## **Formula Student Netherlands**

**Dashboard** 

2025 Mechanical Inspection Sheet

Car No University

MECH 4						
	IONLY FOR CV! NO FUEL IN THE FUEL TANK ! IF YES. EMPTY AT THE PIT					
!ONLY	ONLY FOR EV! CHECK IF THE TEAM HAS THE ACCUMULATOR INSPECTION STICKER! IF NOT THE ACCUMULATOR MUST NOT BE PRESENT!					
	Technical Inspection Sticker (IN	1.3)				
	WHEELS (T2.5) (VEHICLE ON THE G	ROUND)				
No.	Checkpoint WHEEL EREE PLAX	Rule No	Checkbox	Comments		
	GUIDELINES					
	Check the wheels' free play in both <b>TOE</b> and <b>CAMBER</b> direction					
	- Play in camber direction can be treated with more leniency within reasonable levels.					
	- Play in TOE direction in REAR wheels must be barely existent					
	- Force capable to rock the vehicle should be applied					
	- Larger wheels are usually expected to have more play (more leverage)					
	- While moving the wheels, inspect the A-arm mounting points on the chassis as well as the mounting points inside the rim.					
	- While moving the REAR wheels, inspect the TOE link mounting points (on the chassis and on the wheel assemby)					
	- If the suspension is mounted to the uprights with brackets, the brackets need to be rigid (check for deflections)					
176	• FRONT LEFT					
177	• FRONT RIGHT					
178	• REAR LEFT					
179	• REAR RIGHT					
	WHEEL FASTENING					
180	<ul> <li>• If a single nut is used to retain the wheel, a device must be incorporated to prevent loosening of the nut and the wheel. A second nut (jam nut) is not allowed.</li> </ul>	T2 6 1				
181	• Custom wheel nuts must show proof of good engineering practices. Purchased single nut systems must show proof of purchase.					
	- Ask for pretension force of the wheel lug assembly					
182	<b>No safety wiring for positive locking of center wheel nuts</b> . Only proper industrially manufactured cotter pins, center lock wheel springs or mechanisms compliant with T10.2					
	WHEEL LUG BOLTS - STUDS - NUTS					
	• Wheel lug bolts and studs must be made of steel or titanium. The team must be able to show good engineering practice and providing adequate strength by calculations. Wheel lugbolts and studs must not be hollow.					
183	• Aluminum wheel nuts may be used, but they must be hard anodized and in pristine condition.	T2.6.2 T2.6.3				
	• Wheel nuts must comply with T 10.2. An exception is made for commercially designed fasteners designated for wheels. In this case documentation must be presented together with proof of purchase, datasheets, <b>calculations</b> , proof of correct installment and other <b>necessary documentation</b> needed to prove their compliance.					
	- Ask for calculations that justify the design's safety.					



190	<ul> <li>the forward most surface of the steering wheel with the steering in any position.</li> <li>In any angular position, the top of the steering wheel must be no higher than the top-most surface of the front hoop.</li> </ul>	T2.8.6 T2.8.8				
191	• Assess the steering wheel's structural integrity by pushing it (from the handles) forwards to simulate breaking situation and backwards to simulate acceleration forces					
	STEERING SYSTEM FREE PLAY					
192	<ul> <li>Allowable steering system free play is limited to a total of 7° measured at the steering wheel.</li> <li>Position your foot against the wheel and slowly steer. Assess the force on your foot and the steering play existing.</li> </ul>	T2.8.4				
193	Check for <b>CONTACT</b> between components in the wheel assembly (If in doubt, inspective)	pect again with	the vehicle lifted a	nd the wheels on)		
194	FRONT LEFT					
195	FRONT RIGHT					

