

Beaver Dam Raceway Karts 2010

2010 Beaver Dam Raceway Park Karts

1.1 DEFINITIONS

Terms which appear throughout this Rule Book have the following meanings:

Raceway Park

The name of “Beaver Dam Raceway Park”.

Raceway Park Rules

The rules in this Rule Book, as amended from time to time.

Raceway Park Officials

General Manager, Director of Competition, Race-day Coordinator, Scorers, Flagman, Pit Stewards, or any persons serving under the direction of Raceway Park including track management and owners.

Raceway Park Technical Officials

Raceway Park official responsible for determining whether a kart meets applicable specifications.

Event

A Raceway Park sponsored event, which includes: registration; inspection; practice; qualifying; and races.

Raceway Park Events also include: awards banquet; shows; and any activity in which Raceway Park is a sponsor or supporter.

Competitor

A driver, kart owner, crew member, or other person who participates in a Raceway Park Event.

Major Infraction

Major infractions include: use of traction control; violation of cubic inch displacement, compression limit, using non-approved cylinder block, crankshaft, connecting rods, valves, valve lifters, rocker arms, cylinder heads, intake manifold, carburetor spacer or restrictor; carburetor, fuel; non-approved tires & wheels; non-approved frame & steering components; non-approved brake components; non-approved clutch & transmissions; non-approved rear axles; failure to tear down kart for inspection when requested; failure to surrender to Raceway Park any part and/or equipment found during an inspection that does not meet Raceway Park specifications; harassment, verbal abuse, or assault to any Raceway Park Official, Technical Official, or any persons serving under the direction of Raceway Park.

Minor Infraction

An infraction that is not a Major Infraction.

Illegal Drugs

Illegal drugs are those substances or drug substances defined and prohibited by state and/or federal laws.

1.2 EFFECTIVE DATE

The Raceway Park Rules are effective on the date of adoption by Raceway Park, regardless of when published. Once adopted, the Raceway Park Rules are in effect until the end of the competition season.

1.3 AMENDMENTS

The Raceway Park Rules may only be amended by publication of a bulletin by Raceway Park. An amendment is effective on the date of publication by Raceway Park, regardless of when received by a Competitor.

1.4 APPLICABILITY

The Raceway Park Rules are applicable to all events sponsored by Raceway Park at Raceway Park .

The 2010 Raceway Park Rules supersede all previous rules as of the Effective Date, unless previously allowed items are otherwise approved in writing by the Raceway Park Officials. Items previously approved must remain within the spirit of these rules. Items not addressed in previous rules will be considered illegal.

1.5 INTERPRETATION and APPLICATION

Raceway Park Rules are intended to ensure that Raceway Park sponsored Events are conducted in a manner that is as fair as possible for all Competitors.

If there is a dispute regarding the interpretation or application of Raceway Park Rules, the decision by Raceway Park Officials and Technical Officials, at the Event, is final.

Raceway Park Officials may make minor corrections, adjustments, and accommodations in the spirit of the rules interpretation and application to ensure fair competition.

1.6 FINALITY of INTERPRETATION and APPLICATION

The interpretation and application of the Raceway Park Rules by the Raceway Park Officials at the track are final. ALL RACEWAY PARK COMPETITORS EXPRESSLY AGREE THAT DETERMINATIONS BY RACEWAY PARK OFFICIALS AS TO THE INTERPRETATION AND APPLICATION OF THE RACEWAY PARK RULES ARE NON-LITIGABLE, AND THAT THEY WILL NOT INITIATE OR MAINTAIN ANY KIND OF LITIGATION AGAINST RACEWAY PARK OR ANYONE ACTING ON BEHALF OF RACEWAY PARK, TO REVERSE OR MODIFY DETERMINATIONS, OR TO RECOVER DAMAGES, OR TO SEEK ANY OTHER KIND OF RELIEF. A RACEWAY PARK COMPETITOR WHO INITIATES OR MAINTAINS LITIGATION AGREES TO REIMBURSE RACEWAY PARK FOR ALL COSTS OF LITIGATION, INCLUDING ATTORNEY'S FEES.

1.7 COMPETITOR REQUIREMENTS

1.7.1 Eligibility

Any individual is entitled to participate in a Raceway Park Event provided that the individual has signed all required forms, waivers, & releases, and paid the required fee(s). Any individual participating as a Competitor agrees to abide by Raceway Park Rules as described herein.

A Competitor must participate in at least 75 percent of the scheduled Events, and display participating sponsor's emblems, or decals, to be eligible for any end of season awards.

To enter the pit area of a Raceway Park Event, there is no minimum age. Minors under 18 must have an insurance waiver signed by a parent(s) or legal guardian(s).

To compete in a Raceway Park Event a Competitor must be at least 5 years of age. Age is determined

as of Jan. 1, 2010 for class placement. If the driver's birthday is after June 30 2010, they may be required to move up in class. The track staff will make this determination. Competitors under 18 and entered in competition must meet the approval of the track staff. They may be required to start in the rear of any events for an unspecified period of time to be evaluated by the track staff. Competitors under 18 must have a notarized insurance waiver signed by a parent(s) or legal guardian(s). Competitors must meet the specific age requirements of the division that they compete in. The track staff and management reserves the right to move competitors to divisions that are best suited to their individual skill level.

1.7.2 Independent Contractor Status

All Competitors are considered independent contractors and not representatives, or employees of Raceway Park. A Raceway Park Official who participates in an Event is considered a Competitor while on the racetrack. The Competitor is responsible for compensation of, and for all actions of, their employees or representatives. The Competitor is responsible for reporting and paying all fees, expenses, or taxes, if any, on any funds received as a result of activities as a Competitor.

1.8 SAFETY

Racing is an inherently dangerous sport. Each Competitor assumes the risk of injury or death when he/she participates in an Event. Competitors are solely, and directly, responsible for the safety of their race karts and racing equipment. **RACEWAY PARK IS NOT RESPONSIBLE FOR THE ADEQUACY OF A COMPETITORS KART OR RACING EQUIPMENT. NO EXPRESS, OR IMPLIED, WARRANTY SHALL RESULT FROM THE PUBLICATION OF, OR COMPLIANCE, WITH THESE RULES.** These rules govern the conduct of an Event, and, by participating, Competitors are deemed to be in compliance with these rules.

All ATV's and other power driven vehicles used in the pit area must be registered with Raceway Park and have proof of insurance. Raceway park officials must approve any use of these vehicles prior to their use. This type of vehicle is only permitted for handicap accessibility or other extenuating circumstances. Bicycles and motorcycles are prohibited from the pit area. Raceway Park uses a cold pit area for the kart events. No karts are to be driven under power in the pit area. They must be pushed or carried to the staging area, and from the post race shut down area to your pit. Any karts that have their engine running in the pit must be on a stand, and have a crew-member continuously apply the brake. Karts that are on stands may not be occupied. Consumption of alcoholic beverages is not permitted in the pit area during an event.

Any individual riding a bicycle, scooter, or moped in the pit area will be suspended from entering the pits or competing in Raceway Park Events for a period determined by Raceway Park Officials.

Proper footwear required in the pit area. No unapproved cameras or recording devices permitted in the karts.

1.9 DRUG POLICY

1.9.1 General Prohibition

Possession or use of illegal drugs or drug substances, as defined above, is prohibited in any form, by any Competitor, at a Raceway Park Event, either on the racetrack grounds or in any area used in the

operation of the racetrack, such as parking lots or leased properties.

Any Competitor found in the possession of, or under the influence of, any illegal drug, or drug substances, on the race track grounds, is subject to disciplinary action. Penalties will be imposed in accordance with SECTION 4 - PENALTIES.

1.9.2 Prescription Drugs

If a Competitor is using prescription drugs on the advice of a physician, their use must be reported to the Competition Director prior to the entry into any race activities. Failure of a Competitor to notify of prescription drug use is subject to disciplinary action.

SECTION - 2

TRACK PROCEDURES

2.1 GENERAL

2.1.1 Race Decisions

All decisions by Raceway Park Officials involving track procedures are final, and non-appeal able.

2.1.2 Rain Outs

Raceway Park Officials will make the decision to determine if the Event will be postponed.

In the event of a rain out prior to the opening of the pit gate, information can be obtained by calling the racetrack, or checking the track website. . The track phone number for “Beaver Dam Raceway Park” is 1-(920) 887-1600. The Website is www.wismotorsports.net

In the event of a rain out after the pit gates are open, all qualifying races and B Main races must be completed in order to receive points. Completed races will receive full points. Uncompleted A Main races will receive total points for the race, divided equally among the race karts registered.

Rains out passes(wrist band pit pass), if issued, are good only for the next two (2) scheduled Events at the track where the rain-out occurred.

2.1.3 Weigh In

All drivers are encouraged to weigh their kart, prior to racing. Any kart under the allowable weight is subject to disciplinary action. Penalties will be imposed in accordance with SECTION 4 - PENALTIES. Random weight checks may be conducted at any time. Weights will be determined by the track scale, which is considered official.

The top five race finishers in all divisions, or as designated, must report to the Inspection Area immediately after the race.

2.1.4 Order of Events

The order of events is as follows:

4:00 PM Pit Gates Open

5:30 PM – 6:00 PM Drivers Sign In
6:00 PM – 6:45 PM Hot Laps- as determined by the race director
6:45 PM- 6:55 Drivers Meeting
6:55 PM National Anthem
7:00 PM Racing Begins
10:30PM Curfew

The race order of events will be as posted on the line up board.

The order of events is subject to change at the discretion of Raceway Park Officials. Event order changes will be posted during the race.

2.1.6 Drivers Meeting

All drivers, or a representative from each kart, must attend the drivers meeting. Attendance may be taken. If the driver, or car representative, is not present, the kart will start all events in the rear that the kart qualified for. Each kart will be exempt from this rule its first night at the track to accommodate newcomers.

2.1.7 Race Track Track entry is from turn two when directed by the steward. Entry is not permitted unless directed by the pit steward. Track exit is off the back straight. Failure to exit when directed by infield observer is not permitted. The cones define the inside of the race course. Driving below or hitting the cones is not permitted. A two position penalty per cone or position advanced, may be accessed. This will be at the next caution or the completion of the event. Hitting three cones in an event will be an automatic disqualification from that event.

2.1.7.1 Qualifying Races

A two heat qualifying system will be used. Qualifying races will be lined up according to the starting position drawn by the driver, for the first Event only. After the first Event, qualifying races will be lined up according to average Raceway Park driver points, with the lowest point average drivers to the front and the highest point average drivers to the rear for the first round of heats. The second round of heats will be an invert of the finish of the first heat. The combined total of both heats will be used in setting the invert cars for the feature. Drivers without Raceway Park points will be placed in the last row. Divisions not meeting the required minimum number of karts may be combined at the discretion of the competition director.

Qualifying events may be combined to meet time requirements.

Any division that does not meet the requirement of registered karts may not run the standard qualifying races, at the discretion of the Competition Director. Divisions may be combined for a single A Main race only, according to draw or points, with an invert of eight (8) positions. The remainder of the A Main race will be lined up straight up.

2.1.7.2 B Main and A Main Race

If there are three (3) qualifying races, the top five (5) cars from the qualifying race point totals, and the B Main race, will transfer to the A Main race. If there are four (4) qualifying races, the top four (4) karts from the qualifying race point totals, and the B Main race, will transfer to the A Main race. If there are more than four qualifying races and one B Main race, the number of karts transferring to the A Main race will be determined by the Raceway Park Officials.

B Main races will be lined up straight up from the qualifying race point totals with the highest finishing non-qualifying drivers to the front.

A Main races will be lined up according to Raceway Park point's standings, with the field partially inverted. When one qualifying race is run, the top 10 (10) positions, in the A Main race, will be inverted. When two, or five qualifying races are run, the top six (6) positions, in the A Main race, will be inverted. When three, four or six qualifying races are run, the top twelve (12) positions, in the A Main race, will be inverted. The remainder of the A Main race will be lined up straight up. Drivers without Raceway Park points, that finish on an invert eligible position will be placed in the last invert position.

B Main race drivers transferring to the A Main race will be placed straight up behind the qualifying race drivers.

Divisions that do not meet the required number of registered karts, at the discretion of the Competition Director, will compete in an A Main race only, according to the following predetermined car and lap configuration:

Sixteen (16) to twenty (20) registered karts Fifteen (15) Lap A Main

Eleven (11) to Fifteen (15) registered karts Twelve (12) Lap A Main

Ten (10), or less, registered karts Ten (10) Lap A Main.

This configuration will be determined at the required deadline time of registration.

2.1.8 Race Lineup

All karts must be lined up in the staging area in the proper position, when the crossed flags (1/2 way) are displayed for the race prior to your event. Karts entering the staging area or race field after the crossed flags (1/2 way) are displayed, must start the race at the rear in the order they join the field. Exceptions will be made for drivers competing in more than one division per night, or a Competitor who notifies a pit steward of extenuating circumstances.

2.1.9 Race Length

All qualifying, B Main and A Main races subject to a time limit of one (1) minute per scheduled lap. If the race is not completed within the allotted time, the pink Time Limit flag may be displayed. The competition director may adjust race lengths or race times to accommodate curfew requirements.

Any single driver spinning out unassisted, or intentionally and causing one (1) yellow flag in a qualifying race, or two (2) yellow flags, or intentionally causing one yellow flag in the B Main or A Main race, will receive a disciplinary black flag. This does not apply to a driver that spins out to avoid a wreck. A driver that spins out to avoid a wreck and does not make contact with the wall or any other vehicle may receive their position back. The determination of whether a driver spins to avoid a wreck is a judgment call by the flagman, which is final.

If slowing down and preparing to exit the track: move to the outside lane and exit off turn 3. Drivers are required to signal this by raising their right hand their intention to exit.

2.1.10 Kart Repair

All kart repairs must be performed in the pit area. Repair of karts on the track, infield, or other unapproved area, will result in disqualification at the determination of the track staff. Minor repairs may be made at the direction of the track staff on the track. When entering the pits, karts must slow to a reasonable speed. Failure to slow to a "reasonable speed" may result in disqualification. The determination of reasonable speed is a judgment call by Raceway Park Officials, which is final.

A kart that enters the pit area, or infield, during an event may only return to the racetrack at the discretion of a track official. Karts illegally returning to the track, will receive a disciplinary black flag, and scored last in the event.

2.1.11 Testing

No in-race kart testing without the permission of the pit steward. The test driver must exit the track when directed by the flagman. Failure to follow testing provision may result in the driver starting the next race in the last row or disqualification from their scheduled event. .

2.1.12 Flags

Raceway Park Officials will use flags and/or light signals to provide information to the drivers.

2.1.12.1 Green Flag

The green flag, and/or green light, indicates the start of the race or the restart of the race after a caution period. The green flag and green light will be displayed as the lead kart(s) pass the cone line at the beginning of the front straight exit of Turn 4.

