

Cliffhanger Vehicle Requirements by Class - 2021

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www.cliffhanger4x4.com

Requirement

Super
Tourer

Challenge

Buggy

The class regulations are in point form for simplicity. More details with specifics and explanations can be downloaded from our web site.
If something is not listed it does not mean it is allowed. Please contact me with ideas or concerns - Steve Hobbs 0457002200
Event Director may deem something allowed or not allowed with due regard for the spirit of the class.

		Super Tourer	Challenge	Buggy
Winch	24V to Winch	Allowed	Allowed	Allowed
Winch	Aftermarket winch motor	Open	Open	Open
Winch	Free Spool (not including Neutral)	Allowed	Allowed	Allowed
Winch	In/Out winch switches at front of car disabled at camp	Compulsory	Compulsory	Compulsory
Winch	Internally mounted In/Out switches	Allowed	Allowed	Allowed
Winch	Mid or Rear Mounted Winches	No	Allowed	Allowed
Winch	More than one winch motor operational	No	Allowed	Allowed
Winch	Synthetic winch rope	Compulsory	Compulsory	Compulsory
Winch	Winch drum Bush/Bearing upgrades	Allowed	Allowed	Allowed
Winch	Winch drum modifications	Allowed	Allowed	Allowed
Winch	Winch must be operational before any Winch stage	Compulsory	Compulsory	Compulsory
Winch	Winch Type (Electric, PTO, Hydraulic, etc)	Open	Open	Open
Winch	Winch horns to have tops > 50mm to prevent impaling	Compulsory	Compulsory	Compulsory
Wheels & Tyres	Beadlocks - Internal or External	Allowed	Allowed	Allowed
Wheels & Tyres	Maximum Tye Size	35" or 315/75r16	Open	Open
Wheels & Tyres	Spare Tyre (holding air) at start of every stage	Compulsory	Compulsory	Compulsory
Wheels & Tyres	Tyres to be covered - panels & flares	Compulsory	Compulsory	Open
Wheels & Tyres	Hub Spacers	Allowed	Allowed	Allowed
Suspension	Additional shocks	No	Allowed	Allowed
Suspension	Drop Boxes (Radius Arm to Chassis)	Allowed	Allowed	Allowed
Suspension	Extended Shackles (leaf spring) but consider max lift	Allowed	Allowed	Allowed
Suspension	Suspension Arm upgrades to heavier material	Allowed	Allowed	Allowed
Suspension	Suspension Control Arms lengthened	Open	Open	Open
Suspension	Hydraulic Bump Stops	Allowed	Allowed	Allowed
Suspension	Jointed leaf Shackles	Allowed	Allowed	Allowed
Suspension	Maximum Suspension Lift	Open	Open	Open
Suspension	Panhard Rod Upgrades	Allowed	Allowed	Allowed
Suspension	Rear Control Arm upgrade material	Allowed	Allowed	Allowed
Suspension	Shackle reversal (leaf spring)	Allowed	Allowed	Allowed
Suspension	Shock Absorber types	Open	Open	Open
Suspension	Shock Absorber mounts relocated	No	Allowed	Allowed
Suspension	Shock Tower (Front) spacers	Up to 50mm	Open	Open
Suspension	Suspension Arm Mounts relocated on axle housing or chassis	Allowed	Allowed	Allowed
Suspension	Suspension Arm configuration conversions - 4 link, 5 link, etc	No	Allowed	Allowed
Steering	H/D steering arms	Allowed	Allowed	Allowed
Steering	Hydro Steer	No	Allowed	Allowed
Steering	Rear Wheel Steer	No	No	Allowed
Steering	Steer (Cutting) Brakes	No	Allowed	Allowed
Safety	First Aid Kit	Compulsory	Compulsory	Compulsory
Safety	Harnesses (4 point min & AASA mounting specs)	Compulsory	Compulsory	Compulsory
Safety	Seat belt cutter(s) in reach of both strapped in occupants	Compulsory	Compulsory	Compulsory
Safety	Stages - speed limitations and restrictions	80 kph	Unlimited	Unlimited
Safety	Vehicles mechanically sound & safe prior to stage starts	Compulsory	Compulsory	Compulsory
Safety	Window Nets (70% coverage) - openable from in and out	Compulsory	Compulsory	Compulsory
Roll Cage	All cage work to be meet AASA Offroad Safety Cage Regulations (Link below)	Class 1	Class 3	Class 3
Roll Cage	Head clearance between helmet and all barwork of 50+mm	Compulsory	Compulsory	Compulsory
Roll Cage	Top of B Hoop to be 50+mm taller than top of tallest Helmet	Compulsory	Compulsory	Compulsory
Registration	Drivers to be 18+ and hold or have held a driver license	Compulsory	Compulsory	Compulsory
Registration	Navigators to be 15+ but can only drive if 18+ and road licensed	Compulsory	Compulsory	Compulsory
Registration	Drivers & Navis to both have AASA National Offroad Licences	Compulsory	Compulsory	Compulsory
Registration	All entered cars to have AASA vehicle passport	Compulsory	Compulsory	Compulsory
Registration	Road going condition - handling, lights work, etc	Compulsory	Compulsory	Compulsory
Registration	Unregistered vehicles	Allowed	Allowed	Allowed
Registration	Vehicle - must start event straight & presentable	Compulsory	Compulsory	Compulsory
Recovery	Cable Dampener (1 Kg) draped & attached to winch hook	Compulsory	Compulsory	Compulsory
Recovery	Cable Dampener (1 Kg) for additional straps and metal	Compulsory	Compulsory	Compulsory
Recovery	Cable Dampener (1 Kg) for snatch blocks	Compulsory	Compulsory	Compulsory