BRAKE SYSTEM					
No.	Checkpoint	Rule No	Checkbox	Comments	
196	• No "Brake-by-wire" in manual mode.	T6.1.5			
197	<ul> <li>Hydraulic brake system that acts on all four wheels and is operated by a single control.</li> </ul>	T6.1.1			
198	<ul> <li>Two independent hydraulic circuits. In case of leak or failure effective braking power maintained in on at least two wheels</li> </ul>	T6.1.2			
199	<ul> <li>A single brake acting on a limited-slip differential is acceptable</li> </ul>	T6.1.4			
200	Sealed to prevent leakage	T6.1.3 T6.1.6			
201	<ul> <li>The brake system must be protected from failure of the drivetrain, see T 7.3.2, from touching any movable part and from minor collisions.</li> </ul>	T6.1.7			
	(rotating parts - gears, clutches, chains, belts etc must be fitted with scatter shield. Check protection of brae system)				
	Any part of the brake system must be within the surface envelope, see T1.1.18				
202	<ul> <li>No part of the braking system on the sprung part of the vehicle below the lower surface of the chassis</li> </ul>	T6.1.8			
	VEHICLE LIFTED AND WHEELS REM	NOVED			
!WH	ILE THE VEHICLE IS LIFTED, PERFORM CHECKS WHILE KEEPI VEHICLE'S FOOTPRINT!	NG ANY BO	ODY PART OL	JTSIDE OF THE	
No.	Checkpoint	Rule No	Checkbox	Comments	
	Guidelines				
	- Ask the teams to loosen the wheel nuts to jack the car up.				
	<ul> <li>Check for the proper position of the jacking device (use the points indicated by orange triangles if safe)</li> </ul>				
	- Ask the team to remove the wheels				
203	• Must have positive steering stops that prevent the steering linkages from locking up. The stops must be placed on the rack and must prevent the tires and rims from contacting any other parts. Steering actuation must be possible during	T2.8.3			
	standstill.				
	(Check for collisions in the wheel assembly)				
	FASTENERS (T10)				
No.	Checkpoint LOCKING:	Rule No	Checkbox	Comments	
	The following fasteners are considered <b>critical</b> and have to be <b>positively locked</b> according to T10.2:				
204	<ul> <li>Steering System</li> <li>Braking system (Pedalbox)</li> <li>Suspension System</li> <li>ETC</li> <li>Primary Structure (M2)</li> </ul>	10.1.1T 10.2.1	l		
	<ul> <li>Drivers harness (M2)</li> <li>Accumulator Container (M2)</li> </ul>				
	FRONT LEFT				
205	A-ARMS and A-ARM MOUNTS				
206	• 2 threads minimum	T 10.2.4			
207	Positive locking	T 10.2.1			
208	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2			
209	• Check if the bolts are tight				
210	TIE ROD AND TIE ROD LENGTH ADJUSTING SYSTEM				
211	• 2 threads minimum	T 10.2.4			

