

2023 Kirkistown Mini Cup

Technical Regulations Updated 21/11/22

1.1 INTRODUCTION:

The following Technical Regulations are set out in accordance with the Motorsport UK specified format and it should be clearly understood that if the following texts do not clearly specify that you can do it, you should work on the principle that you cannot.

1.2 GENERAL DESCRIPTION:

The Kirkistown Mini class is for competitors participating in R50 mini cars.

Eligible cars are, 2 door hatch-back, built between September 2000 and August 2006, with a standard 1.6 engine,

Only standard original chassis and parts and components for these Mini R50 models are allowed, i.e.: You can't fit parts from another model of Mini (see 1.4 below)

1.3 SAFETY REQUIREMENTS:

All cars must comply with the Technical Regulations listed in the current Motorsport UK yearbook section J.5 and K and with the minimum safety requirements listed in Section Q.

Extinguishers must comply with Motorsport UK regulation K3.1.2a (plumbed in).

Seat belts must be to FIA standards in accordance with K.2.1.2 (3" 4 point), K.2.1.3 (5 point) or K.2.1.4 (6 point)

1.3.1: Full front and rear roll cage must be fitted to the car complying with Motorsport UK regulation

K1 with side impact bars and spreader plates welded to the floor. Roll cage must be of a bolt in type.

1.3.2: Vehicles must be equipped with an externally operated circuit breaker having positive ON/OFF positions clearly marked(K8).

1.3.3: The internal ignition cut-off must be operable when the driver is normally seated irrespective of whether a safety harness is worn or not.

1.3.4: It is not permitted to have any ignition components, coils, chokes or black boxes located in the cockpit area in racing cars.

1.4 GENERAL TECHNICAL REQUIREMENTS & EXCEPTIONS:

All cars must comply with the requirements of Sections J5, K and Q19 of the current Motorsport UK Yearbook.

All vehicles must be of sound construction and mechanical condition and be well maintained.

1.4.1: The word 'Standard' is as defined in Section B of the current Motorsport UK Yearbook.

The word 'standard' used within these technical regulations as a description of components is to be interpreted as: - 'the specified component from the manufacturers parts list for the model/engine shown on the entry form or registration form.

It is not permitted to use components from the early model on the late model and vice versa where there is any difference to the specification or fitment of these components.

This includes engines. No modifications are permitted beyond the repair or adjustment processes specified by the manufacturer.

Checking will be by comparison to spare parts supplied by the manufacturer's official agent or by any other means.

1.5 CHASSIS

Chassis must be as per manufacturers' dimensions and design, including the wheelbase dimensions and track

1.6 Bodywork

1.6.1: Boot and bonnet catches should be removed, and bonnet pins and bootpins/springs added.

1.6.2: Front and rear door cards are to be removed along with head-cloth, carpets and rear seats.

1.6.3: A plumbed in fire extinguisher should be mounted in the passenger foot-well.

1.6.4: All airbags to be removed. Steering wheel may be changed. The steering lock is to be disabled.

1.6.5: Driver's seat should be correctly located and securely anchored to allow no movement in squab or backrest. As the standard seat can move it is not permitted.

Front passenger seat to be removed.

Sunroof if fitted, to be removed and sheeted in.

1.6.6: No modification or additions permitted to body shell to limit body roll.

1.6.7: No aftermarket anti rollbars are permitted

1.6.8: It is not permitted to change the silhouette of the car.

1.6.9: The ground clearance is measured as the distance between the ground and the bottom of the sump and must be 100mm or greater.

1.6.10: All bodywork to remain standard.

Mini Aero body kit and boot spoiler is permitted

Driver's door bar and bonnet internal cross brace structure must remain in place. No
lightening of internal panels is permitted.

1.6.11: Factory dash to remain fitted.

1.6.12: It is not permitted to cut holes in the bodywork for lightening purposes or to increase airflow to the engine.

It is permitted to use brake cooling ducting subject to it being fitted through the front panel taking air from the front fog lamp aperture in the front bumper.

1.6.13: Wheels should remain inside lines of body and not protrude beyond the arches.

1.6.14: Headlights must remain intact but can be covered with graphics.

1.6.15: It is permitted to fit extensions and/or non-slip material to the pedals.

1.6.16: A standard laminated windscreen must be fitted.

1.6.17: The heating and ventilation matrix, blower fan and ducting behind the dashboard must remain in its entirety. It is permitted to remove the OEM plastic under-carpet ducting

1.6.18 Interior mirror must be fitted but size is free

1.7. ENGINE:

1.7.1: Only the standard W10 petrol engine fitted to the 2001 – 2006 MINI Cooper may be used

1.7.2: Air filter can be changed to a cone filter

1.7.3: ECU must be mapped by Protune and have received the sticker proving that the car has received the map. ECU must remain in standard position

The immobiliser box under the dash must have tamperproof bracket and nuts removed for easy exchange.

1.7.4: Catalytic convertors may be removed.

