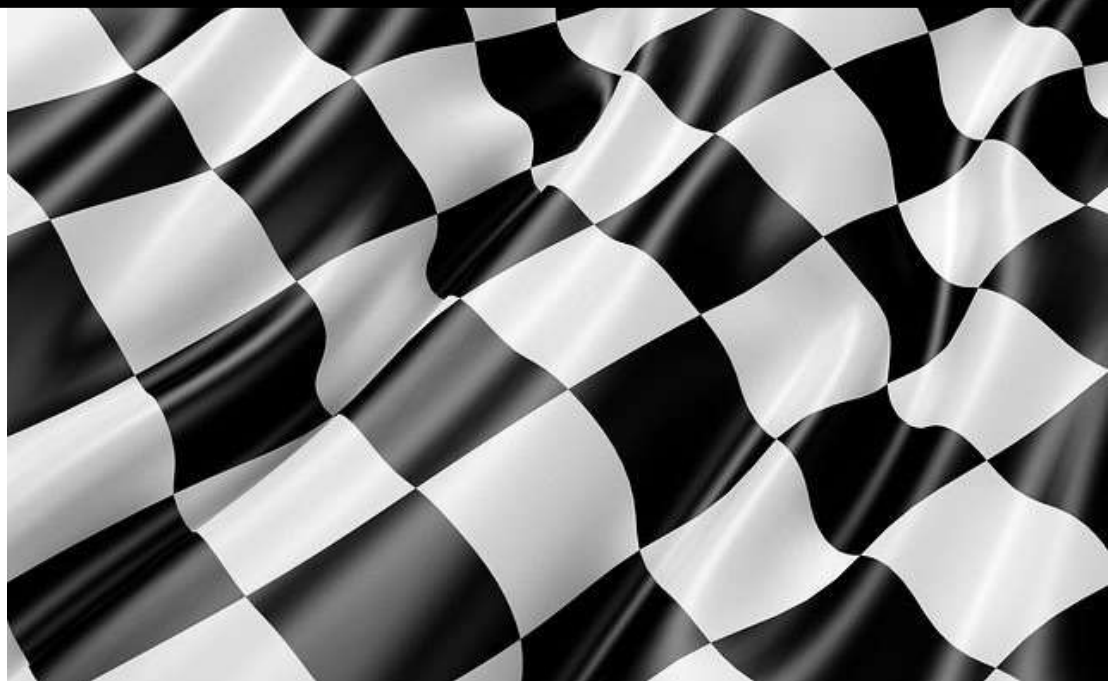




2023

Sporting and Technical Regulations

WPMC Rallycross Support Classes for World RX



Version 2

14 September 2023

Ref: 163067/144

REVIEW AND AMENDMENTS

ANY proposed / desired changes to these Sporting and Technical Regulations must be submitted to Motorsport South Africa (“MSA”) for approval. WPMC Rallycross Section (including E36 Cup) have the right to introduce new Regulations and / or amend existing Regulations with the approval of MSA.

Amendments and updates to the rules will be recorded in the Amendment Record, detailing the updated version, date of approval of the amendment and a short summary of the amendment. The new version of the rules will be published by MSA at least seven (7) days prior to the event being held unless a shorter notice period is approved by MSA.

AMENDMENT RECORD

<i>Modified Rule Number</i>	<i>Date Applicable</i>	<i>Date of Publication</i>	<i>Clarifications</i>
Appendix A – A2.1	Immediately	14.09.2023	Wording deleted and added
Appendix A – A2.7	Immediately	14.09.2023	Wording deleted and added
Appendix A – A2.13	Immediately	14.09.2023	Wording deleted and added
Appendix A – A2.16	Immediately	14.09.2023	Wording deleted and added

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All race meetings shall be held under the 2023 Motorsport South Africa (MSA) General Competition Rules (GCR's), Standing Supplementary Regulations (SSR's), these Sporting and Technical Regulations, the event Supplementary Regulations (SR's) issued by the promoters / organisers and any APPLICABLE Circulars of MSA.

1. AIM OF THE COMPETITION

The aim of the competition will be to declare a winner and 1st and 2nd runner up on each day of the event in each of the classes (Class A & B will be combined) competing at the 2023 World RX event.

