

RULEBOOK 2007
Short-Course Karts

Revised May 22, 2017

Definition: Spec mini race trucks with Briggs & Stratton spec engine driven by children ranging in age from 7-15 years.

Purpose: All Short Course Kart's raced, must be 100% spec to ensure quality racing between Drivers with no mechanical advantage. All kids should have a chance to win based on ability.

ALL PARTS MUST REMAIN STOCK AS DELIVERED FROM MANUFACTURE UNLESS OTHERWISE NOTED IN THIS RULEBOOK.

Technical Rules

KR-1 CHASSIS / ROLL CAGE

- A. Kart chassis are spec. No material may be removed. The following are examples that cannot be changed or removed:
 - 1. All pivot points.
 - 2. All chassis and roll cage tubing.
 - 3. Engine mounts.
 - 4. Axle housing.
 - 5. All control arms.
 - 6. All Shock mounts.
 - 7. Front spindles and tie rod mounts.
 - 8. Steering rack location.
 - 9. Body Mounts.
- B. The only modification allowed to the original chassis is by making the down tube that is directly in front of the clutch assembly removable. Must use an interlocking tube connector for the lower connection and a two bolt flange for the upper assembly.
- C. Additional tubing, plate, gussets, weld washers etc. may be added to strengthen Spec Chassis Design.
- D. Not allowed, removal of any original material.
- E. In the event a Kart is damaged and spec areas need to be rebuilt, TORC/MORR officials may require Kart to return to an authorized chassis builder for repair.
- F. All repairs to chassis mounts/ control arms must be approved by TORC/MORR officials.
- G. Must use factory replacement parts when replacing damaged components.

KR-2 MEASUREMENTS & WEIGHT

- A. All measurements will be taken with driver in kart at both pre and post race technical inspection.
- B. Wheelbase will be measured from center of the front wheel to the center of the rear wheel.
- C. Track width will be measured from outside of tire to outside of tire at widest point.
- D. Overall length is measured from front point of front bumper to rear point of rear bumper.
 - 1. Wheelbase length is 73", +/- 1".
 - 2. Front Track width is 58". +/- 1".
 - 3. Rear Track Width is 55", +/- ½"
 - 4. Overall length is 121 ½", +/-1".
- E. Minimum Kart weight is 780 pounds, measured pre and post race.
- F. Minimum weight includes driver.
- G. Additional weight may be added to meet minimum weight requirement.
 - 1. Any weights added must be mounted within the centerline (Front to Back) of the Kart Seat.
 - 2. Any added weight must be painted white, and marked with kart number.
 - 3. All weights must be mounted securely using 3/8" Grade 8 Bolts.
 - 4. All mounting methods must meet approval of TO RC/MORR officials.
 - 5. Weight may not be carried on driver's person.
- H. All measurements will be taken as raced. (i.e. tire pressures & ride height)

KR-3 ENGINE & CLUTCH ASSEMBLY

- A. Engine, clutch, and mounts are spec.
- B. The entire engine package must remain as delivered by Briggs & Stratton and must remain sealed, including start & ring gear.
- C. Engine will be sealed by approved Engine sealer. Karts will not be allowed to race with a broken engine seal.
- D. Approved engine:
 - 1. Briggs and Stratton World Formula 11.5 HP engine Briggs and Stratton World Formula.
- E. Engines must be rebuilt by authorized builder Jim at Faster Motors is an approved engine rebuilder & sealer. (Faster Motors, W3201 County Road MM, Elkhart Lake, WI 53020, 920-207-9180)
- F. Muffler is allowed to be gutted (only removing internal baffles). but must retain the complete factory outer case. No other modifications allowed.
- G. Only JR Race Car Clutch P/N: FI-4995-k may be used.
- H. Tuning of clutch is allowed. MUST USE TUNING PARTS FROM JR RACE CAR ONLY. NO MODIFYING OF STOCK PARTS OR CUSTOM MADE PARTS.
- I. Only use factory supplied drive belt.
- J. Approved drive belt:
 - 1. Drive Belt JR Racecar P/N: 34583 or 34584
- K. Not Allowed. any additional adjusting or tuning to the engine.
- L. No modifications to the carburetor, intake or any engine component.
- M. Tech may impound any engine deemed illegal along with possible suspension.
- N. Must use factory replacement parts when replacing damaged components.