All race starts will be double file, nose to tail. ("Nose to tail" means staying in the tire tracks of the kart ahead of you.) The kart on the inside of the first row controls the start of the race. A cone will be placed across the track at the beginning of the front straight exit of Turn 4. At the start of the race, all karts must maintain their assigned starting position and may not accelerate until the front row karts have passed the cone. If the front row karts are not within 1 kart length, the race will not start. After two (2) false starts, the two front row karts will be moved to the rear of the field and the next row of karts will be given the opportunity to properly start the race. This procedure will be repeated until the race is started properly or the Competition Director decides to start the race single file. Guest divisions will be started in accordance with instructions given at that night's drivers meeting.

The first two restarts, except Kid Karts and Charger Karts, will be double file, except for the leader who will be alone in the first row. All restarts, after the second double file restart, will be single file. Kid Karts and Charger Karts will always restart single file. The kart leading the race controls the restart. A restart cone will be placed at the beginning of the front straight exit of Turn 4. All karts must pass this cone on the right side. After the "one lap to go" signal is given, all karts must stay nose to tail. Lagging back is prohibited. On all restarts, all karts must maintain their position and may not accelerate until the lead kart passes the restart cone. Any kart lagging back prior to the restart, passing prior to the lead kart

passing the restart cone, hitting the cone, or passing to the left of the restart cone, will be penalized two positions on the next caution or at any successive caution. This is two positions per position advanced penalty. If no caution occurs, the driver will be penalized two positions at the end of the race.

2.1.12.2 White Flag

The white flag indicates that there is one lap remaining. If the leader takes the white flag, and a caution occurs, the race is considered complete. The scoring from the white flag lap is the finish with the karts involved in the caution placed at the rear.

2.1.12.3 Checkered Flag

The checkered flag indicates that the race is complete. Once the checkered flag is displayed to the race leader, the race is considered complete. All karts receiving this flag must slow to a reasonable speed and, with the exception of the winner, return to the pit area. Failure to slow to a "reasonable speed" may result in disqualification. The determination of reasonable speed is a judgment call by Raceway Park Officials, which is final.

If the yellow flag occurs after the checkered flag is displayed to the race leader, all karts that have passed the start/finish line will be scored as they crossed the start/finish line. All remaining karts, except those involved in the incident, will be scored according to their last completed lap. The karts involved in the incident will be scored at the end of their last completed lap.

Race winners will report to the "winner's circle" for post race ceremonies.

The number of laps completed, whether the kart is running or not, will determine finishing positions.

2.1.12.4 Yellow Flag

The yellow flag, and/or yellow light, indicates caution on the track. All karts receiving this flag, and/or light, must slow, hold their position, and form a single line behind the lead kart. Absolutely no racing back to the yellow flag. The penalty for racing back to the yellow flag, as determined by the flagman, is restarting the race at the rear. If a pace vehicle is used, the leader must line up behind it. Karts will be lined up as they were scored on the last completed lap. Lapped karts must maintain their track position. Any karts entering the pits during the caution period may reenter the racetrack if approved by a track official. Those karts will restart the event at the rear in the order they return to the track. Reentry under the yellow flag is not permitted until the lineup is complete.

If the yellow flag occurs before the completion of one lap, the karts will be lined up in their original starting order except those karts involved in the incident, which must restart the race at the rear.

Any driver, as determined by the flagman, intentionally causing a yellow flag (such as spinning out another kart, stopping on the track, or capable of resuming the race after a spin but does not) will receive either a one-lap penalty or "disciplinary" black flag at the discretion of track officials.

No kart may pass the pace vehicle unless directed by a Raceway Park Official. Any kart illegally passing the pace vehicle is subject to the black flag. Prior to restarting the race, the flagman will signal one lap to go.

2.1.12.5 Red Flag

The red flag, and/or red light, indicates that the race must stop immediately, regardless of the position of the karts on the track. During a red flag, pit crew-members are not allowed on the track. Drivers may exit their kart for inspection purposes only. All kart repairs must be done in the pits unless directed by a

track official. Any karts entering the pits during a red flag must restart the race at the rear, in the order they return to the track. If the red flag occurs before the completion of one lap, the karts will be lined up in their original starting order except those karts involved in the incident, which must restart the race at the rear. If the red flag occurs after one complete lap, the karts will be lined up in single or double file according to the last completed lap. Lapped karts must maintain their track position.

Prior to restarting the race, the flagman will signal one lap to go.

2.1.12.6 Blue Flag with Diagonal Yellow Stripe (Faster Traffic Approaching)

The blue flag with the diagonal yellow stripe indicates that faster traffic is approaching. Karts receiving this flag must prepare to yield to faster traffic. Karts should hold their line on the track and allow the faster traffic to pass. If the slower karts are running side by side, they must form a single line at the bottom of the race track. Failure to obey a “faster traffic approaching” flag is subject to a “disciplinary” black flag.

2.1.12.7 Black Flag

The black flag means go to the pit area or infield immediately. A kart that receives the black flag will stop being scored immediately. Failure to obey a black flag is subject to disciplinary action.

2.1.12.8 Pink Flag (Time Limit)

The pink flag means that the time limit for the race has expired. This flag will be displayed. Once this flag has been displayed, the race will continue to completion, or the next caution period, whichever occurs first. If the race ends on a caution flag, finish positions will be as the karts were scored on the last completed lap, with the karts involved in the caution moved to the end of their last completed lap.

2.1.13 Kart Penalties and Disqualification

If a kart is penalized for a post race infraction, kart below the penalized kart will move up in position, points, and purse. If the penalized kart is the race winner, the kart and driver will forfeit the race win and return any awarded trophies.

If a kart is disqualified during a race, or for a post race infraction, karts below the disqualified car will move up in position, and points. If the disqualified kart is the race winner, the kart and driver will forfeit the race win and return any awarded trophies.

2.1.14 Kart and Driver Changes

Race karts may compete in only one division per night.

Drivers may compete in any or all divisions as long as the driver has paid an entry fee for each division.

Any driver wishing to change karts must be qualified to compete in the race for which he/she is changing karts, and must start that race at the rear of the field. The kart that the driver wishes to transfer to must have competed in at least one race during the Event. A driver will not be allowed to transfer to a kart that did not compete in a race. All driver and kart changes must be reported to the Competition

Director or Team Leader Raceway Park Technical Official. Once a driver has changed to another kart, he/she must finish the program in that kart. The driver may not switch back to a kart previously run.

2.1.15 Conduct

The driver, or in the case of minor drivers their guardian, is the sole spokesman for the kart in any and all matters pertaining to an Event, and is responsible for the actions of the pit crew, and owner. Determination of crew affiliation will not be limited to the pit sign in sheet. It will be a determination made by the track staff.

Harassment or abuse of Raceway Park Officials will not be tolerated and is subject to disciplinary action. Penalties will be imposed in accordance with SECTION 4 - PENALTIES.

2.1.16 Injuries

All injuries must be reported to a Raceway Park Official prior to leaving the race premises. Track insurance will not cover any unreported injuries.

Any driver involved in a roll over, or severe accident, must be checked and cleared by the safety staff prior to returning to the track.

2.1.17 Track Radio Frequency

The track radio frequency (151.6250 MHz) is not to be used by any race team. Any race team found to be using radios on the race track frequency may have their radio's impounded, and be subject to disciplinary penalties. Radios are not permitted in any class for use by competitors.

2.1.18 Pit Closing Time

The pit area will be closed one (1) hour after the last race is completed. Failure to clear the pit area within this one-hour period will result in the loss of points. The amount of that will be lost is the decision of the Competition Director, and/or track management, which is final.

2.2 POINTS and PRIZE MONEY

Points, and prize money for any Raceway Park Event and point fund money are awarded to the driver, regardless of the kart he/she is driving. Points for Raceway Park Events will be awarded as follows:

Finish

Position/ A Main/ B Main/ Heats	Position / A-main/B-main/Heat
1 40 Transfer 5	13 28 11
2 39 Transfer 4	14 27 11
3 38 Transfer 3	15 26 11
4 37 Transfer 2	16 25
5 36 16 1	17 24
6 35 15	18 23
7 34 14	19 22
8 33 13	20 21
9 32 12	

10 31 11

11 30 11

12 29 11

A kart must take the green flag in a race in order for the driver to receive points. Drivers will be allowed to discard their two lowest nights points in their season championship totals. The raceway scoring staff will not calculate the discarded nights until the completion of the full season schedule.

If a kart qualifies for the A Main through the qualifying races and cannot start the A Main due to mechanical problems, or other difficulties, the driver will receive last place points for the A Main

With the exception of the division championship, ties in point totals at the end of the season will be split between the drivers involved. Tie breakers for the division championship will be in the following order: A Main race wins; A Main second place finishes; etc. Only A Main race finishes will be counted for tiebreakers.

SECTION - 3

INSPECTIONS

3.1 TIME and MANNER

All karts are subject to inspection by Raceway Park, at any time and in any manner, as determined by Raceway Park Technical Officials. All decisions by Raceway Park Technical Officials regarding the timing and manner of inspection, as well as which cars will be inspected, are final. All Karts must be safety inspected each night and display the nightly inspection sticker.

3.2 INSPECTION AREA

Only those persons authorized by Raceway Park Technical Officials are permitted in the inspection area. Authorization is limited to the Owner, Driver, and one crew-member.

3.3 KART ELIGIBILITY

Raceway Park Technical Officials will determine whether a kart meets the applicable specifications as set forth in the Rule Book, as amended from time to time. Only karts meeting the applicable specifications are eligible to compete in Raceway Park events. Raceway Park equipment, gages, and measuring devices will be used to determine whether a kart meets the applicable specifications.

The scales at the track are considered the “official” scales and will be used to determine whether a kart meets the applicable weight requirements.

Any kart black flagged for mechanical reasons or involved in an accident requiring assistance off the track by the safety crew, must pass inspection before returning to the race track.

3.4 COMPETITOR OBLIGATIONS

A Competitor must take whatever steps are required by a Raceway Park Technical Official to

accommodate inspection of the car.

3.5 INSPECTIONS PRIOR to the RACE

All karts must be inspected prior to competition. Any kart that has not been inspected, or does not have a current year and nightly Raceway Park inspection sticker, will not be allowed on the track.

If a Raceway Park Technical Official determines that a kart does not meet the applicable specifications, the kart will not be allowed to compete unless the deficiency is corrected. However, the kart may be allowed to compete in the event if, in the determination of the Raceway Park Technical Official, the deficiency (a) is not safety related, (b) will not adversely affect the orderly conduct of the event, (c) cannot be corrected prior to the start of the event and, (d) will not provide the Competitor with a noticeable advantage over the competition, and (e) is insignificant. The kart will not be allowed to compete in future events until the deficiency is corrected.

3.6 INSPECTIONS AFTER the RACE

The individual(s) representing the kart during post race inspection may not consume any alcoholic beverages, or be under the influence of alcohol, until the post race inspection of the kart is complete. Raceway Park Officials may impose a penalty for any individual(s) in violation of this requirement. Penalties will be imposed in accordance with SECTION 4 - PENALTIES.

The Competitor will be given a “reasonable amount of time” to remove components from the kart for post race inspection. The Competitor will be notified as to what is considered a “reasonable amount of time” at the beginning of the inspection. If the removal of the components is not completed in this time period, the kart will be disqualified.

The kart’s crew and or driver will perform the actual tear down with their own tools and equipment. Only two (2) of the kart’s crew and the driver will be allowed in the inspection area.

If a Raceway Park Technical Official determines after the race that a kart does not meet the applicable specifications, Raceway Park Officials may impose a penalty. Penalties will be imposed in accordance with SECTION 4 - PENALTIES.

A kart that fails post race inspection may be impounded for additional inspection. Raceway Park Officials and Technical Officials will determine the time and location of inspection of the impounded kart.

The decision of the Raceway Park Technical Official regarding any inspection is final, non-appealable, and non-litigable.

3.8 EQUIPMENT or PARTS FAILING INSPECTION

Raceway Park has the right to impound any parts and/or equipment that do not meet Raceway Park specifications, for the purpose of further inspection and for a reasonable amount of time.

SECTION - 4

PENALTIES

4.1 GENERAL PROCEDURE

If a Raceway Park Technical Official observes, or is made aware of, a violation of the Raceway Park Rules, by a Competitor, Raceway Park Officials can impose an appropriate penalty.

4.2 EMERGENCY ACTION

If an act by a Competitor is determined by Raceway Park Officials, Raceway Park Technical Officials, or persons serving under Raceway Park direction, to threaten the orderly conduct of an Event, the Raceway Park Officials can take emergency action against the Competitor. Such action may include: arrest; ejection from the racing premises; suspension from competition; or any other action to remove the threat created by the Competitor. Examples of conduct warranting emergency action include, but are not limited to: consumption of alcoholic beverages in pit area before or during an Event; use of illegal drugs before or during an Event; harassment, verbal abuse, or assault of any Raceway Park Officials, Raceway Park Technical Official, or Competitor; fighting; reckless driving; and failure to obey a black flag or directions of an Raceway Park Official. The emergency action will remain in effect for the period of time determined by the Raceway Park Officials, except for an ejection, which is final, and non-appeal able.

4.3 PAYMENT of FINES

Fines must be paid to Raceway Park and will be deposited in the Charter discretionary fund. Failure to pay fines may result in suspension from competition. All unpaid fines may be collected, by Raceway Park, using any means available. If the Competitor is not a driver, the fine may be assessed against the driver or legal guardian or parent they are associated with at the time of the violation. Any unpaid fines remaining at the end of the racing season will be carried over to the next racing season and be collected by any means available.

4.4 SCOPE of PENALTIES

Penalties for violation of Raceway Park Rules are determined by the severity of the violation. Penalties include, but are not limited to: fines; loss of points; loss of purse; disqualification; suspension of driving privileges. Raceway Park will use the following guidelines for determining penalties. A greater or lesser penalty may be imposed depending on the circumstances.

4.4.1 General

Any Competitor who performs an act or participates in an act deemed by Raceway Park as detrimental to motor racing or Raceway Park: a fine determined by Raceway Park Officials; and/or suspension; and/or loss of points and money for Event; and/or loss of accumulated points for current year.

Any Competitor who signs the release sheet for any one else: ejection.

Any parent or legal guardian that falsifies an insurance waiver for a minor Competitor: ejection of the minor Competitor; and/or suspension of the minor Competitor; and/or loss of points and money for Event; and/or loss of accumulated points for current year; and a fine determined by Raceway Park Officials.

Any Competitor who harasses, verbally abuses, or assaults any Raceway Park Official, Technical Official, or persons serving under Raceway Park direction: ejection; a fine determined by Raceway Park Officials; and/or suspension; and/or loss of points and money for Event; and/or loss of accumulated points for current year.

