

EVENT TECHNICAL REGULATIONS - 2019

“RED Winches” are organizing and hold the land permit and insurance to do so. All competitors must be aware when signing on to any of our events that they are judged by the cross country general regulations (MSA blue book) and supplementary or exceptions as written by the RED Winches (RW) .



Tiverton
EX16 7DX
Latitude: 50.941708,
Longitude: -3.378973

July 2019
Day 1: Saturday 6th
Day 2: Sunday 7th

REDWINCHES
STAMPEDE

CLASS 1:
Class with no restrictions on traction aids or winches but must be in line with MSA technical rules for point to point / challenge vehicles. Measured tyre sizes 36" and above, if your tyre size measures 35.5" you will be rounded up into Class 1. Portals allowed, any tyre size as long as they are 36" or above, 4 Wheel Steer allowed. No ground anchor allowed. Single Seat vehicles allowed. Hydro steer allowed

CLASS 2:
Vehicle based chassis (not tubular or custom frame), lockers allow on both axes, maximum number of winches fitted to the vehicle will be two. Measured tyre sizes 35" and below, if your tyre size measures 35.4" you will be rounded down into Class 2. No Portals allowed, No 4 wheel steer allowed, Ground anchor allowed, Single seat vehicles not allowed. Hydro steer not allowed.

WINCHES R

Event Timetable (all timings are approximate but please ensure you are ready at the times specified)

- Friday 5th July 2019
 - 1200 Site generally open for competitor & marshal arrival (Vehicles/trailers can be left on site from this point)
- Friday 5th July 2019
 - 1300 – 2100 Competitor Signing On
- Saturday 6 April 2019
 - 0700 – 0800 Drivers Signing On (If not done so already)
 - 0830 Drivers Brief
 - 0900 Event start
 - 1200 – 1300 Lunch Period where hot cooked food can be purchased
 - 1800 Day 1 finish
- Sunday 7 April 2019
 - 0830 Drivers Brief
 - 0900 Day 2 start
 - 1200 – 1300 Lunch Period where hot cooked food can be purchased
 - 1500 Event finish
 - 1600 Prize giving
- Monday 8 April 2019
 - 1000 Site closes (All vehicles/trailers must be off site by this time)

SCRUTINEERING

Driver and co-driver must present their vehicle in a clean condition to the scrutineer for inspection prior to start of the event at the times published for that event.

Co-drivers under the age of 18 must be accompanied by a legal guardian or parent or have written permission from them to compete. All equipment which will be used must be presented at Scrutineering for inspection.

Any vehicle that cannot present the correct equipment for scrutineering will either not be allowed to compete or compete under a warning with penalty points of **-250** being given for every item that does not comply or is missing at the point of scrutineering. For example, medical kit, fire extinguisher, windscreen rule... etc, etc.. also included, see recovery equipment and safety equipment sections below.

SCRUTINEERS RESPONSIBILITY

Scrutineers are to attend a mandatory briefing to be held each day of the event prior to scrutineering or the event for that day taking place.

They are to sign the attendance, rules and regs and briefing sheets on completion of the scrutineering briefing.

Scrutineers are responsible for checking the correct safety and Recovery specific equipment, as previously detailed, is carried by all competing vehicles.

VEHICLE IDENTIFICATION

All vehicles must have a competitor number, It is the competitor's responsibility to supply their number, Specific identification stickers may be supplied by the organizers at different times during the event but not at all events.

SCORING

Provisional results for all events will be published on site during the event and at the end.

RECOVERY EQUIPMENT

All vehicles must have the following minimum recovery equipment (and compatible with all winches fitted)

1 x Long (3m+) recovery strap / rope. (RATED AT 4 TONNES MIN)

2 x Tree protector strops. (Rated to 4 Tonnes as a minimum and be CE marked with working limit)

1 x Snatch block or snatch ring

2 x Stamped and rated shackles (soft or hard) (safe working limit of 4 tons or above).

2 x Pairs of appropriate gloves (not woolen).

1 x Winch blanket (approx. 1kg). (1 per Truck)

1 x Suitable correctly fitted / secured recovery points to the front and rear of the vehicles that are rated at twice the vehicle weight.

All winches must comply with the following regulations:

If fitted the winch must be securely attached to the vehicle using a minimum of grade 8.8UTS fittings.

If an electrical winch is fitted, it must be fitted with a power/battery isolator switch. The main vehicle isolating switch is acceptable as long as it kills the power on all winches when switched off and is identified.

The rope must be in good condition, no knots, and must be rated in excess of the maximum rating of the winch.

The synthetic rope must be spliced and not knotted and have a working gate on the hook which must have a ferule.

All brake systems must fail safe in the event of a total loss of power on the vehicle.

Steel rope is NOT permitted, under any circumstances

SAFETY EQUIPMENT (All vehicles must carry)

A single powder based fire extinguisher must be carried in the cab of competing vehicles.

The minimum requirement is as follows:

AFFF minimum capacity 1.75 liters or Zero 2000 minimum capacity 2.25 liters.

The vehicle must be equipped with an effective horn or other audible warning device emitting a continuous tone.

