

2024 Mini-Z KNOXVILLE Rules

Racing format will change from race to race

GENERAL RULES

Sportsmanship:

Proper manners and good sportsmanship are always expected from all drivers. 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.

All participants will be expected to attend the drivers meeting. Drivers will be expected to understand and comply with each rule by the time they leave the driver's meeting. If you have any questions, now is the time to have them answered.

If there is a rules dispute between drivers, it must be brought to the attention of the race director or 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 a racing official after that racer's heat, so the car can be inspected without interference.

Marshaling:

Drivers will not leave the driver stand at any point during the heat to marshal their own car. If a driver leaves the driver stand, they will be disqualified from that heat. All drivers are required to stand behind the line.

Drivers are required to marshal immediately following their completed heat unless that driver is in back-to-back heats. If the driver does not show to their marshaling position, laps will be deducted from the previous heat unless prior approval is given by a race official.

Jumped starts and corner diving:

A jumped start is any movement of a vehicle between the time the race director announces the start time and the starting signal.

A corner dive is where a vehicle intentionally drives into the turn, cutting off the lead driver prior to turn #1. No lead changes will occur prior to turn #1.

Penalties:

If one or more vehicles jump starts or corner dives, a false start will be declared, and the grid will be re-formed. If the same vehicle violates a second time, it will be moved back the length of the grid from its original starting position.

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 race start.

Track officials have final authority on all rule sets.

Rules are subject to change.

Stop and Goes:

Drivers may use reverse during a race but must be aware of their surroundings. If a driver disrupts the race by using reverse, they will be warned by race officials. If the driver has a second infraction, they will be forced to park in pit lane for a predetermined amount of time. If a third infraction occurs, the driver will lose the results of that qualifier/main.

Race Classes:

Future Champions, Kyosho Box Stock, Stock, Super Stock, Modified Open, and Pan Car.

Future Champions

This class is intended for novice racers. Drivers should eventually graduate from this class and move to one of the other classes. All cars MUST be in 50% mode. Any 1/28th allowed but must be in 50% mode/training.

Kyosho Box Stock**Motor:**

Kyosho MZ9P (white end bell) Motor from RTR.

Chassis:

Kyosho MR03S, MR03S2 and MR03 RWD.

Wheels:

Any Mini-Z type wheels, plastic or aluminum, Front 8.5mm x 20mm, Rear 11mm x 20mm, offset must fit inside of the body. Kyosho LM wheels are allowed. Carbon disks/side wall disks **not** allowed.

Tire:

Mini-Z Rubber tire only. No Silicone. Maximum Assembled Rear Tire Diameter is 25.5mm.

Traction Compounds **NOT** allowed on tire or on race surface. Tire warmers are allowed. Tires may be cleaned with a 70% alcohol solution

Electronics:

Kyosho board from RTR, NO modifications.

Transmitter:

Kyosho original transmitter from RTR only. KT-531

Differential:

Any pinion included with the RTR kit with Stock Gear Diff

Wheelbase:

90mm to 102mm

Body:

Kyosho original body, **all parts must be original from that body** and all parts/pieces from body must be installed, limited wheel clearance modification allowed. Kyosho white autoscale bodies allowed. No Lexan windows. Entire window installed. Body reinforcement and bumpers are permitted. Clearance issues may be addressed, front splitters may be rounded, but no performance/aero modifications allowed.

Batteries:

AAA NiMh, or AAA alkaline only.

Option Durability Parts – Options allowed:

Reverse King Pin Flip, Ball Bearings, T-Plate, Aluminum Wheel Nuts, Servo Gears, Aluminum Front Knuckles 0 degree, and Aluminum Steering Rod 0 degree. Solder motor wires to board ok.

Stock Class**Chassis:**

Kyosho Mini-Z Racer MR01, MR015, MR02, MR03, MR04, PN Racing PNR2.5W.
90mm-102mm wheelbase only.

Body:

Kyosho Mini-Z autoscale and white bodies, LeMans body, TRP Scale, GL, Silver Horse, and Jomurema GT01 hard bodies only. **NO** Lexan Bodies. Full windshield and window must be installed, except for clearance, Lexan window and Lexan Roof allowed. Headlight buckets may be omitted but lens must be in place (or covered by decal or tape). Small body parts may be omitted. Front splitters and body sides may be trimmed for track clearance. Wing any commercially available.

Motor:

PN 70T motor (#132370) - Brush replacement allowed PN Silver Carbon Brushes (#10CR50) (No Pure Silver)

Kyosho Mini-Z stock motor set White end bell MZ9P or MZ9E (EVO)

Kyosho XSPEED 4100kv (MZ606, MZ706 green)

Alternate unmodified 3500kv Brushless are subject to approval by track officials.

ESC:

Kyosho AM, AD, ASF, VE, VE Pro, MR03S RWD, MR03 RWD, EVO, EVO 2, PN DSM2 board (#500803A) and PN 16A ESC (#500807)

Battery:

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 / Lion may not be used. Additional battery for transponder allowed.

Option Parts:

Any aftermarket brand Mini-Z production parts allowed.

