

Greenpower F24/F24+ MOT Scrutineering Checklist 2019

Event Name:		Date	
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Scrutineer Full Name:

Team Name:		Car No.	
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RULE	ITEM	REQUIREMENT	PASS	FAIL	RETEST
		Tallest & Shortest Driver Required to T6.3 Exit question			
	Logbook	Check previous comments have been addressed			
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 is mounted outside the bodywork with no fairings.			
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.			
T14.7	Other	All Greenpower partner stickers prominently displayed (Siemens, IET, BMWi, Ford, Solid Edge)			
T10.1	Roll Bars	A line drawn between roll bars is at least 50mm above the helmet of the tallest driver.			
T5.2	Dimensions	The ground clearance under the entire car is greater than 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.			
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	A 100A isolator switch, directly operable by the driver or 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, rear view mirrors, fitted in clear air, with wide field of view, 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 2800mm long, 1200mm wide and 1200mm high.			
T5.3	Dimensions	The rear of the vehicle extends no more than 800mm from the rear axle centreline.			
T3.3	Wheels	The track, as measured from where the tyres contact the ground, is greater than 500mm.			
T3.1/4	Wheels	Tyres are pneumatic, in good condition, and between 300mm and 520mm in diameter.			
T3.5	Wheels	Plastic spoked wheels are not permitted.			
T12.4/5	Steering	The car is steered by front wheels only and is operated only using hands.			
T3	Wheels	The wheels are secure with minimal play in the bearings, axles and kingpins.			
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.			
T10.4	Roll Bars	Rear roll bars are made of circular section steel, minimum wall thickness 1.5mm, minimum diameter 25mm - braces minimum 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	The rear roll bar is rigidly braced within 200mm of the top either centrally or on both sides.			
T10.5	Roll Bars	The top 150mm of the rear roll bar does not have any attached aerodynamic aids.			
T10.6	Roll Bars	Roll Bar/Brace Structure extends down to shoulder strap mounting point level.			
T1.1/2	Motor	A standard unmodified Greenpower motor is fitted with 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 150mm apart.			
T11.4	Safety Eqpt	A minimum of 4 point harness is fitted, with straps at least 50mm wide, all anchor points are secure.			
T11.5	Safety Eqpt	If the seat has combined angles of less than 45 degrees a 5 fixing point harness is fitted.			
T7.1	Driver's Cell	A frontal crash structure of at least 200mm length is fitted to the front bulkhead.			
T7.1	Driver's Cell	The above crash structure is made from foam with a compressive strength of 300-700 kPa.			
T8.1	Bodywork	Anything forward of the front bulkhead must be easily deformable.			
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 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 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 1.5mm thick (plywood 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 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 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 less than 100mm from ground level.			
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	The base of the batteries is no more than 100mm from ground level.			
T2.5	Batteries	Batteries cannot move at all, fixings are of rigid material, 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 have quick release connections (releaseable without tools) that are 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.			
T8.3	Bodywork	No bodywork will be higher than 150mm below the top of the rear roll hoop.			
	Other	Lift points are clearly marked			
	Other	There is nothing else on the car that would cause you to deem it unsafe			

If the car has **not** completely passed scrutineering, please give **this form and their logbook** to the **Chief Scrutineer**

If the car has **passed** scrutineering apply an MOT pass sticker AND a race pass sticker in a clearly visible position

Send the School/team leader to Race Admin with **this form and their logbook** to collect their Transponder

NOTES: