





TABLE OF CONTENTS

Pg. 2	General Information
Pg. 3-4	Competition Rules
Pg. 5	Technical Rules
Pg. 6	MARS Techincal Procedures
Pg. 7	Protest Rules
Pg. 8	Safety Guidelines
Pg. 9-19	Race Classes





MARS 2018 rules and regulations are American Kart Track Promoter's Association (AKTPA) approved and all sanctioned MARS tracks are required to carry liability insurance through AKTPA (Tim Wilkerson) for each event (practice and race events). Other coverage may be reviewed and approved by the MARS board no later than 3 weeks from the scheduled event. No track or promoter is allowed to use the MARS name and/or printed rules for promotion without prior written approval and paying \$3 per race entry toward the MARS Points Series.

Please Note: All drivers must have completed a MARS information sheet and a waiver release form prior to racing a MARS sanctioned event. Local track representatives are responsible for collecting these forms, and submitting them within five business days. Direct all questions to racing@marskarting.com

In the event of a rainout, your armbands will be used as your rain check. Rain checks are only good for one of the next two kart racing events.

All tracks must pay \$3 per kart entry per event to use the MARS sanction rules and name. The money will go toward the MARS Points Series' operations and participant awards.

Please Note: The use of social media to complain or slander MARS, any MARS affiliated track, or MARS racers will result in an immediate suspension from all MARS events.

2018 MARS Board Members: Christopher Baugh, Jay Sartain, Ronald Cline

Current (2018) participating MARS Points racing facilities include the following:

- Jonesboro Karting Complex in Jonesboro, AR.
- Eagles Nest in Horn Lake, MS. (Mufflers Required).

All rules apply at all MARS sanctioned tracks unless designated otherwise.

Contact Information:

Email: racing@marskarting.com Web: www.marskarting.com Facebook: www.facebook.com/kartracingMARS





Drivers will be allowed to race in multiple classes if track permits, as long as the entry fees have been paid for each class. Age qualifications are determined by your age on January 1 of that race year.

Exception: Rookies cannot run multiple classes. Once Rookie class racers win 5 features consecutively or 10 races in a single race year, the track operator may request that Rookie driver to 'move up' classes to JR1 Cage and progress from there. Once a Rookie driver graduates to a higher class, they may not race in Rookie class anymore.

Racers can only race their kart in the class that it techs out, i.e. Pro Mod karts can run in their class but not in Outlaw, Pro Stock cannot step up to Pro Mod, etc. The only exception is Adult Factory Stock can run in Adult Pro Stock.

All starts will be off turn 4 in a double file configuartion. All restarts will be single file determined by the designated cones. No weaving allowed on caution laps. Penalty for jumping restarts will be two positions for each kart passed. The leader sets the pace and everyone else is expected to keep his pace without bumping and pushing on the start. Repeat offenses after 1 warning may result in being put to rear of field for restart.

There is to be no racing back to the yellow flag. A red flag will be used if any driver is in danger.

Once a kart race has started, any kart that leaves the track and enters the pits cannot return to the race track for that event. If a driver is injured causing a red flag, they must leave the competition for that race.

If your engine stalls on the track, track workers (if possible) will give three (3) pulls to attempt to start. If the engine does not start, you will go to the pits or infield. No working on kart while on the track. If a member of your crew comes onto the track unauthorized, you will be black flagged for that race. Running onto the track is dangerous for all parties.

Red Flag: Stop as quickly and safely as possible. No work can be done on karts during a red flag. The only changes/adjustments that can be made are those that can be done during green flag conditions. Track officials will be allowed to pull damaged kart bodies off while under red flag conditions (when possible). Go to the bottom of the track and come to a complete stop if a red flag is thrown.

After completion of event, the top 2 karts must proceed directly to the tech shed/scales. All karts must stop engines and then proceed onto scales. Failing to go over scales will result in a disqualification for that event. No driving onto scales. If you drive all the way onto the scale, you will be subject to disqualification. Driver only is to push kart onto scale unless the participant is a minor. Only Rookie, Jr. 1 and Jr. 2 kart classes will be allowed one person to help them get kart onto scale. No one else needs to enter the scale line area or tech area. You can assist them after kart has passed the scales. Spectators entering the scale line area or tech area will subject kart to disqualification or possible ejection.

Only driver plus one person is allowed to be in tech area unless approved by head tech person.

Any driver or representative of the driver who refuses tech or is found to have an illegal motor, fuel etc. will lose two (2) of their best points finishes for the 2018 MARS Points Series. The second and all other refusals of tech or being found to have an illegal motor, fuel etc. occurrences will result in the loss of two (2) of their eligible points finishes for the 2018 MARS Points Series. (Example: John Doe races Pro Mod 40 times in 2018. He is found illegal one time. Therefore, John has 38 races he may use to calculate his points total. If John is determined illegal a second time, his total eligible races would be reduced to 13 races). 2018 MARS points calculations will be determined by your best 15 feature races plus 2 points



for heat wins and bonus points for MARS designated track specials.

Any racer, whether minor or adult, is responsible for the conduct of their pit crew at all times. Officials have the right to suspend crew members and/or drivers at their discretion. The MARS board will conduct a thorough investigation of the events that led up to the suspension before the suspension is valid. Each participant will be interviewed during the investigation. Foul language and disruptive behavior by any one will not be tolerated. No karts will be allowed to be driven in the pits. Engines will be started in the grid area.

No kart maintenance/repair allowed on the track by pit crew - pit area only.