Any Competitor who participates in fights on the racing premises: ejection; a fine determined by Raceway Park Officials; and/or suspension; and/or loss of points and money for Event; and/or loss of accumulated points for current year.

Any Competitor who, while participating in a Raceway Park Event, consumes any alcoholic beverages and/or illegal drugs, or is under the influence of alcohol and/or illegal drugs: a fine determined by Raceway Park Officials; ejection & disqualification; and suspension for a period of time determined by Raceway Park Officials.

Any Competitor who stops on the track to argue with a Raceway Park Official: a fine determined by Raceway Park Officials; and/or suspension; and/or loss of points and money for Event; and/or loss of accumulated points for current year.

Any Competitor who fails to correct an unreadable car number: stop scoring of the car until the number is corrected; and/or a fine determined by Raceway Park Officials.

Any driver not wearing a full driver's suit and/or gloves and/or other mandated driver safety equipment during an event: "disciplinary" black flag; and/or a fine of \$25.00.

Any Competitor who leaves tires in the pit area or at the anywhere on the track property: a fine of \$25.00/tire.

4.4.2 Inspection Procedures

Any Competitor who fails to tear down a kart for inspection when requested to by a Raceway Park Technical Official: a fine determined by Raceway Park Officials; suspension; and/or disqualification.

4.4.3 Race Procedures

Any kart after a race that is 1 or more pounds under minimum weight: loss of points and money for race. A kart will be allowed to be repositioned on the scale a maximum of two times to make minimum weight.

Any driver receiving a "mechanical" black flag: last place in the race.

Any driver receiving a "disciplinary" black flag: loss of points and possible fine commensurate for their actions.

Any karts passing prior to the leader passing the restart cone, or to the left of the restart cone: loss of two positions, per position advanced, at next caution flag. If no caution occurs, the driver will be penalized two positions at the end of the race.

Any driver, as determined by the flagman, intentionally causing a caution flag (such as by stopping on the track, or capable of resuming the race after a spin but does not): one lap penalty; or "disciplinary"

black flag.

4.4.4 Bodies, Parts, and Equipment

Any part and/or equipment found during an inspection that does not meet Raceway Park specifications: impound of non-approved parts for a reasonable period of time for further inspection; loss of points and possible fine commensurate for the level of the infraction; and/or accumulated points for current year.

Any Competitor who fails to surrender to Raceway Park any part and/or equipment found during an inspection that does not meet Raceway Park specifications: loss of points and possible fine commensurate for the level of the infraction; and/or accumulated points for current year.

Any Competitor found using any traction control device, system, or sub-system, whether found in the kart, or in the possession of the driver, or in the possession of a crew member: impound of traction control device, system, or sub-system; a fine determined by Raceway Park; loss of points ; and accumulated points for current year.

Any engine that exceeds the maximum allowable cubic inch displacement, compression limit, or that is using non-approved cylinder block, crankshaft, connecting rods, valves, valve lifters, rocker arms, rev-kits, cylinder heads, intake manifold, carburetor spacer; carburetor: loss of points and possible fine commensurate for the level of the infraction; and/or accumulated points for current year.

Any non-approved tires & wheels; non-approved frame & steering components; non-approved brake components; non-approved clutch; non-approved rear axle: loss of points and possible fine commensurate for the level of the infraction; and/or accumulated points for current year.

Any car with noise levels that contribute to a violation of the community noise limit: loss of points and/or accumulated points for current year.

Any weight that falls off a kart during competition: first offense - a fine of \$1.00 per pound of weight lost; second offense - a fine of \$2.00 per pound of weight lost; third offense, disqualification.

4.4.5 Fuel

Use of a fuel that does not meet Raceway Park specifications: loss of points and money for Event; and/or accumulated points for current year. Fuel pump around will be utilized on some events. Failure to comply will be a disqualification.

Failure to cooperate with Raceway Park Officials in obtaining a fuel sample during an event will subject the car to disqualification.

4.4.6 Non-Approved Chemicals

Any competitor that spills any non-approved chemical, on the track or in the pit area, will be held responsible for all investigation and clean up costs.

SECTION - 5

KART SPECIFICATIONS GENERAL 2010

Open to two-wheel drive unsprung karts provided they comply with, and adhere to, specifications as outlined for this division.

NOTICE :ALL EQUIPMENT IS SUBJECT TO THE APPROVAL OF RACEWAY PARK OFFICIALS. NO EQUIPMENT WILL BE CONSIDERED AS HAVING BEEN APPROVED BY REASON OF HAVING PASSED THRU INSPECTION UNNOTICED. EFFORTS TO TAKE ADVANTAGE OF “LOOP HOLES” IN THESE RULES WILL NOT BE TOLERATED. ALL RACE KARTS SUBJECT TO INSPECTION BY TRACK OFFICIALS AT ANYTIME.

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 expressed or implied warranty of safety shall result from publications of, or compliance with, these rules an/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 to a participant, spectator or official. The race director shall be empowered to permit reasonable and appropriate deviation from any of the specifications herein or impose any further restrictions that in his opinion do not alter the minimum acceptable requirements. No expressed or implied warranty of safety shall result from such alteration of specifications. Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final.

Numbers are required on the front rear and sides and readable by the scoring staff. Numbers on the front and back of car for ease of lineups. **NO METALLIC OR HOLOGRAPHIC NUMBERS WILL BE ALLOWED.** Numbers need to be of contrasting color to the main color scheme. Numbers must be unique. If there are double numbers a letter will be issued to you by the track to go with your number. If a letter is required with the car number, the letter must be at least fifty percent (50%) of the height of the number. **IT IS THE RESPONSIBILITY OF THE DRIVER TO ENSURE THAT THE SCORERS CAN READ THE CAR NUMBER. IF YOUR CAR NUMBER IS NOT READABLE FROM THE SCORING TOWER, THE CAR WILL NOT BE SCORED UNTIL THE NUMBER IS CORRECTED.** Transponders are required for scoring purposes. It is the driver's responsibility to rent/own and properly secure the transponder in the approved mounting location. Drivers must follow rental contracts and procedures.

Raceway Park reserves the right to assign car numbers, and to assign or restrict the display of graphics and advertising on race karts. Offensive graphics or slogans are not permitted. All Competitors agree to accept Raceway Park's decision in this matter.

Where required, participating sponsor's emblems, or decals will be placed in the position designated by Raceway Park Officials.

Karts that do not display all sponsors emblems, or decals, may not be eligible for trophies or awards.

5.1 SAFETY EQUIPMENT

A full face, helmet and face shield, Snell-rated 2000 or SFI 31.1/2005 or newer, required. Helmet and face shield must be worn at all times kart is on the track and must accompany vehicle at time of inspection. SFI-approved full fire suit, or leather jacket with full-length abrasion resistant pants, or abrasion resistant jacket and pants and fire retardant gloves, and shoes required. Fire retardant neck brace required. Recommended: SFI Fire retardant head sock and underwear Elbow, knee, shoulder pads highly recommended. Chest protector, SFI 201.1, required for drivers less than 13 years All safety equipment is subject to approval by Raceway Park officials.

5.2 FRAME

All frames must of an approved design meeting the following criteria: 1.0" Minimum O.D., Maximum 1.400" O.D.. If using 1.00" O.D. Min. wall thickness shall be 0.078". If using 1.125" O.D. or larger Min. wall thickness shall be 0.600". Tubing shall be minimum electric welded steel tubing or stronger approved material. Oval tube material is not permitted. All bends shall be of a design to be smooth, kink free, and of a design that does not reduce the strength of the material.

5.3 WHEELBASE

Must be minimum 40.0", maximum 43.0" measured center to center from true axle centers.

5.4 WIDTH-LENGTH SPECIFICATIONS

The minimum tread width shall be no less than 28.0" measured from outside of tire to outside of tire. The maximum width shall be no more than 50.0" The maximum length shall be no more than 74.0". The maximum height shall be less than 26.0". The driver, while seated in the normal, as raced position must conform to the length and width requirements. The entire drivers body shall be within these dimensions.

5.5 BODY

Floor pan must be of a design that prevents any portion of the driver's body from passing through the frame a contact the track surface. All bodywork must be neat and in good condition. Body parts that come loose during an event and are judged to be a hazard to the driver or other competitors will result in a mechanical disqualification. Mounting style is left open to the kart builder but must secure the body in a manner acceptable to Raceway Park officials. No CIK style nose cones. Nose cones must be a minimum of 8" high and a maximum of 17" high. The Briggs Jr. class can be no more than 14" high. No air inlets of any type allowed in the nose cone. All nose cones must have a tire opening equal to or greater than the tire size being utilized. No covering the sides of the tire. Nose cone will be measured 6" vertically and 1" horizontally from front edge. There is a .250" tolerance in the horizontal dimension. Nose dimensions will be in the as raced condition. No fasteners of any type may be used to add parts to the nose cone. Tape is permitted on the nose cone but must conform to the proper dimensions. Decals are permitted. Rubber or skirt molding is permitted on the lower 6" of the nose cone. No fiberglass or other rigid skirt material is permitted. Skirts must be mounted in a manner acceptable to Raceway Park tech officials. If the bottom of the nose cone is used as a belly pan the following applies. The bottom of the nose cone may extend to the rear edge of the front tires. Any part of the nose cone behind this must be between the main frame rails. Nose cone must allow for easy drive ingress and egress from the kart. It may cover an area not to exceed 3" behind both pedal controls in

the relaxed position. It must not interfere in the driver's ability to safely operate the controls. Steering fairing; may extend rear from the nose cone at an angle parallel to the steering shaft. Maximum width is 10.0" This is a chord measurement, not the rounded surface. No part of the fairing may be within 3" of any part the steering wheel. The mounting components of the fairing must of a manner easily bendable. There will be no sharp edges exposed to the driver. The fairing may be mounted with a strip not to exceed 6" wide connected to the nose cone as viewed from the top. This may not cover any portion of the driver's legs, ankles or feet. All other body components must maintain a 6" clearance to the steering fairing. No steering fairings allowed in Junior 1 and Junior 2. Side pods; Side panels or CIK style side pods permitted. Must be mounted securely in a manner acceptable to Raceway Park tech officials. Side panels must have rolled or radiused edges in the tire openings if it extends past the tire as presented for inspection. If flat vertical panels only are used, top edge must be radiused. Maximum 1" lower lip permitted on any style side panel. No metallic side panels permitted. 90-degree panels may not exceed 14" in height in all areas. Minimum of 22" forward of rear bumper edge of front tires must be left open. Panels may connect to front nose cone. Side panels may be wider than outside edge of tires. Side panels may be no more than 1" narrower than outside edge of tires. Maximum overall width may not exceed 50" at any point. Side panel may not extend past rear edge of rear tires. A full floor or belly pan is permitted. It must be within the main frame rails. It may be no higher than the centerline of the rear axle. Floor pan is required in the front foot area of the kart. No body work, except the steering fairing, shall be less than 6" from the steering wheel when the front wheels are in the straight ahead position. All karts shall be of an open cockpit design. No body components may be driver adjustable.

.6 DRIVER SEAT

Must have sprint style purpose built racing seat. No lay down seat permitted. Seat must secure driver laterally and longitudinally.

Seat must be a one piece design which complies with the minimum seat height requirements of each class. Minimum seat height requirements are sportsman class (8-12 age group) 10.0" Juniors (12-15 age group) 12.0" All other classes 14.0". Height will be measured as raced. Seat angle must meet class specs. Seat must be securely mounted to frames. Seats may not be adjustable while kart is being raced. No portion of the seat may be behind a vertical line projected from the back of the rear axle.

5.7 SUSPENSION

Use of suspension components of any design (springs, rubbers, air shock devices, torsion bars) will not be permitted. Any attempt to circumvent this rule will be an immediate disqualification.

5.8 STEERING

Steering shall be a direct mechanical design. All steering fasteners must be safety wire or cotter keyed. All fasteners shall be of a minimum 14,000 lb tensile strength (GRADE 5) and be a minimum of 1/4" diameter or greater. All rod ends shall be of a universal swivel design. All steering components must meet the approval of Raceway Park tech. Officials. Steering shaft shall be a minimum of .625 or greater diameter magnetic steel. Wheel attachment shall be with a nut or cap screw in the axial position with the centerline of the shaft. Welding the steering to the hub not permitted, Quick release steering hubs not permitted. No shaft extensions permitted.

5.9 STEERING WHEEL

Steering wheels shall be completely circular, minimum 10" in diameter. Must be a minimum of a three spoke design. Butterfly wheels permitted minimum 10" wide. 5" minimum grip-able surface on each side. No tiller style steering permitted.

5.10 FRONT/ REAR HUBS AND SPINDLES

Hubs must be made of metallic material. Must utilize ground ball or roller ball bearings only. Split race bearings not permitted.

Wheels and hubs must be kept adjusted as to not have excessive wheel play. Front spindle nuts must be cotter keyed. Berry clips or cir-clip style safety fasteners permitted. Use of castle nuts suggested. All bolts must be secured in a manner to prevent any movement of fastener or nut without key or safety wire removal. Any fastener that is utilized in the securing or adjusting of spindles must be safety wired or keyed. All fasteners must meet the approval of Raceway Park officials. No part of the front spindle may protrude past the outside edge of rim or tire.

5.11 REAR AXLE

Rear axle may be solid or tubular in design. Minimum diameter shall be no less than 1" O.D. Maximum Diameter shall be no more than 1.250" O.D. No carbon fiber or composite designs permitted. Both rear hubs must be secured to the rear axle creating a live axle design. Self-clamping hubs are permitted. Securing with snap ring, or nuts permitted. Snap rings, or other safety stops required at the axle ends. No grooves between the hubs permitted on the axle. If the wheel hub protrudes past the axle; the hub must be pinned or tethered. Axle stiffeners permitted if they are secured by cir-clips, cotter keys, or through bolts. No axle may protrude past the outside edge of the rim or tire.

5.12 FRONT BUMPER

Front bumper must be constructed of minimum .750" O. D. (3/4") x .065" wall thickness steel tubing. The top of the top loop shall be no less than 7.75" (7 3/4") above the track in the as raced condition. The upper hoop must be supported in minimum of two location by .750" x .065" vertical uprights connected to lower hoop. These upright tubes must be within .500" of vertical as measured 3.00" down from the upper tube. Uprights must be welded to upper hoop and welded or bolted to lower hoop. No weights on an exposed front bumper. Weights that are mounted to bumpers behind a nose cone must meet Raceway Park official's approval. Any bumpers that have pedal mounts on them must be through bolted, securely welded, or through pinned. These must be safety wired or cotter keyed, pinned.