212	Positive locking	T 10.2.1	
213	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2	
214	Check if the bolts are tight		
215	PUSH/PULL ROD AND LENGTH ADJUSTING SYSTEM		
216	• 2 threads minimum	T 10.2.4	
217	Positive locking	T 10.2.1	
218	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2	
219	Check if the bolts are tight		
220	BRAKE CALIPERS		
221	• 2 threads minimum	T 10.2.4	
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228	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2	
229	Check if the bolts are tight		
	FRONT RIGHT		
230	FRONT RIGHT A-ARMS and A-ARM MOUNTS		
230 231	FRONT RIGHT         A-ARMS and A-ARM MOUNTS         • 2 threads minimum	T 10.2.4	
230 231 232	FRONT RIGHT         A-ARMS and A-ARM MOUNTS         • 2 threads minimum         • Positive locking	T 10.2.4 T 10.2.1	
230 231 232 233	FRONT RIGHT         A-ARMS and A-ARM MOUNTS         • 2 threads minimum         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.4 T 10.2.1 T 10.2.2	
230 231 232 233 234	FRONT RIGHT         A-ARMS and A-ARM MOUNTS         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight	T 10.2.4 T 10.2.1 T 10.2.2	
230 231 232 233 234 235	FRONT RIGHT         A-ARMS and A-ARM MOUNTS         • 2 threads minimum         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight         TIE ROD AND TIE ROD LENGTH ADJUSTING SYSTEM	T 10.2.4 T 10.2.1 T 10.2.2	
230 231 232 233 234 235 236	FRONT RIGHT         A-ARMS and A-ARM MOUNTS         • 2 threads minimum         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight         TIE ROD AND TIE ROD LENGTH ADJUSTING SYSTEM         • 2 threads minimum	T 10.2.4 T 10.2.1 T 10.2.2 T 10.2.2	
230 231 232 233 234 235 236 237	FRONT RIGHT         A-ARMS and A-ARM MOUNTS         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight         TIE ROD AND TIE ROD LENGTH ADJUSTING SYSTEM         • 2 threads minimum         • Positive locking	T 10.2.4 T 10.2.1 T 10.2.2 T 10.2.2 T 10.2.4 T 10.2.1	
230 231 232 233 234 235 236 237 238	FRONT RIGHT         A-ARMS and A-ARM MOUNTS         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight         TIE ROD AND TIE ROD LENGTH ADJUSTING SYSTEM         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.4 T 10.2.1 T 10.2.2 T 10.2.2 T 10.2.4 T 10.2.1 T 10.2.1	
230 231 232 233 234 235 236 237 238 239	FRONT RIGHT         A-ARMS and A-ARM MOUNTS         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight         TIE ROD AND TIE ROD LENGTH ADJUSTING SYSTEM         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight         • Locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight	T 10.2.4 T 10.2.1 T 10.2.2 T 10.2.2 T 10.2.4 T 10.2.1 T 10.2.2	
230 231 232 233 234 235 236 237 238 239 240	FRONT RIGHT         A-ARMS and A-ARM MOUNTS         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight         TIE ROD AND TIE ROD LENGTH ADJUSTING SYSTEM         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight         PUSH/PULL ROD AND LENGTH ADJUSTING SYSTEM	T 10.2.4 T 10.2.1 T 10.2.2 T 10.2.2 T 10.2.4 T 10.2.1 T 10.2.1	
230 231 232 233 234 235 236 237 238 239 240 241	FRONT RIGHT         A-ARMS and A-ARM MOUNTS         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight         TIE ROD AND TIE ROD LENGTH ADJUSTING SYSTEM         • 2 threads minimum         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Positive locking         • No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror         • Check if the bolts are tight         PUSH/PULL ROD AND LENGTH ADJUSTING SYSTEM         • 2 threads minimum	T 10.2.4 T 10.2.1 T 10.2.2 T 10.2.2 T 10.2.4 T 10.2.1 T 10.2.2 T 10.2.2	
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248	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2		
249	Check if the bolts are tight			
250	BRAKE DISKS			
251	• 2 threads minimum	T 10.2.4		
252	Positive locking	T 10.2.1		
253	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2		
254	• Check if the bolts are tight			
	REAR LEFT			
255	A-ARMS and A-ARM MOUNTS			
256	• 2 threads minimum	T 10.2.4		
257	Positive locking	T 10.2.1		
258	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2		
259	• Check if the bolts are tight			
260	TOE LINK AND TOE LINK LENGTH ADJUSTING SYSTEM			
261	• 2 threads minimum	T 10.2.4		
262	Positive locking	T 10.2.1		
263	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2		
264	• Check if the bolts are tight			
265	PUSH/PULL RODS AND THEIR LENGTH ADJUSTING SYSTEM		I	
266	• 2 threads minimum	T 10.2.4		
267	Positive locking	T 10.2.1		
268	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2		
269	• Check if the bolts are tight			
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271	• 2 threads minimum	T 10.2.4		
272	Positive locking	T 10.2.1		
273	• No nylon locknuts in areas with heatsource (max 80 $^\circ$ C, minimum 50mm distance fror	T 10.2.2		
274	Check if the bolts are tight			
275	BRAKE DISKS			
276	• 2 threads minimum	T 10.2.4		
276 277	2 threads minimum     Positive locking	T 10.2.4		
276 277 278	<ul> <li>2 threads minimum</li> <li>Positive locking</li> <li>No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror</li> </ul>	T 10.2.4 T 10.2.1 T 10.2.2		
276 277 278 279	<ul> <li>2 threads minimum</li> <li>Positive locking</li> <li>No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror</li> <li>Check if the bolts are tight</li> </ul>	T 10.2.4 T 10.2.1 T 10.2.2		
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276 277 278 279 280 281	<ul> <li>2 threads minimum</li> <li>Positive locking</li> <li>No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror</li> <li>Check if the bolts are tight</li> <li>REAR RIGHT</li> <li>A-ARMS and A-ARM MOUNTS</li> <li>2 threads minimum</li> </ul>	T 10.2.4 T 10.2.1 T 10.2.2 T 10.2.2		

