

2018 NSXPO / TYPE R EXPO
RULES & REGULATIONS



TYPE **R** CLUB OF AMERICA PRESENTS
TYPE R
EXPO XVIII

2018 NSXPO / TYPE R EXPO RULES & REGULATIONS

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1 General

The NSXPO / TYPE R EXPO HPDE is an instructional driving event. Drivers are required to operate their vehicles within the rules specified in this document, as well as any additional instruction or rule given before or during the Event by any Event organizer. Novice and Intermediate drivers are expected to safely follow the instructions given by their instructors. All drivers are expected to drive within their limits and the limit of their cars, as well as being mindful of the surroundings, both on and off the track. Failure to abide by the rules set forth in this document, at the sole and final discretion of the Event organizers, may result in penalties such as loss of driving privileges or expulsion from the Event. High performance driving demands alertness and concentration. In order to ensure that all drivers are well rested and alert, please be respectful of each other's right to a peaceful night's sleep.

Note: Anyone found to be breaking or circumventing the rules will be expelled from the Event without refund. Anyone expelled from the Event may be prohibited from returning to future events held by NSXCA / TRCA.

1.1 Acceptance of Safety Rules

By registering for this Event, as well as signing the required waivers in your registration packet, you are accepting the Event rules and any Track specific rules.

1.2 Event Conduct

Drivers and Guests are expected to conduct themselves according to the highest standards of conduct and treat each other with courtesy, dignity, and respect. This applies to all Event locations, which include, but are not necessarily limited to the racetrack facility, banquet hall, and hotel. It is the policy of NSXCA / TRCA that harassment of any type is unacceptable conduct. For purposes of this policy, "harassment" is defined as unwelcome conduct, whether verbal, physical, sexual, and/or visual, that is malicious or abusive, and may include inappropriate comments or conduct based on a person's race, religion, color, gender, sexual orientation, national origin, age, disability, veteran status, or other status, including but not limited to harassment that violates federal, state, or local law. Sexual harassment, as it relates to this policy, is defined as either unwelcome sexual advance by a Driver or Guest, or other unwelcome verbal, physical, or visual conduct of a sexual nature by either a Driver or Guest when the purpose or effect of such conduct creates, in the Organizers' sole discretion, an intimidating, hostile, or offensive environment. Harassment of all types is subject to immediate discipline at the Organizers' discretion, up to and including expulsion from the Event. Anyone expelled from the Event may be prohibited from returning to future events held by NSXCA / TRCA.

1.3 Alcohol Use

While the Event provides an opportunity for friends to socialize, a ZERO TOLERANCE policy will be in effect for drunken and disorderly conduct. Our behavior at the track as well as at the banquet and hotel should reinforce our good reputation that we have built over the years with track staff and the nearby towns.

The expectation is that drivers have not been drinking for a minimum of 8 hours before the first track session. Any driver who is under the influence of alcohol/drugs, is perceived to be under the influence, or is exhibiting loss of alertness, awareness, or mental acuity will lose their driving privileges for all or part of the Event.

No drinking while the track is hot, by Drivers or Guests.

1.4 Drug Use

Drug use for recreation is strictly prohibited during the Event. Drivers or Guests found in violation of this restriction will be expelled.

1.5 Explosives

Fireworks, explosive or incendiary devices are strictly prohibited.

2 HPDE Event Rules

The HPDE Organizer, Lead Instructor, Safety Steward and/or their designate are responsible for all determinations made before or during the event.

2.1 Driver/Participant Requirements

- Be at least 18 years old
- Hold a current valid state drivers license
- Attend all required meetings: Driver's meetings, classroom sessions
- Pass a safety (tech) inspection
- Have the proper safety equipment
- Pay the Event Registration Fee
- Follow the rules set forth in this document, in addition to any rules given before or during the Event by the Event organizers
- Submit and sign the required waivers and tech inspection form before driving in the event
- Abide by any and all rules of the hosting facility/track

2.2 Driver Responsibility

As this Event is instructional, the primary focus is education and safety. Dangerous behavior on or off track will not be tolerated. Attendance at the driver's meetings and classroom sessions is mandatory. An unexcused absence will result in the loss of driving privileges. Aggressive driving, risky maneuvers, excessive off-course excursions, or discourteous driving are strictly prohibited.

