

# 2023 NSR Eastern Championship Racing Rules

There will be three races run. Vintage Lemans and Modern GT and F1 86/89

## GENERAL RULE:

1. **ANY CAR MODIFICATION NOT SPECIFICALLY PERMITTED IS PROHIBITED.**

## ELIGIBLE CARS:

1. NSR Brand 1/32<sup>nd</sup> RTR and Painted Kit cars allowed.

### Vintage Le Mans Cars

Ford P68  
Ford GT40 Mk I  
Ford GT40 Mk II  
Ford GT40 Mk IV  
Porsche 917k  
Porsche 908/3 Spyder  
Porsche 91710/K

### Modern GT

Audi R8  
Aston Martin Vantage (ASV)  
BMW Z4  
Chevrolet Corvette C6/C7  
Porsche 997  
Mercedes-AMG GT3  
McLaren 720

2. Future car releases may also be allowed and will be evaluated on a case by case basis.
3. NO Moslers
4. Cars must have ALL NSR ORIGINAL UNMODIFIED PARTS except as noted below.

## BODY:

1. Must **not be** modified or cut in any way.
2. Must be completely painted in a realistic racing livery if not pre-decorated.
3. Must start each race with all parts intact except for mirrors, antennas and similar small protruding parts.
4. The REAR WING may be taped or glued in place as necessary but must remain in the original stock position. Rear wing does not need to be replaced if it comes off during the race.
5. Windows must be transparent with the exception of tampo paint or decal headers.
6. Body screws may be run loose only if tape covers screw holes under chassis.
7. ANY brand body to chassis screw is permitted but only in stock locations.
8. **Fully stock, painted INTERIORS or NSR replacement LEXAN interior.**
9. In the vintage class if the car came with a spare tire it needs to be in the car (e.g. Porsche 917).
10. EXCEPTIONS:
  - 10.1. Interior may be modified to allow proper clearance for the motor if necessary.
  - 10.2. Rally type GT cars may have the navigator figure removed.
11. **Body must have a number (the same number...) in at least three (3) locations.**

## CHASSIS:

1. Any stock NSR (Original, updated or replacement) chassis main plates, motor pods and drop arms are allowed.
2. Only minor flash removal is allowed on the chassis and motor pod.
3. No modifications to the axle or bushing mounts are permitted.
4. Bushings may be glued in place.
5. Suspensions are Optional, but ONLY NSR parts are allowed.
6. Any brand axle spacers or stoppers are allowed
7. Ballast may be used. **If present, ONLY Lead or Tungsten are allowed.** Ballast must not offer any support to the chassis or motor pod. Ballast cannot be placed on the underside of the chassis plate or motor mount.
8. Any NSR Brand motor pod to chassis screws may be used but only in stock locations.
9. Any NSR axles may be used.
10. The use of tape on the chassis to hold the motor pod in place is approved.

## 2023 NSR Eastern Championship Racing Rules

11. You are NOT allowed to retrofit NSR motors or motor mounts with holes for motor screws if they do not already have them. You are allowed to secure the motor using screws only if BOTH of the following conditions are met:
  - 11.1. The NSR motor you plan to use has FACTORY pre-drilled and tapped holes to accept the screws, AND
  - 11.2. The NSR motor mount you plan to use has FACTORY pre-drilled holes to accept the screws
12. You are allowed to use any combination of glue, tape or screws (subject to "Chassis – 11") to secure your motor to the motor pod.
13. EXCEPTIONS:
  - 13.1. Any Brand of Adjustable Front Axle Ride Height screws may be used.