283	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2			
284	Check if the bolts are tight				
285	TOE LINK AND TOE LINK LENGTH ADJUSTING SYSTEM				
286	• 2 threads minimum	T 10.2.4			
287	Positive locking	T 10.2.1			
288	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2			
289	Check if the bolts are tight				
290	PUSH/PULL RODS AND THEIR LENGTH ADJUSTING SYSTEM				
291	• 2 threads minimum	T 10.2.4			
292	Positive locking	T 10.2.1			
293	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2			
294	Check if the bolts are tight				
295	BRAKE CALIPERS				
296	• 2 threads minimum	T 10.2.4			
297	Positive locking	T 10.2.1			
298	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2			
299	Check if the bolts are tight				
300	BRAKE DISKS				
301	• 2 threads minimum	T 10.2.4			
302	Positive locking	T 10.2.1			
303	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2			
304	Check if the bolts are tight				
305	DIFFERENTIAL MOUNT				
306	• 2 threads minimum	T 10.2.4			
307	Positive locking	T 10.2.1			
308	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2			
309	Check if the bolts are tight				
	WHEEL-MOTOR-GEARBOX ASSEMBLY				
310	• The teams should provide a 2D cross section of the assembly and explain the design. The individual components (motor mount, bearring installation, planetery gear box installation etc.) shall be properly locked and cosist a safe design				
	• Check to the possible extend, if the presented design matches the installation on the car				
	STEERING SYSTEM				
311	• 2 threads minimum	T 10.2.4			
312	Positive locking	T 10.2.1			
313	• No nylon locknuts in areas with heatsource (max 80 °C, minimum 50mm distance fror	T 10.2.2			
314	Check if the bolts are tight				

315	• The teams should provide a 2D cross section of the steering system assembly and explain the design. The individual components, transfer of movement to the wheels, upper and lower steering column bearing mount system should be checked			
316	<ul> <li>STEERING RACK</li> <li>must be mechanically attached to the primary structure.</li> <li>Joints between all components attaching the steering wheel to the steering rack must be mechanical and visible at technical inspection. Bonded joints are allowed in accordance with T 3.2.8.</li> </ul>	T2.8.9		
	BRAKE SYSTEM			
No.	Checkpoint	Rule No	Checkbox	Comments
317	<ul> <li>The brake pedal, including the pedal face, must be fabricated from steel or aluminium or machined from steel, aluminium or titanium.</li> </ul>	T6.1.10		
318	<ul> <li>Repeat check on safety wiring of the braking assembly on each wheel</li> </ul>			
319	• The brake pedal <u>and its mounting</u> must be designed to withstand a force of <b>2 kN</b> without any failure of the brake system <u>or pedal box</u> . This may be tested by pressing the pedal with the maximum force that can be exerted by any official when seated normally The team must provide calculations that all the individual components as mentioned above (brake pedal, brake pedal mounting, pedal box mounting) can withstand a 2 kN force.	T6.1.9		
320	<ul> <li>BRAKE OVER-TRAVEL SWITCH - BOTS</li> <li>The BOTS must be a push-pull, push-rotate or flip type mechanical switch</li> <li>The driver must not be able to reset it.</li> <li>Visually Check if the brake pedal is designed so that the BOTS can be triggered. Teams should provide extra documentation if the method of triggering is unclear.</li> </ul>	T6.2		
	VEHICLE ASSEMBLED AND ON THE	GROUND		
No.	Checkpoint	Rule No	Checkbox	Comments
321	<ul> <li>BRAKE PEDAL TEST</li> <li>Enter the vehicle and kick the brake pedal</li> <li>Also apply force progressively and slowly to feel any abnormal flexing.</li> </ul>	T6.1.9		
322	<ul> <li>STEERING SYSTEM CHECK</li> <li>The steering wheel must directly mechanically actuate the front wheels.</li> <li>Steering actuation must be possible during standstill.</li> <li>While inside the vehicle, quickly steer the wheels to check including your weight</li> </ul>	T2.8.2 T2.8.3		

		<u>gid=0</u>	
MECH 4	Approval (Control box) (DON'T CHANGE MANUALLY)	ONWAAR	