Any driver who fails to drive in a safe manner is subject to being black flagged. Failure to obey the black flag could result in race suspension at the discretion of track officials.

Numbers: All karts must have numbers on three (3) sides of the kart (Minimum 6" numbers). All numbers must be clearly visible by scorers and must be in sharp contrasting colors. No duct tape, black tape or reflective numbers. Black on white or white on black preferred. Scoring officials have final approval on all numbers. If they ask you to change them, you will be required to do so.

No rear view mirrors.

All kart stands/carriers must be removed from grid area and taken to tech side of pit area immediately following kart leaving the grid. Failure to properly relocate stand/carrier may result in kart being put to rear of field.

Replacement Drivers: If you have a qualified kart and decide to change drivers or require a replacement driver, a \$10.00 fee must be paid to registration. In this event, replacement driver will start race in the rear of lineup. Points will remain with original driver.

Spectators: Standing at fence in front of grandstands or restricted areas will not be tolerated. You will be subject to ejection if you refuse to find somewhere else to spectate.

Loss of Air Filter: If you lose your air filter and cause a caution in doing so, you will be credited for the caution and sent to the rear of the field. You may not re-install your air filter while on the track. If a red flag is thrown, you may install a filter and restart at the rear of the field.

Loss of Chain: Adult competitors will receive one (1) courtesy chain replacement during the race. The second occurrence results in disqualification. Kid competitors will receive at minimum one (1) courtesy chain replacement with further replacements allowed if the track official sees fit.

Awarding Points: Three or more competitors must start the race (heat or feature) to earn MARS points. Points are awarded as follows:

- Heat race winners receive 2 points
- Feature winners are awarded 55 points for 1st place, 50 for 2nd, 48 for 3rd. Each place beyond that receives two points less through last place (46, 44, 42, etc.)

If you win your heat but do not start the feature race, you only accumulate points for the heat. You must start the feature to collect feature points.





All karts must be pre-race inspected prior to going onto track for hot laps or heat race. No exceptions. Any kart not having a pre-race sticker after their heat race will start the feature from rear of field.

Rookie, Jr. 1 Cage and Jr. 2 Cage karts must have roll cages, 5-point seat belts, and arm restraints. Roll bar padding is required around the steering column and foot box.

Open tire rule will be in effect until further notice. (Any tire including grooved tires is legal).

All Flat karts must have full bodies and full rear bumpers (measuring no more than 4 inches from outside of the tire). Or a 'Hop Stopper' on the left rear.

All bumpers must stay in place and intact throughout race. Flat Karts: No front bumpers or nerf bars may protrude outside of the bodies. Only champ karts may have exposed front bumpers.

Side panels coming loose will be tolerated unless deemed unsafe for anyone on the track.

Both sides of the bumper must be in tact as designed and cannot drag the ground.

The distance from the ground to the lower bar on the rear of the kart must be no greater than five (5) inches.

3/4" gear clearance rule will be strictly enforced. Anyone not in compliance will receive no pay/points for that racing event.

All karts in all classes must have operational clutches.

Restrictor Plates: Restrictor plates are required to be in place for all practices and races. They may be inspected at any time (discretion of tech man). If requested, you will be obligated to produce plate within 15 minutes of request. Failure to do so may result in loss of pay/points or starting positions. MARS reserves the right to alter weight or restrictor plates to keep all classes fairly competitive.

Aftermarket Flywheels: Any class not using a spec MARS flywheel must use an SFI – approved flywheel. The flywheel must be unaltered with the exception of cooling fins. No alterations of the back of the flywheel is allowed due to safety restrictions. A minimum weight of 1.75 lbs. is required.





CC'ing your Motor with a Burette and CC Nut:

Remove spark plug and push rods from the engine. Fill the burette up above the zero line with clean marvel mystery oil. Hold the burette as close to vertical as possible. Open the stopcock and run the fluid out until the bottom of the curved line is lined up with the zero line. Wipe any drips from the tip of the burette. Install the cc plug by hand in the spark plug hole and rotate until it contacts the spark plug seating surface on the head.

Set the engine such that the centerline axis of the spark plug hole is plumb. Turn the crankshaft by hand until the piston is approximately inch before TDC. Recheck the (0) line of the fluid in the burette. Begin adding the prescribed amount of fluid to the combustion chamber for that particular class. Allow the fluid to flow at a fast-constant rate until you get within one (1) cc of the total and stop. Stopping here allows for a precise finished measurement and assists in preventing fluid accidents.

From here, you will continue to add the proper remaining amount slowly until the bottom of the curved line is lined up with the prescribed combustion chamber volume for that class. Slowly turn the crankshaft so that the piston moves through TDC. Do not allow the fluid to settle for over 60 seconds before adding to the total amount. If the fluid does not run out of the CC plug, the engine is CC legal. If any fluid spills out on to the top of the tool (plug) the engine is illegal.

Checking 10.8 LB. Springs:

Proper procedure is to put the spring in the spacer; spring must slide over shaft without any help or it is to be disqualified. Place the weights on the shaft. Then push down on the weights for approx. 10 seconds or so. Release Slowly. Use a flashlight to determine whether or not the spacer is in contact with the weight If any part of the weight is touching spacer it is deemed legal.

There may be a section of the 360* that the weight is sitting on that shows some light through. As long as there is any portion of the weight touching the spacer your valve springs are determined legal.