5.13 BUMPERS/NERF BARS

Rear bumper must be constructed of minimum .750" (3/4") x .065" wall O.D. tubing. The maximum height as raced can be no more than 7.50" (7 1/2"). Minimum height as raced can be no less than the bottom of the rear axle. Rear bumper can be no wider than tires. Minimum width can be no less than the lateral width of the main frame rail. Oil reservoir or catch cans on permitted on the rear bumper. Mounting style must meet the approval of Raceway Park officials. Nerf bars must be constructed of .750" (3/4") x .0650 wall O.D. tubing. Must be attached with .250" (1/4") or larger bolts. Overall length must be a minimum of 24.0" measured from the back of the nerf closest to the rear tire to the front in a straight line, where it attaches to the main frame. The rear of the nerf bar may not extent past the rear tires. Nerf bar must be of a double hoop design and must meet the approval of Raceway Park officials. Catch cans are not permitted on nerf bars.

5.14 TIRES/WHEELS

Must use unaltered Burris SS-33 or SS-33A tires only. New karts are allowed three race night to switch to track spec tires. No points are awarded until switch is complete. Tires may be ground in accordance with Wisconsin Dirt Kart track specifications. No grooving siping, recapping or warming of the tires. Chemical prepping of tires on raceway grounds is permitted. Any prep solutions must be in original manufacturers containers. Must have MSDS forms for all chemicals and provide to raceway officials upon request. No open flames on Raceway grounds. Any competitor not utilizing the spec tire must get prior authorization from Raceway officials. Tires must be dry when kart is presented in staging area. Any kart not having dry tires in staging area will be required to return to their pit area to correct the problem and will be started at the rear of that event.

Wheels shall be of a proven and approved design capable of supporting the tire bead and seal in competition. Material type is open, but must meet approval of Raceway park officials. The permitted rim size is 6" only. No G rings or lateral supported wheels permitted. Maximum wheel and tire width is 10.375". The dished opening of the wheel may not be covered. No mud plugs, hubcaps, or any covers of any design permitted. Wheel weights may not exceed ¼ oz..per weight. Clip on or self-adhesive permitted. Stick on weights should be taped over for security..

5.12.1 TIRE DUROMETER LIMIT

Five karts will be selected, at random, prior to the start of qualifying races. Durometer readings will be taken at three points across the rear tires (outside, middle, inside) of each car. The readings will be averaged together. The minimum allowable durometer reading of any tire prior to the qualifying races, B Main race, and A Main race will be ninety percent (90%) of the average reading.

Example: Average durometer reading of five selected karts: 50
Minimum allowable reading prior to race: 45

5.15 BRAKES

Must be approved operative system. Brakes must be fully functional and capable of stopping kart in an acceptable manner. No scrub or band style brakes permitted. All brake components must be secured with approved fasteners. Fasteners must be safety wired or keyed to prevent loosening of component. Brake pedal must be secured to the frame with appropriate fasteners and be safety wired or keyed. The linkage from the pedal to the brake cylinder may be no less than .0236" in diameter. Any bias linkage must meet the same requirements,. Link rod must have clevis, heim joints, or approved OEM brake rod connection fittings. All master cylinder, caliper brake rotor or drum mounting fasteners must be castellated, cotter keyed or safety wired. Steel lock nuts or castellated nuts that are and keyed permitted on the rotor mounting only. When dual brakes are used kart will utilize dual master cylinders. Each system must operate independently of the other. Bias control may not interfere in the proper operation of either system. Pad mounting must be in a manner acceptable to Raceway Park officials. Brake lines are to be routed and secured in a safe manner, be leak free , and be in danger of being snagged or rubbed while in competition. Brake rotors must be round.

No carbon fiber components permitted. Brake disc guard required between the back of the seat and rotors. Raceway Park officials must approve all brake components.

5.16 EXHAUST

WKA approved or round tube headers only. All classes must run the proscribed muffler for their class.

Mufflers mandatory at all times kart is on the track. Loss of muffler is an automatic mechanical disqualification. . A 95-decibel limit 100 feet from kart will be enforced.
All exhaust must go through mufflers..

5.17 FUEL SYSTEM

Stock tanks permitted. If utilizing stock tank must be in as manufactured condition and meet the approval of Raceway Park officials. All other tanks must meet the following specifications. Maximum capacity shall be no more than 2.38 US gallon. (Nine liters). Tank must be constructed of a puncture resistant material. Tank shall be leak free and have a secure leak proof cap and vent. Tank must be secured to the primary frame, floor pan, or steering column. Fuel tank must be mounted between main rails and be behind the steering shaft. Fuel lines must be of adequate length to reach carburetor. No excessive fuel lines permitted.

Fuel lines must be safety wrapped and properly secured at all times. No pressurized fuel systems permitted. No axle, or electric fuel pumps permitted. Must utilize the standard pulse , engine driven style fuel pump.

5.18 FUEL

Gasoline, E85, E98 or alcohol only as per class and engine requirements. No nitrous or propylene oxide. No blending of exotic fuels to meet specific weight requirements. No performance-enhancing additives. Upper cylinder lube allowed. Fuel sample maybe taken from any kart at any time. Fuel must meet the class appropriate specifications Penalty for illegal fuel is disqualification from event and \$250 fine – first offense. Alcohol must meet the specific gravity of .800. Fuel pump around method may be used be Raceway Park tech officials to insure all competitors are using approved fuel.

5.19 WEIGHT

Minimum kart weight limit of 85 pounds, no tolerance, after race without driver in kart. All karts must meet their specific class weight requirement with the driver. Minimum weight is with driver as they exit the racetrack. No components lost during an event will be added to a kart to meet the weight requirement. No weights and/or loose objects in driver compartment or outside body. Weights must be securely mounted to kart and painted white with car number on it. Must be attached with at least 5/16-inch bolts. Any fasteners must be cotter keyed, double nutted or fastened in a manner acceptable to Raceway Park officials.

Weights exceeding 7 pounds must utilize a minimum of two fasteners. No titanium, magnesium or carbon fiber products.

Raceway Park approved fasteners only. Mounting of weights to rear bumper and nerf bars is prohibited. Any weights mounted to front bumper must be contained behind the nose cover. No added weights on driver permitted. The top four or those directed by Raceway Park officials in an event are required to weigh in post race. Failure to weigh in post race is a violation and will receive the penalty proscribed in the penalty section. .

5.20 TRANSPONDERS

Transponders must be mounted on the right side fairing. It must be parallel to the ground with the silver side down. It must be behind the front tire and in front of the rear tire. No metal may be under the transponder for proper pickup to occur. It is the racers responsibility to rent, and properly mount the

transponder. Failure to rent or improper mounting will result in the kart not being scored. Kart drivers or their guardians will be responsible for lost or damaged transponders.

5.21 GAUGES/ELECTRONICS

Upon request from a Raceway Park Technical Official, a driver must surrender any ignition component for inspection and certification by the original manufacturer.

5.22 CLUTCH/ DRIVE CHAIN

Dry clutch systems are mandatory. No wet clutches permitted. No axle clutches permitted. Chain or gear guards required. Guard must be constructed in such a manner as to contain the chain or gear being covered. Any kart utilizing an outboard drive system must cover the entire chain and or gear system, top sides, front and rear. No transmissions, torque converters, or other gear ratio devices permitted that change the gear ratio while the kart is moving or sitting. Gear ratio changes must be completed in the pit area. Karts may not have any unused exposed sprockets. Any sprocket being used must be covered by an appropriate chain guard. Rear sprocket may free wheel in the reverse direction. Chain oilers are prohibited. The only permitted chain size will be #35. No belt drives permitted.

5.24 ENGINE SPECIFICATIONS

Engines must meet all the specifications for the class being run.

5.26 EIRI (Except in rare instances)

Decisions of Official(s) are final and binding without exception. In some cases, track safety rules may take precedence over rules - any discrepancy between track rules should be brought to the attention of The Raceway at Raceway Park. Any rule changes or clarifications during the course of the year will be published and will be considered as an official part of these rules.

WARNING: 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. By participating in these events, all participants are deemed to have complied with these rules. NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATION 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 to a participant, spectator, or official. Interpretation or amendments to these rules may be made at any time. The rules and or regulations set forth herein are designed to provide orderly conduct and to establish minimum requirements for the racing events. All participants are deemed to have complied with these rules upon participating in these events. No expressed or implied warranty of safety shall result from publication or compliance with these rules 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 to participants. The Raceway Park Technical Inspector shall be empowered to permit minor deviations from any specifications herein or to impose any further restrictions that in his opinion do not alter the minimum acceptable requirements. No expressed or implied warranty of safety shall result from alterations of specifications. All interpretations or deviations of these rules are left to the Raceway Park Officials. **THEIR DECISION IS FINAL!**

SECTION - 6

KART DIVISION SPECIFIC RULES – 2010

All section five rules apply to all karts, unless specifically stated.

NOTICE :ALL EQUIPMENT IS SUBJECT TO THE APPROVAL OF RACEWAY PARK OFFICIALS. NO EQUIPMENT WILL BE CONSIDERED AS HAVING BEEN APPROVED BY REASON OF HAVING PASSED THRU INSPECTION UNNOTICED. EFFORTS TO TAKE ADVANTAGE OF “LOOP HOLES” IN THESE RULES WILL NOT BE TOLERATED. ALL RACE CARS WILL BE SUBJECT TO INSPECTION BY TRACK OFFICIALS AT ANYTIME.

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 expressed 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 to a participant, spectator or official. The race director shall be empowered to permit reasonable and appropriate deviation from any of the specifications herein or impose any further restrictions that in his opinion do not alter the minimum acceptable requirements. No expressed or implied warranty of safety shall result from such alteration of specifications. Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final.

6.1 KID KART

This class is open to participants age 5 through 7. It is intended as a starter class to familiarize the participants and their parents about racing. It gives them an opportunity to learn the driving skills necessary to compete in upper levels of karting. It also familiarizes them with the mechanical aspects of karting. Kid karts are intended to be a demonstration class. All competitors in this class are considered winners. All drivers and parents are required to attend the drivers meetings. All competitors are required to wear a SFI specification 20.1-chest protector.

6.2 KID KART SPECIFICATIONS

Basic chassis design only no offset karts. Seat must not be offset beyond outside edge of left mainframe rail. Wheelbase maximum 31”, minimum 29”. Width as measured outside of widest part of rim or tire Front maximum 40”,no minimum front width, Rear 42” , minimum 39”. Chain guard is required to completely cover the chain when viewed from above. Gearing/ chain – 219 Comer chain, 10-tooth drive sprocket, 89-tooth axle sprocket. Briggs JR206 gearing to be determined. Rear bumper must be continuous loop design. Must have minimum two vertical connection tubes between upper and lower portion of loop. Bumper must protect rear tires. Steering height maximum 20”. Seat height minimum 12”. Side pods or double nerf bars are required. Nose cones are required. Tires open compound Permitted size 10x4.50 or 4.60x5 Maximum rear tire circumference 33.75”. Minimum weight to be established per drivers weight and class competitiveness. 120 to 155lbs.

6.3 KID KART ENGINES

Comer C-50 or Comer C-51 or Briggs and Stratton Junior 206 #1243328202-01 only permitted. Must

be run stock as manufactured by Comer or Briggs. Briggs engine must retain factory seals and comply with carburetor slide inspection, ignition inspection. Briggs engine will be on a trial basis and class weight or engine profile may be adjusted to ensure competitive balance. JR206 must meet WKA engine specifications. No grinding or performance enhancements permitted. No after market accessories (including fasteners) permitted. Carburetor model 14-12L all parts must remain as cast. No enhancements of any type permitted. 0.475" no go venturi. Jet size #54-#58. No repairs to damaged carburetor bodies. Stripped casting may be repaired with Helicoils or bolts of next larger size. Extra return spring required for safety. Must utilize manifold restrictor issued by W.K.A.. Air filter required. Must be O.E.M. stock. Flange inside 57mm. Filter top 51mm. Filter base 89mm. Filter length 102mm. Flange length 16mm. Flange must be centered. Filter must not be modified in any manner. Unmodified O.E.M. combustion chamber. Volume 7.3cc when using WKA cylinder head volume check procedure. All threads must be intact. No alterations permitted. Liner and aluminum cylinder must be utilized as cast. No grinding or alterations permitted. Port height exhaust 1.200" minimum intake .370" Maximum. Base gasket must be in place. No maximum thickness. Piston must be O.E.M. stock and stock appearing. Both skirts must be the same length with a .015" tolerance. Minimum piston length 1.210" measured from bottom of ring land to bottom of piston. Rings must be O.E.M. Ring gap maximum is .040" Rings may not fall through cylinder. Crank pin and wrist pin must remain stock O.E.M. Main bearings must be O.E.M. SIZE AND TYPE. May be aftermarket manufacturer. Ceramic or other exotic bearings not permitted. Seals must be installed, as O.E.M. Tampering with seals to reduce drag is not permitted. Ignition must be within factory specifications. Flywheel key must be unaltered and in correct location. Ignition timing and flywheel key subject to inspection. Spark plug boot and plug are open to aftermarket parts. Spark plug must be O.E.M reach. Spark plug wire must be O.E.M. Muffler must be O.E.M Comer C50 or C51 only. One O.E.M. gasket only. Muffler must be unmodified. All exhaust must go through muffler. Clutch must be run as manufactured. Clutch shoes must have Comer name cast in. Shoes may not be altered. No grinding or polishing permitted. Minimum width of shoes 0.065" Shoe minim chord measurement is 2.500". Spring maximum diameter is .0430 and 9 coils. Wire diameter permitted is 0.075" to 0.080". No taping of shrouds permitted Shrouds must be O.E.M. stock. .

6.4 BRIGGS AND STRATTON WKA 5 HP RULES

All parts must be Briggs and Stratton series 13 production parts unless otherwise specified in this document. No altering, machining, grinding or other performance enhancements permitted unless specified. All components are subject to inspection and comparison to a model part by Raceway Park officials. No titanium or other exotic components permitted. All engines will be inspected in as raced condition. All engine shrouds and covers must remain intact and not be modified. Scatter shroud by W.E. Chapps may be utilized. This includes flywheel shroud, unless no mounts on the block to mount it. Tape on the shroud is permitted. Tape on the block is not permitted. Flywheel guard is mandatory. Flywheel guard must be bolted to the blower housing. No revolving screens allowed. Tape on the flywheel guard permitted. No part of the flywheel guard may protrude inside a flat plane of the blower housing. Any bolt used to secure sheet metal, shrouds, may be replaced with larger diameter bolts. Head bolts that secure sheet metal or shroud may not be increased in size

6.411 EXHAUST

Exhaust pipe must extend beyond fuel tank, but may not extend past the rear bumper. Entire system may not have any exposed sharp edges. Loop pipes must be wrapped to protect the driver from accidental burns. No part of the exhaust system may extend into the exhaust port as to alter the port

configuration for performance gain. Studs permitted to mount the exhaust to the block. When silencer is used the RLV-8-91 IS REQUIRED. Silencer must be used as manufactured with no modifications Drivers are reminded all karts will meet the track enforced decibel rule of 95db. Gasket or silicones are permitted to seal the exhaust. Exhaust must be of a fixed design. No adjustable tubes permitted. No additional holes in exhaust except for heat sensors. Unused sensor holes must be plugged. Extra heat shield above the chain guard is permitted. All exhaust must be of a continuous design with butt welds or stages permitted. No chamber infusers, or covers allowed on mufflers. Exhaust support brace is required. Safety wire on exhaust mounting bolts or studs required. Safety wire must loop around the exhaust tube. Silencer must be clamped to the exhaust tube in a secure manner. No welding of silencers. Silencer must be visible from any angle. Exhaust block savers permitted. It must be round with a 0.750" minimum and a maximum 1.0" thickness. It must be made of aluminum. It must have a straight bore and have 1.005 must go gauge I.D. Bolt holes must have a stock chord diameter. Silencer baffle holes .1285" no go maximum. . 6.412 Air Filter – Any air filter permitted that is installed in a manner approved by Raceway Park officials. Filter may not be used as an air ram and dust filter from all areas as raced. A filter sock must cover any open areas of filter. No open areas permitted.

