



# 2021 Rule Book

**Millbridge Speedway**

**6670 Mooresville Rd**

**Salisbury, NC 28147**

# Millbridge Speedway 2021 Classes

- Open
- Intermediate
- JR Wing
- Box Stock
- Beginner Box Stock
- 600cc Sprints

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[www.MillbridgeSpeedway.com](http://www.MillbridgeSpeedway.com)  
[www.Facebook.com/MillbridgeRacin](https://www.Facebook.com/MillbridgeRacin)

## **Disclaimer:**

Millbridge Speedway is a competitive race track which is intended to conduct and officiate in accordance with the rules herein. These rules provide a guideline for all to follow at each event. The rule book may be amended from time to time and special rules may be published throughout the year or at a particular event. By participating in an event at Millbridge Speedway or a separate Burnett Promotions event, all participants agree to comply with these rules and regulations.

NO EXPRESS OR IMPLIED WARRENTY OF SAFETY SHALL RESULT FROM PUBLICATION OF, OR COMPLIANCE WITH THESE RULES AND REGULATIONS. They are intended as a guideline to conduct the officiating of an event and are in no way a guarantee against injury or death of a participant, spectator or official.

The Series Director is permitted at any time to make a reasonable and/or appropriate amendment from any of the specifications herein or change any restrictions that, in his opinion, do not alter the minimum acceptable requirements. Any interpretation of these rules herein are left to the discretion of the series officials and their ruling is final.

Any visible equipment changes and/or performance enhancing changes to previously approved karts and/or equipment **MUST** be approved by track officials before competition. Millbridge Speedway officials reserves the right to determine the legality and use of any equipment that has not been approved prior to competition.

The Promoter reserves the right to alter, revise or adjust any and all penalties according to terms of circumstances or severity of the infraction.

**The Promoters decision is FINAL.**

Drivers and Parents of minors are responsible to read and understand the rules and regulations set forth in this rule book.

**YOU ARE RESPONSIBLE FOR THE SAFETY OF YOU AND YOUR KART.** It is ultimately the obligation of each participant to ensure their conduct and equipment complies with all the applicable rules, as they may be altered from time to time. The rules are in no way a guarantee against injury and/or death to participants, spectators, officials and/or others.

## **ALL KART CLASSES:**

### **A:**

1. All karts must be approved by race director prior to competition.
2. Tires must be kart type tire and approved by series official. 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. Must be a live rear axle.
11. Axles cannot be made out of any exotic materials. No Carbon or Titanium.

### **B:**

1. Working RaceCeivers are MANDATORY IN EVERY DIVISION. 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 must be mounted on the steering shaft support bar directly in front of the seat closest to the floor pan. (If mounted in the incorrect spot and a close finish is scored you will be put behind the other finisher)**



## **Weight**

1. All karts must meet the designated minimum weight in their perspective class.
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 wrote on it.
3. It is YOUR responsibility to make sure your kart meets the minimum weight each week per track scales.
4. The winner in each heat race will weigh and the top 5 in the features must weigh after the event.
5. If your kart is deemed to light after the heat race/qualifying you will have to start at the tail of the field in the next on track event. If your kart is deemed too light at the conclusion of the feature you will be DQ'ed and lose points for that night of racing. (Additional penalties or assessments may occur at the discretion of track officials).

## **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 is 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 DOT or SNELL approved, and must fit the drivers head correctly. Millbridge 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.
- I. Arm Restraints are Recommended in every class.
- 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 Millbridge 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 end of frame rail. (Bumper design must be approved by track management).

### **Entry Fees:**

- **All Classes will have a \$25 entry fee.**

### **Race Procedures:**

- A. The race will begin as soon as the racing surface is clear and the karts in in the proper starting position.
- B. Any driver/team who purposely try to hold up the start of the race will start from the rear of the field or will be parked.
- C. Any driver to visit the "Hot Pit" at any time during the event, even before the race begins after they were on the racing surface they will go to the tail of the field.
- D. During the **A main ONLY** drivers will be allowed 90 seconds in the hot pit 1 time only. IF you do not roll off the hot pit before the leader

takes the 1 to go signal you will not be allowed to enter the speedway until the next yellow flag.

