



# Cliffhanger Vehicle Requirements by Class - 2021

[www.cliffhanger4x4.com](http://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.				
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	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 & CAMS 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 CCDA or CAMS Offroad specifications - removable sections can be bolt in with plates to avoid obtrusion.			
Roll Cage	A Pillar Vertical Supports required if A pillar slopes more than CAMS gradient angle li	n/a	Compulsory	Compulsory
Roll Cage	Roll Cage	4 point minimum	6 point minimum	6 point minimum
Roll Cage	Either a sill rail or side intrusion bar (preferred to have both)	n/a	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+ (per driver)	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 x2 at minimum rating 3.2t	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			
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)	Compulsory	Compulsory	Compulsory
Navigation	GPS - External arrow or pointing device for driver	No	Open	Open
Navigation	GPS - Vehicle mounted GPS units	1 only	Open	Open
Navigation	GPS Tracking - Rallysafe Mounting kit installed	Compulsory	Compulsory	Compulsory
Lights	Flashing LED or strobe Light(s) on rear	Recommended	Recommended	Recommended
Lights	Qty/Type of aux lights (must all go out with low beam)	Open	Open	Recommended
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	Compulsory	Compulsory	Compulsory
Interior	Seating changes to race seats with harness holes etc	Allowed	Allowed	Allowed
Interior	Seating changes to those from other cars or recaro etc	Allowed	Allowed	Allowed
Interior	UHF Radio - must work prior to starting every stage	Compulsory	Compulsory	Compulsory
Fuel	All fuel tanks sealed away from occupants. A Floor or metal firewall divider or sealed metal cover around a tank in ST & CH classes			Recommended
Fuel	Jerry Cans or fuel containers other than mounted tanks	No	No	No
Fuel	Long Range or Aux Fuel Tank	Allowed	Allowed	Allowed
Fuel	LPG with Diesel	Allowed	Allowed	Allowed
Fuel	LPG with Petrol	Allowed	Allowed	Allowed
Fuel	Nitrogen	No	No	No
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	Compulsory	Compulsory	Compulsory
Exhaust	Exhaust upgrades - headers, dump pipes and size etc	Allowed	Allowed	Allowed
Engine	Diesel - sequential or multiple turbo chargers added	No	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	Allowed	Allowed	Allowed
Engine	Engine conversions beyond factory options with later models	No	Allowed	Allowed
Engine	Fuel or Injector Pump Modification or Upgrade	Allowed	Allowed	Allowed
Engine	Intercoolers - front or top mounted	Allowed	Allowed	Allowed
Engine	Petrol - Turbo or Super Chargers added	Allowed	Allowed	Allowed
Engine	Radiators may be upgraded and relocated	Allowed	Allowed	Allowed
Engine	Snorkel	Allowed	Allowed	Allowed
Engine	Water - Minimum 10Ltr water at start of each stage	Compulsory	Compulsory	Compulsory
Electrical	24V Alternator	Allowed	Allowed	Allowed
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	Compulsory	Compulsory	Compulsory
Electrical	Maximum Qty of Batteries allowed	Open	Open	Open
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	Allowed	Allowed	Allowed
Driveline	Front Hub drive flanges	Factory Options	Open	Open
Driveline	Functioning Hand Brake at start of every stage	Compulsory	Compulsory	Compulsory
Driveline	Portal Axles	No	Allowed	Allowed
Chassis	Trim surplus chassis rails to prevent overhang	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			
Body	Bull Bar , Sliders and rear bars	Open	Open	Open
Body	Body Lifts	Up to 50mm	Open	Open
Body	Chassis Mods - extending, re-shaping or replacing with tube	Allowed	Allowed	Allowed
Body	Chassis Mods - chopping surplus overhang off	Allowed	Allowed	Allowed
Body	Wheel Base modification - shorter or longer	+/- less than 50mm	Open	Open
Body	Chassis or body swap with a different model	No	Allowed	Allowed
Body	Dangerous protrusions on barwork prohibited	Compulsory	Compulsory	Compulsory
Body	Rear Guard Chop	Allowed	Allowed	Allowed
Body	Side and rear windows to remain glass per factory	Open	Open	Open
Body	Swap Ute Tub for a Tray. Design of tray is open.	Allowed	Allowed	Allowed
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 within reach of navi & driver	Optional	Optional	Optional
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