2. CONTROLLERS OF THE COMPETITION

The Controllers of the Competition will be MSA who have delegated the responsibility to the Officials of the day.

3. REGULATIONS

- 3.1 All qualifying races will be held under these rules, the General Competition Rules (GCR's) and Standing Supplementary Regulations (SSR's) of Motorsport South Africa (MSA) and the event Supplementary Regulations (SR's) issued by the Promoters / Organisers.
- 3.2 No rule is intended to exist in a vacuum; each rule should be read in the context of all rules. If there are two possible interpretations to a rule, and one interpretation conflicts with another rule, or makes another rule meaningless, that interpretation will be rejected in favour of an interpretation that is not in conflict with any other rule or makes another rule meaningless.
- 3.3 If a specific rule or latitude is not found in these regulations, whether stated it is or is not allowed, that will mean it is not allowed. The MSA GCR's or SSR's, as applicable, will then apply.
- 3.4 The Controllers reserve the right to amend these rules at their discretion. Any recommendations to amend the rules by the WPMC Rallycross Section (including E36 Cup) will only become effective when approved by MSA.
- 3.5 All and any notice or circulars in respect of this competition will be notified to all competitors in an electronic format (email or similar).
- 3.6 Any notice or circular will be notified no less than 7 (seven) days prior to the event. The onus is on the Competitor to ensure that he / she has familiarized him / herself with such a notice.

4. ELIGIBILITY OF DRIVERS

- 4.1 The Competition is open to:
 - a) Those drivers selected by the WPMC Rally Cross Section and E36 Cup; and who are
 - b) Holders of a current MSA competition licence valid for either Rally, Circuit Cars or Cross Country Cars of at least Club status.
 - c) Drivers must not be younger than 16 years of age.
- 4.2 Invited drivers are welcome to race and are eligible for trophies on the day.
- 4.3 A driver may enter, qualify or race more than one (1) vehicle in different classes on any race day. Multiple entries are required if this applies. No driver is allowed to enter more than one vehicle in the same class.

5. COMPETITION FORMAT

On each day of the event:

- 5.1 There will be a practice session of 3 laps.

- 5.2 Three (3) races each consisting of 4 laps including 1 Joker lap. (Joker lap requirement is different for E36 Cup – Refer Appendix A)
- 5.3 The top six (6) competitors in each class based on total scores from the three (3) races will qualify for the A final for their class and the bottom six (6) will qualify for the B final for their class.
- 5.4 The A & B finals will be five (5) laps.
- 5.5 Jump starts will result in the offending driver having to complete 1 extra joker lap within that race.
- 5.6 Where a driver is not able to take his / her position on the grid the gap will be filled by the reserve driver. Should the driver be able to repair his / her car during the event, he / she will re-enter the competition as the last placed reserve and not take to the grid unless requested to do so.

6. **CLASSES**

Competitors will be divided into the following classes:

Class A (Super mods): all vehicles i.e. Rally spec, 4wd, turbo, supercharged, special purpose built exhibition vehicles, with power enhancers or in any form that do not comply with classes below.

Class B: 6 cylinders

Class A and B will be combined for the purposes of this competition and will run as one (1) class.

Class C: 4 cylinders

E36 Cup: BMW E36's only

7. **MINIMUM NUMBER OF STARTERS**

In each race, including the finals, of the day the aim is to have six (6) starters. Where a driver is not able to take his / her position on the grid the gap will be filled by the reserve driver.

8. **POINTS AWARDED FOR EACH RACE**

Points will be as set out in the SR's for the event.

Points accumulated for qualifying races are used to determine the positions to proceed through to the final rounds. The winner and 2nd and 3rd placed drivers in the final on each day will receive trophies.

9. **ANNOUNCEMENT OF POINTS AWARDED**

Scoring for each race will be placed on the official notice board which for this event will be the following WhatsApp group **2023 World RX Support Classes**. On entering the event drivers will be added to the group.

10. **SEPARATION OF TIES**

A tie will be resolved in favour of the competitor having the greatest number of race wins, then seconds then thirds etc.

11. **STARTING GRIDS (per class)**

As per the event SR's.