6.413 FUEL TANK

Fuel tank cap must be stock and in stock location. Briggs and Stratton domed style cap with single vent and stock gasket, or old style cap with metal insert. Cap splash shields not permitted. Brace on tanks are permitted. No overflow tubes permitted. Bungee style strap may be used in all classes to additionally secure any components from vibration. One or two gaskets permitted on carburetor to tank connection. When blue print-o-seal gaskets are utilized only one gasket permitted. Tank repair kit may be used in pick up cup of tank. When using tank repair kit, an open slot, minimum distance 0.062"(b8) must go , must be visible at the top of the pick up cup. 6.414 Air Filter adapter- Filter adapter may not be funneled or tapered. Top of filter must be flat. Adapter may not be run without a filter installed. No sealer between carburetor and filter adapter permitted. Adapter may have a rolled edge not to exceed 0.250" from the top. Maximum thickness of filter adapter is 0.250"(b101) measured from the top of the filter adapter to the carburetor air horn mating surface. One Briggs and Stratton stock gasket may be used under the adapter with a maximum thickness of 0.075". The air intake hole of the air filter adapter must be concentric with the air intake hole in the carburetor and concentric with the outside diameter of the air filter adapter.

6.415 CARBURATOR

Allen bolts may be used to attach carburetor to block. Any attempt to circumvent the bolts, gaskets or boltholes is not permitted. Maximum two gaskets permitted between block and carburetor. Only one gasket permitted if using blue print-o seal gasket. Carburetor swirl insert is optional. If utilized it must be in the stock location and in the stock as manufactured configuration. Combustion air may enter the carburetor at the air horn only. 6.416 RESTRICTOR PLATE Restrictor plates must be stock, as manufactured, no alterations permitted. Purple plate .425"NO-GO (B12), gold plate .575"NO-GO (B12), turquoise plate .500"NO-GO (B15) restrictor plate must be flat and sealed within gasket area, and have one gasket only on each side of the restrictor plate. Any attempt to funneling of gasket material is not permitted. Any attempt to modify or enhance performance of the restrictor plate in any way is not permitted. Minimum inside diameter of gasket material is .790". Horstman lettering must be present, unaltered and in the up position when raced. Original manufactured restrictor must be unaltered and will be the only acceptable restrictor permitted. No studs permitted. Intake restrictors are to be unaltered, and must be as originally manufactured. Along with tech No-Go gauges, officials may use a known factory plate, or any tool necessary to determine legality of part. Restrictor plate violations subject competitor to disqualification and suspension.

*Maximum carburetor bore inside dimension is .695" NO-GO (B6) and this dimension includes the

entire length of the carburetor bore. With the .696 No-Go (B6) in the backside of the carburetor, it cannot hit the butterfly when opened. The carburetor bore is from the recess on the flange end (end that bolts to block) of the carburetor to the backside of the throttle shaft.

Check with plug gauge from the backside of the carburetor. NOTE: Use plug gauge B100 as a guideline to check radius where air horn meets carburetor throat. This plug gauge is not a No-Go gauge. The venturi is from the throttle shaft rearward and cannot be altered.

*Diaphragm side cannot be used to create a pressure fuel feed. Diaphragm side of carburetor parts must be installed as supplied from the factory. Diaphragm cover plate may be surfaced to ensure a proper seal. No silicone or other material may be applied to diaphragm side of gaskets. After-market diaphragms, (including Teflon pumper diaphragm), allowed as long as it is similar material and configuration of Briggs & Stratton diaphragm. Spring and or cap cannot be altered.

*Slotted end of mixture screw is a non-tech item. All other parts of the mixture screw must be stock as from the factory, including rubber O-ring washer.

*Jets must have stock recess on backside, and the hole may be drilled to any size, but configuration must remain stock. Jets with smaller slots allowed. No flat back jets allowed. *No recessing, funneling or elongating of any holes permitted from front or backside. No drilling of any holes anywhere in carburetor.

*Main metering hole: .062 No-Go (B8).

*Idle hole: .028 No-Go (B8).

*Where butterfly meets with throttle shaft, it shall have a minimum dimension of .059". No modification to butterfly or any portion of the air passageway other than carburetor bore is allowed.

*Butterfly screw: Butterfly screw minimum length of butterfly screw is .322". Butterfly screw cannot be altered.

*Felt or foam washer must be on carburetor shaft under lever. Rubber seal must be in proper location in carburetor body for air seal around throttle shaft. If there is not a recess in the carburetor body (older carburetors) for the rubber seal the rubber seal is not a tech item, but the felt/foam washer still needs to be on throttle shaft.

*Stop-arm on throttle shaft is not a tech item. Arm may be bent, filed or cut. Remainder of throttle shaft must be unaltered;

except for throttle shaft measurement on the back edge must be .086" minimum. Front edge must be .040" minimum, machined

recess-backside min .030" (B23). Surface may be machined to spec but component must remain stock configuration. Use Micrometer as No-Go. Set micrometer at .086" and if any part of the backside enters, throttle shaft is illegal, then set micrometer at .040" and if any part of the leading edge enters, the throttle shaft is illegal. Carburetor linkage tech stops at the throttle shaft. Bell crank and link to shaft are non-tech items. The throttle shaft hole in the body of the carburetor cannot be moved and should be checked with gauge (B100A)

*Diameter of carburetor recess from flange to throttle bore is .726 maximum for entire length, and must remain stock as cast. The depth of the recess should be checked with gauge (B103)

6.417 AIR HORN Maximum dimension is 1.011" (checked with B11 No-Go gauge). No-Go area is machined area at or below breather hole.

*If choke is retained, it must remain stock and complete.

*No long brass pick-up tube allowed. Screens on either pickup tube on stock carburetor are not tech items. Short tube maximum size is .066" NO-GO (B8), to be checked with #51 drill blank. NO-GO cannot pass completely through tube when checked from either end.

*Breather tube must be removed from carburetor. The hole in the carburetor may be plugged.

*No rifling, metering hole protrusions, dimpling, etc. permitted.

- *A tab to reinforce a broken tank bolt ear on the carburetor-to-tank flange of carburetor is allowed.
- *Entirety of carburetor casting will remain stock. No after-market coatings are permitted.
- *Remote mechanical carburetor adjusters legal in all stock classes.
- *Holes left after removal of choke and threaded hole at floor of air horn may or may not be plugged so long as plugging does not protrude into air-horn area.
- *The hole in some of the new carburetors located in the boss used on stock carburetors for the governor linkage must be plugged (if the hole breaks through into the bore) and the material used to plug the hole must not protrude into the bore of the carburetor.

6.418 HEAD BOLTS

Any stock head bolt may be utilized and eight are mandatory. Head bolts with stud allowed.

6.419 CYLINDER HEAD

Stock Briggs & Stratton 5 HP cylinder head. Machining of gasket surface and post metal bosses on top of cylinder head is permitted. No machining of any other portion of head permitted. Bead blasting or sand blasting of head is allowed. Coils or threaded insert is allowed, providing spark plug is located in original position, and no protrusion of insert into chamber occurs. Three planes of head interior surface are subject to check by depth-gauge to establish their proximity to gasket-area surface. Carbon build up on the head that cannot be readily wiped-off with a dry cloth will be considered part of the head for tech measurement purposes.

- *In the flat area above the piston .011" minimum.
- *Spark Plug area .408" minimum.
- *In the area above valves opposite cylinder bore area .300" minimum. Max. depth of deepest valve contact point .315".
- *Cylinder head bolt holes .3480" maximum.

6.420 HEAD GASKET

Briggs & Stratton production head gaskets are approved and after-market gaskets of general stock configuration (accommodates all head bolts, follows general stock pattern; does not extend to form "Heat sink" etc.) are acceptable. Gasket sealer must not be utilized on head gasket. No aluminum or copper gaskets allowed.

- *Head gaskets must be a minimum of .043" thickness at four points between head bolts, front, rear and both sides.

6.421 BREATHER VALVE

Stock breather chamber. Valve must be unaltered. Foam is not a tech item. Tech will include complete breather valve assembly including the grommet. Two breather valve chamber gaskets are allowed. Either Briggs breather part number 555073, or the newer breathers 791779, both are legal parts.

6.422 VALVES

Stock valves only. No stellite type valve allowed as found in industrial style engines. Must be one angle only. Valves may not be polished or lightened. If working area (that portion of the valve stem translating with the valve guide area) of valve stem is cleaned, no material may be removed, such as linear grooves, cross-hatching, etc.

- *Intake Valve: 30 degrees (B24). Intake valve minimum diameter is 1.115" NO-GO (B9).
- *Exhaust Valve: 45 degrees. Exhaust valve minimum diameter is .990" NO-GO (B9).
- *Minimum thickness of valves between top (flat area) and seating surface to be minimum .035" (no "knife edging" of valve allowed.) Valves will be checked with gauge for head thickness and legality will be determined by that gauge (B22).

6.423 VALVE SPRINGS/RETAINERS

Exhaust spring may be used on both intake and exhaust, but must meet all stock specs. Metal may be removed from both ends of valve spring to allow spring to comply with No-Go gauge of valve spring.

Back facing of upper portion of valve chamber to stabilize valve spring retainers and prevent spring bind is allowed. Maximum exhaust valve spring length is 1.500" MUST-GO (B4); and a minimum length of 1.300" NO-GO. Minimum .088" wire diameter max.

.093" measured in three places. Inside diameter of spring: .625" minimum, .640" maximum.

*If intake spring (on intake only) is used to must measure a maximum of 1.240" MUST-GO (B4) in length. With a maximum of .087" wire diameter, measured in three places on spring.

*One Briggs & Stratton upper Retainer may be used on each valve spring. Retainer must be unaltered factory stock. Maximum lip thickness Briggs part #23184 is a min of .050" and a max of .058" and Briggs part #555147 is a min of .015" and a max of .025". Stock lower retainers must be used.

6.424 VALVE SEATS Valve seats must meet stock specs, and can be replaced. Seats must have one angle only, 30-degree intake and 45 degree exhaust. Seats may not protrude above block casting or deck surface. Pin Punching may be used to tighten a loose valve seat. No more than eight approx. evenly spaced pin punches per valve seat. When re-facing valve seat it must be understood that if the tool for checking valve seat height enters valve seat, that gauge will determine legality.

*Intake seat inside diameter: max. 1.004" NO-GO (B1).

*Intake seat maximum thickness .215". Minimum thickness .199".

*Exhaust seat inside diameter max, .880" NO-GO (B4).

*Exhaust seat maximum thickness .215". Minimum thickness .199".

6.425 CYLINDER BORE

No circular or machined grooving of cylinder is allowed in any position of cylinder.

*Stock cylinder bore is 2.5625" NO-GO (B7) and overbore is permitted providing it does not exceed 2.6025" (Approximately .040" overbore).

6.426 DECK/PISTON CLEARANCE

Machining of deck surface is permitted. Piston pop-up cannot exceed a maximum of .005" above block surface in either the center or the front of the piston. When measuring piston pop-up, it should be accomplished with bar stock (B5) on a parallel with the piston wrist pin in center of the piston, and using a dial indicator check the piston pop-up in this area. To assure block gasket mating surface is not peak cut, place bar stock (B5) across front of piston,

and using a dial indicator check the pop-up in this area. The piston pop-up cannot exceed a maximum .005". Carbon build up on the piston that cannot be readily wiped off with a dry cloth will be considered part of the piston for tech measurement. Decking of block cannot extend into the aluminum at rear of block (Top of fin.)

6.427 CAMSHAFT

All cam profile readings must be taken with zero valve lash and degree wheel at top dead center (TDC) of compression stroke. Set dial indicator at zero and do not reset during the profile process. Ground cams are allowed but must meet all Briggs & Stratton factory specs and alignment. Camshaft blanks that have been center drilled from the factory legal. The camshaft lobes must remain flat and of original width. Maximum camshaft base circle is .770".

CAMSHAFT PROFILE LIMITS:

Exhaust

Lift Degrees

0.050" 38 BBDC to 33 BBDC

0.100" 21 BBDC to 16 BBDC

0.150" 2 BBDC to 3 ABDC

0.200" 21 ABDC to 31 ABDC

Max. Max. Lift is .233"

0.200" 76 BTDC to 65 BTDC

0.150" 48 BTDC to 40 BTDC
0.100" 28 BTDC to 21 BTDC

0.050" 10 BTDC to 4 BTDC

Intake

Lift Degrees

0.050" 7 BTDC to 0 TDC
0.100" 10 ATDC to 17 ATDC
0.150" 29 ATDC to 36 ATDC
0.200" 55 ATDC to 64 ATDC
Max. Lift is .233"
0.200" 43 BBDC to 33 BBDC
0.150" 13 BBDC to 6 BBDC
0.100" 6 ABDC to 13 ABDC
0.050" 23 ABDC to 31 ABDC

*Ez-Spin start: 45 degrees to 60 degrees ABDC

*Ez-Spin lift Base: .013" minimum, .019" maximum width, .001" maximum drop during the 30 degree duration time. Example: If Ez-spin starts at .015", it may drop to .014" and move around between .014" and .015", but not go above .015". Second Example: if ez-spin starts at .015" and rises to .016", it may move around between .015" and .016", but not fall below .015". At no time can the Ez-spin or the .001" travel go above .019" or below .013". Note: All cam profile readings must be taken with zero valve lash. When checking cam profile, rotate engine in the normal running direction only. Valves should have no clearance and no spring tension when checked.

6.428 IGNITION

Briggs & Stratton factory stock coils are mandatory and must be utilized in unaltered form. No slotting of mounting holes or machining of attaching bolts is permitted. New style composite ignition is allowed. There must be resistance from ground to the spark plug end of the plug wire. Spark plug connector must be stock factory type. Rubber plug boot is allowed. May be run with or without air vane. Note: coils may be rechecked for correct ohms reading after a minimum of 10 minutes.