Track specific: Participants may not use jacks or jack stands, nor do any refueling, nor create holes of any kind on any asphalt surface. Participants shall place wood or some other material under jacks and jack stands so as to protect the ground surface from damage. Participants may not paint any paved surface, and shall remove all trash, vehicle parts and debris. All waste fluids must be disposed of in the appropriate containers provided by the track. The cleanup of spilled fluids is very expensive, and it is expected that the track will charge NSXCA / TRCA for all damages and costs of cleanup. Any charges incurred by NSXCA / TRCA as a result of Participant's actions will be charged to the offending Participant (even after the event has concluded).

2.3 Run Groups

2.3.1 Run Group Assignments

Each driver shall be assigned to a group by the lead instructor based on their driving history, feedback from past instructors and conduct at past Expo Events (if applicable). If the group you select during registration is different from the group you are assigned, you will be contacted by the lead instructor or safety steward.

2.3.2 Changing Run Groups

If you believe you are in the wrong run group during the Event, please contact the Lead Instructor or Safety Steward.

If you are in advanced and would like an instructor, please contact the Lead Instructor or Safety Steward.

The Lead Instructor and Safety Steward reserve the right to change group and instructor assignments based on instructor and student feedback, other driver feedback, as well as feedback from track staff.

****Signing off Students***

Instructors - if you wish to sign off your student, please contact the Lead Instructor, Bruce McPherson. Sign offs should be taken seriously. The requirements for a sign off will be discussed at the instructor meeting before the first track session. Novices should be receiving instruction for most if not all of the Event. Following an instructor sign off request, a check ride with a designated instructor may be required. If a signed off driver has an incident on track (spin, off, etc), an instructor will be required to go out with them for at least one session. Sign Offs are REQUIRED to allow a student on track without an instructor.

2.4 On-Track Conduct

All on-track rules must be followed. Track rules will be discussed at the morning driver's meeting.

2.4.1 Track Knowledge

All drivers' must show an understanding of the following items. If you do not show an understanding to any of these items, you will be black flagged to discuss with Grid Staff and/or the Lead Instructor and Safety Steward.

2.4.1.1 Track Flags

Paying attention and following the flags

*See Amendment I for Flag Identification Chart

2.4.1.2 Speeds

Proper speed on the grid and in the paddock.

If you are entering the track for your first lap, DO NOT CROSS THE BLEND LINE

2.4 On-Track Conduct (cont)

2.4.2 On Track Driving Etiquette & Safety

2.4.2.1 Passing & Passing Signals

During passing, the slower driver stays on line, while the faster driver moves off line to execute the pass. The specifics of this will be discussed at the driver's meetings.

Allow faster drivers to pass as soon as possible

Leave a safe distance when you are behind a slower driver

SLOW DOWN when giving a passing signal (remove your foot from the gas, do not use the brake unless absolutely necessary)

Passing Signals

- Fully extend your arm when giving a passing signal (ensuring that it is clearly visible)
- Driver/Passenger arms and hands may not be outside the vehicle at any time while you are on track. They must remain INSIDE the door at all times, except when giving a passing signal.
- Do not under any circumstance pass without receiving a passing signal
- A passing signal must be given for EACH separate car that you intend to let by
- The passing flag from a corner worker is not a passing signal

2.4.2.2 Spinning & Going Off Track

Spinning (subsequently going off track) creates a dangerous situation on track. Spinning and/or going off track usually indicates that you are driving too fast or are not in full control of the car.

If you go off track with all four wheels, or a majority of your car is off track, or you spin but remain on track, you will be black flagged. You must report to the grid staff, and your car will then be inspected underneath for grass/etc. Also, you will be visited by the Lead Instructor, Safety Steward, or Grid Staff to discuss the incident.