Any protest must be filed in writing with the head tech inspector no later than five minutes after completion of event. The initial protest fee is \$100.00, 2nd protest of same kart will be \$200.00 thereafter. The protestor will be required to tear down first. The protested kart will be torn down regardless of the outcome of the first tear down. Both karts involved must remain impounded by tech official until tear downs are completed. If the protested kart is illegal, the track gets 25% and the protest fee and the protest fee back. If the protested kart is legal, the protested kart gets 75% of the protest fee and the protest fee.

MARS reserves the right to tear down any kart at any time or inspect any restrictor plate at any time. The driver of an illegal kart will lose his/her pay/points for that race day plus 1 of the possible 15 MARS events calculated for points on the first offense. A second offense will result in a loss of points for that day plus 1 of the possible 15 MARS events calculated for points, additional 100 points loss, and driver may be subject to suspension for one full MARS racing event. Refusal to tear down will result in a two (2) race MARS suspension for the driver and kart owner and the second offense will be suspension for the remainder of the season.





It is mandatory for all karts to pass pre-tech inspection before going onto track for practice or race.

All drivers are required to wear a full-face helmet (SNELL 2010 or newer, K98 or SFI 24.1 Jr. Helmets only), a racing or track approved jacket or race suit, closed toe shoes, racing gloves and a neck brace while driving. All of these items must remain in working order while on race track (i.e. if neck brace comes off you will be black flagged). All helmets must have a VISOR and must remain in the down (closed) position while on track during racing conditions. Long pants only - no short pants allowed.

Failure to be inspected prior to practice or race will result in possible penalties or disqualification. Listed here are some guidelines for safety issues regarding Kart racing. These items will be inspected during safety tech before the kart will be allowed to go onto the track for practice or racing.

All steering components must be safety wired or cotter pinned. This includes spindles, tie rod end bolts, tie rod to steering bolts, steering wheel to steering hub bolts (3 bolts) and steering shaft nut. On Champ Karts, the 3 bolts connecting the steering wheel to quick connect hub must be safety wired.

Brakes: All bolts fastening the master cylinder and calipers must be safety wired. Brakes must be in good working condition. A wolf plate protecting the driver from the rotor is mandatory.

Helmet: Must be Snell 2010 or later. K98 and SFI 24.1 Jr. Helmets will be allowed at inspector's discretion. No open face helmets.

Muffler or pipe must not to extend past rear bumper.

Snap rings required on axle ends.

All classes must run flywheel covers and top plates. Big block engines must use a ¼" thick full aluminum top plate.

All lead must be painted white with kart number permanently marked on it. Minimum bolt size for lead is 5/16" with double nut or safety wire. Any lead weighing over 7 pounds must be secured with two 5/16" bolts both having double nuts or safety wire. If you lose lead on the track, you will be disqualified for that race. NO weight allowed on nerf bar or bumpers except inside the nose.

No tires may be treated with tire prep at the track. We view tire preps as a health hazard and you will be disqualified if preps are found spilled on the ground. Cleaning tires is permitted. Do not let cleaning materials get on the ground! And do not pour 'cleaning water' out on the ground. No open flames anywhere in the pits, including tents and/or trailers.

All used oil must be put in proper drums located in the pits. No exceptions!

No open flames are allowed in the pit area. All trailers entering the pit area must have at least 1(one) up-to-date ABC fire extinguisher located at rear entrance of trailer. Exceptions are butane, or "torpedo" style heaters.





Entry Level Kid Class (Cage Kart Only), Ages 4-8 Weight: 260 LB Minimum Red Single Hole Restrictor .375" Mandatory

- Single cylinder OHV engines only (i.e. Clone or Predator 212 cc).
- Stock engine with a maximum displacement of 212cc.
- Stock engine with a minimum combustion chamber of 28cc (To be checked through the spark plug hole with a CC nut in place measured with a burette) Fluid must not run out of the CC nut.
- Stock unaltered cylinder head is required. (All head gaskets are legal). You may tap for a pulse fitting.
- Stock unaltered crankshaft, 2.165" maximum stroke.
- MARS spec flywheel unaltered.
- Stock unaltered connecting rod (No billet Aluminum)
- Stock unaltered piston only (2.756" maximum).
- Stock rocker arms unaltered (Non-Hemi 1:1 ratio max, Hemi 1:11 ratio max).
- Stock unaltered lifters and push rods.
- Stock unaltered valves for the make/model of the head.
- Valve Spring Installed Height Minimum is .815 Maximum Spring Tension of 10.8 at a Height of .850 Max Wire Diameter Of .071" (No spring shims or valve seals on a Hemi).
- Stock unaltered retainers and keepers.
- Stock valve cover unaltered (You may install fuel pump port only).
- Stock side cover unaltered. (You may tap for a vent or pulse fitting).
- Stock ignition coil only (wire and boot non-tech item).
- Stock camshaft cores only, ez-spin assembly must remain as stock. Cam lobe base circle diameter .865 -.005"/+.010" Max intake lift on cam .225"-min.215" lift taken at push rod. Max intake lift at the valve .261 taken on the valve spring retainer with zero lash. Max exhaust lift on the .232"-min .222" lift taken at pushrod. Max exhaust lift at the valve .261" taken on the valve spring retainer with zero lash
- Exhaust Requirement: Any Winnie pipe with minimum length tubing of 5.5" and maximum of 6.5" measured from the surface of the flange where it meets the head to the end of the threads and maximum OD tubing diameter of .760" with RLV Mini 91 Muffler REQUIRED, no alterations to the muffler. The pipe must not be altered to leak via holes in the side of the pipe or gasket. (May not extend past the cage).
- Shoe Clutch only (any make).
- Stock appearing clone carburetor measuring a maximum .615 at the butterfly and .751" at the exit (Measured with 'NO-GO' gauge plus a roundness check of venturi. Venturi must be round. No odd shapes (i.e. egg shape or 'D' shaped. Choke may be removed. Red single hole restrictor plate mandatory (.375" max) placed between the carburetor and the insulator adapter.
- Any gasoline is legal including racing gas. No alcohol over 10%. (If your fuel melts the plastic alcohol checker you will be disqualified).
- Any air filter and/or adapter is legal.
- Aftermarket carburetor spacers and insulators are illegal.
- Fuel tank must be relocated and a pulse fuel pump installed.
- Pull starters ONLY.
- Removal of governor and/or governor components is legal (Plugging holes legal).
- Removal of oil sensor and/or oil sensor components is legal (Plugging holes legal).



