



Grove City College Racing

Baja Butler Bash '25



TECHNICAL INSPECTION SHEET

School: _____

Car # _____

Instructions:

- 1) Inspect your car completely before coming to tech inspection and initial each item under "Team" on the tech sheets.
- 2) This form and inspection sheets shall be presented to the technical inspectors with the vehicle.
- 3) Vehicles are to arrive at technical inspection ready to run, with all documentation, all safety equipment, and all drivers present.

Engine Tech
Passed

INSPECTOR
INITIALS

Govern to 3800 RPM

Inspection

Passed: _____

Section	Rule	Team Cpt. Initials	Tech Inspector	Failed Item(s)	Recheck
Vehicle Eligibility					
1.1	The vehicle must have passed technical inspection in an SAE competition that occurred from 2016-2023 . A complete "Passed Tech" sticker shall be on the vehicle or proof it passed.				
1.2	Teams may use Briggs & Stratton Model 19(2017+), Model 20(2016 and older) engines, or Kohler CH440 PA-D22-077.				
1.3	Teams must provide oral detail of changes since most recent "Passed Tech" application. Includes but isn't limited to repairs made, design changes, or exchanged parts. Changes must comply with SAE Baja rules and not impose a safety risk.				

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Frame					
2.1	The purpose of the roll cage is to maintain a minimum space surrounding the driver. The cage must be designed and fabricated to prevent any failure of the cage's integrity				
2.2	Roll cage members must be made of steel tube.				
2.3	Roll cage must be unmodified from how it passed tech at competition.				
2.4	Any frame modifications (including replacing frame members) must be approved by tech inspectors.				
2.5	Frame may not have any dented or bent tubes.				
2.6	Damaged tubes must be sleeved or replaced using Baja SAE rules B8.3.10 for Tube Joints.				

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Driver Restraint & Equipment					
3.1	Minimum 5-point harness with 2-inch webbing and single metal-to-metal quick release lever buckle. No cam lock systems.				
3.2	All driver restraint systems must meet either SFI Specification 16.5/16.1, or FIA specification 8853/98. Restraints must have a manufacture date of 2015 or newer.				
3.3	All drivers must wear a well-fitting Motocross style helmet with an integrated (one piece composite shell) chin/face guard and a rating of: Snell M2010, SA 2010, British Standards Institution BS 6658-85 types A or A/FR. Goggles must incorporate the use of tear-offs or roll-off systems.				
3.4	Neck Support SFI 3.3 must be worn. Horseshoe collars, Leatt, & HANS devices are not allowed.				
3.5	Separate arm restraints meeting SFI 3.3.				
3.6	Drivers must wear long pants (cotton/Nomex), socks, shoes, gloves and a long sleeves.				
3.7	Non fire-resistant outer shirts or jerseys are prohibited.				
3.8	All driver restraints and safety equipment items must be in good operating condition, without repairs, tears, extreme wear, or damage related to age.				

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Cockpit					
4.1	Fire extinguisher must be mounted on the right side of the driver, easily accessible, with the top below the driver's head, and the top half above the SIM.				
4.2	Two identical extinguishers with a Minimum UL rating of 5 B C; must be equipped with a manufacturer installed dial gauge; gauge must be readable and properly charged. All extinguishers must be labeled with school name and car number. All Kidde fire extinguishers must be dated after 8/15/17.				
4.3	Only foot operated throttle controls are allowed. Wide open throttle stop is required (at the pedal). Hydraulic throttle controls are specifically prohibited.				
4.4	All throttle controls must return to idle stop in the event of failure and ensure full throttle is achievable. Must be passively returned (i.e. no strings attached)				
4.5	All sharp edges which might endanger the driver, crew, or officials must be eliminated, shielded or radiused. All cable ties shall be flush cut and sheet metal edges deburred. No gaps greater than 0.25 in. can exist between the lower frame side member and side impact member.				
4.6	Universal joints in the steering system near the driver's feet shall be shielded or sealed such that the driver may not become entangled in the joint.				

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Electrical					
5.1	Each vehicle must be equipped with two (2) easily actuated kill switches turning off the ignition. The Kill switch must not de-energize the Brake Light(s). (Note: Kill switches do not need to cut power to other electronics.)				
5.2	One switch must be located on the driver's right side of the vehicle, near the top of the roll cage.				
5.3	The vehicle must be equipped with a red brake light that is SAE "S" or "U" rated and must be clearly visible. The brake light must be mounted at a minimum of 1 meter (39.4 in) above the ground..				
5.4	Cars with reverse must have reverse light (SAE "R") of LED design and alarm.				
5.5	Reverse and brake lights shall remain effective at all times. No cut-out or disabling switches are permitted.				

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Brakes					
6.1	Vehicle must have two independent brake circuits and separate or dammed reservoirs.				
6.2	All brake lines must be clear of wheels and tires and not be pulled when steering is turned from lock to lock.				
6.3	The brakes on the driven axle must operate through the final drive axle.				

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Vehicle Identification					
7.1	One primary number must be visible from a front view. The number must be a block style numeral that is clear and easy to read. Vehicles with numbers that are hard to read, missing, damaged or obscured may not be scored and may be black flagged.				
7.2	Primary cutout numbers must be affixed to the upper sides of the frame behind the rear roll hoop. The numbers must be in the elevation plane of the vehicle.				

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Miscellaneous					
8.1	The front hitch point must be strong enough to serve as a vertical lift point for the vehicle. The front hitch point, when not attached to a tow rope, may not present a danger of penetration in the event of a frontal collision. For example, if a hitch plate as described in 7.2 is used, then it must be free to pivot down so as to not present a narrow protrusion.				
8.2	Rear hitch is plate-style. 0.125 to 0.375 inch thick, Hole Diam 1.0 inch to 1.25 inch. 1.0 inch radial clearance. Minimum attachment width, 3.0 inches.				
8.3	A standard Briggs and Stratton gas cap with a built in check valve (Part # B4325GS) is required. Briggs and Stratton fuel cells are allowed but must use the approved internal tank spacer.				
8.4	Removable fuel tanks are allowed but must be firmly mounted using at least two posts. The fuel box must be firmly latched to prevent the tank from shifting during a roll over.				
8.5	Splash shields are required to prevent fuel from accidentally being poured directly on the engine or exhaust while refueling or preparing to refuel the vehicle. Complies with Rule B.6.7 in the 2021 Baja SAE Rules.				

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8.6	All rotating parts such as chains, sprockets, primary CVT pulleys, and belts that rotate at the rate of the drive axle(s) or faster, must be shielded to prevent injury to the driver or bystanders should the component fly apart due to centrifugal force.				
8.7	Gearboxes and transmissions using lubricants such as gear oil, automatic transmission fluid, or similar mineral oils shall be equipped with a vent system that shall minimize loss of fluid by way of a rollover and by thermal expansion. This shall be accomplished either with a closed system expansion chamber or an air trap vent system. Portal hubs are exempt from the requirements of this rule. All components of the vent system shall be within the rollcage of the vehicle. If a closed system with an expansion chamber is used, the expansion chamber shall be properly sized to match the fluid volume and temperature changes of the system being vented				
8.8	The technical inspectors can require any modification at their discretion.				