If you have two offs/spins in a day, you may be asked to sit out a session or the rest of the day, depending on the circumstances and severity of the spin/off. The decision to suspend your driving privileges for a period of time or the entire Event is entirely up to the Lead Instructor and Safety Steward.

**In some situations, it is best to let the car go straight off track or allow the car to spin, rather than fight the car and possibly create a more dangerous situation. If you find yourself in an uncontrollable situation put 'both feet in' (clutch and brake) and attempt to drive the car straight off the track and stop as safely as possible.*

2.4.2.3 On Track Emergency

Do not exit the vehicle on track at any time unless instructed to do so by track staff, or if your car is on fire.

2.4.2.3 On Track Emergency (cont)

If you notice something is wrong with your car while on track, pull off track in a safe and predictable manner and move slowly towards a flag station.

2.5 Driving Other Vehicles on Track

A driver may only drive the car they registered for the Event, unless approval is obtained from the owner of the car, and the Event Organizer, Lead Instructor, or Safety Steward.

* Unless the two parties have a separate agreement, the terms of the General Release and Waiver of Liability for the Event shall govern and restrict the owner's claims for any and all injuries and damages which are caused by negligence, whether active, passive, ordinary, or gross, or otherwise, by the driver of the owner's car.

2.6 Passengers

The ability to take a passenger on track is a revocable privilege, not a right.

Novice and Intermediate drivers are not allowed to have passengers. Advanced and Instructor drivers may take passengers without special permission. Any passenger/guest who is going on track must sign a waiver, wear a helmet, have a wristband, and must abide by these rules.

2.7 Other

Item in the vehicle not permanently affixed must be removed prior to going on track. You must demonstrate that any device that will be attached (i.e. action camera) to the car (inside or out) is secured properly. Any device secured to the outside of the car will also be checked by Grid Staff prior to each session.

3 Vehicle Tech Information

Proper vehicle set up & preparation is crucial to a safe event for all involved. The responsibility of ensuring that the vehicle is safe and in proper mechanical condition to participate in the Event falls exclusively upon the driver.

3.1 Vehicle Condition

It is the sole responsibility of the driver to ensure the vehicle they are driving is in perfect working condition.

Sample List of items/issues to check for prior to on-site tech inspection:

- Corded tires, or tires rubbing on suspension arms/fenders
- Loose/missing lug nuts
- Loosing/missing lug studs
- Floor mats not removed loose items in the car or glovebox
- Hood pins not secured or installed properly (if applicable)
- Brake lights not working
- Excessive play in the brake or clutch pedal
- Loose throttle cable

Sample List of items/issues to check for prior to on-site tech inspection (cont):

- Play in the steering wheel
- Loose bolts - please torque ALL bolts to spec before going through tech
- Warped or cracked rotors
- Loose/bad wheel bearings
- Fluid leaks of any kind (windshield washer fluid, oil, coolant, brake fluid, power steering fluid)
- Brake pad thickness less than the recommended minimum thickness
- Loose body panels/wings
- Loose objects in the car
- Loose dipstick tube
- High or low oil pressure, high coolant/water temperature
- Check engine lights (All CELs must be investigated and resolved in order to pass tech - other than a CEL due to a bad catalytic converter or use of a test pipe)
- Engine / Rod knocking
- Frayed belts
- Loose/missing gas cap
- Excessive valve train noise
- Surging idle
- Battery not tied down properly, including red cover on positive terminal
- Exposed wiring
- ECU not properly secured
- Low tire pressure
- Low oil levels
- Noise level (if the track has a Decibel limit)
- Lack of exhaust - Running open header at this Event is not allowed. You must have an exhaust or at minimum, a b-pipe with a turn down.

These are just some of the item that need to be checked prior to NSXPO / TYPE R EXPO. Please see Amendment II for a complete checklist in the HPDE Tech Inspection Form

3.2 Tech Inspection

You will receive a HPDE Tech Inspection Form/Checklist. Please take this form to a certified technician/authorized repair facility and have you vehicle inspected. Bring the completed form to registration.