Semi-Skilled Economy Kid Class (Cage Kart Only), Ages 6-12 Weight: 275 LB Minimum Green Single Hole Restrictor .425" Mandatory

- Single cylinder OHV engines only (i.e. Clone or Predator 212 cc).
- Stock engine with a maximum displacement of 212cc.
- Stock engine with a minimum combustion chamber of 26cc (To be checked through the spark plug hole with a CC nut in place measured with a burette) Fluid must not run out of the CC nut.
- Stock cylinder head is required. No porting or polishing of the Intake/Exhaust runners (Tech method performed by placing a 'NO GO' gauge at the entry of the runners) No visual alterations may be performed in the runners or around the valve guide. All head gaskets are legal.
- Stock crankshaft unaltered, 2.165" maximum stroke.
- Unaltered aftermarket SFI-approved flywheel required, per Technical Rules.
- Any length connecting rod is legal. Billet aluminum is legal.
- Stock unaltered piston only (2.756" maximum).
- Stock camshaft cores only, ez-spin assembly must remain as stock. Cam lobe base circle diameter .865 -.005"/+.010" Max intake lift on cam .225"-min.215" lift taken at push rod. Max intake lift at the valve .261 taken on the valve spring retainer with zero lash. Max exhaust lift on the .232"-min .222" lift taken at pushrod. Max exhaust lift at the valve .261" taken on the valve spring retainer with zero lash
- Stock rocker arms unaltered (Non-Hemi 1:1 ratio max, Hemi 1:11 ratio max).
- Stock lifters unaltered.
- Any push rods are legal.
- Stock valves and valve size for the make/model of the head.
- Valve Spring Installed Height Minimum .815 Maximum Spring Tension of 10.8 at a Height of .850 Max Wire Diameter Of .071" (No spring shims or valve seals on a Hemi).
- Any retainers and keepers legal.
- Stock valve cover unaltered (You may install fuel pump port).
- Stock side cover unaltered. (You may tap for a vent or pulse fitting).
- Any ignition coil is legal (wire and boot non-tech item).
- Exhaust Requirement: Any Winnie pipe with minimum length tubing of 5.5" and maximum of 6.5" measured from the surface of the flange where it meets the head to the end of the threads and maximum OD tubing diameter of .760" with RLV Mini 91 Muffler REQUIRED, no alterations to the muffler. The pipe must not be altered to leak via holes in the side of the pipe or gasket. (May not extend past the cage).
- Shoe Clutch only (Any make).
- Stock appearing clone carburetor measuring a maximum .615 at the butterfly and .751" at the exit (Measured with 'NO-GO' gauge plus a roundness check of venturi. Venturi must be round. No odd shapes. (i.e. egg or 'D' shape). Choke may be removed. Green single hole restrictor plate mandatory (.425" max) placed between the carburetor and the insulator adapter.
- Any gasoline is legal including racing gas. No alcohol over 10%. (If your fuel melts the plastic alcohol checker you will be disqualified).
- Any air filter and/or adapter is legal.
- Aftermarket carburetor spacers and insulators are illegal.
- Fuel tank must be relocated and a pulse fuel pump installed.
- Electric starter and pull starters are legal.
- Removal of governor and/or governor components is legal (Plugging holes legal).
- Removal of oil sensor and/or oil sensor components is legal (Plugging holes legal).
- No wedge bodies. 3-piece flat kart bodies only.



Skilled Kid Class (Cage Kart Only), Ages 9-15 Weight: 300 lbs. Minimum with Shoe Clutch (Any Make) 320 lbs. Minimum with Disc Clutch (Any Dry Clutch) Blue Single Hole Restrictor .550" Mandatory