### WHEELS AND TIRES:

1. REAR WHEELS-MODERN GT RACE: Only unmodified NSR Brand 16x10mm or 17x10mm wheels are allowed.
2. Legal wheels part numbers.
  - 2.1. NSR5004 Air System Large Diameter Extra Wide (Scale 17") 10mm wide
  - 2.2. NSR5009 NO-AIR system DRILLED 16.5 x 8.3mm aluminum front wheels - for 3/32" axle - Ultralight 0.9g
  - 2.3. NSR5015 Air System "Ultimate" 16" x 10mm wide aluminum rear wheels
  - 2.4. NSR5016 Air System (Scale 16") 10mm wide 0.9 grams / wheel aluminum wheel
  - 2.5. NSR5017 Ultimate Drilled (Scale 17"X 10mm) Spanish Rear Aluminum Wheels
  - 2.6. NSR5018 Ultimate Drilled (Scale 16") Spanish Rear "Air System" Aluminum Wheels
- 2.6.1. EXCEPTION: NSR5017 Spanish Wheel: the center rib (Spike) is approximately 0.3mm taller than on a standard 17X10 wheel. So, when using required Quick Slicks Tire the tire patch is proud in the center of the tire patch. To improve tire fit you can:
  - 2.6.1.1. Use tape to build up the outer shoulder of the wheel
  - 2.6.1.2. Sand down the center rib to reduce the diameter so that the tire contact patch is flat across.
3. REAR WHEELS-VINTAGE Le Mans RACE: Only unmodified NSR Brand 15x8 wheels are allowed.
4. REAR TIRE TREATMENTS: None are allowed. Acceptable tire cleaning methods will be CLR provided lint rollers.
5. FRONT WHEELS: Only unmodified NSR wheels with original stock wheel diameter are allowed.
6. FRONT TIRES: Any NSR correctly sized front tire may be used or Quick Slicks Zero grips. Front tires may be glued and trued (diameter only) with no visual evidence of significant front tire taper allowed. Front tires may be coated in CA Glue or Nail Polish.
7. WHEEL INSERTS: NSR wheel inserts appropriate to the car model are required (can be glued in place).
8. TIRE/WHEEL POSITION: tires may not extend past body more than 1mm per side when viewed from above.
9. WHEEL SET SCREWS: Any Brand and Hollow setscrews are allowed
10. HAND OUT REAR WHEEL TIRES: **Quick Slicks** silicone tires are required and will be handed out at the race. Driver's will be allowed to choose from the following Quick Slick tire sizes in Extra Firm compound:
  - 10.1. **Modern GT Race:** CB58, DF158
  - 10.2. **Vintage Le Mans Race:** CB34, or DF134

### GUIDE FLAG BLADES, BRAID, WIRE and SHIMS:

1. Only NSR brand guide flags will be allowed. Any brand of braid, wire and shims will be allowed

### MOTOR :

1. **Modern GT:**
  - 1.1. Any currently available unmodified NSR motor rated up to 25K RPM is allowed, below are a list of legal motors for the race.
    - 1.1.1. NSR3023 KING Evo 3 Magnetic Effect Motor 21,400 RPM 350 g-cm Torque
    - 1.1.2. NSR3026 KING EVO Balanced Motor 25,000 RPM 350 g-cm Torque Magnetic Effect
    - 1.1.3. NSR3043 SHARK Balanced standard Mabuchi can sized motor 25,000 RPM 180 g-cm Torque

## 2023 NSR Eastern Championship Racing Rules

1.1.4. Sidewinder or Anglewinder motor pod configuration is allowed.

1.1.5. King Motors required for Anglewinder configuration.

### 2. Vintage GT:

2.1. Only Sidewinder configuration with unmodified NSR3040 or the NSR3041 Shark Motor.

## LUBRICATION:

1. Lube may be applied prior to tech submittal but NO further addition of any fluids is allowed during competition.

## GEARING:

1. Only NSR Brand Gears and Pinions allowed. No restrictions on gear combinations (i.e. ratios).

## LIGHTING:

1. OPTIONAL, May be added with minimal body modifications to place lights.

## NSR F1 86/89 Rules

1. **Stock gear ratio only.**
2. **Any NSR brand guide flag.**
3. **Weight must be inside the chassis of the car.**
4. **Only stock rear wheels and Quick Slicks NR001 tires are allowed. Rear tires cannot be glued and/or trued. There will be no handout tires. The rear tires cannot be altered (e.g. profiled) in any way.**
5. **Rear wheel width (outside-to-outside) must be between 66mm and 68mm.**
6. **REAR TIRE TREATMENTS:** None are allowed. Acceptable tire cleaning methods will be CLR provided lint rollers.
7. Front tires may be glued and trued. Front tires can be coated with nail polish or super glue. Quick Slicks CB18Z (zero grip) may be used.