Formula Student Netherlands

Dashboard

2025 Mechanical Inspection Sheet

Car No
University

MECH 1 - READY TO RACE STATE WITH TALLEST DRIVER

*The teams shall start M1 with the **tallest** driver inside and securely strapped in a ready to race state.*

!ONLY FOR CV! NO FUEL IN THE FUEL TANK ! IF YES, EMPTY AT THE PIT

!ONLY FOR EV! CHECK IF THE TEAM HAS THE ACCUMULATOR INSPECTION STICKER! IF NOT THE ACCUMULATOR MAY NOT BE PRESENT!

VEHICLE EQUIPMENT

No.	Checkpoint	Rule No	Checkbox	Comments
16	**PUSH BAR** • Colored red • Clearly visible UNI name written on a high contrast backgound • Push bar handle behind rear axle • Fire extinguisher easily accessible • HV gloves protected in a box, 2 pairs (EV Only) • Multimeter (EV Only) • 4mm banana plug test lead (EV only)	T13.1		
17	**JACK** • One or two removable devices (jacks) that hold the vehicle, so that all **driven** wheels are at least 100mm off the ground • Safe positioning of the device (not reaching under the vehicle) • Vehicle is adequately supported • In the lifted position the vehicle must stand securely and stable • It must be safe for a driver to enter and exit the vehicle • The device(s) must not extend out of the area defined by the footprint of the four tires • On both sides of the vehicle the devices pickup points must be indicated by orange triangles. • The quick jack must be locked and secured. This must function without the support of a person or additional weights. • Clearly visible UNI name written on a high contrast backgound	T13.2		
18	**DOCUMENTS PRESENT** • SES present • IAD present • Laminate/test samples present	IN5.1.1		

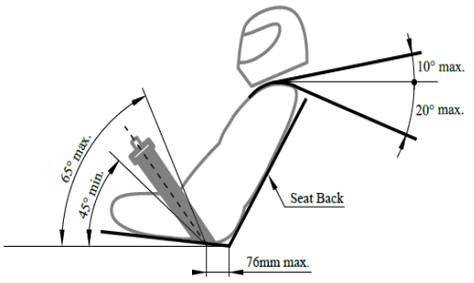
VEHICLE IDENTIFICATION (T12)

No.	Checkpoint	Rule No	Checkbox	Comments
19	Main scrutineering sticker	IN1.3		

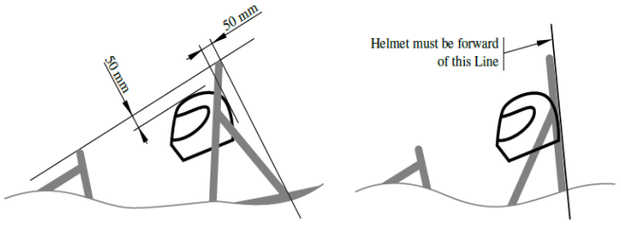
20	**VEHICLE NUMBER** • Placed on front and both sides • Height: at least 150mm high • Stroke width and spacing between numbers: at least 20mm • Color: Either white numbers on a black background or black numbers on a white background • Background shape: The number background must be one of the following: round, oval, square or rectangular. There must be at least 25mm between the edge of the numbers and the edge of the background • Clear: The numbers must not be obscured by parts of the vehicle	T12.1		
21	**UNIVERSITY NAME** • must be written fully, accepted abreviations: - University: Uni - Technical University:TU - University of Applied Sciences: UAS - Berufsakademie: BA - If the university officially uses an abbreviation in their proper name, this abbreviation is accepted • at least 50mm high on both sides of the vehicle on a high contrast background	T12.3		

DRIVER RESTRAINT SYSTEM (T5) with TALLEST driver seated (ready to race state)

No.	Checkpoint	Rule No	Checkbox	Comments
22	Car in ready to race condition and clean	IN5.1.1		
23	Check bracelet for tallest driver	IN5.1.1		
24	**GROUND CLEARANCE (EV - WITH ACCUMULATOR STICKER AND ACCUMULATOR INSIDE)** • clearance + 30mm	T2.2.1		
25	**SUSPENSION (EV - WITH ACCUMULATOR STICKER AND ACCUMULATOR INSIDE)** The vehicle must be equipped with fully operational front and rear suspension systems including shock absorbers and a usable wheel travel of at least 50mm and a minimum jounce of 25mm **with driver seated.**	T2.5.1		
26	**HARNESS TYPE** A six or seven point harness is installed with the one of the following certifications: • SFI Specification 16.1, SFI Specification 16.5 • or FIA specification 8853/98. • or FIA specification 8853/2016. Date on belts must be valid: SFI spec harnesses must be replaced following December 31st of the 2nd year after the date of manufacture as indicated by the label. FIA spec harnesses must be replaced following December 31st of the year marked on the label.	T5.2		