- Single cylinder OHV engines only (i.e. Clone or Predator 212 cc).
- Stock engine with a maximum displacement of 212cc.
- Stock engine with a minimum combustion chamber of 26cc (To be checked through the spark plug hole with a CC nut in place measured with a burette) Fluid must not run out of the CC nut.
- Stock cylinder head is required. No porting or polishing of the Intake/Exhaust runners (Tech method performed by placing a 'NO GO' gauge at the entry of the runners) No visual alterations may be performed in the runners or around the valve guide. All head gaskets are legal.
- Stock crankshaft unaltered, 2.165" maximum stroke.
- Unaltered aftermarket SFI-approved flywheel required, per Technical Rules.
- Any length connecting rod is legal. Billet aluminum is legal.
- Stock unaltered piston only (2.756" maximum).
- Stock camshaft cores only, ez-spin assembly must remain as stock. Cam lobe base circle diameter .865 -.005"/+.010" Max intake lift on cam .225"-min.215" lift taken at push rod. Max intake lift at the valve .261 taken on the valve spring retainer with zero lash. Max exhaust lift on the .232"-min .222" lift taken at pushrod. Max exhaust lift at the valve .261" taken on the valve spring retainer with zero lash
- Stock rocker arms unaltered (Non-Hemi 1:1 ratio max, Hemi 1:11 ratio max).
- Stock lifters unaltered.
- Any push rods are legal.
- Stock valves and valve size for the make/model of the head.
- Valve Spring Installed Height Minimum .815 Maximum Spring Tension of 10.8 at a Height of .850 Max Wire Diameter Of .071" (No spring shims or valve seals on a Hemi).
- Any retainers and keepers legal.
- Stock valve cover unaltered (You may install fuel pump port).
- Stock side cover unaltered. (You may tap for a vent or pulse fitting).
- Any ignition coil is legal (wire and boot non-tech item).
- Exhaust: Any header (Must not extend past the rear bumper).
- Shoe Clutch (Any make) 290 lb. min / Disc Clutch (Any dry clutch) 310 lb. min.
- Stock appearing clone carburetor measuring a maximum .615 at the butterfly and .751" at the exit (Measured with 'NO-GO' gauge plus a roundness check of venturi. Venturi must be round. No odd shapes. I.e. egg or 'D' shape). Choke may be removed.
- Any gasoline is legal including racing gas. No alcohol over 10%. (If your fuel melts the plastic alcohol checker you will be disqualified).
- Any air filter and/or adapter are legal.
- Aftermarket carburetor spacers and insulators are illegal.
- Fuel tank must be relocated and a pulse fuel pump installed.
- Electric starter and pull starters are legal.
- Removal of governor and/or governor components is legal (Plugging holes legal).
- Removal of oil sensor and/or oil sensor components is legal (Plugging holes legal).
- No wedge bodies. 3-piece flat kart bodies only.



Semi-Skilled Economy Kid Class (Flat Kart Only), Ages 7-15 Weight: 300 LB Minimum

- Single cylinder OHV engines only (i.e. Clone or Predator 212 cc).
- Stock engine with a maximum displacement of 212cc.
- Stock engine with a minimum combustion chamber of 28 cc (To be checked through the spark plug hole with a CC nut in place measured with a burette) Fluid must not run out of the CC nut.
- Stock unaltered cylinder head is required. (All head gaskets are legal).
- Stock crankshaft unaltered, 2.165" maximum stroke.
- MARS spec flywheel unaltered (\$5 from each flywheel sold goes to the MARS Factory Stock points fund).
- Stock connecting rod stock length (3.308" max). Billet aluminum is illegal.
- Stock unaltered piston only (2.756" maximum). Head and piston must be of the same make and model (i.e. Hemi head to Hemi flat top piston, 208 cc piston to 208 cc head, dish piston to wedge head).
- Stock camshaft cores only, ez-spin assembly must remain as stock. Cam lobe base circle diameter .865 -.005"/+.010" Max intake lift on cam .225"-min.215" lift taken at push rod. Max intake lift at the valve .261 taken on the valve spring retainer with zero lash. Max exhaust lift on the .232"-min .222" lift taken at pushrod. Max exhaust lift at the valve .261" taken on the valve spring retainer with zero lash Duration: @.050" 230 degree max). No Mod 2 Cams
- Stock rocker arms unaltered (Non-Hemi 1:1 ratio max, Hemi 1:11 ratio max).
- Stock lifters and push rods unaltered.
- Stock valves unaltered.
- Valve Spring Installed Height Minimum .815 Maximum Spring Tension of 10.8 at a Height of .850 Max Wire Diameter Of .071" (Hemi: No spring shims or valve seals with built in shim allowed; minimum setup height of .815 applies).
- Stock retainers and keepers unaltered.
- Stock valve cover unaltered (You may install fuel pump port).
- Stock side cover unaltered. (You may tap for a vent or pulse fitting).
- Stock ignition coil, wire and boot unaltered.
- Exhaust Requirement: Any Winnie pipe with minimum length tubing of 5.5" and maximum of 6.5" measured from the surface of the flange where it meets the head to the end of the threads and maximum OD tubing diameter of .760" with RLV Mini 91 Muffler REQUIRED, no alterations to the muffler. The pipe must not be altered to leak via holes in the side of the pipe or gasket.
- Shoe Clutch only (Any make).
- Stock blueprinted clone carburetor measuring a maximum .615 at the butterfly and .751" at the exit (Measured with 'NO-GO' gauge and a roundness check of venturi. Venturi must be round. No odd shapes. i.e. egg or 'D' shape. You may NOT polish the inside, remove choke or shave butterfly/shaft.
- Any gasoline is legal including racing gas. No alcohol over 10%. (If your fuel melts the plastic alcohol checker you will be disqualified).
- Any air filter and/or adapter is legal.
- Aftermarket carburetor spacers and insulators are illegal.
- Fuel tank must be relocated and a pulse fuel pump installed.
- Stock pull start only unaltered.
- Removal of governor and/or governor components is legal (Plugging holes legal).
- Removal of oil sensor and/or oil sensor components is legal (Plugging holes legal).
- No wedge bodies. 3-piece kart bodies only.