12. DRIVER'S RESPONSIBILITIES

- 12.1 All drivers are to ensure that their vehicles comply with all regulations governing the series.
- 12.2 Incident reports must be completed and handed to the Event Secretary within thirty (30) minutes of the completion of the race wherein the incident occurred. The Event Secretary will hand the report to the CoC. Action to be taken is at the discretion of the CoC.
- 12.3 Competitors must notify the Clerk of the Course (CofC) immediately if withdrawing from the event.

13. ELIGIBILITY OF VEHICLES

Vehicles competing in the championship shall comply with these rules, the GCR's, SSR's and all of the Standing Regulations and the Supplementary Regulations pertaining to this event.

All competitors and their vehicles are to comply with the MSA Environmental Code as set out in the MSA Handbook. This covers inter alia sound testing, permissible fuel, build and safety equipment etc.

All recognized production manufactured vehicles with a metal or carbon fibre (OEM) roof are eligible. Fibreglass and plastic fenders and panels may be utilised as long as the silhouette remains the same. Additional flares or spats may be fitted to the arches and fenders but must be securely fastened.

All vehicles to have clearly visible rear mounted (interior high level if possible) working brake lights.

All vehicles to have kill switches as per MSA requirements.

All vehicles to have a front, side and rear glass / Lexan windscreen. Lexan of suitable thickness may be used to substitute glass if needed. No un-authorized deviations will be allowed / permitted.

Glass headlights to be removed and holes covered or lights adequately covered to avoid glass on surface in the event of damage.

All vehicles to have adequate mud flaps measured 60mm max from the road surface on driven axle.

E36 cup class rules may differ (see Appendix A).

All vehicles to have a minimum of a 1.5kg fire extinguisher as per MSA.

13.1 Class A (SUPERMODS (SM)):

All 4wd vehicles, FWD, RWD, turbo charged or performance enhanced vehicles are allowed.

Space frames and saloon bodies are eligible if passed as safe by the appointed officials of the event.

No additional items may be fitted to the vehicle unless approved by the series specialist scrutineer.

No unauthorized modifications are allowed.

13.2 Class B:

- Any drive vehicles excluding 4wd with a number of (6) six cylinders.
- Maximum of 180KW on flywheel at the appointed dyno".
- No additional items may be fitted to the vehicle unless approved by the specialist scrutineer.
- Shocks are free but external canisters and super high tech shocks are not permitted.
- No sequential gearboxes.
- Ride heights are free.
- Bumpers to be fitted on front and rear.
- Engine management is free but must comply with technical regulations on power readings.

NOTE: Classes A & B will be combined and score as one class for the World RX event.

13.3 Class C:

- Any drive vehicles excluding 4wd (4) four cylinders.
- Maximum capacity of 2.0 litre.
- Maximum of 120KW on flywheel at the appointed “dyno”.
- No additional items may be fitted to the vehicle unless approved by the specialist scrutineer.
- No sequential gearboxes.
- Shocks are free but external canisters and super high tech shocks are not permitted.
- OE suspension points must be retained.
- Ride heights are free.
- Bumpers to be fitted on front and rear.
- Engine management is free but must comply with technical regulations on power readings.

13.4 Class B and C will be dyno checked for power reading at series’ controllers discretion.
Approved dyno for the event will be announced.

14. FUEL AND LUBRICANTS

All classes to adhere to the MSA code of eligible fuel to be used.

Ethanol is permitted as an additive to regulation fuel specified in GCR 240.

For all classes except the E36 class, radiators are allowed to be fitted inside the vehicles. For safety purposes however, if done, a shield or covering must be fitted separating the driver from radiator pipe.

15. WHEELS AND TYRES

- 15.1 There are controlled tyres for Classes A, B and C competitors. Each competitor is limited to four (4) new tyres for the two (2) days of the event. These tyres are to be used on the driven axles.
- 15.2 Super modified class A may use any size wheel with an 8j width rim but the control tyre (Hankook Z222 or Accelera 651) or a full slick only is allowed. No exceptions will be made. No additional grooving of tyres allowed.
- 15.3 Wheel rim width is limited to a maximum of 8 inches (20.32cm) in all classes.
- 15.4 Make and type of tyres for Class B and C is 13, 14, 15, 16 or 17” – tyre spec (approved road going tyre or approved semi slick).
- 15.5 No wheels (rims and tyres) may protrude from the fenders, with the wheels pointed in the straight ahead position at the start of any race. Wheel nuts and studs may not protrude outside the wheel width area.

