



**KALGOORLIE, WA**  
**14 APRIL 2018**

## **VEHICLE SPECIFICATIONS**





# KALGOORLIE INTERNATIONAL SPEEDWAY DEMOLITION DERBY - 14 APRIL 2018 VEHICLE SPECIFICATIONS

## PLEASE READ THE FOLLOWING RULES CAREFULLY ALL RULES WILL BE STRICTLY ENFORCED.

### PLEASE NOTE: ALL VEHICLES MUST BE IN STANDARD CONDITION EXCEPT FOR MODIFICATIONS ALLOWED IN THESE SPECIFICATIONS

Demolition Derbies are intended to provide safe competition and enjoyment for the participants and spectacular entertainment for spectators. At all times the Steward's decision shall be final and no protests or appeals will be considered by Promoter. The Promoter has the right to refuse the entry of any driver. ALL competitors must hold a valid Speedway Australia licence or one day licence to compete in any extraneous event.

#### VEHICLE REQUIREMENTS

Vehicles can be any 4 cylinder Sedan, Station Wagon, Panel Van or Utility . Please note, however, that no full chassis vehicles are permitted ie vehicle where the chassis can be unbolted or separated from the body for the full length of the vehicle. Only original manufacturers body panels and equipment to be used in its entirety.

- Vehicle must use original type manufacture engine and transmission mounted in original position
- Engine and gearbox mounts may be welded and/or restraint chains or cables are permitted but original rubber mounts must be retained
- Engine fan may be removed if desired.
- Type and means of gear shift is optional but hole must be less than 200mm x 200mm if fitting floor shift.
- No extra weights or reinforcing of suspension parts
- No relieving of guards or panels to allow greater wheel clearance
- All holes in the firewall and front floor are to be covered
- Bumpers must be for type and model of vehicle being used and all over-riders must be removed
- Grills must not be replaced with any material considered to be stronger than original.
- Tow bars and bull bars to be removed
- All glass must be removed
- All interior linings, trims, interior/exterior door handles, ornaments chrome strips and lights to be remove
- Windscreen mesh to be securely fitted using 75mm x 75mm x 5mm mesh (min).
- All doors and tailgate to be chained shut around door pillars using 6mm chain and bolted using 10mm bolts. Chain to go twice around door pillars and be bolted. Both front doors to be securely chained (6mm), bolted or welded shut.
- If vehicle has tailgate it must be chained closed with 6mm chain and bolted using 10mm bolts.
- Car numbers to be 600mm high x 400mm wide and 100mm thick clearly written on each side of car behind front door.
- No obscene or offensive sign writing on cars.
- Driver's side door to be painted in contrasting colour with large white cross
- Drivers Name to be printed clearly on the roof above the driver
- Vehicles may be fitted with a 300mm x 300mm white flag attached to 6mm wooden dowel so that bottom of flag is no lower than 300mm above roof line when dowel is attached with tape to right hand door pillar. Driver is to break flag off as soon as their vehicle is immobilised indicating that the vehicle is no longer in the event and is no longer a target.



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#### SEATS AND SEAT BELTS

- A seat incorporating a headrest must be used.
- Seat back to be hard against and fixed to a horizontal brace attached to roll cage.
- Road type regulation lap and shoulder harness securely fixed is a minimum.
- Belts to be in good condition and repair.
- Competition 75mm 4, 5 or 6 point harnesses are permitted and recommended. If race harness is used, it must be mounted to roll cage.

#### FUEL SYSTEM

- Original fuel tank must be removed.
- Jerry can or boat type fuel tank minimum permitted, maximum capacity 20 litres
- Pick up and breather pipes to enter top of tank.
- No electric fuel pumps unless original manufacturer equipment
- Fuel tank to be securely mounted to bar work with steel straps or similar in back seat area.
- Fuel line to have flexible section close to tank
- Tap to be fitted in line within reach of driver and clearly marked in a contrasting colour – FUEL ON/OFF
- A non-spill vent is to extend through floor well clear of exhaust pipe. Fuel tank must otherwise be sealed.