Skilled Kid Class (Flat Kart Only), Ages 9-15 Weight: 290 lbs. Minimum with Shoe Clutch (Any Make) 310 lbs. Minimum with Disc Clutch (Any Dry Clutch)

- Single cylinder OHV engines only (i.e. Clone or Predator 212 cc).
- Stock engine with a maximum displacement of 212cc.
- Stock engine with a minimum combustion chamber of 26cc (To be checked through the spark plug hole with a CC nut in place measured with a burette) Fluid must not run out of the CC nut.
- Stock cylinder head is required. No porting or polishing of the Intake/Exhaust runners (Tech method performed by placing a 'NO GO' gauge at the entry of the runners) No visual alterations may be performed in the runners or around the valve guide. All head gaskets are legal.
- Stock crankshaft unaltered, 2.165" maximum stroke.
- Unaltered aftermarket SFI-approved flywheel required, per Technical Rules.
- Any length connecting rod is legal. Billet aluminum is legal.
- Stock unaltered piston only (2.756" maximum).
- Stock camshaft cores only, ez-spin assembly must remain as stock. Cam lobe base circle diameter .865 -.005"/+.010" Max intake lift on cam .225"-min.215" lift taken at push rod. Max intake lift at the valve .261 taken on the valve spring retainer with zero lash. Max exhaust lift on the .232"-min .222" lift taken at pushrod. Max exhaust lift at the valve .261" taken on the valve spring retainer with zero lash
- Stock rocker arms unaltered (Non-Hemi 1:1 ratio max, Hemi 1:11 ratio max).
- Stock lifters unaltered.
- Any push rods are legal.
- Stock valves and valve size for the make/model of the head.
- Valve Spring Installed Height Minimum .815 Maximum Spring Tension of 10.8 at a Height of .850 Max Wire Diameter Of .071" (No spring shims or valve seals on a Hemi).
- Any retainers and keepers legal.
- Stock valve cover unaltered (You may install fuel pump port).
- Stock side cover unaltered. (You may tap for a vent or pulse fitting).
- Any ignition coil is legal (wire and boot non-tech item).
- Exhaust: Any header (Must not extend past the rear bumper).
- Shoe Clutch (Any make) 290 lb. min / Disc Clutch (Any dry clutch) 310 lb. min.
- Stock appearing clone carburetor measuring a maximum .615 at the butterfly and .751" at the exit (Measured with 'NO-GO' gauge at the entry of the runner, plus a roundness check of venturi. Venturi must be round. No odd shapes. i.e. egg or 'D' shape). Choke may be removed.
- Any gasoline is legal including racing gas. No alcohol over 10%. (If your fuel melts the plastic alcohol checker you will be disqualified).
- Any air filter and/or adapter is legal.
- Aftermarket carburetor spacers and insulators are illegal.
- Fuel tank must be relocated and a pulse fuel pump installed.
- Electric starter and pull starters are legal.
- Removal of governor and/or governor components is legal (Plugging holes legal).
- Removal of oil sensor and/or oil sensor components is legal (Plugging holes legal).
- No wedge bodies. 3-piece flat kart bodies only.



JR. MODIFIED

Skilled Kid Class (Flat Kart Only), Ages 10-15 Weight: 325 LB Minimum

- Single cylinder OHV engines only (i.e. Clone or Predator 212 cc).
- Modified engine with a maximum displacement of 212cc. Max cylinder bore is .010" over stock bore.
- Stock engine with a minimum combustion chamber of 24 cc (To be checked through the spark plug hole with a CC nut in place measured with a burette) Fluid must not run out of the CC nut.
- Stock cylinder head is required. No porting or polishing of the Intake/Exhaust runners (Tech method performed by placing a 'NO GO' gauge at the entry of the runners) No visual alterations may be performed in the runners or around the valve guide. All head gaskets are legal.
- Stock crankshaft unaltered, 2.165" maximum stroke.
- Unaltered aftermarket SFI-approved flywheel required, per Technical Rules.
- Any length connecting rod is legal. Billet aluminum is legal.
- Stock piston unaltered only (2.766" maximum). Piston must be a cast stock flat top or dished configuration.
- Any camshaft and rocker arms are legal with a maximum total lift configuration of .342" measured at the valve.
- Any lifters are legal.
- Any pushrods are legal.
- Any valve types or sizes are legal.
- Any single coil valve springs are legal.
- Any retainers and keepers are legal.
- Any valve cover (Spacers are legal).
- Any side cover is legal.
- Any ignition system is legal.
- Any exhaust is legal.
- All clutches are legal.
- Carburetor must be of a small block, OHV stock-appearing design. No external Epoxy may be used. Choke may be removed from carb and if removed, choke shaft hole must be plugged. Carburetor must remain in stock configuration and appearance externally. Spacer blocks between the carburetor and cylinder head are allowed.
- Any fuel is legal.
- Any air filter and/or adapter is legal.
- Fuel tank must be relocated and a pulse fuel pump installed.
- Removal of governor and/or governor components is legal (Plugging holes legal).
- Removal of oil sensor and/or oil sensor components is legal (Plugging holes legal).
- Electric starter and pull starters are legal.
- No welding or addition of material of any kind (i.e. epoxy) to the head, side cover, or block.
- No Wedge Bodies. 3-piece flat kart bodies only.



