

M.O.R.R.
MOD KART RULES - 2018
(EDITED APRIL 26, 2018)

MOD KART CLASS:

This class is represented by a 4-wheel race vehicle powered by a 400cc Honda Quad engine. It is designated for drivers ages 11-16 and will be based on the age of the competitor one (1) day before the first race of the season.

Any driver under the age of 11 that wants to compete in Mod Karts must have raced (2) two seasons in Short course Karts or have some other race experience. Final decision will be made by Officials.

TECHNICAL RULES

MOD-1: TRUCK NUMBERS & MARKINGS

- A) All Mod Karts will carry a 3-digit number starting with the #2.
Examples: 218/262.
- B) Numbers must be 6" or larger, presented on both sides of vehicle, 4" or larger on the front & rear of the vehicle & 12" or larger on roof.

MOD-2: CHASSIS / ROLL CAGE

- A) Mod Kart chassis are a spec chassis build by "EHRENS".
- B) No modifications to the original design of the main frame / roll cage are allowed except to add additional bracing if desired. No removal of original frame material is allowed.
- C) All repairs to frame or roll cage must be declared to TECH for inspection.

MOD-3: DRIVER COMPARTMENT

- A) Driver compartment must accommodate the drivers ease to exit the vehicle.
- B) The cockpit must be enclosed with a minimum thickness of .060 aluminum sheeting.
- C) Firewalls or bulkheads should be installed to separate driver from fuel or engine fluids.

MOD-4: MEASUREMENTS & WEIGHTS

- A) WHEELBASE: Wheelbase length is 73" +/- 1" and is measured from the center of the front wheel to the center of the rear wheel.
- B) TRACK WIDTH: Track width will be measured from the outside of the tire to the outside tire on the opposite side. Front track width is 58½" +/- 1" and rear track width is 57" +/- 1".
- C) OVERALL LENGTH: Overall length will be measured from the front point of front bumper to the rear point of rear bumper. Overall length is 121½" +/- 1".
- D) KART WEIGHT: Minimum Kart weight is measured with driver included and for the Pro Mod Class minimum weight is 850#'s.
- E) ADDITIONAL WEIGHT/ADDED WEIGHT:
All added weight must be painted white and marked with the Kart #. All weights must be mounted securely with a minimum 3/8" grade 8 bolt with a locknut or cotter key locked regular nut. No added weight can be carried loose by the driver. All weights measured as raced.

MOD-5: BODY AND FENDERS

- A) A "Five Star Short Course Kart" body is required.
- B) Body mounts must be sufficient to hold all panels in place during normal race conditions.
- C) Body must be complete and in good condition at the start of the competition.
- D) An aluminum hinged roof must be attached to vehicle and secured down with rubber latches that are accessible to driver.
- E) Additional body mounts are allowed as long as they are loops with no protruding ends.

MOD-6: MUD FLAPS

- A) All Mod Karts must be equipped with mud flaps behind the rear tires.
- B) Mud flaps must be at least 1" wider than the widest part of the rear tires.
- C) Mud flaps must be securely fastened to the frame or mud flap loop with bolts or screws with washers and locknuts.
- D) Mud flaps cannot be attached to the body.

PMOD-7: ENGINE

- A) Engine must be a 400cc Honda Quad Motor from 1999-2011. If engine is so equipped, reverse may be used.
- B) Stock engine may be modified as follows:
 - a) Engine may be built up to a 440cc.
 - b) No stroker motors allowed.
 - c) No titanium or exotic materials allowed.
 - d) No porting of the head or intake is allowed.
 - e) Head can use aftermarket valves & spring but must be stock size.
 - f) Flywheel must be stock, no lightening.
 - g) Must use stock stator & pickup coil.
 - h) Can use aftermarket CDI Box.
 - i) Normally aspirated engine only. No fuel injection, turbos or nitrous.
 - j) Carburetor must remain stock. No porting or polishing. You can use carburetor from the Honda TRX 450R (Either 39 or 40mm).
- C) Engines may be rebuilt by anyone you choose. However MORR has approved the engine builder listed below.
 - AI @ Advanced Machining in Pennsylvania 1-570-339-5898
- D) Exhaust may be modified. Exhaust systems must have a muffler that has less than a 110 db noise limit, measured at more than a distance of 100'.
- E) Any engine found to have been modified internally in anyway other than specified will be disqualified from the competition.

