



It starts with Scouts.

SCOUTS CANADA
Greater Toronto Council
2017 KUB KAR RULES & REGULATIONS

To the Cubs:

Welcome to the 2017 Kub Kar season!

We hope you're looking forward to having a lot of fun designing, building and racing your very own Kub Kar. For some of you, this will be your first Kub Kar. It's exciting to think that you could design your Kub Kar to be just about anything! You could make it look like your dream car, you could make it look like a skateboard... or even something no one's seen before. That little block of wood in the Kub Kar Kit can become just about anything you can imagine. For some Cubs, this may be your second or third time building and racing a Kub Kar. This year, you get to build a brand new one that's even better than the one you built last year! Remember to pass along helpful tips to the newer Cubs as well... Kub Kar Rallies are more fun if everyone's having a good time and playing fair. Have fun... and start your engines!

To the Parents:

We are pleased to present the latest edition of the Kub Kar Specifications. The core of these rules are published in the leaflet included with the standard Kub Kar Kit sold at Scout Shops across Canada. The regulations contained in this document are common to Kub Kar Rallies throughout Ontario and are reviewed annually to maintain the spirit of fair competition amongst our Youth. We enjoy seeing the excitement of the Youth on Race Day, and we hope that you share in their feeling of accomplishment as they watch the Kub Kar that they have built cross the finish line. We would ask that you provide guidance to your Cub through the construction process, allowing them the freedom to bring their designs from the paper to the track, while instilling in them the value of fairness in competition.

Always remember: A broken rule, a disappointed Cub Scout.

Notes on Measurements:

The Kub Kar program has existed since the 1970s and as such the original specifications were given in Imperial units of measurement (inches, ounces). As a result, the Kub Kar Kits are still produced using Imperial measurements. Metric conversions have been provided for reference, and all reasonable attempts shall be made to accommodate the conversion. For greatest accuracy and fairness a Metric scale shall be used to weigh the Kub Kars at registration.



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KUB KAR SPECIFICATIONS

LENGTH

- The overall length of the Kub Kar shall not exceed 7" (17.8cm).

WIDTH

- The overall width of the Kub Kar, including wheels, shall not exceed 2-3/4" (7cm).
- The minimum distance between wheels shall not be less than 1-3/4" (4.5cm).

HEIGHT

- The height of the Kub Kar, including wheels and additions to the Kub Kar, shall not exceed 3" (7.6cm).
- The minimum clearance between the track surface and the underside of the Kub Kar shall not be less than 3/8" (.95cm).

WEIGHT

- The overall weight of the Kub Kar shall not exceed 142g (5 oz).
- It is advisable that coins should not be used as weight for Kub Kars, as common methods of attaching them to Kub Kars has proven unreliable.
- Weights added to the Kub Kar should not be mounted to the underside of the vehicle as this often results in track clearance issues.

RESTRICTIONS

- A new Kub Kar shall be built each year; a Kub Kar from a previous year will not be registered.
- The Kub Kar shall be free-wheeling and must be propelled only by the force of gravity.
- No starting mechanisms (ie: motors, magnets, etc.) shall be permitted.
- Wheel bearings, washers and bushings of any kind are prohibited.
- The Kub Kar may not ride on springs or have a suspension of any kind.
- Every reasonable effort must be made to ensure **all four wheels of the Kub Kar are touching the track surface** at the same time while racing.
- Wheels shall be mounted to the Kub Kar so that they are vertically square to the track surface and the full flat portion of the wheel shall be in contact with the track surface (in other words, Kub Kars are to have ZERO wheel camber).
- Wheels shall not be shaped, profiled or machined. They may be lightly sanded to remove mould flashing or burrs.
- Details and attachments (including weights) may be added providing they are securely fastened and do not exceed the maximum length, width, height and weight specifications. Loose items may be removed by Rally staff if they are deemed to be a race hazard.
- Lubrication may be applied to the axles only before registration. Kars may not be lubricated once registered. Dry graphite is the preferred lubricant. Excess lubricant on the Kub Kar which may affect other Kub Kars or the track shall be removed.
- The final paint or finish of the Kub Kar shall be dry to the touch upon registration. Kub Kars with wet paint or finish shall not be eligible for registration as this may affect the track and, by extension, other Kub Kars.



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INSPECTION

- All Kub Kars shall be subject to inspection by an official inspector or inspectors to determine eligibility.
- Kub Kars which exceed the length, width, height or weight specifications shall be subject to modification by Rally staff in order to bring the Kub Kar into compliance with the specifications.
- Cub Scouts with Kub Kars which weigh-in under the maximum allowed weight shall be given the option to either register their Kub Kar underweight **OR** add sufficient weight to bring their Kub Kar up to the maximum allowable weight.
- Kub Kars shall be kept at the marshalling area (the "Pits") once they have been registered.
- Kub Kars may not be modified in any way after they have been registered.
- After registration, a Kub Kar shall not be handled by any person except the Cub Scout to whom it belongs or Rally staff.