Adult Factory Stock

Economy Adult Class (Flat Kart Only), Ages 16 and Up Weight: 350 LB Minimum

- Single cylinder OHV engines only (i.e. Clone or Predator 212 cc).
- Stock engine with a maximum displacement of 212cc.
- Stock engine with a minimum combustion chamber of 28 cc (To be checked through the spark plug hole with a CC nut in place measured with a burette)
- Stock unaltered cylinder head is required. (All head gaskets are legal).
- Stock crankshaft unaltered, 2.165" maximum stroke.
- MARS spec flywheel unaltered (\$5 from each flywheel sold goes to the MARS Factory Stock points fund).
- Stock connecting rod stock length (3.308" max). Billet aluminum is illegal.
- Stock unaltered piston only (2.756" maximum). Head and piston must be of the same make and model (i.e. Hemi head to Hemi flat top piston, 208 cc piston to 208 cc head, dish piston to wedge head).
- Stock camshaft cores only, ez-spin assembly must remain as stock. Cam lobe base circle diameter .865 -.005"/+.010" Max intake lift on cam .225"-min.215" lift taken at push rod. Max intake lift at the valve .261 taken on the valve spring retainer with zero lash. Max exhaust lift on the .232"-min .222" lift taken at pushrod. Max exhaust lift at the valve .261" taken on the valve spring retainer with zero lash @.050" 230 degree max). No Mod2 Cams
- Stock rocker arms unaltered (Non-Hemi 1:1 ratio max, Hemi 1:11 ratio max).
- Stock lifters, push rods and valves unaltered.
- Valve Spring Installed Height Minimum .815 Maximum Spring Tension of 10.8 at a Height of .850 Max Wire Diameter Of .071" (Hemi: No spring shims or valve seals with built in shim allowed; minimum setup height of .815 applies).
- Stock retainers and keepers unaltered.
- Stock valve cover unaltered (You may install fuel pump port).
- Stock side cover unaltered. (You may tap for a vent or pulse fitting).
- Stock ignition coil, wire and boot unaltered.
- Exhaust Requirement: Any Winnie pipe with minimum length tubing of 5.5" and maximum of 6.5" measured from the surface of the flange where it meets the head to the end of the threads and maximum OD tubing diameter of .760" with RLV Mini 91 Muffler REQUIRED, no alterations to the muffler. The pipe must not be altered to leak via holes in the side of the pipe or gasket.
- Shoe Clutch only (Any make).
- Stock blueprinted clone carburetor measuring a maximum .615 at the butterfly and .751" at the exit (Measured with 'NO-GO' gauge and a roundness check of the venturi. Ventura must be round. No odd shapes. i.e. egg or 'D' shape). You may NOT polish the inside, remove choke or shave butterfly/shaft.
- Any gasoline is legal including racing gas. No alcohol over 10%. (If your fuel melts the plastic alcohol checker you will be disqualified).
- Any air filter and/or adapter is legal.
- Aftermarket carburetor spacers and insulators are illegal.
- Fuel tank must be relocated and a pulse fuel pump installed.
- Stock pull start only unaltered.
- Removal of governor and/or governor components is legal (Plugging holes legal).
- Removal of oil sensor and/or oil sensor components is legal (Plugging holes legal).
- No wedge bodies. 3 piece kart bodies only.



ADULT PRO STOCK

Moderate Adult Class (Flat Kart Only), Ages 16 and Up Weight: 370 LB Minimum with Shoe Clutch (Any Make) 400 LB Minimum with Disc Clutch (Any Dry Clutch)

- Single cylinder OHV engines only (i.e. Clone).
- Stock engine with a maximum displacement of 212cc.
- Stock engine with a minimum combustion chamber of 26cc (To be checked through the spark plug hole with a CC nut in place measured with a burette) Fluid must not run out of the CC Nut.
- Stock cylinder head is required. No porting or polishing of the Intake/Exhaust runners (Tech method performed by placing a 'NO GO' gauge at the entry of the runners) No visual alterations may be performed in the runners or around the valve guide. All head gaskets are legal.
- Stock crankshaft unaltered, 2.165" maximum stroke.
- Unaltered aftermarket SFI-approved flywheel required, per Technical Rules.
- Any length connecting rod is legal. Billet aluminum is legal.
- Stock unaltered piston only (2.756" maximum).
- Stock camshaft cores only, ez-spin assembly must remain as stock. Cam lobe base circle diameter .865 -.005"/+.010" Max intake lift on cam .225"-min.215" lift taken at push rod. Max intake lift at the valve .261 taken on the valve spring retainer with zero lash. Max exhaust lift on the .232"-min .222" lift taken at pushrod. Max exhaust lift at the valve .261" taken on the valve spring retainer with zero lash
- Stock rocker arms unaltered (Non-Hemi 1:1 ratio max, Hemi 1:11 ratio max).
- Stock lifters unaltered.
- Any push rods are legal.
- Stock valves and valve size for the make/model of the head.
- Valve Spring Installed Height Minimum .815 Maximum Spring Tension of 10.8 at a Height of .850 Max Wire Diameter Of .071" (No spring shims or valve seals on a Hemi).
- Any retainers and keepers legal.
- Stock valve cover unaltered (You may install fuel pump port).
- Stock side cover unaltered. (You may tap for a vent or pulse fitting).
- Any ignition coil is legal (wire and boot non-tech item).
- Exhaust: Any header (Must not extend past the rear bumper).
- Shoe Clutch (Any make) 370 lb. min / Disc Clutch (Any dry clutch) 400 lb. min.
- Stock appearing clone carburetor measuring a maximum .615 at the butterfly and .751" at the exit (Measured with 'NO-GO' gauge plus a roundness check of venturi. Ventura must be round. No odd shapes. I.e. egg or 'D' shape). Choke may be removed.
- Any gasoline is legal including racing gas. No alcohol over 10%. (If your fuel melts the plastic alcohol checker you will be disqualified).
- Any air filter and/or adapter is legal.
- Aftermarket carburetor spacers and insulators are illegal.
- Fuel tank must be relocated and a pulse fuel pump installed.
- Electric starter and pull starters are legal.
- Removal of governor and/or governor components is legal (Plugging holes legal).
- Removal of oil sensor and/or oil sensor components is legal (Plugging holes legal).
- No wedge bodies. 3 piece flat kart bodies only.