Any homemade parts, 3D print option parts and prototype parts **NOT** allowed.

3D Print Transponder Holder, Body Side Clips, ESC Top Cover are allowed.

Wheel:

All brand Plastic and Aluminum Mini-Z production wheel rims are allowed. Maximum front wheel width is 8.5mm. Maximum rear wheel width is 11mm. Maximum wheel diameter is 20mm.

Maximum assembled rear tire diameter is 25.5mm. All wheel rims must be original design made for Mini-Z RACER, any modification is not allowed, any slot-car design wheel and 3D print wheel not allowed.

Tire:

Any Brand of Rubber Mini-Z production tire **ONLY**. Homemade tires, Foam tires, Silicon tires, Urethane tires, Ethyl Carbamate tires **NOT** allowed. No tire insert use. Traction compounds **NOT** 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.

Super Stock**Chassis:**

1/28 scale 2wd chassis 90mm-102mm

Body:

Kyosho Mini-Z autoscale and white bodies, LeMans body, TRP Scale, GL, Silver Horse, and Jomurema GT01 hard bodies only. **NO** Lexan Bodies. Full windshield and window must be installed, except for clearance, Lexan window and Lexan Roof allowed. Headlight buckets may be omitted but lens must be in place (or covered by decal). Small body parts may be omitted. Front splitters and body sides may be trimmed for track clearance. Wing any commercially available.

Motor:

PN 50T motor (#133250) - Brush replacement allowed PN Silver Carbon Brushes (#10CR50) (No Pure Silver)
Brushless 3500kv motor sensored or sensorless / Kyosho XSPEED 4100kv (MZ606, MZ706 green)
Brushless 5500kv motor sensored or sensorless / Kyosho XSPEED 5600kv (MZ605, MZ705 blue)
NO option or aftermarket rotors allowed, Max can diameter is 16mm.

Differential:

Ball diff 64p 10/53 gearing (53T Spur Gear #MR2953WC Yellow ONLY) 5.3 ratio.
Kyosho 8/44 5.5 ratio.

ESC:

OPEN any ESC

Battery:

3500kv, XSPEED 4100kv motors can use any batteries maximum of 8.4 volt (LiPo)
5500kv, XSPEED 5600kv, and PN 50T brushed motors can only use NiMh batteries x 4pcs.
Additional battery for transponder allowed.

Option Parts:

Any aftermarket Mini-Z production parts are allowed. Homemade parts, 3D printed parts and prototype parts are not allowed. 3D printed transponder holder, body side clips and ESC top covers are allowed.

Wheel:

Any plastic or aluminum wheels are allowed. Maximum front wheel width is 8.5mm. Maximum rear wheel width is 11mm. Maximum wheel diameter is 20mm. Maximum assembled rear tire diameter is 25.5mm. All wheel rims must be original design made for Mini-Z RACER, any modification is not allowed, any slot-car design wheel and 3D print wheel not allowed.

Tire:

Any Brand of Rubber Mini-Z production tire ONLY. Homemade tires, Foam tires, Silicon tires, Urethane tires, Ethyl Carbamate tires **NOT** allowed. No tire insert use. Traction compounds **NOT** 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.

Modified Open

Chassis:

1/28 scale 2wd chassis 90mm-102mm

Body:

Any

Motor:

Any Mini-Z size motor, sensored or sensorless.

Differential:

Any

ESC:

Open any
ESC

Battery:

Any batteries maximum 8.4 volt
Additional battery for transponder allowed.

Option Parts:

All production parts are allowed. Homemade parts are allowed including 3D print parts and prototype parts

Wheel:

Any plastic or aluminum wheels are allowed. Maximum front wheel width is 11mm. Maximum rear wheel width is 14mm. Maximum wheel diameter is 20mm. Maximum rear tire diameter is 25.5mm.

Tire:

Any Brand of Rubber Mini-Z production tire ONLY. Homemade tires, Foam tires, Silicon tires, Urethane tires, Ethyl Carbamate tires **NOT** allowed. No tire insert use. Traction compounds **NOT** 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.

Pan Car

Chassis:

Open any 2WD chassis ONLY, 94mm-98mm wheelbase ONLY.

Body:

MUST use a wedge style, Lexan pan car body. Drivers are allowed to cut the rear panel.

Motor:

Open to any Mini-Z size motor, sensored or sensorless.

ESC:

Open any ESC

Battery:

Any batteries maximum 8.4 volt

Additional battery for transponder allowed.

Option Parts:

All production parts are allowed. Homemade parts are allowed including 3D print parts and prototype parts

Wheel:

Any plastic or aluminum wheels are allowed. Maximum front wheel width is 11mm. Maximum rear wheel width is 14mm. Maximum wheel diameter is 20mm. Maximum rear tire diameter is 25.5mm.

Tire:

Any Brand of Rubber Mini-Z production tire ONLY. Homemade tires, Foam tires, Silicon tires, Urethane tires, Ethyl Carbamate tires **NOT** allowed. No tire insert use. Traction compounds **NOT** 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.

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