27	**DRIVING POSITION** Note **reclined** or **upright** driving position: upright position – Position with a seat back angled at 30° or less from the vertical reclined position – Position with a seat back angled at more than 30° from the vertical  	T5.1.3 T5.1.4		
28	**LAP BELT** • Securely attached to Primary Structure • Upright: between 45° & 60° from horizontal • Reclined: between 60° & 80° from horizontal • From anchor point straight to drivers body • In side view it must be capable of pivoting freely	T5.4		
29	**SHOULDER HARNESS** • Width: Without HANS Device: 75mm, With HANS Device: 50mm (T5.2.1) • 180-230 mm apart measured center to center • Between -20° & +10° from horizontal • Tilt lock adjuster • From anchor point straight to drivers body • Must not pass through the firewall	T5.5		
30	**ANTI-SUBMARINE BELT** • With the belts going vertically down from the groin, or angled up to 20° rearwards. The anchorage points should be approximately 100 mm apart. • Anchorage points must be on the primary structure **at** or near the lap belt anchorages • can use the same attachment point as the lap belts	T5.6		
31	Harnesses, belts and straps must not pass through a firewall, i.e. all harness attachment points must be on the driver's side of any firewall.	T5.3.2		
32	The lap belts and anti submarine belts must not be routed over the sides of the seat. • Where the belts or harness pass through a hole in the seat, the seat must be rolled or grommeted to prevent chafing of the belts.	T5.3.3		

SAFETY CHECKS with TALLEST driver seated (ready to race state)				
No.	Checkpoint	Rule No	Checkbox	Comments
	HEAD RESTRAINT - PADDING			
33	• Be vertical or near vertical in side view.	T5.7.2		
34	• Minimum thickness of 40mm			
35	• Be padded with an energy absorbing material: -that meets either the SFI 45.2 standard -or is listed in the FIA technical list n°17 as a type B material for single seater cars			
36	• Have a minimum width of 150 mm • Have a minimum height of 150 mm			
37	• Be located so that for each driver: – The restraint is no more than 25mm away from the back of the driver's helmet, with the driver in their normal driving position. – The contact point of the back of the driver's helmet on the head restraint is no less than 50mm from any edge of the head restraint.			
38	• The head restraint and its mounting must withstand a force of 890N applied in the rearward direction at any point on its surface.	T5.7.3		
39	Roll bar or bracing that could be hit by driver's helmet must be covered with 12 mm thick padding; • SFI spec 45.1 or FIA 8857-2001 *Gently move the driver's head to make sure that any object that comes in contact with it is covered by padding, or has sufficient clearance.* *Pay attention to the connections of the shuttdown buttons mounted on the Main Hoop.*	T5.8.1		
40	**VEHICLE CONTROLS** • All vehicle controls must be operated from inside the cockpit without any part of the driver, e.g. hands, arms or elbows, being outside the vertical planes tangent to the outermost surface of the side impact structure.	T4.9.1		
41	**FIELD VIEW** • Minimum of 100 deg. field view either side. Head rotation allowed or mirrors. If mirrors, must be firmly installed and adjusted	T4.10		

42	**MAIN HOOP & FRONT HOOP HEIGHTS** When seated normally and restrained by the driver's restraint system, the helmet of the tallest driver must: • Be a minimum of 50mm away from the straight line drawn from the top of the main hoop to the top of the front hoop. • Be a minimum of 50mm away from the straight line drawn from the top of the main hoop to the lower end of the main hoop bracing if the bracing extends rearwards. • Be no further rearwards than the rear surface of the main hoop if the main hoop bracing extends forwards  	T4.3.1		
43	**DRIVER'S FOOT PROTECTION** • The feet of the driver must within the primary structure in all views when touching the pedals			
44	**SHUTDOWN BUTTONS** One shutdown button serves as a cockpit-mounted shutdown button and must • have a minimum diameter of 24mm • be located in easy reach of a belted-in driver • be alongside of the steering wheel and unobstructed by the steering wheel or any other part of the vehicle • the international electrical symbol consisting of a red spark on a white-edged blue triangle must be affixed in close proximity	T11.4.4		
45	**CAMERA MOUNTS** The body of any video/photographic camera which is not exclusively used as sensor for the AS unit must be secured at a **minimum of two points on different sides of the camera body.** If a tether is used to restrain the camera, the tether length must be limited so that the camera cannot contact the driver.	T11.11		
46	Wheelbase has to be a minimum of 1525 mm	T2.9.1		
	APPROVAL STATUS		gid=0	
MECH 1	Approval (Control box) (DON'T CHANGE MANUALLY)		ONWAAR	