MOD-8: BUMPERS & NERF BARS

- A) Bumpers should follow basic design as supplied from manufacture. (EHRENS)
- B) All vehicles must run a front and rear bumper that is attached to the Kart.
- C) Additional hoops, metal, gussets, etc. can be added but no material can be removed from the original design.
- D) Bumpers must be at least 36" wide and measure a minimum of 18" from the ground to bottom of bumpers and 26" from the ground to top of bumpers.
- E) All vehicles must run a left and right nerf bar or rub rail that is of loop design and attached to the frame. These should be at a height measured from the ground to bar at a height of 18" +/- 2"

MOD-9: FRONT SUSPENSION

- A) All front suspension mount points have to remain in same position as manufactured.
- B) Front suspension must be of an A-arm design.
- C) Limit of (1) one shock per wheel or corner.

MOD-10: REAR SUSPENSION

- A) All rear suspension mount points have to remain in the same position as manufactured.
- B) Rear suspension needs to be of a trailing arm design as manufactured.
- C) Limit of (1) one shock per wheel or corner.
- D) Sway bars are allowed.
- E) Limiting straps are allowed.

MOD-11: STEERING

- A) Steering rack has to remain in location and position as delivered from manufacturer.
- B) Power steering is allowed.
- C) Steering quickeners are allowed.

MOD-12: SHOCKS & SPRINGS

- A) One (1) shock allowed per wheel or corner.
- B) Air shocks are NOT allowed.
- C) Oil reservoir shocks are allowed.
- D) Springs may be dual rate with a third tension spring if desired.
- E) Shock lengths are limited to:
 - 8" Front shock travel
 - 8" Rear shock travel

MOD-13: BRAKES

- A) Brakes are required on all (4) four wheels.
- B) Brake system should be a dual (front/rear) system to provide brakes in the event that one end or the other loses brake function. A proportioning valve is allowed to adjust front and rear brake amounts.
- C) Brakes must be in safe working order and must remain in working condition for the entire event. If brake failure is encountered, repairs must be made before continuing in the competition.

MOD-14: ELECTONICS, IGNITION

- A) All vehicles must be equipped with an ON/OFF switch and a push button or master disconnect kill switch on the rear of vehicles, to be located in an open position for safety crew ease to shut down engine if necessary.
- B) Aftermarket ignition modules are allowed.
- C) Data logging electronic equipment is allowed. This equipment cannot control any functions of the vehicle.
- D) Any brand or type of spark plug is allowed.

MOD-15: CLUTCH / GEARING

- A) Clutch is open, can be factory or aftermarket.
- B) Engine and transmission must be configured as manufactured.
- C) The EHREN Mod Kart is equipped with a secondary gear box. The gear ratio of this secondary gear box is limited to gear ratio's / gear sets as produced by EHREN only.
- D) All other gearing and gear ratio's including the rear axle are open.
- E) Chain drive is required. No shaft driven rear differentials.

MOD-16: WHEELS / TIRES

- A) Front Wheel size : 10" x 5"
Rear Wheel size : 10" x 8"
- B) Front Tire size : AT 21 x 7-10
Rear Tire size : AT 20 x 11-10
- C) Wheels and tires can be any brand as long as sizes remain as stated above.
- D) Bead lock rims are recommended but not required.
- E) Plastic or foam rear wheel covers / plugs are allowed.
- F) Cutting and siping of tires are allowed.

MOD-17: EXOTIC MATERIALS

- A) No titanium or magnesium materials may be used anywhere in vehicle.

MOD-18: RADIOS / SPOTTERS

- A) All drivers must have radios to allow for 2 way communication with their spotter.
- B) Driver's radio must also be equipped with a race receiver set to the track frequency to allow driver to hear any transmissions from track officials.
- C) Each team is limited to 1 spotter per truck in the designated spotter stand.
- D) Good sportsmanship is required of all race teams including their spotter. Any spotter displaying unsportsmanlike actions will be removed from the spotter stand and the driver will be docked 2 positions of race finish position.

MOD-19: TRANSPONDERS

- A) All race vehicles must have a functioning transponder attached to vehicle.
- B) Transponders must be of a frequency compatible with the class being raced. It is the race team's responsibility to register the number of the transponder with MORR before any race event.
- C) Transponders must be mounted on the outside of the right side inner panel even or behind the driver's seat.