

S.L.S. KUB KAR RALLY RULES 2021

To the Cubs: Welcome to the 2021 SLS Kub Kar Rally! We hope you're looking forward to having a lot of fun designing, building and racing your very own Kub Kar. It's exciting to think that you can design your Kub Kar to be just about anything! You can make it look like your dream car 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.

To the Parents: We are pleased to present the latest edition of the Kub Kar Specifications. 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.**

First and foremost, the intent of the SLS Kub Kar Rally event is for all registrants to have fun building and racing a Kub Kar of their own design, through a means that promotes fair play, friendly competition and positive social engagement with other racers, while responsibly maintaining social distancing.

Kub Kars found not to meet all requirements listed below will be relegated to the alternative “fun” race component of the Rally, where times will be recorded and provided to participants, but not counted towards competition or the awarding of prizes for speed.

Registration of a Kub Kar for participation in the 2021 SLS Rally will be viewed as an acknowledgement by the Entrant that they have read these rules completely and agree to abide by them and all race day decisions made by race officials.

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1) Kub Kar Kits

Include:

- a. 1 block of wood
- b. 5 wheels (including 1 spare)
- c. 5 nails (including 1 spare)
- d. 1 set of decals (use optional)

Kub Kars must be constructed from the material supplied within the kit.

2) Kub Kar Design Specifications:

- a. Overall width not to exceed **70 mm**
- b. Overall length not to exceed **178 mm**
- c. Overall height not to exceed **76 mm**
- d. Wheels must be a minimum of **45 mm** apart in width, in order to clear the track with no modification.
- e. Clearance between the Kub Kar body and the track must be a minimum of **10 mm**
- f. No part of the Kub Kar may overhang or extend beyond the start barrier. If a Kub Kar is constructed in such a way that it does, the Kub Kar will be run backwards if that resolves the issue.
- g. Wheels shall not be shaped, profiled or machined, but may be lightly sanded to remove mould flashing or burrs.
- h. Kub Kars shall be free-wheeling and must be propelled only by the force of gravity.
- i. No starting mechanisms (e.g. motors, magnets, etc.) shall be permitted.
- j. Bearings, washers and bushings on wheels and axles of any kind are prohibited.
- k. Kub Kars may not ride on springs or have a suspension of any kind.
- l. All four wheels of the Kub Kar must touch the track surface at the same time while racing.
- m. 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).
- n. Kub Kars that have previously raced as part of a SLS Rally are prohibited.

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3) Kub Kar Weight Specifications:

- a. The Kub Kar cannot weigh more than **142 grams**
- b. Weight may be added to the Kub Kar in accordance with the following specifications:
 - i. Weight can only be added to the bottom of the Kub Kar and only between the front and rear axles.
 - ii. Bottom weights must be flush with the bottom of the Kub Kar and may not be used in any way in the design of the Kub Kar (e.g. Tacks used as headlights)

4) Finishes:

- a. Wood fillers may be used to fill scratches and joints
- b. Glue may be used for joining parts and filling scratches and joints
- c. Paints and enamels may be used for finishing
- d. Wood fillers, glue, and paint or enamel may not be used in forming parts of the Kub Kar.
 - i. (e.g. molding fenders from glue and sawdust is not allowed)
- e. **DO NOT PAINT the bottom of the Kub Kar**, this area is to remain unfinished for identification.
- f. All entrants must have the following information in ink on the unpainted bottom of the Kub Kar:
 - i. The Cub's Name
 - ii. The Cub's Age (as of Dec 31, 2020)
 - iii. The Cub's Scout Group
 - iv. Reference to the current year: 2021
- g. Any decals that are used must be secured on the Kub Kar with either glue or the finish.
- h. The final paint or finish of the Kub Kar shall be dry to the touch upon submission. Kub Kars with wet paint or finish shall not be eligible for racing as this may affect the track and, by extension, other Kub Kars.

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5) Lubricants

- a. Light oil or graphite powder may be used as lubricants for the wheels and axels but must be placed on the vehicle prior to submission for racing. No excess lubricant is permitted and no “top ups” between races will be administered.
- b. Each Kub Kar will be assessed for excess lubricant by the officials on race day and the officials have sole responsibility for this judgement. If a Kub Kar is judged to have excess lubricant it will be relegated to the alternative “fun” races of the event where times will be recorded, but not counted towards the competition or awarding of prizes for speed.

6) Attachments

- a. Details and attachments may be added providing they are securely fastened and do not exceed the maximum width, length, height and weight specifications.

7) Entries

- a. Only one Kub Kar may be entered per Cub.
- b. Upon registration each Kub Kar entrant will receive a registration number for their vehicle. The registration number is to be displayed at the top rear of the Kub Kar base. Only the registration number is to be used on the Kub Kar, no other numbers are to be shown.
- c. Kub Kars that have previously raced as part of a SLS Rally are welcome to register as participants in the Kub Kar Fun Races.
- d. The cost for registration for the 2021 SLS Rally is **\$7.00** per Kar.
- e. All registered entries receive a 2021 SLS Rally event badge.
- f. 1st, 2nd and 3rd place prizes will be awarded for fastest Kub Kar and for best Kub Kar design, determined exclusively at the discretion of the race officials.