#### OTHER MECHANICAL REQUIREMENTS

- Radiator (and transmission cooler if original) must be used and flowing and fixed to original mounting points.
- Additional radiators, transmission cooler or holding tanks not permitted
- Brakes, steering and exhaust to be roadworthy. All cars to be below 95 DBA.
- Tail shaft loops to be fitted within 150mm of universal joints
- Locked differentials are optional.

#### ELECTRICAL SYSTEM

- Battery to be mounted to bar work in left side of car. MUST be securely fitted in box and sealed with rubber.
- Two secured batteries may be used.
- Effective kill switch to be mounted in centre cowl panel & marked in contrasting colours KILL SWITCH.
- All wires to be suitably grommited where they pass through firewall.
- Wires not to be attached to fuel lines.

#### WHEELS AND TYRES

- No racing rims or racing tyres permitted

#### ROLL CAGE AND CONSTRUCTION REQUIREMENTS

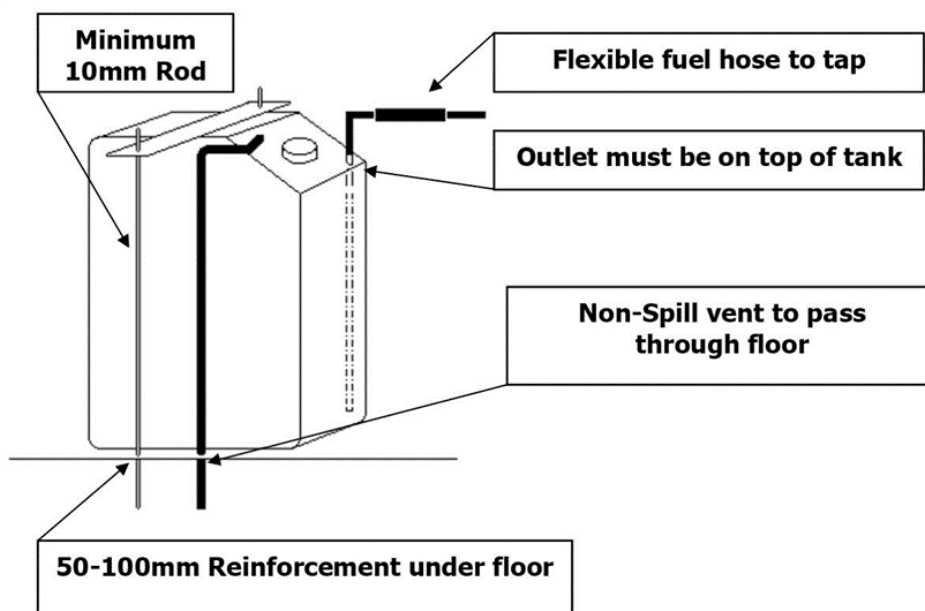
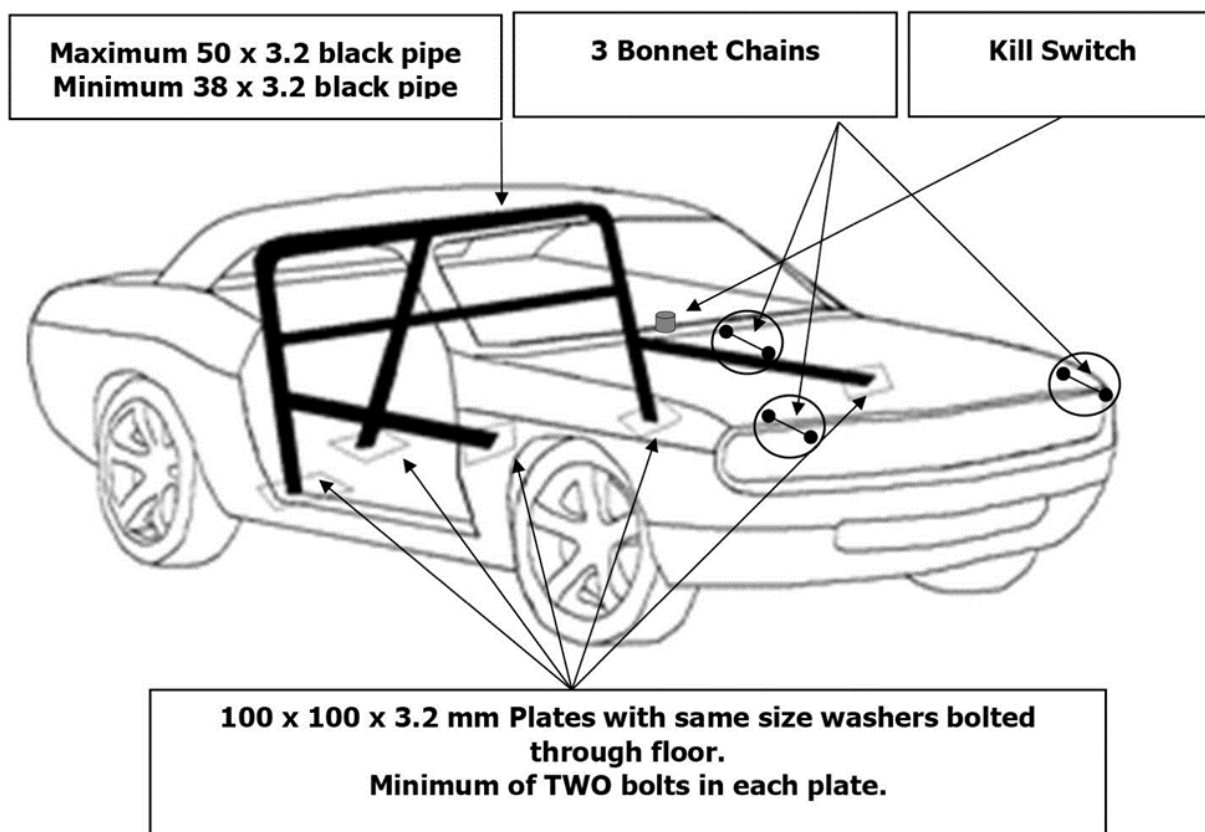
*(Also see diagram next page)*