- E. Only the caution cars will be given 90 seconds under that particular caution. Teams can pit during that time but will not be guaranteed time unless they were the cause of the caution.
- F. There will be NO guaranteed time in the work area with 5 or less laps to go in the feature.
- G. All classes will have 8 lap heat races and a 20-lap feature. (Beginner Box Stocks will run 8 lap heat and a 15-lap feature.)
- H. All starts and restarts must take place at a consistent speed.
- I. Both front row karts are responsible for an even and clean start. Consistent speed will be at the discretion of track officials.
- J. Initial starts will be at the striped line/cone on the wall in turn 4. The flag man starts the initial start and it will be at this point. Must be side by side at this point.
- K. Restarts will be between the striped cone in turn 3 and the striped tire in turn 4. The leader will dictate where they want to start from in this designated area.
- L. The field must remain single file on restarts and cannot pass until they pass the cone at the start/finish line. If someone jumps the leader on the restart the caution will come out and they will be docked 1 position. If the same kart jumps the start again they will be put to the rear of the field. (If another car is caught passing before the cone and a yellow does not come out they will be docked 1 position at the next yellow or the end of the race). Tower will radio to give the spot back and if you do not you will be penalized.
- M. If the race is not properly started the leader/front row will be docked a position/row. 2 attempts. This is at the track official's discretion. If the driver does not comply he will be put to the rear or parked.
- N. **Under no circumstances is any crew member, family member etc. allowed on the track during an event unless directed so by a track official. Result will either be a DQ or that said kart will restart at the tail of the field. This includes, Green flag, Yellow flag, or even Red Flag conditions.**
- O. If your kart is broke or stopped on the track DO NOT exit the kart until safety workers arrive (unless kart is on fire). If you exit the kart and approach a moving kart you will be parked or suspended. (This goes for crew members as well)

- P.** Only when the karts come to a complete stop after the races are over will anyone be allowed on the racing surface for victory lane celebrations etc. Failure to comply will result in a DQ.
- Q.** Any kart to stall and need assistance restarting will go to the rear. Track officials may make an exception. This is at the track official's discretion. (Does not apply to beginners or box stocks, IF a track official restarts the kart only. If a crew member enters the racing surface that kart will go to the rear.) Each kart gets 2 times for track workers to start the kart. If it happens a 3<sup>rd</sup> time kart will be parked for that event.
- R.** In the result of a Red Flag, karts will be stopped on the track. Once the incident is cleared, 1 crew member per kart will be allowed to enter the racing surface to start their kart. (Only when/IF directed to by series officials.) If any adjustments to the kart are seen that kart will go to the rear of the field.
- S.** During Green flag conditions no one is allowed to stand in the "Hot Pit" area or on the entrance or exit of the track. There will be designated areas to stand in during on track action.
- T.** NO one is allowed in the infield during the races at any time. Unless you are on a 4-wheeler.
- U.** 4 wheelers will not be allowed in the infield during Box Stock or Beginner Box Stock races except for track officials.
- V.** Wreckless driving will not be permitted. If you intentionally cause a wreck or wreck someone else under green or yellow you will be parked. Multiple offences will result in loss of points and suspension.
- W.** For any protest the team must finish inside the top 4 to protest. No finisher outside the top 4 will be allowed to protest. Each team is only allowed 2 protests per season. Engine protest fee will be \$250. \$200 goes to the team that wins the protest, \$50 goes to the tech man.
- X.** Protest fee for tires. \$250 PLUS have to purchase protestee a new tire if they are deemed LEGAL. Also, the Protester has to send off the same tire of his own to be sampled as well. If the team protested is LEGAL, they receive a new tire plus \$50. If they are ILLEGAL, the Protestee gets \$50 back.
- Y.** Previous race winners will not be able to start better than row 3. If they are slated to start on the inside row the previous race winner will start 5<sup>th</sup>. If they are slated to start on the outside row, they will start 6<sup>th</sup>. (If the



previous winner is not starting in the top 6<sup>th</sup> they will keep their original starting position.)

## Flags:

- 1. Green Flag.** When the green flag is displayed the track is open for racing. The Green flag signifies the start of any race or qualifying session. Passing is not permitted before the green flag is displayed at the designated point.
  - a. Double File Starts. The two lead karts must stay side by side, at Medium speed, until reaching the start area where the green flag is displayed. All starts are at the discretion of track officials and their call is final.
  - b. Single File Re Starts. Restarts will be single file and the lead car can start the race between the striped cone in turn 3 and the striped tire in turn 4. Must remain single file until the cone at the start/finish line and must go to the outside of the cone.
- 2. Yellow Flag. CAUTION.** When the Yellow flag comes out SLOW DOWN. We do NOT race back to the start/finish line. Stay in single file formation. Track officials will sort out the lineup via RaceCeiver. If you do not cooperate you will not get your spot.
- 3. Red Flag.** Stop as soon as safely possible. Do not drive through the accident scene. Failure to observe the Red will result in driver being parked.
  - a. NO ONE is allowed on the racetrack at this time! If a crew member, family member, etc comes on the racetrack, your kart will be sent to the rear of the field.
  - b. Only 4 wheelers are allowed onto the track when called for assistance.
  - c. Once the Red Flag is withdrawn Track Officials will ask for people to come start their karts. Only 1 person per kart may come out. If any more than that your kart will go to the rear.
- 4. Black Flag.** Proceed to pit area. Your kart is no longer being scored. This flag is a result of rough driving, loose or broken parts, etc... If your muffler falls off and we see it you will be black flagged. (Box Stock and Beginner ONLY).
  - a. If you get the curled black flag pointed at you this is a warning for rough driving and we will be watching you. Play Nice!!