KR-4 BODY & FENDERS

- A. Five Star Short Course Kart body is required.
- B. Mounting methods must remain stock using existing brackets.
- C. Body must be complete and in good condition at start of competition.
- D. Not allowed, remove or modify any existing body mounts.
- E. Must use factory replacement parts when replacing damaged components.

KR-5 BUMPERS & NERF BARS

- A. Must use stock nerf bars, front and rear bumpers as provided from manufacturer.
- B. Must have front and rear bumper secured to frame.
- C. No protruding objects from karts are permitted.
- D. Front bumper must extend beyond front of grill so safety crews can have easy access to a tow hook.
- E. Additional tubing, plate, gussets, weld washers etc. may be added to strengthen Spec Bumper design.
- F. Material may be added but not removed. Any additions must be approved by Tech and must not change the original design.
- G. Must use factory replacement parts when replacing damaged components.

KR-6 Pivot Points

- A. All pivot points must be the same material and grade as manufactured.
- B. Must use factory replacement parts when replacing damaged components.

KR-7 FRONT SUSPENSION & STEERING

- A. All front end parts are spec, including but not limited to:
 - 1. Pivot points.
 - 2. Lower a-arm.
 - 3. Upper a-arm.
 - 4. Spindle.
 - 5. Steering rack and location.
 - 6. Hubs.
 - 7. Bearings.
 - 8. Shock mounts.
- B. One coil over shock per wheel.
- C. Approved front shocks:
 - 1. Walker Evans
- D. Adjustments to the shocks are allowed. Must use shock manufacturer components for adjustments. No custom made components.
- E. Approved front coil springs:
 - 1. Pac Racing Springs.
- F. Front wheel travel is limited to 12 inches.
- G. Limit straps are allowed.
- H. No remote or piggy back reservoirs.
- I. No dual rate or variable rate springs.
- J. No Secondary suspension.
- K. No Hydraulic or pneumatic bump stops.
- L. No custom suspension parts.
- M. Must use factory replacement parts when replacing damaged components

KR-8 REAR SUSPENSION

- A. All rear end parts are spec, including but not limited to:
 - 1. Pivot points.
 - 2. Track arms and wishbone.
 - 3. Axle housing and all mounts.
 - 4. Hubs.
 - 5. Bearings.
 - 6. Axle.
 - 7. Brake caliper.
 - 8. Brake rotor.
 - 9. Brake pads.
 - 10. Sprocket holder.
- B. Must use and retain the factory sway bar as provided by Manufacture.
- C. One coil over shock per wheel.
- D. Approved shocks are:
 - 1. Walker Evans
- E. Adjustments to the shocks are allowed. Must use shock manufacturer components for adjustments. No custom made components.
- F. Approved rear coil spring:
 - 1. Pac Racing Springs.
- G. Limit straps are allowed.
- H. Rear wheel travel is limited to 13 inches.
- I. No remote or piggy back reservoirs.
- J. No secondary suspension.
- K. No Hydraulic or pneumatic bump stops.
- L. Must use factory replacement parts when replacing damaged components.

KR-9 STEERING

- A. Must use Stock Rack as provided by Manufacturer.
 - 1. Manufacturer P/N: FI-AC425150.
- B. Location and position is spec.
- C. Steering stops are allowed.
- D. No Power steering.
- E. No steering quickeners.
- F. Must use factory replacement parts when replacing damaged components.