- All bar work to be minimum 38mm x 3.2mm black steel pipe – max 50mm x 3.2mm steel pipe.
- Bar work to be in cabin area only.
- All plates and washers to be 100mm x 100mm x 3.2mm minimum thickness.
- All bolts to be 12mm minimum.
- Main bar to be one piece and mandrel bent only not heat formed. No galvanized pipe permitted. Bar to be placed as close as possible to the rear of the driver's seat.
- The bars of the roll cage to be mounted securely and bolted to the floor pan using 12mm bolts minimum and 100mm x 100mm x 3.2 mm plates
- All joints to be professionally welded
- Main roll bar to have horizontal brace bar at approx. just below shoulder height.

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## ROLL CAGE AND CONSTRUCTION REQUIREMENTS *Continues ..*

- One rearward brace bar only, from top centre of main hoop to a plate bolted in rear of car.
- Side intrusion bars on both side to be bolted to wheel well and extend back to main roll bar at centre door height.
- Drivers side only to have 6mm steel plate one piece attached to both front door pillars and the side intrusion bar, using 12mm U bolts (No drilling of bar work) and or angle iron brackets and 12 mm bolts or welded. Plate must extend from bottom of door to window opening.
- Padding to be placed on all bar work and protrusions to protect driver.





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## DEMO DERBY GENERAL INFORMATION

### FOREWORD

- Open to all competitors, male and female, over the age of 16 years, with a full Speedway Australia or Speedway Australia one day license (for One day License <https://licences.speedwayaustralia.net.au/nasr/applyDayLicence/>)
- The event is intended to provide safe competition and enjoyment for the participants and spectacular entertainment for the patrons, as well as advertising exposure for sponsored cars in this well patronized event.
- All drivers must comply to the Club rules where they are competing.
- Your car must make solid contact with another mobile vehicle at least every two minutes after green light. The last car MOBILE may be deemed the winner, PROVIDED that in the opinion of the Stewards and Judges, all rules have been observed. The Stewards and Judges decision is final and no correspondence will be entered into.
- Any vehicle which is stationary for any reason for more than two minutes in subject to disqualification, except if the event is stopped temporarily for safety reasons. If given the black flag, a driver must immediately cease driving.
- Only the track must be used, not the infield. The track may be watered before the start of event. Waivers MUST be signed and drivers must be covered by insurance.

### MINIMUM AGE

- No person under the age of 16 years shall ride in, drive, or be in charge, of any motor vehicle during the conduct of the event.