5. **Blue with Yellow Stripe.** Hold your line. The leaders are coming to lap you. Please be courteous to them.
  6. **White Flag.** One more lap to the finish.
  7. **Checkered Flag.** The race is officially complete.
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1. Drivers who are involved in the cause of the caution/red will be put to the rear of the field. If you stop or your kart spins or faces the wrong way, or if you need assistance you will be put to rear. At track official's discretion.
  2. There will be a 3-spin rule. If you are **involved** in 3 cautions in any event, you will be parked. Official count is at the race director's discretion.
  3. No refunds will be issued once your kart reaches the track.

#### **Tech Area:**

1. ALL KARTS MUST BE STOPPED AND SHUT OFF before entering the tech building. If you drive through the building you will be DQ'ed
2. After the races are over only the driver and one crew member may be in the tech area to assist with their kart getting through the scales and tech area.
3. If an engine is in the shed being checked, only that person and 2 crew members of that kart will be allowed in the building. NO ONE ELSE IS ALLOWED IN THE TECH AREA AT THIS TIME.
4. The top 3 karts must remain in the tech area until cleared by tech official ONLY. If your kart leaves this area you will be DQ'ed.

#### **Unsportsmanlike Conduct:**

1. Fighting at Millbridge 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!

## **Points System:**

- 1. Points will be giving to everyone who signs up and enters in an event.**
- 2. Points will be awarded to the kart owner/number. You may have (2) substitute drivers throughout the year.**

### **Points structure for all feature races.**

1 <sup>st</sup> – 100	9 <sup>th</sup> – 74
2 <sup>nd</sup> – 95	10 <sup>th</sup> - 71
3 <sup>rd</sup> – 92	11 <sup>th</sup> - 68
4 <sup>th</sup> – 89	12 <sup>th</sup> - 65
5 <sup>th</sup> – 86	13 <sup>th</sup> - 62
6 <sup>th</sup> – 83	14 <sup>th</sup> - 59
7 <sup>th</sup> – 80	15 <sup>th</sup> - 56
8 <sup>th</sup> – 77	16 <sup>th</sup> – 53

Heat race winners will be awarded 2 points.

Fast time in all divisions will also be awarded 5 points.

All non-transfer karts will receive 50 points.

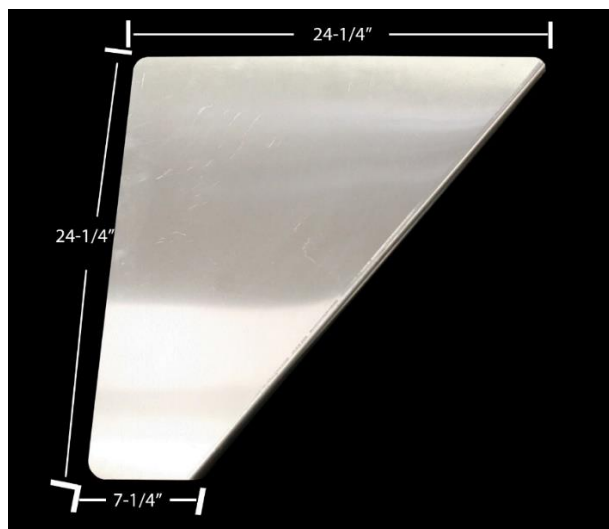
1. Any violation of technical rules or equipment shall result in the driver being disqualified. No points will be awarded.
2. Only Performance enhancing infractions will result in a 0. Safety or other DQ's will be subject to track official discretion. And/or 2<sup>nd</sup> time offences will be subject to a 0.
3. Any driver to be black flagged during an event will still receive last place points.
4. Any Box Stock or Beginner Box Stock to lose or break an exhaust pipe will be penalized and receive last place points.

## CLASS RULES:

### Open Division:

1. Motor: Dirt bike style production engine only, single cylinder, single carburetor
2. Minimum kart and driver weight for 2 strokes is 450 lbs based on the race tracks scales.
3. 4 strokes greater than 451 CC will need to weigh 475lbs. based on the race tracks scales.
4. 450cc (Stock Stroke, Stock Bore) 4 stroke karts will need to weigh 450lbs. based on the race tracks scales.
5. 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.
6. Raceceivers in working order are mandatory!
7. Hoosier Treaded tires mandatory.
8. No Methanol or Ethanol allowed.
9. No front wings or air directional devices allowed. Subject to track official discretion
10. No side panels or lips allowed on the hoods/noses.
11. *Right Side Sale Panels will be allowed ONLY on 2 stroke/450cc or below 4 stroke powered karts. Panel must be flat. No bows or lips. Front edge may be rolled for strength.*
  - a *Sail Panel must fit inside the template below. And must have a single straight edge on the front side.*

24-1/4"x24-1/4"x7-1/4"



12. No air deflection devices other than the top wing will be permitted. Subject to track official discretion.

13. 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)
14. 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
15. Floor Pans cannot extend beyond the beyond the frame rails and cannot extend past the rear seat mount on the frame.
16. All Body rules will be subject to track official discretion.
17. Opens will qualify in hot laps. There will be an invert 4 for each heat race. Heat 1 winner will draw an invert pill of 0, 4, 6. We will then reset the top 6 starters based on the redraw.
18. Previous Race winner has to start no better than 5<sup>th</sup> or 6<sup>th</sup>. Depending on which row they were to start in is where they will line up for the feature. (Invert first then move previous race winner to 5<sup>th</sup> or 6<sup>th</sup>.)