A first aid kit.

An instrument that is capable of cutting vehicles winch rope which could be used in case of emergencies to release the rope from entanglement. Some suggested instruments are; wire cutters, hacksaw, pruning saw, blade with a serrated edge. This item may be checked at Scrutineering, It should be stored in the cab of the vehicle within easy access.

All vehicles must carry a small spill kit.

No equipment is to be carried on the front bumper or front bodywork.

Regulations as detailed above are the MINIMUM requirement.

BODY/CHASSIS

The vehicle must be fitted with solid bodywork including the driver (and passenger) compartments, they must be isolated from the engine, wet batteries, gearbox, hydraulic reservoirs, transmission, shafts, brakes, road wheels, their operating linkages and attachments, oil tanks, radiator, water header tanks and catch tanks. Mesh barriers or loose panels with gaps are not accepted.

There must be a protective solid bulkhead of non-inflammable material between the engine and the Driver / passenger compartment capable of preventing the passage of fluid or flame. Gaps must be sealed with GRP or with putty that completely closes the gaps at all times. Magnesium is prohibited for bulkheads.

The vehicle must have a complete solid floor of adequate strength and rigidity supported within the driver/passenger compartment.

The vehicle must be equipped and be self supporting on all wheels and present no sharp edges. If running mudguards they must cover the complete wheel (flange + rim + Tyre) around an arc of 120 degrees. This is to be achieved with continuous surface of rigid material within which ventilation louvers may be fitted. The Tyre must not be visible when viewed from above. The mudguard must not extend forward of the axle line or extend downward behind the wheel.

The vehicle must be fitted with doors or bodywork giving side protection to the driver and passenger.

If the vehicle is fitted with driver/passenger doors, hatchback doors, sliding doors, opening boots or tailgates, these must be secured in the closed position during competition.

Tailgates may be removed.

The load carrying area must be separated from the passenger compartment by an adequate solid barrier. There must be an effective means of ventilation for closed cars. All recovery equipment must be stored securely in or on the vehicle and not be able to move freely while the vehicle is competing or moving.

ENGINES

Engines must be equipped with a positive method of throttle linkage closing in the event of linkage failure by means of an additional external spring to each throttle spindle.

No vehicle may draw induction air from within the driver and passenger compartment. Air intakes must be either forward of the front bulkhead/windscreen, on the side of the vehicle or piped through to the rear of the vehicle to draw outside air from behind the rear bulkhead. The under bonnet air pipe is to be of non-flammable or flame retardant and fuel resistant material and must be securely located.

SUSPENSION

All vehicle must be fitted with sprung suspension between the wheels and the chassis unless originally manufactured otherwise. Suspension movement must be controlled to avoid fouling of wheels and tyres on chassis or bodywork.

BRAKES

The vehicle must be fitted with brakes that are operative and capable of stopping and holding the vehicle as required. Separate mechanical Handbrake is not required but recommended. Line lockers acceptable. But all vehicle without a handbrake must be left in gear with engine off or in park position when stationary anywhere on the site except when competing on the course or in a section.

ELECTRICAL SYSTEMS

Any wet batteries in the driver/passenger compartment must be enclosed in a securely located leak-proof container. Batteries must be securely fastened and terminals protected from short circuiting.

The vehicle must be fitted with a circuit breaker which isolates the battery from all electrical circuits and cuts the engine at the same time and is easily operable by the driver whilst correctly seated.

If the vehicle is equipped with an electric winch it should be fitted with a second circuit breaker which isolates the winch from all other electrical circuits and is easily operable from inside or outside the vehicle. In the event of a winch relay failure a marshal should be easily be able to see it and turn it off. So it must be identified.

All electrical cut out switches must be clearly marked and be in an accessible position. It is recommended that cut out switches are easily distinguishable from other switches in use.

COOLING

Vehicles should have any fluid lines or tubes or internally/externally metal braided hydraulic pressure hoses carrying coolants through the driver and passenger compartment enclosed in a solid metal cover and insulated and isolated to prevent the occupants of the vehicle touching the hot surfaces. Such lines or tubes or coverings must be painted red. All open radiators, expansion bottles whether front or rear mounted, must be covered in such a manner that nobody can burn themselves on the hot open/unprotected areas of the radiator. All hoses and expansion bottles are to be covered / shielded to prevent hot water reaching driver / passenger in the event of damage to radiator, hoses or expansion bottles.

EXHAUST SYSTEMS

The exhaust system must be isolated from the driver/passenger compartment.

Vehicles may be fitted with a front mounted exhaust; Hot surfaces that can be easily touched from passing people must be covered or shielded with a suitable material. Vehicles must have no part of the exhaust system protruding laterally beyond a plane through the outer track of the front and rear wheels, or to the rear of the bodywork more than 150 mm. If all enveloping body is fitted, have supplementary protection for exhaust systems that protrude outside the bodywork.

FUEL SYSTEMS

Vehicles must have any fuel lines passing through the driver / passenger compartment protected and if non-metallic or pressure lines, enclosed in internally/externally metal braided hydraulic pressure hose.

