GreenpowerUSA F24/F24+ First Event Scrutineering Checklist 2020-2021

Version 1.0

Event Name:		**Date**	
Scrutineer Full Name:		**Class**	**Stock Modified Custom**
Team Name:		**Car No.**	

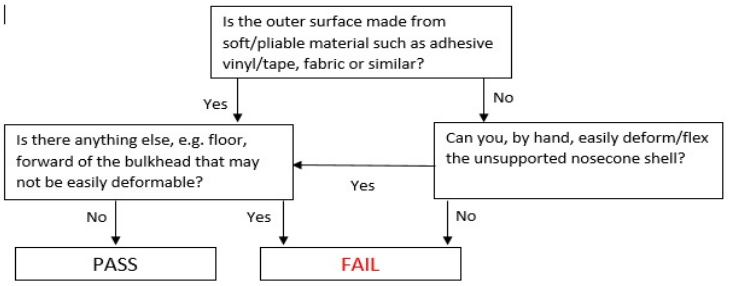
RULE	ITEM	REQUIREMENT	PASS	FAIL	RETEST	Note No.
		Tallest Driver Seated/Strapped In				
	Logbook	Check previous comments have been addressed.				
T14.6	Other	Crash helmet has no fairings or cameras attached to it. Cameras must be attached to the car with secure mechanical fixing. Suction mounted cameras are not permitted.				
T10.1	Roll Bars	A line drawn between roll bars is at least 2 in. (50mm) above the helmet of the tallest driver.				
T5.2	Dimensions	The ground clearance under the entire car is greater than 1.18 in. (30mm).				
T9.2	Brakes	There are two independent brakes acting on both front or both rear wheels.				
T9.4/5	Brakes	The brakes are operated by hand without removing either hand from the steering wheel.				
T9.1	Brakes	The car does not move when brakes are fully applied and a 300N force is applied forwards. (67 lbs or 30Kg on scales)				
T6.3	**Exit**	**Shortest Driver to replace Tallest Driver who can, unaided, rapidly/safely exit the vehicle.**				
T8.2	Bodywork	Bodywork to the front or sides of the driver's helmet is lower than the bottom of the driver's helmet visor aperture with **shortest driver** in racing position.				
T11.2	Safety Eqpt	There is a clearly audible single-tone horn.				
T11.3	Safety Eqpt	100A isolator switch, directly operable by the driver/marshals, is fitted with on/off positions clearly marked.				
T11.4	Safety Eqpt	The safety harness lap strap fully tightens around the lap, with mounting points on either side.				
T11.6	Safety Eqpt	There is a clearly visible non-flashing red brake light.				
T11.1	Safety Eqpt	Two driver adjustable, wide field rear view mirrors, fitted in clear air, fairings attached to mirror.				
T6.3	**Exit**	**The driver can, unaided, demonstrate a rapid & safe exit from the vehicle.**				
T15	Kit Car	Main chassis frame is unmodified other than, seat, battery tray & posts, motor mounting tabs & stud.				
T5.1	Dimensions	The whole vehicle is less than 110 in. (2800mm) long, 47 in. (1200mm) wide and 47 in. (1200mm) high.				
T5.3	Dimensions	The rear of the vehicle extends no more than 31.5 in. (800mm) from the rear axle centreline.				
T3	Wheels	The wheels are secure with minimal play in the bearings, axles and kingpins.				
T3.3	Wheels	The track, as measured from where the tyres contact the ground, is not less than 19.685 in. (500 mm).				
T3.1/4	Wheels	Tyres are pneumatic, in good condition, and between 12 in. (300 mm) and 20 in. (520 mm) in diameter.				
T3.5	Wheels	Plastic spoked wheels are not permitted.				
T12.1	Steering	There is minimal play in the steering system and control rods do not reach horizontal position.				
T12.2/3	Steering	Steering is mechanical and operates smoothly from lock to lock without fouling bodywork, locknuts are secure.				
T12.4/5	Steering	Steering is operated by hands only and only operates front wheels.				
T10.4	Roll Bars	Rear roll bars are made of circular section steel, minimum wall thickness 0.06 in. (1.5mm), minimum diameter 0.98 in. (25mm) - braces minimum 0.75 in. (19mm) diameter.				
T10.2	Roll Bars	Rear roll bar is firmly secured to the chassis with sufficient load spreading. May not be glued or bonded.				
T10.3	Roll Bars	Rear roll bar rigidly braced within 7.87 in. (200mm) of the top centrally or both sides. Roll bar/Brace angle exceeds 25°.				
T8.3	Bodywork/Roll Bars	No bodywork will be higher than 6 in. (150mm) below the top of the rear roll bar. The top 6 in. (150 mm) of the roll bar must not have any fairing or other aerodynamic aid.				
T10.6	Roll Bars	Roll Bar/Brace Stucture extends down to at least shoulder strap mounting point level.				
T1.1/2	Motor Type	**Fracmo (FR)** - Black end caps with no vent holes. Bolt on footplate (optional) **Greenpower (GP)** - Silver end caps with 8 vent holes each end, welded footplate.	**Circle as Req'd**		**FR**	**GP**
T1.1/2	Motor	Motor securely attached, unmodified with warranty seals intact.				
T1.3	Motor	The motor is air cooled only and any fans are powered by the main batteries only.				
T11.4	Safety Eqpt	Shoulder strap mounting points are around shoulder level to rear approx 6 in. (150mm) apart.				
T11.4	Safety Eqpt	A minimum of 4 point harness is fitted, with straps at least 2 in. (50mm) wide, all anchor points are secure.				
T11.5	Safety Eqpt	If the seat has combined angles of less than 45 degrees a minimum 5 point harness is fitted.				
T7.1	Driver's Cell	A minimum 7.87 in. (200mm) long front foam crash structure with compressive strength of 300-700 kPa is fitted to the front bulkhead. The bulkhead is vertical and parallel to front axle centre-line.				
T8.1	Bodywork	Anything forward of the front bulkhead must be easily deformable. See flow chart over page.				
T7.2	Driver's Cell	A rigid driver's cell runs from the front bulkhead to the driver's back.				
T7.2	Driver's Cell	Between the harness lap strap mounting points and the driver's back, it will extend to a height of 10in. (250mm) above the seat base or above the drivers elbows, whichever is greater.				
T7.2	Driver's Cell	From the front bulkhead to the lap strap mounting points it will reach the top of the driver's cell or 10 in. (250mm), whichever is lower.				
T7.3	Driver's Cell	The driver's cell skin forms a continuous protective layer and is of rigid sheet material 0.06 in. (1.5mm) thick (plywood 0.12 in. (3mm)). The skin must be securely attached directly to the driver's cell.				
T7.4	Driver's Cell	The cockpit must have a minimum opening of 23.5 in. x 14 in. (600x350mm) in a complete rectangle.				

