



Section	Rule	Team	Technical Inspector	Failed Item(s)	Recheck
<b>Vehicle Eligibility</b>					
1.1	The vehicle must have passed technical inspection in an SAE competition that occurred from the last 5 years (2016-2021). A complete "Passed Tech" sticker shall be on the vehicle. Exceptions to this rule are at the discretion of the technical inspectors and will be dealt with on a first come first serve basis.				
1.2	Teams may use either Briggs & Stratton Model 19(2017+) or Model 20(2016 cars) engines. The engine must remain completely stock in all ways. Any attempt to defeat the engine governor to increase engine speed is grounds for immediate disqualification.				
<b>Frame</b>					
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.				
<b>Driver Restraint &amp; Equipment</b>					
3.1	Minimum 5-point harness with single metal-to-metal quick release lever buckle. No cam lock systems. All driver restraint systems shall meet either SFI Specification 16.5/16.1, or FIA specification 8853/98. The material of shoulder and lap belts shall be of Nylon or Dacron polyester and in new or like-new condition, 3.0 inches in width, and free from injurious defects. Anti-submarine belts shall meet the same conditions, but have a minimum nominal width of 1.75 inches. The driver harness and restraints must be in overall good condition with no visible wear, cuts, tears, or fretting.				
3.2	All driver restraint systems must meet either SFI Specification 16.5/16.1, or FIA specification 8853/98.				
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, M2015, SA 2010, SA 2015, M2020, SA 2020, British Standards Institution BS 6658-85 types A or A/FR, ECE R22-05. Goggles must incorporate the use of tear-offs or roll-off systems. Helmets must be in good condition with no removed padding (no deep scratches, cracks, or dents).				
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 cotton/Nomex socks, closed toe shoes, and to protect their hands. Durable, abrasion resistant gloves are required				
3.7	Drivers shall wear a fire resistant shirt or suit rated SFI 3.2, SFI 3.3, SFI 3.4, or FIA 8856-2000 in good condition.				
3.8	Drivers shall wear long pants made of natural materials such as cotton, denim, etc. Drivers may also wear fire resistant pants having an SFI, FIA, NFPA 2112, or other fire resistant rating.				
3.9	Non fire-resistant outer shirts or jerseys are prohibited.				
<b>Cockpit</b>					
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 10/15/18.				
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.				
4.7	Vehicles with 4 wheel drive must proper gaurding and drive shaft hoops.				
<b>Brakes</b>					
5.1	Vehicle must have two independent brake circuits and separate reservoirs.				
5.2	All brake lines must be clear of wheels and tires and not be pulled when steering is turned from lock to lock.				
5.3	The brakes on the driven axle must operate through the final drive axle.				
5.4	Dynamic Brakes Check: Must have a sufficient braking system to lock all four wheels simultaneously.				
<b>Electrical</b>					
6.1	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.)				
6.2	One switch must be located on the driver's right side of the vehicle, near the top of the roll cage.				
6.3	The vehicle must be equipped with a red brake light that is clearly visible. The brake light must be mounted at a minimum of 1 meter (39.4 in) above the ground..				
6.4	Cars with reverse must have reverse light (SAE "R") of LED design and alarm.				
6.5	Reverse and brake lights shall remain effective at all times. No cut-out or disabling switches are permitted.				
<b>Vehicle Identification</b>					
7.1	All vehicles must have a AMB MX transponder. (MyLaps) All vehicles must have an RFID transponder attached to the top roll hoop.				
7.2	Transponder must be mounted on driver's right side forward of the seat and within 610mm (24in) of the ground. The transponder must be oriented properly and have unobstructed line to the ground and must be protected from obstacles.				
7.3	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.				
7.4	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.				
<b>Miscellaneous</b>					
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. The front tow point shall be able to freely pass a gauge measuring 50.8 mm tall, 50.8 mm deep, and 203.2 mm wide (2.0 in. x 2.0 in. x 8.0 in.) behind the front tow point tube				
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), or the fuel cap included with the pyroprotect fuel tank is required. Briggs and Stratton fuel cells are allowed but must use the approved internal tank spacer.				
8.4	The fuel tank must not be removed for refueling purposes.				
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.				



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. Tangential guarding shall have a minimum thickness of 2.54mm (0.100") for aluminum, or 1.27mm (.050") for steel. .				
8.7	Gear boxes may not vent to atmosphere. Gear boxes must be completely sealed to prevent oil from contacting engine exhaust or other sources of ignition. A crimped tube does not count as sealed, must use a threaded plug. Bellows are allowed but must remain within the roll envelope of the vehicle.				
8.8	The technical inspectors can require any modification at their discretion.				
8.9	All fasteners used in the suspension and steering must be in good condition and of grade 5 (metric grade 8.8) or better.				
8.10	All fasteners used to attach the harness to the chasss must be in good condition and of grade 5 (metric grade 8.8) or better.				
8.11	All fasteners used in the brake system must be in good condition and of grade 5 (metric grade 8.8) or better.				
8.12	Adjustable tie rod ends must be constrained by a with a jam nut to prevent loosening.				
8.13	2 full threads must protrude from locknuts.				
8.14	Reserved		N/A	N/A	N/A
					<b>Head Inspector Signoff</b>
					<b>Team Captain Signoff</b>