ADULT PRO MODIFIED

Skilled Adult/Moderate Cost Class (Flat Kart Only), Ages 16 and Up Weight: 375 LB Minimum

- Single cylinder OHV engines only (i.e. Clone).
- Modified engine with a maximum displacement of 212cc. Max cylinder bore is .010" over stock bore.
- Stock engine with a minimum combustion chamber of 24 cc (To be checked through the spark plug hole with a CC nut in place measured with a burette) Fluid must not run out of the CC Nut.
- Stock cylinder head is required. No porting or polishing of the Intake/Exhaust runners (Tech method performed by placing a 'NO GO' gauge at the entry of the runners) No visual alterations may be performed in the runners or around the valve guide. All head gaskets are legal.
- Stock crankshaft unaltered, 2.165" maximum stroke.
- Unaltered aftermarket SFI-approved flywheel required, per Technical Rules.
- Any length connecting rod is legal. Billet aluminum is legal
- Stock piston unaltered only (2.766" maximum). Piston must be a cast stock flat top or dished configuration.
- Any camshaft and rocker arms are legal with a maximum total lift configuration of .342" measured at the valve.
- Any lifters are legal.
- Any pushrods are legal.
- Any valve type or size is legal.
- Any single coil valve springs are legal.
- Any retainers and keepers are legal.
- Any valve cover (Spacers are legal).
- Any side cover is legal.
- Any ignition system is legal.
- Any exhaust is legal.
- All clutches are legal.
- Carburetor must be of a small block, OHV stock-appearing design. No external Epoxy may be used. Choke may be removed from carb and if removed, choke shaft hole must be plugged. Carburetor must remain in stock configuration and appearance externally. Spacer blocks between the carburetor and cylinder head are allowed.
- Any fuel is legal.
- Any air filter and/or adapter is legal.
- Fuel tank must be relocated and a pulse fuel pump installed.
- Removal of governor and/or governor components is legal (Plugging holes legal).
- Removal of oil sensor and/or oil sensor components is legal (Plugging holes legal).
- Electric starters and pull starters are legal.
- No welding or addition of material of any kind (i.e. epoxy) to the head, side cover, or block.
- No wedge bodies. 3-piece flat kart bodies only.



ADULT STOCK APPEARING CAGE KART 30+

*New for 2018

Highly Skilled/High Cost Adult Class for Drivers 30 Years old and Over. Weight: 425 LB Minimum

- Senior Champ chassis, NON-SPRUNG only.
- Grooved tires only.
- Small Block OHV engines (i.e. Clone 196, Predator 212, Briggs Animal 208) or Briggs Flathead.
- From six feet away, the engine, unless otherwise noted should appear stock. You may alter anything internally.
- Fuel tank must be relocated and a pulse fuel pump installed.
- Carburetor must be of a small block, OHV stock-appearing design. No external epoxy may be used. Choke may be removed from carb. Carburetor must remain in stock configuration and appearance externally. Spacer blocks between the carburetor and cylinder head are allowed. Any throttle mechanism allowed that works with the stock throttle shaft's bell crank. Remaining stock throttle mechanism parts may be removed. Briggs Flathead may run any carburetor.
- Any fuel is legal.
- A full aluminum plate must be bolted to the top of the engine to mount fuel pumps and/or throttle mechanisms.
- Pull starter may be replaced with a flywheel cover and any electric starter nut may be employed.
- Any air filter and/or air filter adapter is legal.
- Any header is allowed.
- Unaltered aftermarket SFI-certified flywheel required, per Technical Rules.
- No welding or addition of material of any kind (e.g. epoxy) to the head, side cover, block or carb. No block or cylinder head spacers allowed.
- Billet side cover and valve cover spacer Is allowed.
- No Blockzilla or Jr. drag engines.



Adult outlaw

Highly Skilled Adult/High Cost Class (Flat Kart Only), Ages 16 and Up Weight: Small Block No Minimum Big Block 430 LB Minimum

- Engine must be one 4 stroke OHV single cam design or Briggs flathead.
- Small Block engines must be no more than 212cc and big block engines must be no more than 460cc as produced originally from the factory but can be modified, stroked, bored, etc. in any manner to any size.
- Jackshafts are legal.
- All dry clutches are legal.
- Billet parts are allowed internally and externally.
- Unaltered aftermarket SFI-certified flywheel required, per Technical Rules.
- Engines are NOT to be checked internally.
- Any fuel is legal.
- No Blockzilla or Jr. drag engines.
- Wedge bodies recommended.
- Big block engines must use a ¹/₄" thick full aluminum top plate for safety.

Acceptable Engine Platforms:

- Predator 212
- Clone 460
- All 196cc clones
- Honda GX200
- Briggs Animal
- Yamaha YF 200
- Honda 390
- Clone 420
- Briggs Flathead

