

# Goblin Rules and Regulations

## 2021 – 2022 Race Season

### Overview

All cars must comply with the following regulations. All cars will be subject to pre-event and possible post-event scrutineering (race day safety check) to ensure compliance.

Remember that the Greenpower project is for the benefit of the young people involved. It is important to ensure that they are as involved in as much of the design and build of the vehicle as possible and that the technology used is relevant and accessible to the age group of the category in which you are participating.

### Technical Regulations

All text in red signifies a change from the 2019 – 2020 Goblin Rules and Regulations.

#### T1 – Technical

**T1.1** Goblin cars must, with the exception of the bodywork, be built using only components as supplied by Greenpower.

**T1.2** The motor is sealed and must not be opened or modified.

T1.3 Outside of the race vehicle, charging of the batteries is only allowed up to a designated time at the event. There will be a designated cutoff time at which all batteries must be removed from their chargers. This information will be provided via Supplemental Regulations provided by the Race Organizer.

A battery quarantine / charging area will be identified at all race sites to ensure safety.

T1.4 Batteries must be clamped to the chassis of the car using the supplied battery clamp only.

T1.5 The floor of the car must be fitted with no large gaps to the ground.

T1.6 The top of the driver's crash helmet must be below roll bar height at all times.

T1.7 The driver must be able to reach and operate steering and brakes comfortably.

T1.8 Bodywork must cover the entire length of both sides and the front of the car.

T1.9 Bodywork must not cover isolator switches, which must be freely accessible at all times.

T1.10 There must be no sharp edges on bodywork.

**T1.11** All bodywork that protrudes beyond the front of the chassis must be easily deformable.

**T1.12** The addition of bodywork or other structures for the purpose of push starts is prohibited.

T1.13 The brakes must be correctly set up, so that when applied prevent the car from being pushed.

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- T1.14 The safety harness must be tightly adjusted for each driver.
- T1.15 Always transport and charge batteries in a safe environment where there is no danger of metal parts coming into contact with the battery terminals. Always charge in accordance with manufacturers' instructions.
- T1.16 All cars will display race number stickers provided at each event.
- T1.17 Provisions must be made for partner stickers, each of 8 in x 3 in (200 mm x 75 mm). Partner stickers supplied by Greenpower must be applied to the vehicle in prominent positions.
- T1.18 Bodywork that protects the driver must be constructed of rigid sheet material such as aluminum; rigid plastics; carbon fiber; glass-reinforced plastic or other composites of at least 0.06 in. (1.5 mm) thickness. Plywood products must be at least 0.12 in. (3 mm) thick. The skin must form a continuous protective layer and be securely attached directly to the driver's cell so as to be unlikely to fail as a result of an impact.
- Note: Corrugated plastic will also be observed as a suitable body material as long as it is supported with a 1 in. (25 mm) thick closed-cell foam backing.
- T1.19 Inner faces of the bodywork specified in T1.18 will be lined with a minimum of 1 in. (25 mm) thick closed-cell foam from the floor to the driver's cell opening to protect a substantial part of the driver's body. This foam must be bonded to the bodywork.

## Sporting Regulations

### S1 – Sporting Regulations

- S1.1 Drivers must wear helmets with visor or goggles at all times during practice and competition. It is the responsibility of the driver and team manager to ensure helmets fit properly and are in serviceable condition. In use helmets must be securely fastened. Helmets must be a full-face style compliant with the Department of Transportation (D.O.T.)
- S1.2 Full overalls or long-sleeved tops and trousers and full-fingered gloves must be used while driving. Overalls must be of a suitable thickness to provide protection. Paper overalls are not acceptable.
- S1.3 All team members must wear stout closed toed footwear, ideally with toe protection.
- S1.4 Drivers must be enrolled in Grades 4 – 6 only.
- S1.5 All drivers must know about all aspects of the car, especially how to isolate the power.
- S1.6 It is recommended that all drivers have experience in driving before arriving at an event.

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### Terms of Entry

By entering for any Greenpower USA Foundation organized event, the team(s) is/are agreeing to the following Terms of Entry:

- E1.1 Published regulations may be subject to change. In the event of this happening, notification will be sent to all entered teams and posted on the Greenpower website.
- E1.2 All vehicles will be subject to pre-event and possible post- event scrutineering to ensure compliance.
- E1.3 The vehicle and required drivers must be presented at scrutineering (race day safety check) in a race ready configuration.
- E1.4 Supplementary Regulations specific to each event will be published approximately two weeks beforehand and sent by email to all entrants for that event.
- E1.5 Greenpower’s scrutineers and officials accept no responsibility for damage caused to cars whilst performing safety checks, recovery or rescue during an event.
- E1.6 While these regulations, the scrutineers and other officials endeavor to ensure vehicles are safe to participate, ultimate responsibility lies with the entrant.
- E1.7 While compliance with the Technical and Sporting Regulations should result in a compliant vehicle, race officials reserve the right to prevent a vehicle racing. A vehicle deemed unfit may, following modification and further inspection, be permitted to race.
- E1.8 It is understood that all persons participating in events under these rules are doing so at their own risk and the entrant will ensure that all competitors will have disclaimers (as provided by the Race Organizer) signed by their parents or guardians prior to competing.
- E1.9 Greenpower ensures that Public Liability and Personal Accident Insurance for participants is always in place for events under their control and accept no liability for events organized by third parties or team practice sessions.
- E1.10 As part of the communications activity, GreenpowerUSA regularly uses photography for publicity purposes. Entrants must ensure all participants are aware of this and the necessary permission is obtained. If permission is not granted, GreenpowerUSA must be notified prior to every event in which the participant takes part.

Team leaders with less able students wishing to participate, who may have special requirements with regard to the regulations, should contact GreenpowerUSA who will be pleased to assist in any way possible.

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### Definitions

Adult	A person aged 18 or over.
Controlled Race Area	That area of the venue designated for racing to include the pit lane.
Driver	A participant registered at Race Administration intending to operate a vehicle at an event.
Event	An event organized by Greenpower for which supplementary regulations have been issued.
Entrant	A person who, acting on behalf of a team, applies to enter an event.
Official	Officials of the meeting are identified in the Supplementary Regulations and may be contacted via Race Administration.
Participant	Any member of a team present at an event.
Race Administration	A designated, permanently manned location at an event. May also be known as Race Admin or Race Control.
Team	An organized group comprising at least one responsible Adult identified as Team Leader, registered with Greenpower. A team may be associated with one or more vehicles.
Team Leader	The nominated Adult responsible for a team and registered with Greenpower. A deputy may attend an event but must register with Race Administration.
Vehicle	An assemble of components compliant to the rules set out in this document which the entrant intends to race. A vehicle may also be referred to as a car.

### Social Media

For Greenpower Social Media updates, please follow these handles:

Facebook @gpusafoundation

Twitter @Greenpower\_USA

Instagram @greenpower\_usa

LinkedIn GreenpowerUSA

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### More Information

If you'd like more information, please contact:

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