*Resistance from plug wire must be 2,000 ohms minimum and 5,000 ohms maximum.

6.429 STARTER

New style recoil starter may be retained as produced and intact, however, if new style recoil is removed, starter cup must also be removed. Old style recoil starter must be removed. Crankshaft may be cutoff to facilitate any style nut and use of electric starter.

6.430 FLYWHEEL

Only stock, 5 HP flywheel is permitted. New Briggs & Stratton flywheel part #555657 with machined backside allowed. If new flywheel is used the ignition may be spaced out on coil post. New Flywheel part #555657 is a legal flywheel. Any flywheel key or no flywheel key is allowed. Painting and coating of the flywheel (other than minimal factory over-spray) is not permitted. No machining, glass-beading or sand blasting of flywheel is allowed. Chipped fins because of poor casting is allowable, however, completely broken fins are not allowed. Flywheel washer must be stock.

*Weight of flywheel shall be 6 lbs. 4 ozs., minimum.

6.431 CRANKCASE SIDE-COVER

Side-cover must remain stock except block and side-cover may be pin-punched to help prevent side-cover gasket failure, and stub for governor may be removed and hole plugged to prevent leakage.

*After-market gaskets approved, however, must be of same size and material as stock gasket(s). Up to three crankcase gaskets are allowed.

6.432 VALVE LIFTERS

No extended or adjustable lifters allowed. After-market lifters are allowed, and must meet all stock configurations and all stock specifications. No titanium lifters allowed.

*Head of lifter have a minimum .982" diameter, 1.005" diameter maximum.

*Maximum length of lifter 1.606".

*Stock configuration of lifters will be checked with a gauge (B21) and that gauge will determine stock configuration legality.

6.433 VALVE SEAT HEIGHT

Install a .500" rod in place of the cam and replace side cover. Measure through the valve guide from top edge of .500 rod to the top of the surface of the intake or exhaust valve seat. Minimum 5.485"/Maximum 5.520" (B19). Aluminum may be removed from top of seat to check seat height. Lifter bore and valve guide bore must accept seat height gage rod.

6.434 CONNECTING ROD

Connecting rod may not be lighter in weight than known stock component. No .020 undersized rods allowed. No under sizing of connecting rod is permitted, however, rod may be clearanced providing that it is in stock configuration and finish with no "dimpling" or media blasting. Rod ends must be concentric with crankshaft journal and/or wrist pin with no chamfer or breaking edges. Raptor III rod and dipper is legal; Dipper on Raptor III rod may be broken, however it must be a natural break with no grinding, polishing, or bead blasting visible. Old style rod (after market dipper) is a non-tech item.

*Stock rod length is 3.1220" minimum, 3.1333" maximum. Measured from bottom of wrist pin to top of crankshaft journal.

*Oil hole opening, Raptor 3 or old style rod, is .185" NO-GO (B16). *ARC rod part #6328, #6330, #6348, #6350; CKI Part #3875; Horstman Rod Part #H-498100, #H-498101, #498105; Rix Rockets/Ebert Part #3.875; WMS Rod Part #7070, Part #7575 are the only approved after market rods legal for stock classes. No polishing of rods allowed. Steel .250" rod bolts only. Minimum total rod weight 135 grams. Minimum rod weight less insert 113 grams. Minimum insert weight 22 grams.

6.435 WRIST PIN: *Wrist pin must not be altered.

*Maximum inside dimension of wrist pin is .290"

*Maximum outside dimension is .490".

6.436 RAPTER III WRIST PIN SPECS:

*Maximum inside dimension of wrist pin is .291".

*Maximum outside dimension is .490".

*Length 1.715" minimum.

6.437 RINGS

Three rings are mandatory. Compression, or top ring, if chamfered, may have either a beveled or chamfered inside face, and must remain as manufactured. Scraper or second ring may only have an external circumference relief area. Ends of ring must remain flat. Mandrel check is no longer required. New factory rings from B&S without beveled on top ring and with relief around circumference of second rings are permitted. Excessive end gapping of rings not allowed. New style, beveled top compression ring (factory produced) is approved. Rings must conform to all listed factory specifications and be of stock configuration. Known, standards for piston/ring configurations are B&S factory approved parts. No machining of rings allowed. Exception; lapping and end gapping allowed. Shrinking of oil ring and low-tension ring allowed. Rings must be in one piece when removed from block, with the exception of the Raptor III oil ring, all broken pieces must be present in the ring land. If not, the ring will be illegal. *Top two rings, .105" minimum width (For wear).

6.438 OIL RING

Oil ring must have minimum .085" width (for wear). Groove and six oil relief slots must be present on oil ring. Groove must measure .083" minimum, regardless of condition of ring.

*End gap with rings compressed on ring gauge cannot exceed .500" when checked on ring gauge (B7).

*Top ring cannot exceed standard B&S ring land width of .084 maximum.

6.439 RAPTOR III RING SPECS:

*Minimum width top two rings .090".

*Overall thickness top two rings .058" + or - .005". The step of second ring is 0.035" min.

*Oil ring minimum width .070", rings groove must be present.

*Oil ring thickness .100" + or - .005".

6.440 PISTON

Stock B&S piston mandatory. No excessive cleaning of top or skirt of piston allowed. Wrist Pin hole may not be relocated, minimum honing of wrist pin hole allowed. No machining is allowed on piston.

*From top of piston to wrist pin bore .937" minimum measurement.

*Minimum piston length is 1.869".

6.441 RAPTOR III PISTON SPECS:

*From top of piston to wrist pin bore .937" minimum measurement.

*Minimum piston length is 1.671".

*Top two ring-land widths .0603" - .0612".

*Oil ring land width .1020" - .1032".

6.442 CRANKSHAFT

Stock factory crankshaft mandatory. Stock factory timing gear mandatory, and must be installed properly. Lightening, polishing of counter weights, addition of metal or other material is not permitted. Hardening of stock

crankshaft is permitted in all classes to reduce premature journal wear. The power takeoff journal of a sleeve-bearing crankshaft may be machined (Turned-down concentrically) to permit its use in a ball bearing block. Offset crankshafts are not permitted. After market bearing of non-self aligning type, with or without shield, is permitted. No stroker crankshafts allowed.

*Minimum crankshaft journal diameter is .990".

*Crankshaft may be clearanced to a minimum dimension of .775" to permit easier removal of the bearing.

6.443 STROKE

Stock stroke is 2.4370", plus .007" or minus .010" for wear. Check with stroke pin (B3) or dial indicator.

Pushing piston down to take up play of rod clearance checks stroke. Stroke is checked from bottom dead center (BDC) to top dead center (TDC).

6.444 PORTS

Porting is allowed. Ports surface are non-visual tech item. No addition of material allowed. Block may not be machined or altered on intake or exhaust port "gasket mating" surfaces. No grinding is allowed on underside of valve seat. No holes in ports allowed. If port is pin-punched, it may not be done in a manner to prevent entry of a No-Go into port area.

*Intake port .880" NO-GO (B1).

*Exhaust port 1.005" NO-GO (B14).

6.445 BLOCK

Must be as produced, with no alterations or reworking. Blocks repaired from broken rod damage, cracked lifter area, etc., are permitted providing that repair does not constitute a functional modification of original block. Porting of intake and exhaust ports allowed, block may not be machined on intake or exhaust ports gasket mating surface. No peak cutting of deck allowed. No bushings of any kind allowed

except for bushings approved in this tech manual. Du bearing may be installed in conventional block on flywheel side. Extra hole, 1/8" in diameter, may be drilled on flywheel side of block at crankshaft bushing to better lubricate crankshaft (applicable all classes). Sleeving of cylinder block is permitted in all B&S engine classes. Regular ferrous sleeves only, with no coatings or plating, such as nicasil, allowed. The repair of one coil post is allowed, as long as the remaining post is factory and unaltered. Valve guides may be replaced. Aftermarket valve brass or bronze guides allowed as long as they meet stock requirements. Valve guides may be stacked. No knurling of guides allowed. Minor grinding of block behind seal in a double bearing block where crank goes through block is allowed. (To prevent crank from seizing). Chamfering at bottom of lifter bore for clearance purposes only allowed. Diameter of chamfer cannot exceed .500. Chamfer of lifter bore will be teched with a No-Go gauge, which measures .505 (B20). This applies to stock blocks and blocks that have been welded for strengthening purposes. No undercutting of lifter bore permitted.

6.446 WELDING

No welding can be done to an engine from the cooling fins upwards except minor welding to lower exhaust bolt hole is allowed for repair weld cannot protrude into exhaust port. The only welding permitted is to repair damage from a broken rod or cracked lifter bore. Welding of lifter bore for reinforcement of breakage allowed. Installation of bushing guide to help reinforce lifter bore area allowed.

6.6 WKA STOCK ANIMAL ENGINE

All parts must be Briggs & Stratton series 12 engine model # 124332 factory production parts unless otherwise specified in this manual.

No machining or alteration of parts is permitted unless specifically noted. All parts are subject to be compared to a known stock

Briggs and Stratton part. No reading between the lines. If it is not in the rules, it must remain, stock. UNLESS OTHERWISE STATED ENGINE WILL BE TECHED AS RACED.

6.611 SHROUDS & COVERS

Engine shroud and covers and control bracket must be intact and not modified, except control cover which can be modified to attach fuel pump (fuel pump must be visible) and throttle bracket also cylinder cover maybe cut for thermal coupler, intake manifold, and exhaust flange clearance. New Briggs & Stratton air shield/guard Part #555680 may replace plastic control cover and control bracket. All flywheel guards must be bolted to blower housing. Taping of flywheel guard allowed. Tape on block disallowed. No part of flywheel guard may protrude inside of the flat plane of the blower housing.. NO revolving flywheel guards allowed. Any bolt utilized to secure sheet metal, shrouding, etc., with the exception of sheet metal secured by the head bolts, may be replaced with larger diameter bolt(s). Stock kill switch is allowed and is no longer a tech item.

6.612 HEADER/SILENCER: Exhaust pipe/header must not extend past rear bumper (including silencer, where applicable) and have no exposed sharp edges. Header shall have a maximum length of 24" to be measured in the ID using a .250" wide tape measure. Measurement to be made with silencer off of pipe and tape tight. If any part of the pipe is less than maximum the pipe is legal. Loop header pipes NOT ALLOWED. Header/exhaust pipe MAY NOT PROTRUDE inside of exhaust port. Header pipes MUST be wrapped to protect driver from burns.

*Gasket and/or silicone allowed to seal the header.

*Header must be of fixed design. NO SLIPPY PIPES allowed. No extra tubes or extra holes allowed except hole for heat sensor probe if sensor is used.

*All header pipes must be of continuous length from flange to end of pipe with stages or butt welds permitted (no chamber, infusers, or covers of any type allowed on silencer etc.). Silencer must be visible when viewed from any angle. Header tube and silencer only legal parts.

*Extra Heat Shield above chain guard is allowed.

*All header pipes must be of continuous length from the flange to end of pipe with stages or butt welds permitted (no chamber, infusers, or covers of any type allowed on muffler, etc.) A Header support brace and safety wiring of header bolts or studs is required to insure header bolts remain tight. It is required that the safety wire wrap around pipe to insure that bolts remain with pipe in case they are stripped out of block. Silencer must be tight, secure, and completely intact on the header through out the entire event. Silencer must be clamped to header tube and no welding of silencer in any area. Silencer must be visible when viewed from any angle. Header tube and silencer only legal parts.

*Silencer baffle holes .1285" maximum all baffles. SILENCER: In events where silencing device is mandatory, use of RLV-91 silencer is mandatory. Silencer must be utilized as produced, with no modifications or alterations permitted. *The flange that bolts the header to the block cannot be thicker than 0.312" Max.

6.613 AIR FILTER

Any air cleaner permitted. Must be installed directly to carburetor. No filter adapter allowed. Filter may not be used as an air ram and must filter from all areas as raced. Any open areas in filter must be covered with a filter sock. (No open areas allowed.)

6.614 CARBURETOR

PZ Model 22 Carburetor only. Must be stock as from the factory except any parts that are inside the float bowl or that can be removed through the float bowl are non-tech items. Any 1/4" bolts may be used to attach Carburetor to intake. No studs allowed. Carburetor to intake sealer is by O-Ring only. No sealer allowed. Air must enter carburetor at air horn only. Choke must be stock as manufactured from factory except choke maybe secured in open position. Adapter will be allowed on end of fuel inlet of carburetor for attachment of 1/4" fuel line.

*Maximum throttle bore inside dimension is .874" (A7) NO-GO. Must be as cast.

6.615 CHOKE BORE

1.149" (A7) NO-GO. Must be as cast.

6.616 VENTURI

Vertical .792" No-Go (A7), this measurement shall be made with the NO-GO held parallel to the bore of the carburetor. Horizontal .615" NO-GO (A8) for top and bottom of venturi (widest part) , and .602" NO-GO (A20) will be the horizontal check for the narrowest part of venturi, and this NO-GO may not enter slide area. Air pick off hole maximum .061" No-Go (A9).

6.617 SLIDE

Minimum length top edge of slide to deepest part of cut away 1.148" NO-GO (A10). Must be stock as from factory.

6.618 NEEDLE JET

1.690" maximum length and 1.680" minimum length. Taper on needle must remain stock and will be checked at .500" from the tip of the needle and must not be smaller than .070" NO-GO (A4).

6.619 RESTRICTOR PLATE

Must be stock as manufactured. NO ALTERATIONS ALLOWED. Single hole restrictor plate will be used for the 2010 racing season. .505 to be checked with 0.506" NO-GO (A24) gold restrictor will be used for the Briggs Jr. classes. A 0.575" to be checked with a 0.576" NO-GO (A24) Restrictor plate must be flat and placed between carburetor and intake, and sealed within gasket area. There must be one gasket between the restrictor plate and the intake manifold. Addition of material or funneling of gasket(s) not allowed. Any attempt to bypass, modify restrictor is prohibited.

Anodizing may not be removed from restrictor plate. Horstman lettering must be present, and tab on plate must be on right side when looked at from the carburetor side. Intake restrictors are to be unaltered, and must be as originally manufactured. Along with WKA Tech No-Go gauges, officials may use a known factory plate, or any other tool necessary to determine legality of part.

Restrictor plate violations subject competitor to disqualification and possible suspension.

6.620 INTAKE

Stock animal intake as supplied from the factory. No modifications allowed except machining of gasket surface is permitted to meet rule specs. However the gasket surface must remain flat for proper gasket seal the intake to block, and one intake carburetor mounting hole may be drilled out and checked with a 0.328" NO-GO, and the width of the intake to carburetor slotted hole will be checked with the same NO-GO.

*Length: 1.740" NO-GO 1.760 MUST GO (A12)

*Inside I.D. 0.885" MUST GO 0.905" NO-GO (A11)

*Intake to block gasket: after market gaskets are allowed. No sealants are allowed. Maximum Gasket thickness .070" .