16. COMPETITION NUMBERS

All competition numbers (including those on the windscreen) must comply with MSA circuit regulations relating to size and colour. Refer GCR 249, SSR 4 and any other relevant bulletins etc. rear side window is for race number and drivers name solely, and fuel advice decal if required.

Rear side windows must have race number in bright orange or yellow or white, affixed to window size of 300 x 300.

17. STARTING PROCEDURES

- 17.1 The starting procedure will be a standing start as set out in the event SR’s.

17.2 Jump starts will result in the offending driver having to complete 1 extra joker lap within that race.

18. NOISE LIMITATIONS

The circuit has an obligation to the local environment and the noise restrictions will be enforced as laid out in the SR's. Any vehicle in breach will be requested to leave the competition by the CofC and the organisers have the right to refuse an entry from the competitor on the day in question. The organiser's decision is final.

19. AWARDS

The awards on each day will be presented to 1st, 2nd and 3rd place competitors in each of the A finals.

20. GENERAL

Any competitor found to be guilty of maliciously causing damage to the circuit, pit area or any of the property relating to the Rallycross race arena will be officially dealt with by the race officials.

- 20.1 As per the MSA code, environmental mat / ground sheet must be laid down in the pit area to avoid fuel /oil spills.
- 20.2 Vehicles must be presented for scrutineering in a clean condition and ready to race together with an approved helmet, race suit, race shoes / boots and gloves, all in good condition.

21. SOCIAL MEDIA

Social media, including, but not restricted to, Facebook, Instagram, Twitter, WhatsApp etc. is a powerful and wide-reaching medium for the expression of views and opinions, and the sharing of photographs and video. As such, competitors should be aware that their conduct on social media regarding Rallycross, WPMC, its riders / drivers and sponsors should reflect the impact social media has. If a competitor is considered to have brought the Competition and / or WPMC into disrepute in the opinion of the Controllers, they may be subject to a penalty or disqualification from the competition. Additionally, competitors are reminded that Motorsport SA monitor social media and any remarks that are deemed to bring the sport into disrepute can lead to penalties. For clarity, it is accepted that crashes are an inevitable feature of motor-racing and the posting on social media of imagery containing a crash does not bring motorsport into disrepute, but competitors are reminded that careless associated comments may do so.

Appendix A – E36 Cup Specific Regulations

A1. JOKER LAPS

In Events where Joker Laps are applicable the following will apply:

- A1.1 Every Competitor needs to take the joker lap at least once in the race.
- A1.2 If a Competitor jump starts they will need to do an additional Joker lap.
- A1.3 The leader of each lap will need to take the Joker Lap on that current lap, which may result in a competitor taking the Joker lap more than once in the race.

A2. TECHNICAL SPECIFICATION

- A2.1 Engines:
 - Any E36 Petrol Engine with a maximum capacity of **2.8 3.0** liter.
 - Engine internals may be modified only OEM parts must be used.
 - Engine externals must remain standard.
- A2.2 Cylinder Heads:
 - May be modified
- A2.3 Camshafts:
 - May be modified
- A2.4 Crankshafts:
 - May not be modified.
- A2.5 Ignition Systems:
 - The ignition system may be modified
- A2.6 Fuel:
 - 95 Octane pump fuel only.
 - Competitors may be asked to drain and replace their fuel with 95 Octane fuel supplied by the committee. If the competitor refused to race the day on the supplied fuel the committee have the right to take further disciplinary action against the competitor which may include but not exclude future exclusions in the E36 Cup.
- A2.7 Throttle Body:
 - Only a single OEM throttle body is allowed.
 - ~~No bigger than a standard 325/328 throttle body may be used.~~
 - **Standard as per engine size.**
- A2.8 Air boxes:
 - Air boxes may be modified or removed.
 - Fresh Air or Ram Air induction is not allowed.
 - No Forced Air (mechanical, electrical or any other means) Induction is allowed.
 - Air Filters may be replaced with aftermarket filters or removed.
- A2.9 Exhaust Systems:
 - Exhaust system may be replaced with an aftermarket exhaust.
 - Any aftermarket exhaust must comply with the noise levels as stated above.

