

# Regional Race Rules and Regulations Miniz World Cup 2009

Contributed by Administrator  
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PN Racing Mini-Z World Cup 2009

## Rules and Regulations

Version 09.02 last updated MAR 11, 2009

Last updated

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Layout changed little because Giro-Z position.

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B Main and below change to 8 minutes.

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B Main and below one driver can bump up.

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Add F1 Stock Class.

## Race Classes

2WD Stock, AWD Stock, 2WD Mod, AWD Mod, F1 Stock, Pan Car Super Stock , Pan Car Modified.

## Race Format

I Qualifying:

There will be three qualifying runs for each class.

Each run will last 8 minutes.

For the first run, the starting grid will be staggered in a random order.

For the second run, the starting grid will be reversed.

For the third run, racers will be re-shuffled into heats based results from the previous two qualifier runs.

The starting order for each run will be based on the number of laps run in the time allowed.

Top Qualifier (TQ) will be awarded to the racer with the highest lap count for a single heat.

#### I Mains:

Regional Race : All classes Single A Main 10 minutes, B Main and below 8 minutes, one driver bump up.

World Final Race : All classes Triple A Main 10 minutes, B Main and below 8 minutes, one driver bump up.

#### MOTOR

I All Stock Class and Pan Car Super Stock Class drivers will receive a sealed hand-out motor for each class the driver has registered for. Each motor will contain a control number. The control number will be recorded and assigned to the car that the driver has registered to run in the class. Each motor must remain with the car it was assigned to at the time of registration. The motors are to be run as is. Any tampering with the motor will result in disqualification. If any PN Race official suspects motor tampering, the driver will be subject to disqualification. Each class drivers can buy one more extra motor.

I Modified Class can be use any model of the PN Racing motor, legal modify the brushes, magnet, cut the cam head, but you MUST be use PN Racing motor can, motor cover and armature. If any PN Race official suspects motor illegal tampering, the driver will be subject to disqualification.

#### PCB

I 2WD Stock Class, AWD Stock Class, F1 Stock Class, 2WD Mod Class and AWD Mod Class.

The Kyosho PCB AM, 2.4G and KO AD brand only. Any modification allowed.

I Pan Car Stock and Modified Class

Any ESC or PCB may be used. Any modification to the ESC or PCB may be used. Any transmitter and receiver may be used. Examples include AD, AM, FM, Spectrum ,2.4G

#### Chassis

I 2WD Stock Class - 90mm to 102mm Wheel Base

Kyosho MR-01, MR-015, and MR-02 only. Kyosho colored chassis may be used.

I AWD Stock Class - 90mm to 98mm Wheel Base

Kyosho MA-010 only. Kyosho MA-010 SP Color Chassis Set may be used.

I F1 Stock Class

Kyosho Mini-Z F1 Chassis only.

I 2WD Modified Class - 90mm to 102mm Wheel Base

Kyosho MR-01, MR-015, and MR-02 only. Kyosho colored chassis may be used.

#### I AWD Modified Class - 90mm to 98mm Wheel Base

Kyosho MA-010 only. Kyosho MA-010 SP Color Chassis Set may be used.

#### I Pan Car Stock and Modified Class - 94mm to 98mm Wheel Base

Any after market 2WD chassis allowed.

#### Body

#### I 2WD Stock, AWD Stock, 2WD Modified, AWD Modified Classes

Kyosho Mini-Z body only, all windshield and window must be installed.

#### I F1 Stock Class, Kyosho Mini-Z F1 body, no additional parts add.

#### I Pan Car Class use PN Racing Pan Car only.

#### Body Modifications

#### I Any Kyosho Mini-Z body including LM bodies are allowed, but car must conform to wheelbase and width rules.

#### I LM-size wheels and tires are NOT ALLOWED. See Wheel Rim and Tire rules for clarification.

#### I Bodies may be functionally modified with minimal effect external appearance. The following non-comprehensive list of body modifications are allowed:

- o Excessive external cutting of the body is NOT ALLOWED for weight reduction purposes. The rear bumper may be removed up to 20mm from the ground.
- o Wheel wells may be cut forward or backward to accommodate different wheelbase chassis.
- o Wheel wells may be cut or chamfered internally for tire clearance.
- o Lower portions of the body may be cut for ground clearance in front, sides or rear.
- o Body material may be shaved or thinned internally for weight reduction. Technical inspection officials reserve the right to disqualify any modified body deemed to be too fragile due to excessive material removal.
- o Body panels may be reinforced or strengthened internally without affecting external appearance.
- o Kyosho windshield and windows must be installed, but can be modified by cutting unexposed internal areas.
- o Kyosho headlight covers must be installed, but headlight buckets may be removed or omitted. In the event that a headlight cover is lost, the hole may be covered with a decal.

- o Taillights and taillight covers may be removed or omitted.
  
- o Small body parts such as mirrors, canards, exhausts may be omitted or removed to prevent racing damage and debris on track.
  
- o All rear wing comes with the body may be installed according to the no height limited. Custom wings allow to use on the body, according to the height limited 45mm from the ground.

I The above list is non-comprehensive. The purpose and spirit of the rules is to allow functional performance modifications to the body while preserving the scale appearance and realism. The technical inspector has final authority in the judgment of body modification legality.