* Please see Amendment II for a copy of the HPDE Tech Inspection Form

3.2 Tech Inspection (cont)

3.2.1 Failure to pass On-Site Tech Inspection

Please ensure that you bring adequate tools, as well as extra fluids, pads, and spare parts. This is recommended for any track event, and will help ensure that you maximize your track time.

If you cannot pass tech, you will not be able to drive on track. Complying with the safety rules and ensuring your car is in good mechanical condition will ensure that you pass tech. There are no exceptions for passing tech.

3.3 Novice Tire Rule

No R Compound Slicks (example: Hoosier racing slicks) are allowed unless approved by the Lead Instructor and safety steward. If you are planning to use an R Compound tire and have been assigned to Novice, or you are unsure if your tire is allowable, please contact the Lead Instructor or Safety Steward.

3.4 Vehicle (Condition) Negligence

If you knowingly have an issue with your car before or during the Event, please inform the Lead Instructor or Safety Steward as soon as possible. Do not continue to go out on track with any known issue. Doing so may result in a loss of track privileges, as well as lost track time to everyone else. Tracks can and do charge drivers for track damage - this includes but is not limited to: fluid clean up on the track surface, damage to the barriers, as well as damage to the track facility. If you are found to be knowingly tracking your car with a potentially dangerous issue, you will be asked to fix the issue before being allowed on track.

4 Safety Requirements

All safety requirements must be met in order to pass tech inspection and participate in the Event. If there are any issues or questions about these safety rules, please email Jim Cozzolino at cozman@centurylink.net.

4.1 Equivalent Protection for Driver and Instructor

All cars shall have equivalent protection (seats, belts, padding) for both driver and passenger/Instructor (Novice/Intermediate). Any Advanced or Instructor car that does not have equal protection will not be able to have any passengers.

4.2 Roll Bars/Cages, Seats, and Harnesses

4.2.1 Roll Bars and Roll Cages

4.2.1.1 Requirements

1. Vehicles (including convertibles) equipped with a roll bar or roll cage must have a fixed back (non-reclining) seats.
2. The bar/cage must be appropriately secured to the vehicle in the suggested mounting points
3. The bar/cage must be adequately padded with the correct material (SFI 45.1 Padding). The padding must be applied anywhere there is a possibility of contact between the driver/passenger and the roll bar/cage.

4.2.1.2 Specifications

1. Allowable materials for roll bars and cages
 - Seamless Alloy (4130)
 - Seamless Mild Steel (CDS Mechanical)
 - DOM
 - ERW (*NOT Recommended*)
2. Minimum tubing wall thickness and tubing diameter
 - 4130, CDS, DOM
 - i. Cars under 2500lbs - 1.500" diameter x 0.098" tube wall thickness
 - ii. Cars over 2500lbs - 1.500" x 0.120", or 1.750" x 0.095"
 - ERW (not recommended)
 - i. Cars under 2500lbs - 1.500" x 0.120"
 - ii. Cars over 2500lbs - 1.750" x 0.120"

4.2.1.3 Examples

- Autopower 4pt roll bar (Street Roll Bar, Street-Sport Roll Bar, Race Roll Bar)
- Autopower 6pt roll cage
- Kirk 4pt roll bar
- Kirk 6pt roll cage

Cusco and similar style cages are not allowed.

Please contact the Lead Instructor or Safety Steward if you have any other type of roll bar/cage, including custom.

4.2.2 Seat Requirements

- Fixed back (non-reclining) seat / race bucket
- Stock / Reclining Seat
 - i. OEM seat belts must be used in their factory configuration
 - ii. Harnesses are not allowed with stock / reclining seats without proper rollover protection and seat bracing.
- All seats must be securely fastened to the structure of the car.

4.2.3 Harness Requirements

4.2.3.1 Requirements

- Harnesses must be used with a fixed back seat and a roll bar or cage.
- Only 5 or 6 point harness are allowed. 4 point harnesses are NOT allowed.
- Shoulder belts must be 3" unless used with a head and neck restraint.
- Harnesses must be in working condition without frays or tears.
- The release mechanism must be in working condition.