Recovery	Ground Anchor	Compulsory	Compulsory	Compulsory
Recovery	Max Trax or ladder traction aids	Allowed	Allowed	Allowed
Recovery	Recovery points front and rear (Red, Orange or Yellow)	Compulsory	Compulsory	Compulsory
Recovery	Shackles - Minimum of x 2 at minimum rating 3.2t Soft Shackles OK	Compulsory	Compulsory	Compulsory
Recovery	Snatch block required	Compulsory	Compulsory	Compulsory
Recovery	Straps - Per Gov't regs all straps & equip to be rated to carry 2-3 times the weight of your vehicle as a minimum - all classes	Compulsory	Compulsory	Compulsory
Recovery	Straps - Snatch Strap required	Compulsory	Compulsory	Compulsory
Recovery	Straps - Tree strap Min 75mm required	Compulsory	Compulsory	Compulsory
Recovery	Straps - Winch Extension (or extension rope) required	Compulsory	Compulsory	Compulsory
Recovery	Tow Balls to be removed (Tow Bar is OK)	No	Open	Open
Navigation	GPS - External arrow or pointing device for driver	1 only	Open	Open
Navigation	GPS - Vehicle mounted GPS units	Compulsory	Compulsory	Compulsory
Navigation	GPS Tracking - Rallysafe Mounting kit installed	Compulsory	Compulsory	Compulsory
Lights	LED Dust Light(s) on rear	Open	Open	Recommended
Lights	Qty/Type of aux lights (must all go out with low beam)	Compulsory	Compulsory	Compulsory
Interior	All vehicle fluids to be shielded (sealed) from interior	Compulsory	Compulsory	Compulsory
Interior	Cargo Barrier (Rigid Material) in full body vehicles	Compulsory	Compulsory	Compulsory
Interior	No loose items inside cabin	Compulsory	Compulsory	Compulsory
Interior	No obtrusive object that could cause harm inside cabin	Allowed	Allowed	Allowed
Interior	Seating changes to race seats with harness holes etc	Allowed	Allowed	Allowed
Interior	Seating changes to those from other cars or recaro etc	Compulsory	Compulsory	Compulsory
Interior	UHF Radio - must work prior to starting every stage			Recommended
Fuel	Fuel tanks sealed away from occupants. Floor or metal firewall divider or sealed metal cover around a tank in ST & CH classes	No	No	No
Fuel	Jerry Cans or fuel containers other than mounted tanks	Allowed	Allowed	Allowed
Fuel	Long Range or Aux Fuel Tank	Allowed	Allowed	Allowed
Fuel	LPG with Diesel	Allowed	Allowed	Allowed
Fuel	LPG with Petrol	No	No	No
Fuel	Nitrogen	Compulsory	Compulsory	Compulsory
Fire	Internal 2 x 0.9 Kg or 1 x 1.5 Kg Extinguishers - metal mounts	Compulsory	Compulsory	Compulsory
Fire	Rear External (or inside back door) 1.5Kg Fire Extinguisher	Compulsory	Compulsory	Compulsory
Exhaust	Exhaust extend beyond back of body or beyond rear axle	Allowed	Allowed	Allowed
Exhaust	Exhaust upgrades - headers, dump pipes and size etc	No	Allowed	Allowed
Engine	Diesel - sequential or multiple turbo chargers added	Allowed	Allowed	Allowed
Engine	Diesel - turbo or superchargers added	Allowed	Allowed	Allowed
Engine	Engine - Chip upgrades or alternative ECU	Allowed	Allowed	Allowed
Engine	Engine - electronic ignition added (remove points)	Allowed	Allowed	Allowed
Engine	Engine - internal improvements	No	Allowed	Allowed
Engine	Engine conversions beyond factory options with later models	Allowed	Allowed	Allowed
Engine	Fuel or Injector Pump Modification or Upgrade	Allowed	Allowed	Allowed
Engine	Intercoolers - front or top mounted	No	Allowed	Allowed
Engine	Petrol - Turbo or Super Chargers added	Allowed	Allowed	Allowed
Engine	Radiators may be upgraded and relocated	Allowed	Allowed	Allowed
Engine	Snorkel	Compulsory	Compulsory	Compulsory
Engine	Water - Minimum 10Ltr water at start of each stage	Allowed	Allowed	Allowed
Electrical	24V Alternator	Compulsory	Compulsory	Compulsory
Electrical	All Internal batteries secure & sealed type or enclosed	Compulsory	Compulsory	Compulsory
Electrical	All External batteries secure. Can be unsealed type	Compulsory	Compulsory	Compulsory
Electrical	Battery and all winch terminals covered by rubber	Open	Open	Open
Electrical	Maximum Qty of Batteries allowed	Allowed	Allowed	Allowed
Driveline	Diff Locks	Allowed	Allowed	Allowed
Driveline	Diff or Transmission Ratio changes	Allowed	Allowed	Allowed
Driveline	Diff or Axle Housing bracing and strengthening	Allowed	Allowed	Allowed
Driveline	Diff or Axle Housing upgrades - other models or vehicles	Allowed	Allowed	Allowed
Driveline	CV /Axle material upgrades	Factory Options	Open	Open
Driveline	Front Hub drive flanges	Compulsory	Compulsory	Compulsory
Driveline	Functioning Hand Brake at start of every stage	No	Allowed	Allowed
Driveline	Portal Axles	Recommended	Recommended	Recommended
Driveline	Devices fitted to prevent front of tail shafts striking ground	Allowed	Allowed	Allowed
Braking	Longer Brake Lines	Allowed	Allowed	Allowed
Braking	Upgrade to larger or better brake concepts	Allowed	Allowed	Allowed
Braking	Upgrade to slotted & drilled rotors & better pad material	Allowed	Allowed	Allowed
Body	If no screen or broken screen removed occupants have to wear a full race suit, full face helmet and gloves - all classes	Open	Open	Open
Body	Bull Bar , Sliders and rear bars	Up to 50mm	Open	Open
Body	Body Lifts	No	Allowed	Allowed
Body	Chassis Mods - extending, re-shaping or replacing with tube	Allowed	Allowed	Allowed
Body	Chassis Mods - chopping surplus overhang off	+/- less than 50mm	Open	Open
Body	Wheel Base modification - shorter or longer	No	Allowed	Allowed
Body	Chassis or body swap with a different model	Compulsory	Compulsory	Compulsory
Body	Dangerous protrusions on barwork prohibited	Open	Open	Open
Body	Side and rear windows to remain glass per factory	Open	Open	Open