### **Intermediate Class**

1. 250F Engines must be stock stroke, stock bore.
2. 250F powered karts must weigh 415lbs based on the race track scales.
3. 250 two stroke engines must be stock stroke, stock bore.
4. 250 two stroke karts must weigh 430lbs based on the race track 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.
6. Karts must run Hoosier treaded tires.
7. **Hoosier D-50 ONLY on the Right Rear. No prep or any chemical allowed. Must run the same Right Rear Tire all night. (unless approved changed by track official)**
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 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 size: (20" high, Right board 40" long 14" high. Must be within +/- 2 inches) Measurements include any lip on the side panels. Only 1 bend is allowed. Lips cannot exceed 1 inch.) No more than 1" of dish in the center section. Only 1/2" wicker allowed on center section. Center section 32" x 35" +/- 2 inches (Goes into effect in March 2021)
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. Track officials may make an exception. Driver must be approved in advance to compete.
16. RaceCeivers are MANDATORY.
17. If more than 12 karts, there will be hot lap/qualifying. Top 4 in each heat will be inverted.
18. Previous Race winner has to start no better than 5<sup>th</sup> or 6<sup>th</sup>. Depending on which row they were to start in is where they will line up for the feature.

## **JR Wing Division:**

**This Rules Package Is Based On The 2021 Briggs & Stratton 206 Engine Platform  
Below Is The Only Allowed Changes From Those Rules**

### 1) Carburetor

- a. The Carburetor Will Be Converted To Run On Methanol
- b. Modifications Listed Below Are The Only Allowed Changes And Parts will Be Compared To A Know Stock Part
  - Main Jet Hole Size Is Not A Tech Item But Main Jet Must Originate From Stock Main Jet
  - Low Speed Jet Hole Size Is Not A Tech Item But Low Speed Jet Must Originate From Stock Low Speed Jet
  - Main Fuel Nozzle Through Hole Is Non-Tech With No Other Modifications To The Nozzle
  - There Are Two Methanol Needle Jets Available From Briggs & Stratton And One Of The Two Must Be Used Without Modifications
    1. PT# 555649 (DID)
    2. PT# 555691 (BHA)

### 2) Fuel

- a. Must run unaltered methanol purchased from Checkered Flag Racing Products each race.

### 3) Air Filter

- a. Any Air Filter Permitted
- b. Air Filter Must Mount Directly To Carburetor
- c. Filter May Not Be Used As An Air Ram And Must Filter From All Areas As Raced
- d. Any Open Areas In Filter Must Be Covered With Filter Sock

### 4) Cylinder Head

- a. Modifications Listed Below Are The only Allowed Changes All Other Dimensions And 206 Rules Will Apply
- b. The Cylinder Head Gasket Surface Can Be Machined
- c. There Will NO longer Be A Overall Minimum Head Thickness Check Only A Combustion Chamber Minimum Depth Of .300 Inches Minimum
- d. Any Single Or Dual Valve Spring Allowed
- e. Any Aluminum Or Steel Retainers Allowed No Titanium Retainers Allowed

### 5) Head Gasket

- a. Cometic H3590040S MLS Head Gasket (BSA-304-40 Dyno Cams Number) Must Be Used With No Gasket Sealer To Be Used

### 6) Flywheel\Ignition System

- a. Stock Unaltered Flywheel With Stock Unaltered Plastic Flywheel Fins
- b. Offset Key Or No Flywheel Key Is Optional There Will Be No Ignition Timing Rule
- c. Ignition Coil Will Be Changed To Briggs PT# 557125 "Red" 7100 RPM Coil

### 7) Engine Block And Piston

- a. Crankcase Seals Will Be Removed And No Longer A Tech Item
- b. Block Deck Surface May Be Machined And Piston Pop-up Cannot Exceed .035" Above The Deck Surface. When Measuring Piston Pop-up use a .500" Square Bar Stock On Parallel With Wrist Pin And Use Dial Indicator To Check Pop-up In Center Of Bar
- c. Piston Will Be Changed To Briggs World Formula Piston And Must Remain As Supplied From Factory. Two Sizes Will Be Approved For Use
  - PT# 557121 Std. Bore
  - PT# 557122 +.010 Over Bore
- d. Max Bore Will Be 2.705 For Wear
- e. Factory Briggs Rings Must Be Used
  - Three Rings Are Mandatory And Installed Correctly
  - Rings Must Be Self Supporting In The Bore Of The Engine In Tech
  - No Machining Of Rings Allowed With The Exception Of Lapping And End Gapping Maximum Ring Gap .050
  - Rings Must Be In One Piece When Removed From Engine
  - Minimum Width Top Two Rings .095