6.621 FUEL PUMP

Auxiliary pulse-type fuel pump allowed. Fuel pump must be externally mounted. Fuel pump must be pulsed only from the crankcase upper oil fill cap.

6.622 VALVE COVER

Stock valve cover as manufactured from factory, that includes the breather hole for the tube that runs to the catch can (no threading of hole allowed).

*Valve cover gasket must meet stock configuration. No sealer allowed.

6.623 ROCKER ARMS

Must be stock as from the factory.

*Minimum length is 2.865" NO-GO (A13).

6.624 CAMSHAFT

All cam profile readings must be taken with zero valve lash and degree wheel at top dead center (TDC) of compression stroke. Readings shall be measured from push rods. Set dial indicator at zero and do not reset during the profile process. Only stock factory camshaft cores from Briggs & Stratton are permitted, part numbers 555532 and 555584. Lobes may be ground, but not to exceed .870 base circle. Mechanical compression relief non-tech. Camshaft lobes must remain flat and of original width.

*Maximum valve lift of 0.255" taken directly off the valve assembly at zero valve lash. Place dial indicator on valve keeper then tighten ball rocker till you see indicator move 0.001" to 0.002" this will assure that all the lash is taken out of the valve. Set dial indicator to zero and then check lift. When checking the lift off the valve keeper the only dial indicator holder that will be used is three leg holder Sox holder #AT320A or similar indicator

13.15.1 CAMSHAFT PROFILE LIMITS:

Intake

Lift Degrees

0.020" 18 to 13 BTDC

0.050" 0 TDC to 4 ATDC

0.100" 16 ATDC to 20 ATDC

0.150" 33 ATDC to 37 ATDC

0.175" 42 ATDC to 46 ATDC

0.200" 53 ATDC to 57 ATDC

0.225" 67 ATDC to 71 ATDC

Min. Min. lift is .252"

Max Max. lift is .257"

0.225" 39 BBDC to 35 BBDC

0.200" 25 BBDC to 21 BBDC

0.175" 15 BBDC to 11 BBDC

0.150" 5 BBDC to 1 BBDC

0.100" 12 ABDC to 16 ABDC
0.050" 28 ABDC to 32 ABDC
0.020" 44 ABDC to 49 ABDC
Exhaust
Lift Degrees
0.020" 61 BBDC to 56 BBDC
0.050" 44 BBDC to 40 BBDC
0.100" 27 BBDC to 23 BBDC
0.150" 11 BBDC to 7 BBDC
0.175" 1 BBDC to 3 ABDC
0.200" 10 ABDC to 14 ABDC
0.225" 24 ABDC to 28 ABDC

Min Min lift is .252"
Max Max lift is .257"
0.225" 78 BTDC to 74 BTDC

0.200" 64 BTDC to 60 BTDC
0.175" 53 BTDC to 49 BTDC
0.150" 43 BTDC to 39 BTDC
0.100" 27 BTDC to 23 BTDC
0.050" 10 BTDC to 6 BTDC
0.020" 5 ATDC to 10 ATDC

6.625 BALL ROCKER

Stock as manufactured from factory.
*0.590" NO-GO - 0.610" MUST GO (A16)

6.626 PUSH ROD

Stock as manufactured from factory.
*.185" - .190" diameter.
*Length 5.638" NO-GO - 5.656" MUST-GO (A5).

6.627 HEAD BOLTS

Stock head bolt must be utilized and four are mandatory. All other external metric bolts may be replaced with American standard bolts of appropriate size.

6.628 HEAD GASKET

Briggs & Stratton and after market head gaskets are allowed of stock design. Gasket sealer cannot be utilized on head gasket. No aluminum or copper head gaskets allowed.
*.049" Min. thickness measured in four places between head bolts. Measurement to be made from inside of gasket. Measurement to be made with a micrometer. *Briggs & Stratton fire ring head gasket part # 555698 allowed. Minimum thickness 0.042" on metal fire ring part of the gasket.

6.629 CYLINDER HEAD PLATE

Must be stock as from the factory.
*Cylinder head plate gasket must be stock configuration. Maximum thickness .055".

6.630 ROCKER ARM STUDS

Must be in stock as manufactured from the factory.

6.631 VALVES

Stock valves ONLY. Must be one angle. Valves may not be polished or lightened. If working area (that

portion of the valve stem translating with the valve guide area) of valve stem is cleaned, no material may be removed, such as linear grooves, cross-hatching, etc. Minimum intake and exhaust valve length 3.372" + or - 0.010"

6.632 INTAKE VALVE

45 degrees (A22). Intake valve minimum diameter is 1.055" NO-GO too 1.065" MUST-GO (A17). Allowed Depth of dish in valve .099" to .119". Minimum height from angle of valve face to top of valve 0.057" using gauge (A26) (check using a depth micrometer from top of valve to the gauge)

6.633 EXHAUST VALVE

45 degrees (A22). Exhaust valve diameter is .935" NO-GO to .945" MUST-GO (A18). Allowed Depth of dish valve .084" to .104". Minimum height from angle of valve face to top of valve 0.060" using gauge (A27) (check using a depth micrometer from top of valve to top of gauge)

6.634 VALVE SPRINGS

Stock Briggs and Stratton valve springs and keepers are mandatory. Springs must remain unaltered as supplied from factory.

6.635 INTAKE AND EXHAUST SPRING

Maximum valve spring length is .930" NO-GO (A15) .103" - .107" wire diameter, measured in three places on spring. Inside diameter of spring .615" minimum, .635" maximum.

6.636 VALVE SPRING RETAINERS

Stock as manufactured from factory.

*.060" - .070" thickness permitted.

6.637 CYLINDER HEAD

Stock Briggs and Stratton cylinder head part #555635. Machining of gasket surface only allowed. No machining of ports allowed. Bosses on head may be tapped to allow for the attaching of a header brace.

*Depth of head at shallow part of head .011" minimum. The measurement on the shallow side of the combustion chamber will be taken with a depth gauge on the push rod side of an imaginary line drawn from dowel pin to dowel pin on valve side of the dowel. It will also be taken over the spark plug area. The rest of the recess area in the head has no depth dimension, but the recess must remain visible. Depth at floor of head .319" min.

*Depth to top of valve seat: .360" maximum. .335" minimum. *Head thickness measured from head gasket surface to head plate gasket surface is 2.420" (A29). Head thickness to be checked in four places through the valve guides and the push rod holes with gauge. Not calipers. *Width of combustion chamber at the widest part across the valve seats area checked with a 2.640" NO-GO (A30) at a depth of 0.200" in the combustion chamber.

6.638 VALVE SEATS

Must be one angle ONLY on valve seats. Stock Briggs and Stratton valve seats are mandatory.

*Intake seat inside diameter, .966" MUST-GO - .972" (A2) NO-GO.

*Exhaust seat inside diameter, .844" MUST-GO - .850" (A1) NO-GO.

*Exhaust and intake seat 45-degree angle.

6.639 PORTS

Must have stock configuration. No porting or modifications of any kind allowed.

*Intake inlet: .918 No-Go (A6) when checking 90 degrees to stud pattern No-Go will be straight, when checking in line with stud pattern No-Go will set on floor port at bottom and stop at upper edge of port on top. *0.864" NO-GO (A28) cannot touch the valve guide of the intake port. 0.860" (A28) Plug gauge will be used as a visual check of the eyebrow area this is not a no-go but a visual assist tool.

Exhaust Outlet: .980 No-Go (A6).

6.640 VALVE GUIDES

Stock valve guides as supplied from factory. Stock replacement guide part #555645 allowed.

Maximum depth from cylinder gasket surface to top of valve guide is 1.255.

6.641 DECK/PISTON CLEARANCE

Machining of deck surface is permitted. No peak decking allowed. Piston pop-up CANNOT exceed .005" above block surface in the center of the piston. When measuring piston pop-up, it should be accomplished with bar stock (A25) on a parallel with the piston wrist pin and, using a dial indicator check the piston pop-up in this area. Then without moving the dial indicator rotate the bar 90 degrees on the center line of the piston and check the pop-up it should not exceed 0.005"

6.642 CYLINDER BORE

No circular or machined grooving of cylinder is allowed in any position of cylinder.

*Stock cylinder is 2.690" and overbore is permitted providing it does not exceed 2.725" (approximately .035" overbore).

6.643 STROKE

Stroke is 2.204" Max. Check with stroke pin (A21) or dial indicator. Stroke is checked by pushing piston down to take up play of rod clearance. Stroke is checked from bottom dead center (BDC) to top dead center (TDC).

6.644 IGNITION: If stock flywheel part # 555625 is used, the coil must be stock Briggs coil part # 557040 must be utilized in unaltered form. No slotting of mounting holes or machining of attaching bolts is permitted. There must be resistance from ground to the plug wire. Spark Plug Connector must be stock factory type. Rubber plug boot allowed. Note: Coils may be rechecked for correct ohms reading after a minimum of 10 minutes.

*Resistance from plug wire must be 3,000 ohms minimum and 6,000 ohms maximum. NOTE: Coils may be rechecked for correct ohms reading after a minimum of 10 minutes.

6.645 STARTER

Recoil starter may be retained as produced and intact, if recoil is removed, starter cup must also be removed. Any style nut and use of electric starter allowed.

6.646 FLYWHEEL: Stock flywheel Briggs part # 555625 or STOCK PVL flywheel Briggs part # 555683. Any flywheel key or No flywheel key is allowed.

No machining, glass beading or sandblasting of flywheel is allowed. Flywheel washer must be stock. Weight of flywheel: 4 lbs. and 8 oz. MINIMUM. (PLV FLYWHEEL WEIGHT-4lbs. 4 oz. No modifications allowed)

6.647 CRANKCASE SIDE-COVER

Side-Cover must remain stock.

6.648 CRANKCASE SIDE-COVER GASKET

After market gaskets approved, however must be of same size material as stock gasket(s). One or two crankcase gaskets are allowed.

6.649 VALVE LIFTERS

Stock lifter as supplied from factory.

*Head lifter have a minimum .820" NO-GO - .860" MUST-GO (A19).

*Maximum length of lifter 1.515" NO-GO - 1.525" MUST-GO (A14).

6.650 CONNECTING ROD

Stock connecting rod ONLY. Connecting rod may not be lighter in weight than known stock component. No under-sizing of connecting rod is permitted, however, rod may be clearanced providing that it is in stock configuration and finish with no "dimpling" or media blasting. Rod ends must be concentric with crankshaft journal and/or wrist pin with no chamfer or breaking edges. The use of all first and second generation, and new Briggs stock rod bolts part # 555654 are allowed. Minor grinding of crankcase allowed for clearance of new rod bolts.

*Stock rod length is 2.419" minimum, 2.429" maximum. Measured from bottom of wrist pin to top of crankshaft journal.

*Oil hole opening, new or old style rod, is .185" No-Go (B16).

6.651 WRIST PIN

Wrist pin must not be altered.

*Maximum inside dimension of wrist pin is .414".

*Outside dimension is .624" - .626".

*Minimum length, 1.901.

6.652 RINGS

Three rings are MANDATORY. Compression, or top ring, chamfer or O must face up, and must remain as manufactured. Scraper ring must be installed with inside chamfer down and O up. Stock oil ring must be installed as from factory. Rings must be self-supporting in the cylinder bore of the engine being teched. Ends of ring must remain flat. Excessive end gapping of rings not allowed. Rings must conform to all listed factory specifications and be of stock configuration. Known, standards for piston/ring configurations are B&S factory approved parts. No machining of rings allowed. Exception; lapping and end gapping allowed. Rings must be in one piece when removed from block.

*Minimum width top two rings .095".

*Thickness top two rings .059"- .064".

*Oil ring minimum width .065", ring groove must be present. Expander ring must be installed.

*Oil ring thickness .098" - .102".

6.653 PISTON

Stock, unaltered B&S Animal piston MANDATORY. Wrist pin hole must not be altered or relocated except minimum honing of wrist pin bore allowed. New style Briggs & Stratton piston with cir-clip on both sides of wrist pin bore allowed. Deck above top ring must not be altered. No machining is allowed on piston. Arrow must point toward flywheel.

*From top of piston to wrist pin bore .658" minimum measurement. Check on circlip side of piston.

*Minimum piston length is 1.768".

6.654 CRANKSHAFT

Stock factory crankshaft mandatory. Stock factory timing gear mandatory, and must be installed properly. Lightening, polishing of counter weights, addition of metal or other material is not permitted. Offset crankshafts are not permitted. After-market bearing of non self-aligning type, with or without, shield is permitted. Shims if used must be installed as from factory. No ceramic bearings allowed.

*Crankshaft journal diameter is 1.094" - 1.100".

6.655 BLOCK

Must be as produced, with no alterations or reworking. Blocks repaired from broken rod damage, are permitted providing that repair does not constitute a functional modification of original block. No bushings of any kind allowed except for bushings approved in this Tech Manual. The repair of one coil post is allowed, as long as the remaining post is factory and unaltered. No KNURLING of guides allowed.

6.656 WELDING

No welding can be done to an engine from the cooling fins upwards. Cam boss repair or welding not allowed. External welding of block is only allowed to repair damage from broken rod.

6.657 CLUTCH

Dry clutches are mandatory (same clutch used in all other Briggs & Stratton classes).

6.658 ENGINE SEALS

The engine will be sealed with two wires. One wire will run between a valve cover bolt and an intake to an engine bolt to the nut side of a carburetor to intake bolt. The other wire seal will seal the front side of the cover bolt.

6.659 FUEL LINES

Fuel lines must be safety-wrapped at all connecting points.

6.8 BRIGGS AND STRATTON LO206

WKA engine rules apply for this motor. Engines must retain original Briggs factory seals. For specific rules on this motor refer to WKA technical manual.

SECTION 7 KID SPRINTS

7.1.1 KID SPRINTS Drivers age 6 through 12 or as approved by Raceway Park officials.

7.2.1 FRAME

Must be constructed of minimum 1" O.D.X .083 wall thickness or 1" x .065 wall thickness 4130 chrome moly tubing. The front upright can be no further back the front edge of the steering wheel. Rear upright must be behind the driver. Cage must be constructed in a manner acceptable to Raceway Park officials. Minimum 3" bend radius. All main post intersections must be adequately gusseted. Minimum 3" clearance from the top of the drivers helmet to the top of the halo/cage when the driver is seated in the car as raced. Horizontal shoulder must be installed behind the driver. Shoulder bar must be within 1 1/2" above or below the drivers shoulder level when the driver is seated in the car as raced. All cages must be padded in a manner acceptable to Raceway Park officials.

7.2.2 WHEELBASE

Minimum 50" center to center Maximum 52" center to center

7.2.3 WIDTH

Maximum 55" outside of tire to outside of tire.