- A2.10 Gearboxes:
- Only original OEM E36 5 speed gearboxes are allowed.
- A2.11 Clutches:
- Only OEM clutch and pressure plates are allowed.
- A2.12 Flywheels:
- OEM M20 solid mass flywheels and clutches may be used.
- A2.13 Differentials:
- ~~Only 4.11 Ratios will be allowed.~~
 - **LS/Diff/Lock ratios permitted are 3.9 – 4.1**
- A2.14 Suspension:
- Polyurethane and rubber off set bushes are allowed on original mounting points
 - Front Camber may have a maximum of 4.5 degrees camber achieved via a spacer between the hub and shock.
 - Rear Camber must be within standard limits.
 - Minimum ride height: 340 mm from the centre of the front hub to the highest point of the bottom lip of the wheel arch
 - Spacers will be allowed as to level out ride height (Front versus rear). The rear ride height may not be lower than the front.
 - E36 OEM rear suspension and coil springs need to be retained.
 - E36 OEM shocks must be used. No coil-over shocks will be allowed.
 - E36 OEM front outer springs with Golf Mark "1" rear spring acting as inner springs will be allowed on front suspension.
 - E36 OEM lower control arms need to be retained
- A2.15 Rims:
- Only alloy or steal rims are allowed.
 - Front Rims may be up to a maximum of 18" diameter with a maximum of 8J width.
 - Rear Rims may only be a 15" diameter with a maximum of 8J width.
- A2.16 Tyres:
- Front tyres may be up to a maximum width of 225.
 - Front tyres may be a semi slick or road based tyres.
 - ~~Only the Spec Durun 195/60/15 is allowed on the Rear.~~
 - **Dunlop 195/60/15 is permitted on the rear.**
 - Rear tyre pressures must be over 3 Bar minimum with cold tyres.
 - Wheel spacers are allowed, but rims and tyres my not protrude past standard wheel arches. (Tyre tread may not be visible looking top down past wheel arch.)
- A2.17 Brakes:
- Standard rotor diameters must be retained.
 - E36 OEM callipers must be retained.
 - Brake pads may be upgraded.
 - Inline hydraulic hand brake is allowed.
- A2.18 Roll Cages:
- Roll cages should conform to MSA circuit standards.
- A2.19 Fuel tanks:

- E36 OEM fuel tanks must remain.
- A2.20 Bodyworks:
 - Standard bumpers or fibre glass replicas of the standard bumper will be allowed. All other body panels to remain OEM
 - No tampering will be allowed with the silhouette of the cars.
 - Spot lights may be removed as to allow for front brake cooling
 - Rear fire wall may be cut out.
 - Spare wheel well may be cut out, but needs to be cover by an adequate plate.
 - Interior may be removed but cars must retain standard E36 dashboard
 - All cars must be fitted with rear mud flaps which may not be higher than 50mm above the ground.
 - Only four door sedan E36 body shapes will be allowed
 - All cars to retain OEM glass on all windows
 - Head and tail lights to be retained.
 - Front lights may be taped or wrapped for protection.
 - No tow bars are allowed.
 - Tow hooks may not protrude the silhouette of the cars.
- A2.21 Boot spoiler / Wing:
 - Only OEM spec spoilers are allowed.
- A2.22 Seat:
 - The seat must be well secured.
 - It must be designed so that the driver is well located to resist movement when cornering, braking or crashing.
 - Only non-recline-able seats are allowed.
- A2.23 Seat belts:
 - To comply with GCR 239 D
 - A five point approved safety harness of the quick release type that releases at least all but one point.
 - The safety belts must hold the driver firmly under all racing conditions.
 - Seat belt anchor points shall be lower than the shoulder height of the seated driver.
 - The seat belt point must be a suitable and substantial part of the chassis or roll cage.
- A2.24 Steering:
 - Only the Steering hub and wheel may be replaced.
 - Quick release hubs are allowed.
- A2.25 Fire extinguisher:
 - A 1.5 Kg DCP type fire extinguisher is mandatory.
 - The fire extinguisher brackets must be well secured.
- A2.26 Numbers:
 - The E36 Cup spec Decal stickers must be used on the Front Window, Rear Passenger Windows and Rear Window which can be bought from the WPMC Rallycross controllers.
- A2.27 Other:
 - Anything not specifically mentioned above is not allowed.
 - No E36 M3 parts may be used besides for front lower control arm bushes and exhaust manifold headers.