- Thickness Of Top Two Rings .059-.064
- Oil Ring Minimum Width .065 Ring Groove Must Be Present Expander Ring Must Be Installed But Can Be Trimmed In Overall Length

8) Connecting Rod

- a. Connecting Rod Must Be Changed To ARC-6249 Billet Rod As Supplied By ARC And Will Be Compared To Know Stock Part From ARC

9) Camshaft

- a. Camshaft Must Be Changed To Dyno Cams AN-Mod1-WC-CR And This Is The Only Cam Allowed
- Max Lift At The Cam Is .310
  - Max Lift At The Valve Is .310
  - Max Duration At .050 Is 248 Degrees Checked At Valve With 0 Lash
  - Max Duration At .200 Is 153 Degrees Checked At Valve With 0 Lash
  - Compression Relief Should Be Left In Stock Form As These Engines Will Still Be Pull Started Like Current 206 Engines

10) Crankshaft

- a. Aftermarket Billet Non-Adjustable Crank Gear Dyno Cams Number DC-1346 Is Allowed To Be Installed In Stock Location On The Crankshaft

11) Exhaust System

- a. The Same RLV 5530 Header Will Be Used But The Muffler And Muffler Clamp Will Be Removed. The Pipe Will Just Be Open On The End No Muffler System.

1. Age Limit for this class will be 10 to 16.
2. **Minimum weight 350lbs** measured on track scales.
3. Must run a shoe type clutch.
4. Right Side sail panels are not allowed. Left Side sail panels are allowed but cannot extend beyond the rear cage
5. Spec tire: Hoosier Treaded D30. Must be bought from track and kept in impound. Right Rear 11.5x8, Left Rear and Right Front 11x6.5, Left Front 11x5.5.
6. No heating of the tires or use of a torch on the tires at any time.
7. No siping or grooving tires. No alterations to tires or chemicals allowed.
8. Tires will be kept in impound. Cleaning of the tires after the feature **ONLY** at our sink with our cleaner. If caught with illegal tires driver and owner will be DQ'ed and suspended for 1 event with \$500 fine and 4



new tires must be purchased. 2<sup>nd</sup> offence will result in a 1-year suspension and a \$1000 fine and tires destroyed. **3<sup>rd</sup> offence driver and owner will be banned.**

9. Must run a box stock size wing (center 32" x 35" Left board 40" long 20" high, Right board 40" long 14" high. Must be within +/- 2 inches) Measurements include any lip on the side panels. Only 1 bend is allowed. Lips cannot exceed 1 inch. Flat panel wing only. No airfoil
10. Must utilize a sprint car style rear bumper. No square flat kart style bumpers allowed. Must extend back a minimum of 7" from end of frame rail. (Bumper design must be approved by track management).
11. Maximum height for side pods are 12", Maximum width is 8.5"  
All side pods must be at least one inch away from EVERY component of the motor! Includes air filter!
12. All body work is subject to approval by track
13. Working Racecievers are mandatory!
14. All karts must stop in impound after the races. The top 5 must scale after the feature. If you leave the impound area before you are told by a track official it will result in last place points.
15. **Tires must be mounted at the tech shed.** No tire should ever be dismounted or mounted anywhere other than the tech shed. If caught you will be DQ'ed and must purchase a new set of tires.
16. **Only 4 tires will be checked out at any given time.** If you need to change one out or have a flat bring back the tire you need exchanged.
17. **A support from the head to the exhaust pipe to ensure if the pipe breaks it stays attached to the kart.**
18. Safety tech items if discovered after the races will still be a DQ but you will receive last place points. **But ONLY on your first offence.** If you are caught for the same offence twice. (Example: header bolts not double nutted or safety wired, no over flow tank, etc.) You will be DQ'ed and will have to take the "0".
17. ALL performance enhancing infractions will result in a DQ and you will NOT be allowed to drop these. (Example: Illegal Fuel, altered restrictor plate, too lite on scales or anything else that is in the rule book that we feel is "performance enhancing") **Tire infractions will result in a DQ, 1 race suspension and loss of use for ALL tires in impound.**
18. If more than 12 karts, there will be hot lap/qualifying. Top 4 in each heat will be inverted.

- 19.** Previous Race winner has to start no better than 5<sup>th</sup> or 6<sup>th</sup>.  
Depending on which row they were to start in is where they will line up for the feature.

