

GOBLIN RULES

SCHOOL YEAR 2023-2024

THE CAR:

KITS: greenspaceschattanooga has provided kits to schools from which to build their Goblin race car. Only mechanical parts from that kit may be used in the car, plus bodywork, unless noted below. It must be assembled according to the Manual furnished with the kit. The Manual is part of these Rules, by reference.

MOTOR can be either Motion Tech Motor Type DCA5N24202DL000 or Type DC Motor 105ZDY08. Any substitutions must be specifically approved by the Green Prix Chief Tech Inspector. Repairs are restricted to those approved by the Chief on a case-by-case basis.

BATTERIES should be two Interstate #DCM0035 or Yuasu #REC36 with any exceptions specifically approved by the Green Prix Chief Tech Inspector. They must be securely attached to the chassis by a mechanical attachment as provided in the kit. No elastic material is allowed as an attachment.

BODYWORK is free from restrictions except it must cover the front and sides of the car, the belt and moving parts. Front and side panels must be lined with 1" foam. See illustration below. Bodywork may not have sharp protrusions. Panels should be of a rigid material such as fiber reinforced plastic, plastic, or aluminum of at least one and one-half millimeters thick. Corrugated plastic, such as Coroplast, may be used in a thickness of at least 4 millimeters if bonded to the 1" foam.

BRAKES: When applied they must hold well enough to prevent the car from being pushed.

TIRES AND WHEELS: Wheels must be 4 inch, but ~~open~~ **free** otherwise. Tires can be 3.50 x 4 or 4.10 x 4 or similar **but must be pneumatic type.**

REPAIRS: Repairs to the car are allowed even if they increase the durability of the car so long as they don't increase performance in any way other than durability. Examples: strengthen steering arms or improve front axle.

SERIAL NUMBER: A Serial Number shall be stamped on each car and that number registered with greenspaces of Chattanooga. The number will be assigned and stamped on the car in front of the roll bar on the Right side by the Tech Inspector at an event.

NUMBERS: Car numbers will be on each side of the car. Numbers will be assigned by greenspaces. Teams may request a specific number if they choose. Sponsor stickers as supplied by greenspaces will be applied to each side. Other stickers are at the team's option.

DRIVERS AND SAFETY EQUIPMENT:

GRADE LEVEL: Drivers must be students enrolled in grades 4, 5 or 6.

CONTROLS: Drivers must be familiar with all controls of the car, including the battery cutoff switch. They may be asked to demonstrate familiarity during Tech Inspection.

DRIVERS: Advisors shall insure that each driver to participate in a Green Prix race has driven the car enough to be fully familiar with controls and able to maintain control of the car.

PERSONAL SAFETY EQUIPMENT will consist of a DOT approved helmet, face shield or goggles, head sock, clothing with long sleeves covering the arms, closed toe shoes, full-coverage gloves, and long pants. The helmet straps must be firmly fastened.

COMMUNICATION DEVICES: An electronic communication device may be used but Rules concerning use will be strictly enforced. It must be operable without the driver removing a hand from the steering wheel. It must be securely attached to the car **or clothing** but can have no part attached to the Safety Harness.

SAFETY HARNESS: A four-point safety harness shall be installed per instructions. In use, it should have the lap belt adjusted first, then the shoulder harness.

HORN AND MIRRORS: These may be added to the car if the team chooses. Not mandatory.

VISIBILITY: All drivers must have forward visibility allowing them to see the pavement no less than 40 feet in front of the car. ~~Booster Cushion, if required, must be attached to prevent movement.~~

ROLL BAR: Top of the driver's helmet shall not be above the top of the roll bar.

PIT STOPS: Teams are responsible for having a means to call the driver in for a Pit Stop, if a stop is scheduled by Rules or Supplemental Regulations.

SUPPLEMENTAL REGULATIONS: Refer to the Supplemental Regulations for each event for other requirements and information. Also see SCHEDULE for critical information.

NOTE: Any team wishing to participate in GreenPowerUSA events will need to refer to their Rules and Regulations.