KR-10 BRAKE

- A. Master Cylinder, Caliper, Rotor, and Brake Pads are spec. Must retain factory mounts as provided by manufacturer.
- B. Location may be changed by using the adjustable settings provided by manufacturer.
 - 1. If there is not enough adjustability, Approval from TORC/MORR official is required.
- C. Brakes must be in safe working condition and be able to apply adequate force to lock up tires.
- D. Brakes must be in safe operating condition during the entire event. If brake system problems do occur during the event they must be repaired before continuing in competition.
- E. No front brakes.
- F. Must use factory replacement parts when replacing damaged components.

KR-11 FUEL CELLS

- A. Fuel cell, location, and mount is spec.
- B. Vent line must be routed above cell to opposite side of vehicle, then down to a point lower than the bottom of cell.
- C. Fuel cell foam is permitted.
- D. No pressurizing of fuel tank.
- E. Must use factory replacement parts when replacing damaged components.

KR-12 FUEL

- A. Spec fuel is required and must be purchased at the track. VP MS98L
- B. Fuel can be tested at any time during the event.
- C. Cooling of fuel is not permitted.
- D. Penalties for use of hazardous chemicals will be severe and may include a fine, and/or reduction of points, disqualification, and/or suspension.
- E. If TORC/MORR suspects maskers in fuel, chemical testing will be conducted at possible expense to competitor.

KR-13 GEARING & DRIVE PARTS

- A. Gearing / Sprocket sizes are spec.
 - 1. Clutch shaft (12T) to main driveshaft (26T) = 2.17:1
 - 2. Main driveshaft (12T) to axle shaft (48T) = 4:1
 - 3. Final drive ratio 8.68:1
- B. Shaft locations and materials are spec. Must use same shafts as provided from manufacturer.
- C. Approved drive shaft bearings:
 - 1. Two bolt flange bearing: 3/4" bore
- D. Sprockets must be chain driven.
- E. Must use Stock gears and shafts as provided by manufacturer.
- F. No custom or different manufacture gears and shafts.
- G. Any manufacture Chain is allowed as long as it works with the stock gears.
- H. Must use factory replacement parts when replacing damaged components.

KR-14 Rear Axle

- A. Axle must retain original parts, mounting points, and configuration.
- B. Axle Shaft must be the same size and material as original axle from manufacturer.
- C. Must use factory replacement parts when replacing damaged components.

KR-15 WHEELS & TIRES

- A. Tire and wheel size must remain as delivered.
 - 1. Front Wheels PIN: FI-ASOS-02
 - 2. Rear Wheels PIN: FI-ASOS-03
 - 3. Front Tires PIN: FI-532040
 - 4. Rear Tires PIN: FI-532035
- B. No inner liners, tire balls, foam, or other inserts allowed.
- C. No bead lock wheels allowed.
- D. One tire per corner permitted.
- E. No wheel covers, or caps are allowed.
- F. Must use factory replacement parts when replacing damaged components.

KR-16 EXOTIC MATERIALS

- A. No titanium, magnesium, carbon fiber or any other exotic materials may be used anywhere in the vehicle.

KR-17 HOSES

- A. All fuel and brake line hoses including metal lines must be securely fastened.

KR-18 RADIOS

- A. No spotters allowed.
- B. Radio communication between drivers is not permitted.
- C. Drivers must have a Nitro Bee or equivalent.

KR-19 TRANSPONDERS/TIMING

- A. All teams are required to purchase remote timing transponders. Transponders can only be purchased through TORC/MORR and numbers must be recorded with TORC/MORR officials.
- B. Transponder mount location is spec.
 - 1. Transponder must be mounted to the rear fire wall outside of the driver's compartment on lower right side corner OR on the right upper body mount.
- C. Teams are responsible for the installation of all transponders. Any entry without a properly installed or functioning transponder may not be scored and may be subject to further penalty.

KR-20 CONTACT INFO

A. If you need technical support or clarification on the rules please contact:

Mark Wirhanowicz at 906-786-6730 or 906-280-7466, or you may email mark@edwardscollisioncenter.com