7.2.4 WEIGHT

Minimum car and driver 400lbs Weight is taken as car exits racetrack. All weights must be securely mounted. No loose weights permitted. No liquid ballast permitted. All weights must be mounted below the body lines.

7.2.5 BUMPERS

Cars must have bumpers and nerf bars to race. Front and rear bumpers must extend beyond the front and rear tires. Nerf bars must be between the front and rear tires. Must be minimum to the inside edge of the tires. May not extend beyond the outside edge of the tires. Tire/wheel must be the widest part of the car. All nerfs and bumpers must be smooth, and of a design as to not create a safety hazard. Any nerfs or bumpers not acceptable to Raceway Park officials will be repaired or replaced before being allowed to race.

7.3.1 SAFETY EQUIPMENT

Raceway Park approved 5 Point safety restraint system (seat belts) required. Restraints must be dated 2008, 2009, 2010. Restraints must be installed as required by the manufacturer. Arm restraints required. Arm restraints must be adjusted to keep all parts of the drivers arms below the top of the roll cage. Drivers must wear SFI rated full drivers suit. SFI rated gloves, shoes, and socks mandatory. Nomex head sock recommended. Head nets (rated 3.2.1 or higher) or neck brace/support required. Full containment seats recommended. Full face helmet meeting SA 2000 or higher required. All safety equipment must meet the approval of Raceway Park official's

7.4 DRIVERS COMPARTMENT

Clearly marked functional on/off switch located on dash cowl or steering wheel required. Permitted controls are : carb adjusters, kill switch , starter switch, and engine monitors. No radios, wing sliders, mirrors, or suspension controls permitted in drivers compartment.

7.5 BATTERIES

All wet cell type batteries mounted in drivers compartment must be covered and properly vented. Gel type batteries recommended.

7.6.1 SUSPENSION

Aluminum or steel body shocks permitted. Only 4 Shocks per car, 1 per wheel. Front hubs shall be Kart style 5/8" bearing with minimum 5/16" wheel studs. Rear hubs Douglas 5X130 Kart style or

equivalent. All suspension bolts must be secured by locking device. All cars must be rear wheel drive only. Rear axle to be steel or aluminum, splined with a minimum Diameter of 1.250" O.D.

7.6.2 BRAKES

Functional brakes required that meet the approval of Raceway Park officials. Brakes must stop the car on demand.

7.6.3 WHEEL/TIRE

Wheels must be 8" Dia. Steel or aluminum non-beadlock style. Right rear must be 10X8.50X8 American Racer or Hoosier RD20 No grooving, siping, grinding, or altering of the tires. Front and left rear tire open to any manufacturer. Wheels must mount with 4 or more standard lug nuts or be center knock off style.

7.7 STEERING

Front Wheels must be connected by tubular or solid tie rod. All steering components must be secured with a locking style fastener in a manner acceptable to Raceway Park officials. All steering systems must be approved. Quick release steering wheel required. Center of steering wheel shall be padded.

7.8.1 BODIES

Bodies must be of a sprint car design only. Bodies must be full and complete at all times the car is on the track unless approved by a Raceway Park official. Bodies may be made of fiberglass, aluminum, steel or plastic. Bodies may not be removed for driver to enter/exit car. No components mounted above drivers shoulder line. All cars must have legible numbers on both sides of car and nose. Transponders must be mounted in accordance with track rules. Failure to keep transponder mounted properly and numbers clean will result in not being scored. Firewall required between drivers compartment and engine minimum .060 aluminum or 24 gauge steel

7.8.2 WINGS

Top wings required to begin an event. Cars may finish an event without the wing if approved by Raceway Park officials. Minimum size is 6 square feet. Outside edges of wing must be inside the centerline of the tires. Right and left side side board maximum 42"x20" Side boards must cover center section and may not extend more than 3" beyond center section. Wings must have 1/16" radiused edges No wooden wings. No part of the wing shall be more than 4" below the top of the roll cage. Nose wings optional. May not exceed 24"x18". If running a nose wing car number must be on the wing.

7.8.3 FUEL TANK

All fuel tanks required to have functional one way check valve to prevent fuel leakage.

7.9.1 ENGINE

Briggs and Stratton World Formula engines as defined by KSUSA and FIA homologation specs. Engines may be sealed or unsealed but must pass tech inspection. RLV5442S header or stock pipe and RLV4100 silencer as defined by KSUSA Briggs World Formula rules required. Stock pipes be cut and turned as necessary to fit the chassis as long as the length, diameter and volume remains the same. Full engine down loadable rules are available at www.kidsprintusa.com

7.9.2 FUEL

Fuel is to be Charter approved. As per KSUSA 2010 Engine rules. Approved fuels are Sunoco Purple, VP C-10, VP C-12 or Rocket Fuel 111

7.9.3 TRANSMISSION

The drive will be by engine or jack shaft mounted clutches. No axle mounted clutches permitted. No direct drive permitted. Chain guards required. Minimum .090 aluminum or approved equivalent. Must cover the top of the chain from the front of the front sprocket to the center of the rear axle. Driver must not be able to contact the chain or sprockets when seated in the cockpit.

SECTION 8 WINGED OUTLAW KART -- CHARGER 250 and SUPER CHARGER 500

8.1 DRIVER ELIGIBILITY

Drivers must be a minimum of 15 years old during the current racing season or be approved by Raceway Officials. Any questions as to age eligibility should be directed to Raceway Park officials. New drivers required to start in the rear their first three events. Drivers may be placed in the rear of the line-up at the discretion of track officials until they demonstrate an ability to drive their karts in a sportsmanlike manner.

8.2 FRAME All frames must meet the approval of Raceway Park officials. All frames must be constructed of minimum 1" O.D. Round tubular mild steel or 4130 chrome moly. Any frames constructed of any other material must be pre-approved prior to building. All frames must be of a conventional flat kart design. All frames must pass pre-race tech prior to the night events. All frames must utilize a roll cage adequate to protect the driver in a collision or roll over. The roll cage may utilize a compression spring design. The slip joint fasteners must be pinned, nylocked, double nut or safety wired. All bolted cages must use a minimum of four 5/16x grade 5 fasteners. All cages must provide minimum 2" head clearance for the driver in the as raced position. All cages must have left side drivers protection bars at all times. Left side protection bar may be hinged. Driver must be able to enter and exit the kart unaided. QRC Specifications will be used as a guideline in determining kart eligibility. All axle components, front and rear, must be solid mounted to the frame. No suspension of any type permitted. No champ style, offset karts permitted.

8.3 SAFETY EQUIPMENT

All karts must be fitted with a purpose built aluminum racing seat. Full containment seats highly recommended. Seat must be securely bolted to the frame in a manner acceptable to Raceway Park officials. Back of seat may not be tilted back more than 60 degrees. Minimum five point racing safety restraint required. Belts must be in good condition acceptable to Raceway Park officials. Restraint system, seat belts must be mounted in accordance with manufacturers installation instructions. All karts must use head restraint net or full containment seat. Driver must wear arm restraints. Arm restraints must be adjusted so no part of the drivers hands can go above the roll cage. SFI rated drivers suit must be worn at all times driver is in the kart. Driver must wear neck collar or head and neck restraint system. Head and neck restraint systems will be required for 2012. Note: There are many manufacturers of head and neck restraint systems. Contact Raceway Park officials if you need additional information. Snell SA2000 OR SFI 31.1/2005 full face helmet required. Nomex SFI rated fire retardant gloves required. Minimum full leather shoes required. No tennis type shoes allowed. Nomex shoes highly recommended.

8.4 CHASSIS COMPONENTS

Quick release steering wheel required. Center of steering wheel must be padded. No tiller steering permitted. All steering components and brakes must be poly locked, safety wired, safety pinned or secured in a manner approved by Raceway Park officials. Brakes are required to be able to stop kart safely on demand. Chain guards required.

8.5 BODY

All bodies must be approved by Raceway Park officials. Bodies must be securely mounted. Body must cover front and rear of kart, frame rail to frame rail. Side panels required. Floor pan required. Any added weights must be mounted to the frame, below the body. Weights must be bolted, and the bolts must be safety wired, keyed or lock nutted. Weights must be painted white and have the kart number on them. Loss of any weights is an immediate disqualification. Bumpers required at all times.

8.6 WINGS

Top wing no less than 34" wide, no more than 40" wide. Side panels no less than 42" long, no more than 48" long. Length and dimensions shall not vary more than 33%. Driver must have top wing to race. Nose wing optional. Top wing sliders permitted. Highest point of top wing may not exceed 76"

from ground. Wings may not interfere with drivers vision. Wings must be a minimum of 3" inside of outer edge of tires.

8.7 ENGINE

Charger 250 Class

Must use single cylinder gasoline engine only. Maximum 250cc No stroker engines permitted. No after-market big bore kits permitted. Maximum overbore permitted will be 265 cc.

Super Charger 500

500cc class Must be single cylinder design only. Maximum over bore size 550 cc.

After-market exhaust systems, heads and carburetors permitted. Must be naturally aspirated only. Fuel must be conventional pump fuel only. No power enhancing additives permitted. No nitrous oxide Fuel must pass Raceway Park inspection. Test may include specific gravity, reagent and dielectric value.

Using fuel that fails inspection is an immediate disqualification. All fuel lines must be safety tied.

Exhaust must meet the track noise requirements .

All karts must be running and able to move on demand. If kart requires push start , it must be done in back pit area. Karts must present themselves to lineup area warmed up ready to race.

Motor protest : Protesting driver must submit written protest to Raceway Park tech officials. Protest must include \$100 cash. Protest must state item in question. Only 1 item per protest. Only one protest per competitor per season may be filed. Raceway Park reserves the right to disallow any protest for unspecified reasons. Protesting driver must finish on the lead lap in the feature event. If competitor is found legal, he keeps \$60 of the protest fee. If illegal \$60 is returned to the protesting driver. The remainder is kept by the racetrack or inspector.

8.8 TIRES

Approved tires for right rear are QRC 55, Rocket Boy 55, And Hoosier Equivalent. Front tires and left rear tires are an open tire rule. All tires must be grooved. No slicks allowed. Tire reconditioning, grinding and siping permitted. No chemical treating of tires on Raceway grounds permitted .

8.9 WEIGHT

CHARGER 250 All karts with driver must weigh 430lbs.

CHARGER 500 All karts with driver must weigh 450 lbs.

Weight will be taken as the kart leaves the racetrack and re-enters the pit area. No lost components or liquids will be added.

SECTION 9 JUNIOR CHARGER KARTS (OSHKOSH KART or Memorial Go Kart-Slinger)

9.1 DRIVER ELIGIBILITY

Drivers must be a minimum of 10 years old during the current race season. Maximum age is 16.

Drivers under the age of 10 may be permitted, but must meet the approval of Raceway Park officials.

Any questions as to age eligibility should be directed to Raceway Park officials. New drivers required to start in the rear their first three events. Drivers may be placed in the rear of the line-up at the discretion of track officials until they demonstrate an ability to drive their karts in a sportsmanlike manner

9.2 FRAME

Frame must remain unmodified as manufactured from Kids Kart Klub. Frames are constructed of 1 1/2" round tube lower rails. 1" Square tube upper rails. Width is 23" out side of rails. Frame must have full and complete floor pan. Rear roll bar is 1 1/2" O.D. Rear roll bar is 36" from the top to the top frame rail. Rear roll bar must provide adequate head clearance for the driver. Purpose built aluminum racing seat required. Must be securely mounted to frame and roll bar. Wheelbase is 59" Rea bumper width is 43 1/4" wide. Rear bumper is bolt on clamp style as manufactured of 1 1/2" O.D. Round tube. Rear bumper height is 12". Front bumper height is 10". Front bumper if the 1" square tube frame rail. Recommend additional front bumper be added above frame rail to meet the rear 12" height.

9.3 SAFETY EQUIPMENT

A five point racing seat belt is required. Belts must be 3" wide and in good condition. Belts must meet the approval of Raceway Park officials. Belts must be installed according to manufacturers installation instructions. Snap in style belts must be pinned. Driver must wear long sleeves, abrasion resistant, jacket. Abrasion resistant long pants required. No exposed skin allowed. Driver must wear gloves. Driver must wear SA95 or newer helmet. Neck collar required at all times. All karts must be equipped with two head restraint nets. All drivers must wear arm restraints . Restraints must be adjusted to keep all parts of the drivers arms below the roll bar. All safety equipment must pass approval of Raceway Park officials. Functioning main engine shut off switch must be in plain view and in reach of driver in the as raced position.

9.4 CHASSIS COMPONENTS

Quick release steering wheel required. Center of steering wheel must be padded. No tiller steering permitted. Steering wheel must be 12" diameter. All steering components and brakes must be poly locked, safety wired, safety pinned or secured in a manner approved by Raceway Park officials. Brakes are required to be able to stop kart safely on demand. Chain guards required. #35 roller chain only. 85 tooth axle gear only 11 tooth driver only Dry clutch only as provided by KKK or MGKI Engine must remain centered in chassis. Tread width open and may be adjusted with spacers. Tires must remain inside the stock nerf bars. No modifications to front or rear axle width permitted. Front axle may be gusseted. Front axle may be modified for caster camber . Must remain fixed spindle only, no bolt on spindle adjustments permitted. Front spindles may not be modified.

9.5 BODY

Bodies may be aluminum fiberglass or steel. No exotic bodies. Body must be inside the nerf bars , behind the front bumper, no higher than rear roll bar. and in front of rear bumper. Bodies must meet the approval of Raceway Park officials. No top wings permitted No fully enclosed bodies. All body edges must be rolled, radiused or hemmed. No sharp edge exposed body panels.

9.6 FUEL

Fuel must be conventional pump fuel only. No power enhancing additives permitted. No nitrous oxide Fuel must pass Raceway Park inspection. Test may include specific gravity, reagent and dielectric value. Using fuel that fails inspection is an immediate disqualification. All fuel lined must be safety tied.

9.7 ENGINE

The engine must be Briggs an Stratton 5HP or Tecumseh 5HP. No alterations are permitted. They must run as supplied by KKK or MGKI. Stock mufflers are required. No alterations permitted

9.8 TIRES

Tires must be unmodified. No grinding, grooving siping or softening. Rear tire Trail master 18-8.50x8 Front Carlisle or NHS 15-6X6 Other tires may be used, but must meet the approval of Raceway Park officials. Tires must meet durometer standards for that class that night Five karts will be selected, at random, prior to the start of qualifying races. Durometer readings will be taken at three points across the rear tires (outside, middle, inside) of each car. The readings will be averaged together. The minimum allowable durometer reading of any tire prior to the qualifying races, B Main race, and A Main race will be ninety percent (90%) of the average reading.

Example: Average durometer reading of five selected karts: 50

Minimum allowable reading prior to race: 45

9.9 WEIGHT

No minimum weight. No weight saving measures permitted. If additional ballast is utilized it must be securely mounted,painted white and safety pinned.