I If you have modified your body and have questions regarding the legality of the modifications, please submit the body in question to technical inspection PRIOR to racing qualification or main event round. This is in order to prevent any inadvertent disqualifications. The technical inspector will judge the legality of body modifications and photograph the body in its legal state if necessary.

I If the body is further modified post-inspection, the modifications may or may not be legal. For the racer's protection, please re-submit the body in question to technical inspection IMMEDIATELY if significant modifications are made.

I If the body is damaged, the condition of the body may or may not be legal. For the racer's protection, please submit the body in question to technical inspection IMMEDIATELY if significant damage occurs. If the damaged body is judged illegal, it must be repaired or replaced for the next qualification or main event round. Qualification or main event results during which racing damage occurs on track will be allowed, as long as the body is not judged to be intentionally designed to break away to benefit performance.

## Bearings

I All Classes

Any type of bearing by any manufacturer is allowed. For example: Ceramics are allowed.

## Batteries

I All Classes

Cars must be powered by four AAA batteries. Alkaline, Ni-MH or Ni-Cd batteries may be used. No other type of battery may be used. For example: Lithium Polymer may not be used.

## Wheel Rims

I All brand Plastic and Aluminum rims are allowed. (except Pan Car Stock class, F1 Stock class and Pan Car Mod Class)

I 2WD Stock, AWD Stock, 2WD Modified and AWD Modified

Maximum front wheel width is 8.5mm. Maximum rear wheel width is 11mm. Maximum wheel diameter is 21mm. LM-size wheels and tires are NOT ALLOWED.

I F1 Stock Class must be use Kyosho wheel rims, no any modifications

I Pan Car Class, must be using Kyosho or PN Wheel Rims.

I All wheel rims must be original, any modification is not allowed.

## Tires

I All Classes

Any Brand of Rubber / Silicone tire may be used. No foam tires allowed. No tire insert use. No traction compounds allowed on tire or on race surface. Tire warmers are allowed. Tires may be cleaned with a 70% alcohol solution. If a driver uses tire cleaner that has been deemed illegal, the driver will be subject to any penalties that apply. Please address any questions concerning tire cleaners at the drivers meeting.

## Hop Up Parts

I All Classes

Drivers may use any Kyosho or after market parts available. All upgrades must conform to all other rules posted in this document. All upgrades must be designed for the chassis that the upgrade has been installed on. No upgrade will be allowed if the upgrade will interfere with the cars of other drivers. The PN Racing directory, tech inspectors and race officials reserve the right to disqualify any part deemed improper based on fairness and possible interference.

## Weight, Width and Height

I Minimum Weight

2WD Chassis 175g, AWD Chassis 190g, F1 Chassis 200g and Pan Car unlimited weight.

I All Classes

Drivers may make minor modifications to the body and or chassis to reduce weight. Total vehicle weight must fall within the guidelines of this document. Please refer to the table above for weight requirements. The PN Racing directory and race officials reserve the right to disqualify a body and or chassis for excessive material removal if the body and or chassis is deemed to be fragile.

## GENERAL RULES

I SPORTSMANSHIP

Proper manners and good sportsmanship are expected from all drivers at all times. It is important to understand that general bad behavior like cursing, intentional bad driving, etc, will not be accepted and can result in a driver being penalized, disqualified or even asked to leave in extreme cases.

All participants will be expected to attend the drivers' meeting. All rules are available online at [www.pnracing.com](http://www.pnracing.com) Drivers will be expected to understand and comply with each rule by the time they leave the driver's meeting. Ask any questions at this time.

If there is a rules dispute between drivers it must be brought to the attention of the race director or PN Racing personnel.

The officials at the track will do their best to resolve any issue to the satisfaction of everyone.

If a racer notices an illegal item on another racer's car. Please report to PN Racing official after that racer's race, so the car can be inspected without interference.

Substitute drivers are not allowed in any qualification or main event race. An immediate disqualification from the event for both drivers will result.

## RADIO IMPOUND

Circumstances may require that radio transmitters be held by race officials until the drivers in each heat or final require them to race. The process of impounding radios will be explained to all racers during the driver meeting.

## TECHNICAL INSPECTIONS

All racers are encouraged to bring their cars to the officials during open practice so that any corrections can be made before the official inspection.

### I Before each race

Technical inspections will take place before each race. Inspections will be performed by PN Racing officials. If the PN Racing official determines that the car does not meet the requirements specified in this document the car will be deemed illegal and will not be allowed to race. It will be the responsibility of the driver to ensure that the car meets all requirements and passes inspection before the race begins. In the event that the PN Racing official does not catch a violation, the car will still be considered illegal and the racer will be subject to any consequences of running an illegal car.

### I After each race

Cars and radios from each race must be put on the post-race tech table for any post-race inspection that is required. Drivers that did not finish their race are still subject to this rule. Inspection of cars will start only after the start of the preceding race (for example, inspection for race 2 will start after race 1 has started and is underway). Cars on the post-race tech table will not be released until the end of the following race (for example, cars that ran in race 2 will be released when race 3 is completed).

Final approval to approve the legality of any car is not valid until after the post-race inspection.