Body	Ute Chop	Allowed	Allowed	Allowed
Body	Wheel Arch Trim	Allowed	Allowed	Allowed
Body	Body Panels	Compulsory	Compulsory	Optional
Battery Isolator	Process of shut down of engine and power	Recommended	Recommended	Recommended
Battery Isolator	Rallysafe to always have constant power even with isolator	Compulsory	Compulsory	Compulsory
Apparel	Race Suits - minimum requirement single layer SFI 3.2A/1	Compulsory	Compulsory	Compulsory
Apparel	Race Suit style Balaclavas, Gloves and Boots	Optional	Optional	Optional
Apparel	Sturdy footwear with woolen socks	Compulsory	Compulsory	Compulsory
Apparel	Gloves - Navi and Driver	Optional	Optional	Compulsory
Apparel	Helmet Communications	Allowed	Allowed	Allowed
Apparel	Helmets - Aust Standard AS 1698, SFI, FIA or Snell2015	Compulsory	Compulsory	Compulsory

Warning Some modern engines do not respond well to being shut down by an isolator at high revs. We will not get you to demonstrate this and we warn you to take care when setting up and testing at home. In the case of a roll over we would recommend you stop the engine with the key first if appropriate. Also be very cautious of unfused hi amp power running through holes in firewalls with the possibility of rubbing.

AASA presently stipulate all Off Road Racing vehicles to have the following but we have sought exemptions as follows ...

- Open wheel vehicles (Buggies) needing nerf bars to prevent interlocking wheels with other vehicles.
- All vehicles presently need 5 point harnesses - we are seeking 4 point as a minimum
- All vehicles to have 2 x seat belt cutters - we are seeking just 1 as a minimum but must be reachable by both occupants
- All vehicles to have a passing siren - we have Rallysafe which has "Push to Pass" as well as "Proximity warnings"
- All vehicles to have BLUE and FLASHING or STROBE dust lights x 2 - I am seeking x1 non colour specific and non flashing or strobing
- All vehicles to have number panels (with numbers 3 digits long) - I am saying we don't need this.
- Per the Safety Cage Regulations I am questioning the need for 2.11 B Hoop Reinforcement and 2.14 Twin Side Intrusion

AASA Safety Cage Regulations link

https://aasa.com.au/wp-content/uploads/181024-01-AASA-Safety-Cage-Regulations-V1.1.pdf?fbclid=IwAR0_zri21ed3CsrGmxoKamNqr9eGWE-8481N7oDoEYxRIAXEJiPeMdrEqF4