### DRUGS AND ALCOHOL

- Drivers may be required to submit to an alcohol and/or drug test before the event and pit crew may also be tested at random. Drivers must be able to return a result of 0.0 or a negative reading.
- No drinking of alcohol in the pits until the completion of the meeting.

### SALVAGE

- It is the responsibility of each entrant to remove their vehicle from the Speedway premises within 24 hours of the event. Any vehicles left on Speedway property overnight are at the owners risk. Cars not removed within 24 hours will incur a removal fee to the Owner/Entrant of the car.

### CLOTHING

- Overalls must be non-flammable and in good, clean condition, preferably of wool or better and are mandatory. POLYESTER OR NYLON CLOTHING NOT TO BE WORN. Protection from neck to ankle to wrist. Covered footwear. Gloves must be worn and must be of wool or better.

### HELMETS

- Helmets to be current Australian standards (1988) MINIMUM and be in good condition and correct size for driver. Helmets must NOT be removed until entire event is complete. Helmets must be presented at vehicle inspection.
- EYE PROTECTION MUST BE WORN. Lenses of spectacles/sunglasses, if worn, and/or helmet visor to be of nonsplinterable material.

### SAFETY AND SIGNALS

- Race control lights must be observed. Flags and signals will be explained at drivers' briefing. Any driver failing to obey these signals or a direction given by an official will be disqualified. If given the black flag, driver must IMMEDIATELY cease taking part in the event. Any driver who deliberately drives into the driver's side door of another car or the roof of an overturned car will be disqualified immediately. RED LIGHT means immediate stop - do not move at all.



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## INTERPRETATION OF RULES

- All cases of dispute as to the correct interpretation of these rules or changes for safety shall be decided by the Technical Machine Examiner, Steward and/or Promoter, whose decision is final. No prizes will be given to anyone failing to comply with the rules. Cars will be disqualified without notice if rules are not adhered to.

## PROCEDURE

- Competition is limited to the track proper. Driving off the track and using the centre field is subject to disqualification. A rolling start is required and cars may traverse the track in either direction AFTER THE GREEN LIGHT, and in a forward or reverse mode.

## RACING RULES

- All cars must be at the track at the allocated time and date to be scrutineered. Any cars not passed will have the opportunity to correct any problems and be re-inspected prior to event. Cars that are not in pit area by specified time will not be eligible to compete until scrutineering fee is paid.
- Crash helmets and seat belts must be worn at all times during the event until the event has been completed
- It is recommended the track is watered before the Demolition Derby commences to reduce dust and speed.
- The event is started when RED light is turned Green or Green flag is dropped. The Officials may at any time change the lights back to RED in the event of an accident or fire. All action must cease immediately when the Red light is on or RED flag waved.
- Any car immobilised for longer than two (2) minutes will be deemed to be out of the event. Driver must remain strapped into car until told by Official to vacate car.
- If given a black flag a driver must immediately cease driving.
- If vehicle has tail gate which opens or is lost during the event that vehicle is disqualified immediately.
- Any car deemed by Officials not to be actively participating in the demolition of fellow competitors and making solid contact with another MOBILE vehicle at least every two minutes will be automatically disqualified.
- Drivers who drive outside of designated competition area will be disqualified.
- Any competitor deemed to have hit on purpose a fellow competitor driver's door or driven into roof of an over turned car will be instantly disqualified.
- It is recommended that First and reverse gears are to be used only.
- Last car still MOBILE as judged by Officials will be deemed to be the winner provided that all rules have been observed.
- The winning car will be re-inspected after the event before official result is given.
- Decisions of Officials are final and no protest will be considered.

## **NO ALCOHOL IS TO BE CONSUMED FOR AT LEAST 12 HOURS PRIOR TO THE EVENT.**

*The Promoter reserves the right to abandon the event if they consider that insufficient entries have been received by the closing date, or postpone the event to a later date if they should deem this necessary. The Promoter also reserves the right to accept or reject any entry, or to alter the event to suit entries.*

***These Rules and Regulations have been set by***



***Download Speedway Australia Rule Book***

***<http://www.speedwayaustralia.org/media.ashx/speedway-australia-rulebook-v2.pdf>***