### **Box Stock Division:**

- 1.** Box Stocks will run Briggs LO206 engine for 2020. All engine rules are listed on [www.Briggsracing.com](http://www.Briggsracing.com) The only change will be the spec exhaust pipe which is listed below.
- 2.** LO206 engines must run an unaltered RLV 5530 exhaust pipe with unaltered RLV B91XL Muffler.
- 3.** Age Limit for this class will be from 8 years old to 13 years old. If the driver is at age 14 before the first race of the season you must move up. Drivers younger than 8 years old may race with the advance approval of track officials.
- 4.** **Minimum weight 325lbs** measured on track scales.
- 5.** Must run a shoe type clutch.
- 6.** Right Side sail panels are not allowed. Left Side sail panels are allowed but cannot extend beyond the rear cage
- 7.** Maximum height for side pods are 12", Maximum width is 8.5"
- 8.** All side pods must be at least one inch away from EVERY component of the motor! Includes air filter!
- 9.** Spec tire Hoosier D20 Slick Tire. Tires must be purchased from Millbridge Speedway only. Absolutely no prep or any chemicals allowed on the tires at any time. No Alterations of the tire allowed.
- 10.** Front tires must be Hoosier D20 11x6.0-6, Right rear must be D20 11x8.0-6, Left Rear has the option to use either the 11x6.0-6 or 11x8.0-6.
- 11.** No heating of the tires or use of a torch on the tires at any time.
- 12.** No grinding, sanding, or using wire brushes on tires.
- 13.** Tires will be kept in impound. Cleaning of the tires after the feature ONLY at our sink with our cleaner. If caught with illegal tires driver and owner will be DQ'ed and suspended for 1 event with \$500 fine and 4 new tires must be purchased. 2<sup>nd</sup> offence will result in a 1-year suspension and a \$1000 fine and tires destroyed. **3<sup>rd</sup> offence driver and owner will be banned.**
- 14.** Must run a box stock size wing (center 32" x 35" Left board 40" long 20" high, Right board 40" long 14" high. Must be within +/- 2 inches) Measurements include any lip on the side panels. Only 1 bend is allowed. Lips cannot exceed 1 inch.

13. Working Raceceivers are mandatory!
14. Box Stocks must run 87 octane pump gas from the Raja Mart located at 3610 Mooresville Road. (2 miles from the track towards Salisbury) only. No additives allowed. Fuel will be checked at each event. First time caught with illegal fuel will result in a DQ for the event. 2<sup>nd</sup> offence will result in a 1-week suspension and a \$100 fine.
15. All karts must stop in impound after the races. The top 5 must scale after the feature. If you leave the impound area before you are told by a track official it will result in last place points.
16. **Tires must be mounted at the tech shed.** No tire should ever be dismounted or mounted anywhere other than the tech shed. If caught you will be DQ'ed and must purchase a new set of tires.
20. **Only 4 tires will be checked out at any given time.** If you need to change one out or have a flat bring back the tire you need exchanged.
21. **If your pipe/muffler falls off you will be black flagged and given last place points. If it is broken, loose, cracked, missing etc. after the races you will also be DQ'ed and given last place points.**
22. **If the muffler is drilled out or altered in any way it will result in a DQ with NO points awarded.**
23. **A support from the head to the exhaust pipe to ensure if the pipe breaks it stays attached to the kart.**
24. Must utilize a sprint car style rear bumper. No square flat kart style bumpers allowed. Must extend back a minimum of 7" from end of frame rail. (Bumper design must be approved by track management).
25. Safety tech items if discovered after the races will still be a DQ but you will receive last place points. **But ONLY on your first offence.** If you are caught for the same offence twice. (Example: header bolts not double nutted or safety wired, no over flow tank, etc.) You will be DQ'ed and will have to take the "0".
26. ALL performance enhancing infractions will result in a DQ and you will NOT be allowed to drop these. (Example: Illegal Fuel, altered restrictor plate, too lite on scales or anything else that is in the rule book that we feel is "performance enhancing") **Tire infractions will result in a DQ, 1 race suspension and loss of use for ALL tires in impound.**
27. If more than 12 karts, there will be hot lap/qualifying. Top 4 in each heat will be inverted.

- 28.** Previous Race winner has to start no better than 5<sup>th</sup> or 6<sup>th</sup>.  
Depending on which row they were to start in is where they will line up for the feature.