1.7.5: Standard exhaust or Sportex S3 only.

1.7.6: Lower engine mount brace may be fitted with a polyurethane bush

Powerflex PFF5-104BLK and PFF5- 120BLK

1.8 SUSPENSIONS:

1.8.1: The wheelbase and track of the vehicle must remain as per manufacturers standard specifications.

1.8.2: Front suspension: Only the standard specified suspension units with a fixed spring platform may be used, as supplied by Mini and assembled in accordance with manufacturers specifications Sachs original type shocks may be used as replacement **Part No: 290236009 and 290237009** and these must be fitted to an unmodified front stub axle assembly.

1.8.3: Front suspension: It is not permitted to tamper with the suspension unit or to change the oil within it.

1.8.4: Front suspension: **Powerflex PFF5-132GBLK and PFF5-101GBLK** Camber kit is permitted as an optional modification for the purpose of reducing tyre wear.
Front control arm rear carrier mounting bolts, inner ball joint mounting bolts, and steering rack mounting bolts may be replaced with bolts and nuts.

1.8.5: Front suspension: All suspension bushes must be of standard construction and fitment. No nylon or polybush replacements are permitted.
It is not permitted to fit a strut brace top or bottom.

1.8.6: Front suspension: Suspension arms must remain standard in shape, size and position and must be mounted in the standard locations.

1.8.7: Front suspension: It is permitted to fit lowering springs to the car and these are a spec unit **Eibach E10-57-001-03-22** which lower the car by 30mm.

1.8.8: Front suspension: The standard bump stop must be fitted, without any additions or interference.

1.8.9: Rear suspension: Only the standard specified suspension units may be used Sachs original type shocks may be used as replacement **Part No: 290238009** and these must be assembled in accordance with the manufacturer's specification and be mounted in the standard locations to the existing and unmodified mounting points.

1.8.10: Rear suspension: It is not permitted to tamper with the suspension unit or to change the oil within it.

1.8.11: Rear suspension: The original unmodified rear beam must be fitted and mounted in the original and unmodified location.

1.8.12: Rear suspension: No mechanism is permitted to vary the amount of camber or castor apart from standard factory fitted bolts.

1.8.13: Rear suspension: It is permitted to fit lowering springs to the car, and these are a spec unit **Eibach E10-57-001-03-22** which lower the car by 30mm.

1.8.14: Rear suspension: the standard bump stop must be fitted, without any addition or interference.

1.9 TRANSMISSIONS

1.9.1: 5 speed getrag or midlands gearbox or 6 speed Cooper S gearbox can be fitted

1.9.2: The differential must be standard and no form of limit slip differential is permitted even if factory fitted.

1.9.3: A standard specification clutch pressure plate, disc and bearing must be fitted with no modifications permitted to friction material or type.

1.9.4: Standard flywheel must be used. No lightening of the flywheel is permitted.

1.10 ELECTRICS

1.10.1: Brake-lights must remain as standard and be operational.

1.10.2: A rear fog light must be fitted and operational.

1.10.3: It is permitted to replace the standard battery with a competition type and to move the battery inside the vehicle and locate it in the passenger area. Where a battery is located in this area it must be of sealed construction.

1.10.4: The standard alternator must be fitted, connected and providing a charge when the engine is running.

1.10.5: It is not permitted to fit any additional switches in or around the dash panel or to connect into the vehicle wiring loom or any of the engine/exhaust sensors.

1.11 BRAKES

1.11.1: The standard brake pads can be replaced with only ferodo DS2500 which have a competition friction material fitted.

No carbon/ceramic materials or similar are permitted.

1.11.2: It is permitted to replace the standard brake fluid with a higher temperature fluid.

1.11.3: The braking system must remain standard and fully operational in all respects.

1.11.4: Only unmodified standard brake callipers as per Mini

1.11.5: It is permitted to replace the standard brake hoses with braided replacement pipes.

1.12 WHEELS/STEERING

1.12.1: No modifications are permitted to the steering system/mechanism.

1.12.2: Only 15-inch alloy wheels can be used.

1.13 **TYRES**

1.13.1: Toyo Proxes R888 (control tyre)

The max amount of new tyres per competitor per season is eight.

1.14 **WEIGHTS**

1.14.1: Minimum car and driver - 1100 KG

1.15 **FUEL & FUEL DELIVERY**

1.15.1: The car must be run on standard pump fuel. No fuel additives are permitted.

1.15.2: The fuel tank and location must remain as standard.

1.15.3: The fuel supply system (pump & pressure regulator) must remain as standard.

1.16 **SILENCING**

1.16.1: Specification – Sound regulations as per Motorsport UK requirements.

1.17 **NUMBERS AND DECALS**

1.17.1: Numbers should be displayed on windscreen both rear quarter windows and rear window.

1.17.2: Driver's name must be displayed above numbers on rear quarter windows

1.17.3: The sunstrip area is reserved for class name.