T7.6	Driver's Cell	Inner side faces of the driver's cell must be lined with closed cell foam at least 1 in. (25mm) thick to protect a substantial part of the driver's body.				
T7.7	Driver's Cell	Any sharp edges or protrusions in the driver's cell must be padded.				
T4.2	Seating CG	The base of the driver's seat including padding is at or below 3.9 in (100 mm) from the ground.				
T6.4	Seating	There is a solid floor under the whole of the driver.				
T6.1/2	Seating	The seat is secure and the driver is sat in a feet first, reclined position.				
T6.5	Seating	There is a padded headrest located to avoid whiplash.				
T7.8	Seating	There is a suitable bulkhead to prevent the driver contacting the wheels.				
T11.7	Safety Eqpt	The drivetrain is guarded to prevent fingers, hair, clothing etc becoming trapped at any time.				
T11.8	Safety Eqpt	Critical components use locking nuts with at least 1 thread protruding, locking compound alone is not acceptable.				
T2.2	Batteries	Auxiliary devices are powered by maximum 1 PP3 or 6AA batteries, not fed into the main power.				
T4.1	Batteries CG	The base of the main batteries is at or below 3.9 in. (100 mm) from the ground.				
T2.5	Batteries	Main batteries cannot move, have rigid fixings (no webbing), and release clips are secure (no plastic).				
T2.7	Batteries	The batteries are inside the body of the car, seperated from the driver's cell by a bulkhead capable of restraining them.				
T2.8	Batteries	Batteries Disconnect location labelled, tool free access with quick release connections not liable to short.				
T2.3	Batteries	Battery installation/removal can be conducted safely using appropriate manual handling practices.				
T13.1	Electrics	The accelerator is spring loaded to the off position.				
T13.3	Electrics	There is a 70 amp or lower circuit breaker or fuse fitted.				
T13.4/5	Electrics	All wiring is secured away from moving parts and correctly rated for its use.				
T14.4	Other	Three race numbers are fitted, one on each side and one on the front, all are clearly visible.				
T14.5	Other	Transponder bracket mounted outside the bodywork between front axle and race number with no fairings.				
T14.7	Other	All Greenpower & partner stickers prominently displayed.				
T14.8	Other	Lift points are clearly marked.				
	Other	There is nothing else that would cause you to deem the car unsafe.				

Tick below as applicable

FAIL - give this **form** and the **logbook** to the **Chief Scrutineer**	**Fail**	
PASS - apply annual **MOT** and **EVENT** pass stickers, clearly visible, to car. **Hand** this **form** and the **logbook** to a team member to take to Race Admin to collect their Transponder	**Pass**	

Nosecone Deformability Assessment



NOTES: *Refer to note numbers on line items above.*