or protruding parts
 5. All karts must have a wing, hood, and a tail.
 6. No bars may extend out past the outer edge of the tire except nerf bars.
 7. All karts must have numbers on both sides of the wing and must be legible from the scoring tower or they will not be scored. 8. Duplicate numbers must have a letter. The letter must be legible.
 9. No Front Wings allowed.
 10. Traction Control Devices & Ratcheting Hubs are not permitted, during ANY event, in ANY class at ANY time, Hubs must be securely fastened to axle with key in place at all times! Must be a live rear axle.

- No wheel travel permitted of any kind. Axle and spindles must be solid mounted.

Can not "float" or move in any direction.

- All hardware that attaches the axle and spindles to the frame must be tight.
- No springs or shocks of any kind allowed to help limit travel of the wheels.
- Any infraction to this rule will result in an immediate DQ and no points will be awarded for the entire event.

11. Axles cannot be made out of any exotic materials. No Carbon or Titanium.

Weight

1. All karts must meet the designated minimum weight in their perspective class.(post race with driver)
2. Additional bolt on weight is permitted, but must be fastened in a secure manner and must be painted white and must have the kart number written on it.
3. It is YOUR responsibility to make sure your kart meets the minimum weight each week per track scales.

Safety

- A. YOU ARE RESPONSIBLE FOR THE SAFETY OF YOU AND YOUR KART.
- B. Brakes must be in good working order at all times.
- C. Kill Switches are recommended in all classes! Karts must also have a 6" nylon tie attached to the spark plug wire. D. Aluminum high back seats are Mandatory. The top of the seat should be at the middle of the driver's head. E. All karts must be equipped with at least a 5-point harness to restrict

body movement. Karts are subject to inspection and are at the discretion of track officials on whether or not it is safe enough to compete.

F. Approved neck braces or neck restraints are mandatory.

G. **Helmets must be 2015 SNELL approved or newer**, and must fit the drivers head correctly. Thunder Hill Speedway officials have the right to determine if a driver's helmet is safe enough for competition.

H. Racing suits are highly recommended. No shorts or cut off pants allowed.

J. Roll Cage must be securely fastened at 4 locations with at least grade 5 bolts.

K. Driver's body must be completely inside the roll cage and have at least 2 inches clearance above the driver's head. L. Knee Knockers or padding around the steering column is recommended.

M. Chain Guards, designed to protect the driver in the event of a chain failure are Mandatory.

N. Helmets and all safety gear must be worn during engine warm ups at all times.

O. Safety is Thunder Hill Speedway's number 1 concern. So please make it your number 1 concern as well. Be Smart!! P. All classes must utilize a sprint car style rear bumper. No square flat kart style bumpers allowed. Must extend back a minimum of 7" from the end of frame rail. (Bumper design must be approved by track management).

Unsportsmanlike Conduct

1. Fighting at Thunder Hill Speedway will result in suspension.

2. Any display of unsportsmanlike conduct (on or off the track) will result in a Fine, Suspension, and Immediate Removal from grounds, Point Penalties, or All of the above.

3. Rough driving will result in docked positions, fine or black flag. Drivers and Crew members observed verbally or physically abusing other drivers and/or officials will result in loss of points, fines and/or suspension. NO EXCEPTIONS!

TIRES & WHEELS: 5" or 6" rims. Bead lock wheels are allowed.

Hoosier Treaded tires only! D50 or D55 is Mandatory on RR of all Winged Outlaw karts. (Must highlight RR 50 or 55 tire stamp with white paint or white paint pen for easy visibility to officials)

All Outlaw wing karts must run all 4 Hoosier Treaded tires and may also groove or sipe any of their tires. No Tire Prep is allowed!

2024 Intermediate Wing Open Clone Rules-

Ages 12-up

- May run BP and Intermediate classes if meet age requirements for 2024.

350 Lb. Min weight

Fuel type: Gasoline or methanol only (no exotic fuels or additives allowed)

6.5 OHV – Approved Engines. 196cc Clone only, No Kohlar, No Honda, No Predators allowed.

Engine spec sheet for Open Intermediate Clone class

Description: Single cylinder, 2 valve overhead 4 cycle engines. No aftermarket coatings allowed or permitted on any part of the engine unless otherwise noted in these rules. (Header, blower housing, rocker cover, and shrouds are permitted). Cylinder head requirements: Must be OEM casting only. Any Clone JT casting, Tillotson JT-207, or TG-1 head will be allowed. Must be of the four-bolt valve cover type only. Intake valve seat maximum ID 0.897, Exhaust seat maximum ID 0.862.

Bore and stroke: Stock borer is 2.685 and may be over bored to 2.718, Stroke is 2.123" +0.010" or -0.005

Connecting rod: Billet aluminum rods, with or without bearing inserts Required. No titanium rods allowed. Rod

length is non tech.

Carburetor Stock appearing 196cc Clone carbs only. No Honda carbs allowed. Huayi, Ruxing, or Tillotson PK series carburetors only. Internal filler of any type not allowed anywhere in Carburetor.

Ignition system: Ignition timing is non tech. Stock 196cc ignition module / coil only. No modifications of any type allowed. Spark plug wire and boot / spark plug connector must be stock as supplied by factory.

Piston requirements: Piston is allowed up to .035 oversize.

Valve train: Intake valve head max OD. .982 +/- .005, Exhaust valve head max OD. .945 +/- .005

Crankshaft requirements: Stock factory 196cc crankshafts only with stock timing gear in factory location.

Block requirements: Stock 168F clone type block. Bracing / welding is allowed. No billet blocks, No Honda blocks, No Kohler blocks. 68MM Tillotson blocks are allowed.

Flywheel: Any SFI certified billet aluminum flywheel only. May NOT be modified or altered.

Clutches: Disc or drum only allowed.

Header and muffler Requirements: Silencer / muffler must be B91XL round hole or RLV -4106. Exhaust pipe / header must be double nutted, or safety wired. Header / silencer must be supported by clamped on brace to secure it in place. No loop pipes are allowed.

+/- 0.005 or 2 degrees on all measurements to allow for gauge variances and wear (All wing classes)

Hoosier grooved tires only on all four corners of kart. D50 or D55 must be used on right rear. Other corners are optional. RR must durometer minimum of 50 Prior to race

Wing: Center panel 36" long 32" wide ... Right side panel 40" long x 14" wide ... Left panel 40" long x 20" wide (NO SHARP EDGES)

All dimensions are +/- 3" No cock pit adjustable wing sliders electric or manual