### **Beginner Box Stock Division:**

- 1.** ALL beginner Box Stock drivers will need to know all of the race procedure rules prior to starting. Also prior to their first race they will need to know what every flag means. If they do not know this they will not be allowed to race.
- 2. Beginner Box Stocks will run Briggs LO206 engine for 2020. All engine rules are listed on [www.Briggsracing.com](http://www.Briggsracing.com) The only change will be the spec exhaust pipe which is listed below.**
- 3. LO206 engines must run an unaltered RLV 5530 exhaust pipe with an unaltered RLV B91XL Muffler.**
- 4.** Age Limit for this class will be from 5 years old to 9 years old. If you are at age 10 before the first race date of the season you must move up to the Box Stock class. Track officials may make exceptions to this rule. **(Birth Certificates will be mandatory at their first race of each season.)**
- 5.** There will be a minimum speed rule TBD at each race. Any driver not to meet the minimum speed will be warned. If their speed is not increased to meet the minimum speed they will be parked for that particular race. (If the driver can keep the kart on the bottom of the track and keep a good safe pace and a steady line track official may make an exception)
- 6.** Drivers that have competed in ANY Box Stock division race are not allowed to compete in the beginner class.
- 7. Minimum weight 285lbs** measured on track scales.
- 8.** Must use Green Slide unaltered with slide lock.
- 9.** Must run a shoe type clutch.
- 10.** Right Side sail panels are not allowed. Left Side sail panels are allowed but cannot extend beyond the rear cage
- 11.** Maximum height for side pods are 12", Maximum width is 8.5"
- 12.** All side pods must be at least one inch away from EVERY component of the motor! Includes air filter!

- 13.** Spec tire Hoosier D20 Slick Tire. Tires must be purchased from Millbridge Speedway only. Absolutely no prep or any chemicals allowed on the tires at any time. No Alterations of the tire allowed.
- 14.** Front tires must be Hoosier D20 11x6.0-6, Right rear must be D20 11x8.0-6, Left Rear has the option to use either the 11x6.0-6 or 11x8.0-6.
- 15.** No heating of the tires or use of a torch on the tires at any time.
- 16.** No grinding, sanding, or using wire brushes on tires. Tires will be kept in impound. Cleaning of the tires after the feature ONLY at our sink with water only. If caught with illegal tires driver and owner will be DQ'ed and suspended for 1 event with \$500 fine and 4 new tires must be purchased. 2<sup>nd</sup> offence will result in a 1-year suspension and a \$1000 fine and tires destroyed. **3<sup>rd</sup> offence driver and owner will be banned.**
- 17.** Must run a box stock wing (center 32" x 35" Left board 40" long 20" high, Right board 40" long 14" high. Must be within +/- 2 inches) Measurements include any lip on the side panels. Only 1 bend is allowed. Lips cannot exceed 1 inch.
- 18.** Working Racievers are mandatory!
- 19.** Must run 87 octane pump gas only from the Raja Mart located at 3610 Mooresville Road. (2 miles from the track towards Salisbury). No additives allowed. Fuel will be checked at each event. First time caught with illegal fuel will result in a DQ for the event. 2<sup>nd</sup> offence will result in a 1-week suspension and a \$100 fine.
- 20.** All karts must stop in impound after the races. The top 5 must scale after the feature. If you leave the impound area before you are told by a track official it will result in last place points. **Tires must be mounted at the tech shed.** No tire should ever be dismounted or mounted anywhere other than the tech shed. If caught you will be DQ'ed and must purchase a new set of tires.
- 21. Only 4 tires will be checked out at any given time.** If you need to change one out or have a flat bring back the tire you need exchanged.
- 22. Impounded tires will NOT be checked out during open practice or track rentals.**
- 23.** If your pipe/muffler falls off you will be black flagged and given last place points. If it is broken, loose, cracked, missing etc. after the races you will also be DQ'ed BUT given last place points.
- 24.** If the muffler is drilled out or altered in any way it will result in a DQ with NO points awarded.

- 25.** A support from the head to the exhaust pipe to ensure if the pipe breaks it stays attached to the kart.
- 26.** Safety tech items if discovered after the races will still be a DQ but you will receive last place points. **But ONLY on your first offence.** If you are caught for the same offence twice. (Example: header bolts not double nutted or safety wired, no over flow tank, etc.) You will be DQ'ed and will have to take the "0".
- 27.** ALL performance enhancing infractions will result in a DQ and you will NOT be allowed to drop these. (Example: Illegal Fuel, altered restrictor plate, too lite on scales or anything else that is in the rule book that we feel is "performance enhancing") **Tire infractions will result in a DQ, 1 race suspension and loss of use for ALL tires in impound.**
- 28.** If more than 12 karts, there will be hot lap/qualifying. Top 4 in each heat will be inverted.
- 29.** Previous Race winner has to start no better than 5<sup>th</sup> or 6<sup>th</sup>. Depending on which row they were to start in is where they will line up for the feature.

## **600cc Micro:**

### **1) Terms and conditions**

- a)** If a change or modification to the stock engine or its parts is not included in these rules then the modification is considered legal.
- b)** The word "stock" means un-modified factory original parts or components.
- c)** No mixing engine parts from other motorcycle manufacturers. For example: Only Yamaha parts can be used in a Yamaha engine.  
The case determines the model year and that is what determines the stock bore & stroke for that engine.