If fitted with fuel fillers in the boot, or under closure, have collector/ spill trays incorporated to enable spillage to drain outside the vehicle.

Vehicles must use normally available pump fuel. The use of fuel additives, octane boosters, or AVGAS (aviation fuel) is prohibited.

If using LPG, conform to the Construction and Use Regulations, and also the LPG Industry Technical Association Code of Practice No.11. and have a 75mm diameter 'day-glow' orange disc affixed immediately adjacent to the competition number on both sides.

Vehicles must have tank fillers and caps which do not protrude beyond the bodywork, nor are situated within the driver/passenger compartment. The caps must have an efficient locking action to reduce the risk of accidental opening during an accident and ensure closing after refueling. Air vents must be at least 250mm to the rear of the cockpit. All fuel caps should be of the sealed type to prevent spillage fuel tank breathers must have a non-return valve fitted.

It is strongly recommended that the fuel tank is covered with an outer steel or aluminum tank cover which acts as a second line of defense in the event of a roll over.

Vehicles which have a modified fuel system which vents straight to the atmosphere are required to have a one-way valve that is manufactured for use in fuel systems fitted in the breather pipe to stop fuel spillage.

All vehicles must carry a small spill kit.

OIL COOLING SYSTEMS

Any oil lines passing through the driver/passenger compartment must be protected and, if non-metallic, be formed of internally or externally braided hydraulic pressure hose.

Oil coolers, filters and cooling water expansion tanks must not be fitted in a position where, if burst, the hot fluid can come into contact with the occupants of the vehicle.

STEERING

Vehicles must have a full circumference full diameter steering wheel unless originally manufactured otherwise.

Vehicles must have steering movement controlled to avoid fouling of wheels and tyres on chassis or bodywork.

Hydro Steer Is Permitted unless otherwise stated in the Supplementary Regulations.

TRANSMISSION

Vehicles must have the transmission outside the driver and passenger compartment, beneath the floor or secured in casings or covering of solid material. Vehicles must be equipped with an operable reverse gear.

Vehicles with automatic transmissions shall have a starter inhibiting switch allowing it to start in park and/or neutral only.

WINDSCREENS AND SIDE SCREENS

Windscreens if used must be of laminated glass or plastic of a minimum thickness of 4mm. Plastic side screens, where fitted, should also have a minimum thickness of 4mm unless fitted otherwise by the original vehicle manufacturer. If a windscreen is damaged to the extent that a hole is made the screen is to be removed at the earliest opportunity prior to continuing with the event.

Where a windscreen and/or rear window is not fitted a full width and height wire mesh is mandatory of a 2in-5cm maximum square aperture and minimum 10g weld- mesh and must be securely fitted.

SEATING

Vehicles must have normal adequate seats within the driver/passenger compartment. The seat must be rigidly located within the compartment and must not tilt unless it is a production seat fitted with a suitable locking mechanism preventing independent operation, it must retain the driver within the vehicle. The seat cushion (i.e. the part on which the occupant sits) when uncompressed, must not be less than 150mm below the top edge of the adjacent body side or door. Other seats fitted must similarly comply. The vehicle occupant(s) seated in their normal position, wearing normal equipment, with seat belts fastened and the steering wheel in place, must be able to evacuate the cockpit in a maximum of 7 seconds. All seat safety belts must be complete units sourced from a recognized manufacturer and fitted in accordance with the manufacturer's instructions and MSA recommendations, Seat belts must be worn and be correctly adjusted at all times during events.

A minimum of a Four Point harness (Two shoulder straps and one lap strap), with four anchorage points on the chassis/body shell or roll over bar of the vehicle. One either side and two to the rear of the seat.

WHEELS AND TYRES

The vehicle shall have not less than four road wheels and tyres (excluding the spare) which are fitted with tyres that are compatible with the wheels and acceptable to the organizer.

The use of tyre chains is prohibited.

Vehicles must not be fitted with any wheel spacers exceeding 32mm in thickness.

Vehicles must not be fitted with duplicated driving wheels unless originally manufactured otherwise a spare wheel is not a mandatory requirement but, if carried, must be securely fastened.

All tyres must comply with the minimum DOT requirements on depth of tread.

ROLL OVER PROTECTION

All vehicles must be fitted with rollover protection, roll cage, fitted by a qualified company or engineer and conform to the MSA regulations / design. Only using a manufacturer's correctly fitted hardtop or truck-cab is not acceptable or allowed.

General Considerations

The roll over bar/cage must be designed to withstand compression forces resulting from the weight of the vehicle coming down on the roll bar/cage structure, and to take fore and aft loads resulting from the vehicle skidding along the ground on its roll structure. This cage saves your life, do not underestimate its importance or value.

CRASH HELMETS

Crash helmets are mandatory in the moving vehicle AT ALL TIMES! ! The helmet must conform to the current MSA regulations listed in the 'Blue Book'.

CAMERAS

MSA Blue Book 5.21.5. The mounting of any camera must be specifically approved by the Chief Scrutineer.

There are two classes for our Red Winch Events:

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Note:

Rules and event regulations can be subject to change at the discretion of the organizing team.