4.2.3.2 Mounting

Per the Schroth Harness Mounting Instructions , please ensure that the snap hooks on the harness belts are correctly clipped to the eye bolts with the latch towards the bottom, and we suggest that they are secured with safety wire or a cotter pin . (See Schroth harness mounting instructions, page 2, Lap Belt Column, fifth item)

https://www.schrothracing.com/docs/Schroth_Installation_Checklist.pdf

4.3 Clothing and Helmet

- Helmet: A proper fitting SA 2010/2015 is required
- Clothing:
 - Non-synthetic fabric clothing (i.e. Cotton)
 - Pants
 - Socks
 - Closed Toe Shoes

4.4 Windows

Windows must be down while you are on track at all times.

5 Convertibles

5.1 Requirements

1. Convertibles must have rollover protection either fixed factory rollover protection or an aftermarket roll bar, which must meet the criteria in subsection 4.2.1 Roll Bars and Roll Cages.

Convertibles with factory rollover protection (using stock seats and belts) are allowed, however an additional waiver must be signed that acknowledges that the driver assumes and understands the risk associated with relying on the factory rollover protection in lieu of accepted HPDE safety standards for convertibles.

2. Convertibles with “Pop up rollover protection” require an aftermarket roll bar, which must meet the criteria in subsection 4.2.1 Roll Bars and Roll Cages.
3. ALL convertibles must pass the broomstick test with 2” clearance. The driver and passenger must have their helmet on during the test.

The top of the driver/passenger helmet must be below the top of all bars of the halo in a roll cage. For a roll bar, the broomstick stick may be used as a guide to determine if the driver/passenger are properly protected. If this is an issue, please contact the Lead Instructor or Safety Steward before the Event. In the event that the instructor assigned does not meet this requirement, a new instructor will be given to the driver.

4. Convertibles with fixed back seats, 5 or 6 point harnesses, roll bar and/or roll cage must comply with all the rules in subsection 4.2 Roll Bars/Cages, Seats, and Harnesses.

5.2 Other

- Removable hardtop cars are considered Convertibles and must abide by the above rules.
- A roll bar is REQUIRED for the Mazda Miata.

If an instructor is not comfortable with the convertible's safety equipment, they reserve the right to request another student/car to instruct. The Lead Instructor and Safety Steward will attempt to swap instructors in this situation.

AMENDMENT I

Flags

Green: Displayed only at the start finish line and indicates that the track is open for passing.

Yellow:

- **Stationary:** Caution, slow down. There is a potentially dangerous condition off-track. No passing until the next corner stations that is not displaying a yellow flag. This is also used for the first lap to indicate no passing allowed.
- **Single Waving:** Slow down and be prepared to stop. There is a serious condition on the track. No passing until the next corner stations that is not displaying a yellow flag.
- **Double Waving:** Two flags waved simultaneously denotes a hazard that wholly or partly blocks the track. Be prepared to stop.

Red / Yellow Striped: Debris flag indicates a potential hazard on track including oil, coolant, dirt, sand, etc.

Red: The solid red flag indicates conditions are too unsafe to continue the session. You must bring your vehicle to a safe stop, do not slam on your brakes, within sight of an occupied corner station. You should park your vehicle towards one side of the track such that any emergency vehicles can easily get by. Do not get out of your vehicle. When instructed by the corner workers, proceed directly and slowly to pit lane, often times during a standing black flag.

Black: Do not ignore this flag. If you see this flag pointed it at you, you must report to pit lane at the end of the lap. If all corner stations have a standing black flag, all drivers must slowly return to the pits.

Blue / Yellow: This is the passing flag. If it's pointed at you, please check your mirrors. There's a faster car behind you. Passing is only allowed in the approved passing zones, and each car requires point-by.

Black / Orange Circle: Sometimes known as the meatball flag. This is to let you know that your vehicle appears to have a problem. You should report to the pits safely and immediately.