### **2) Overall Engine**

- a)** No limited production race motors allowed. Must be a production motorcycle engine, 4 cylinders 4 stroke.
- b)** No titanium anywhere in or on the engine, unless it comes stock form manufacturer of engine on the production bike or used as bolts in aftermarket rods.
- c)** Must have engine, clutch, and transmission all in one unit.
- d)** Must be Chain Drive.

### **3) Bore and stroke**

- a)** 600cc Maximum displacement for an engine model that was new in 2006 or newer. Older engines maximum displacement is 637cc. Engine model is defined as a manufacturer redesign of overall engine. See Specification list.
- b)** No strokers or de-stroked engines.

### **4) Head and cams**

- a)** NO PORTING or deporting of intake or exhaust runners.
  - i)** Valve jobs, valve grinding, valve seating, valve seal modification and valve seat cutting are allowed.
  - ii)** Valve seat inserts may be reworked or replaced with any seat of original dimensions. Any dimensional thickness of the stock inserts may not be increased. Valve seats can be ground with multiple angles. Blending

of the valve seat into the head is permitted but cannot extend more than ¼" into the aluminum head measured from where the seat meets the head.

- b) OEM Head only.
- c) Valves cannot be larger in diameter than factory stock valves.

## 5) Bottom End

- a) No machining to remove weight from the crank (balancing of crank is ok) (no after-market cranks) (no lightweight cranks) No polishing or coatings of any kind.
- b) No aluminum connecting rods.
- c) No dry sump systems are allowed unless it comes from the motorcycle manufacturer as original equipment.

## 6) Clutch/Transmission

- a) No removal of clutch.
- b) Clutch must remain operational.
- c) No modification to the stock transmission gears, no close-ratio gears or nonstandard gear-ratios. All gears must remain in transmission, no removing any gears. No polishing or coatings of any kind.

## 7) Ignition

- a) No aftermarket ECU's, stock appearing ECU only. ECU must be a production ECU that was originally supplied by the same manufacturer as the engine. Racing ECU's may be used, as long as they were originally supplied by the same manufacturer as the engine. Ex: Honda motorcycle engines must run ECU's that were supplied by Honda on their motorcycle engines. Re-flashing of ECU and factory race ECU's are allowed. Rev limit for all 600cc (nothing larger than 600cc) engines is 16,100 rpms. Rev limit for all 636cc engines is 14, 800 rpms. U6SA specified Rev Limit must remain intact at all times (no switched or gear specific limiters). If a computer is hooked up to check the ECU it must be set to U6SA specified rpm's, no tolerance. See specifications list for RPM limits.
- b) All cars must have the PA standard connector for the track to check engine rpm rev limit. These are available from the chassis manufactures and engine builders, and at the track. All cars must leave intact the rpm wire coming from the ECU.
- c) No aftermarket coils.
- d) No gear position sensor may be used. The sensor may be in place on the engine, but can not have any wires connected to it. Gear position wire from ECU may not be switchable.
- e) No traction control device.
- f) No more than one ECU box present in or on car.
- g) A 50 rpm over rev tolerance for the purpose of tech inspection is acceptable. (Note: this does not mean you can turn up the rpms in any ECU by any amount).
- h) Switchable wires for changing ignition maps, fuel maps, or rev limits must be contained and secured in the wiring harness. (the wires must be taped up, not visible, and unable to be switched in any way).

## 8) Air Induction system

- a) No mechanically forced induction (turbo charging, supercharging).
- b) Any carburetors may be used on any engine, regardless of year of engine.
- i) Note: Switching to carburetors on engines that came with fuel injection usually increases the rev limiter due to the removal of the injectors as the ECU cuts fuel to limit rpm's before it cuts the ignition. A reflash of the ECU will be required if using carburetors in order to comply with the rev limit rule 7. a)
- c) If the engine did not come from the factory with fuel injection, fuel injection may not be used.

## 9) Exhaust

- a) A muffler must be used with the exhaust system that will keep noise levels within individual track limits.

## 10) Charging system

- a) No removing the charging system, it must remain in complete working order, no factory racing charging systems.

### **11)Self Starting**

- a) The engine must self-start at the beginning of the event. If it does not self-start, the car may be pushed off and must start at the rear of the event as the penalty.

### **12)Fuel**

- a) No fuels other than alcohol, gasoline, and/or top lube. Non flammable top lube only, no exotic fuel additives, no oxidizers, no fuel enhancer top lube.
- b) Fuel tanks must contain a bladder. A fuel tank with a bladder is further defined as a plastic outer shell with a rubber inner container.

### **13)Minimum weight**

- a) Minimum weight at all times is 800 pounds for winged classes and 775 pounds for wingless classes, car and driver. If weight is added it must be firmly bolted in place.

### **14)Wings**

- a) Top wing must be a single airfoil design (maximum 12 square feet). Wing panels cannot exceed the width of the tires. Maximum side panel height 24". Side panels must be parallel and may not obstruct the vision of the driver.