Checkered: The session is over, and you should complete your cool down lap and return to the pits. It is good practice to slow down to allow your engine, brakes, and tires cool off.

AMENDMENT II

2018 NSXPO / TYPE R EXPO Official Vehicle Tech Inspection Form

About this Form

High Performance Drivers' Education (HPDE) Events are very demanding on vehicles. To ensure a safe & enjoyable event for all involved, it is important that all vehicles be in proper working order. This form is a checklist of items that must be in compliance prior to being allowed on Thunderhill.

All Drivers

Please take this form to your preferred auto service center, and/or certified technician to complete prior to NSXPO / TYPE R EXPO.

If you have any questions regarding this form, or the requirements to pass this inspection, please contact the HPDE Coordinators, Jim Cozzolino at cozman@centurylink.net or Jay Haire at jay@typerexpo.com.

Please be mindful of your fellow drivers and have the form completed prior to NSXPO / TYPE R EXPO.

Additional information regarding the safety & tech inspection is in the NSXPO / TYPE R EXPO Rules & Regulation PDF.

PLEASE NOTE: Each driver must submit their own tech inspection form, even if multiple drivers are using the same car.

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Official Vehicle Tech Inspection Form

DRIVER & VEHICLE INFORMATION

Driver Name: _____

Vehicle Info (Year, Make, Model): _____

Color: _____

Braking system:

- fluid is clear, reservoir is full
- master cylinder - no leaking fluid or corrosion
- calipers - no leaks
- brake pedal is firm
- rotors show no signs of cracks, discoloration or unusual wear
- pads are less than half worn
- all brake lights are working

Suspension & Steering systems:

- wheel bearings are tightened to specification
- minimal play in steering linkage
- shocks - no leaks
- bushings & pivot points show no signs of deterioration
- wheels are not bent or cracked
- lugs are tightened to specifications
- tires are appropriate size, type & speed rating for car
- adequate tread remains to complete the event

Drivetrain:

- engine supports show no signs of cracks & are secure
- hoses are smooth, tight & firm
- belts are snug & have no cracks or fraying
- coolant system is full
- throttle linkage cables & cranks are functioning smoothly
- battery is secured appropriately, including red cover
- throttle return springs are working properly
- all wiring is properly harnessed
- clutch functions smoothly without slipping

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Official Vehicle Tech Inspection Form

Drivetrain (continued):

- axles have no excessive play
- transmission has no leaks and shifts properly
- exhaust is functioning properly
- CV joints have boots in place with no leakage and make no noise
- there are no fluid leaks: oil, coolant, or transmission fluid leaks

Driver & Instructor safety:

- original DOT belts are in good condition for vehicles without approved roll-over protection & stock-type seats
- a 5 or 6 point harness system in good condition is employed for cars with non-OEM roll-over protection & approved fixed back seats (see safety rules for additional information)
- Seat belts, harnesses, seats, & roll bars/cages are properly secured
- Driver & Passenger seating & restraint systems are identical in design/safety
- If 5 or 6 point harnesses are used, they are not frayed or damaged
- if an optional fire extinguisher is installed, it is mounted securely
- roll bar / cage is in place for open roof cars (roadsters/convertibles/etc), or the vehicle is acceptable based upon the factory provided roll-over protection

Other:

- windshield has no cracks
- windshield wipers function properly
- left side & rear view mirrors are secure
- optional pedal covers are secure
- center caps are removed from wheels
- body panels are secure
- grounds are secure / attached
- wing/spoiler is secure

Any special considerations or items not listed above:

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Official Vehicle Tech Inspection Form

Inspected by licensed mechanic or authorized service facility:

Title:

Release:

Driver: *By signing this form, I, the understated, understand that I am solely responsible for the condition & suitability of this vehicle for use in this event. I release NSXCA / TRCA, the event organizers, tech inspectors, & track staff /management from any liability arising from a failure of this vehicle for any reason, including the failure of the items listed on this inspection form.*

Date:

Printed Name:

Signature:
