

# Northern Speed 2020

## Time Attack Rules

### **General:**

Northern Speed is a Time Attack racing series based in Ontario, Canada. The Time Attack events are not pure track days or wheel to wheel racing. The aim of the competitors is to achieve the fastest lap time.

Northern Speed is committed to providing a safe, fun, competitive and entertaining Time Attack race for all drivers and spectators. The event is open to all makes and models, classes are determined by the level of performance and modifications of the vehicle itself. The five classes will be Super TA, Unlimited Production, Limited Production, Clubsport and Street.

Although the event is competitive, safety is always the priority for any track activity. The rules of the event are simple and clear, ensuring that any experience level of driver is entertained and that the event can proceed in an organized fashion.

Track Battle (wheels to wheels racing) as a special part of the event will be directly adjusted and planned by the field staff, these rules are only for guidance.

In order to compete in a Northern Speed Time Attack event, entrants must submit an approved official entry form and payment. Official entry forms and the payment method will be available on the Northern Speed website and WeChat account. Pre-Registration will close 3 days before the event start. All remaining spots will be available as first come first served on event day. Time-Attack racers must be pre-registered.

## **Time Attack Basic:**

7 laps in total, 1 for cool down 1 for warm up, all for timing.

5 Groups for Super TA, Unlimited Production, Limited Production, Clubsport and Street.

No tires brand regulations.

You can pass on the straight line, if a block occurs during the race and significantly affect the result, we will extend the lap until we believe the lap time is valid and wave the checker flag.

Your results will be recorded by our on-site timing system,

## Tech Rules:

*Brake lights must be operational in all classes.*

*Two 45cm x 45 cm door cards, banners, top sponsors stickers and Northern Speed Time Attack logo must be shown on the car which races in the event.*

## Super TA:

The SUPER TA class is for the top-level time attack cars like Northern Speed Integra Type R and Lyfe GTR. This provides a competitive class for any 4 wheeled vehicles.

1. All modifications are unrestricted
2. Any vehicles must pass safety check by NSTA staff including rollover, fire suppression, etc.
3. Open wheel vehicles may or may not be allowed join in this class due to competition reason.

## Unlimited Production:

The Unlimited Production class is for the production super cars that cannot fit into any other class or heavily modified time attack race car which cannot fit into the limited class.

1. All modifications are unrestricted
2. Any vehicles must pass safety check by NSTA staff including rollover, fire suppression, etc.
3. Open wheel vehicles may or may not be allowed join in this class due to competition reason.

## Limited Class:

The limited class is designed for extreme modifications with a limited framework. Compare to lower class like CLUBSPORT, this class is more like track focused modified road cars, exotics and underpowered race cars production version like 911GT3 or Huracan Performante.

## Chassis/Aero

1. Flat bottom floors are prohibited unless come with OEM.
2. Rear wing type, size and design is free.
3. Front splitter may not extend past the front axle line.
4. Rear diffuser may not extend forward of the rear axle line. May not extend more than 20cm rearward of the body work. May not extend sideways outside the rear wheels.
5. Race seats and seat belts are mandatory, must be SFI or FIA approved.
6. If a roll cage is installed, it's not allowed to pass the firewall to attach on the mount of the suspension.
7. If firewall is modified, you must have fire suppression.
8. Active aero is welcomed.
9. No extended wheelbase.

## Engine/Drivetrain

1. All engine modifications are allowed but must use gas power.
2. Power output should not exceed 700whp.
3. Fuel is up to E85.
4. No Nitrous.
5. No hybrid unless come with OEM.
6. No aftermarket sequential transmission.

## Suspension/Tires

1. All suspension works are allowed beyond tube frame related.
2. No limit on tire manufacturer and compounds, it can be any tires but not racing slicks.
3. Tire width is unlimited for RWD cars, 295 for FWD and AWD.
4. No racing slicks.

## **Interior/Misc.**

1. OEM glass may be removed or replaced but front and rear windshield are mandatory unless OEM come without them.
2. Interior trim may be removed but dashboard must remain in original position. It may be modified to accommodate roll cages, data systems, etc.
3. A 6-point roll cage with side impact production is recommended.
4. Helmet is mandatory. HANS, suit, shoes and gloves are highly recommended. At least one fire extinguisher should be securely fastened for fire situation.

## Clubsport Class

The CLUBSPORT class is designed for vehicles with limited modifications and factory sports car like BMW M4, Porsche Cayman or any V8 naturally aspirated car. All cars in this class should be based on a production streetcar which is road legal.

## Chassis/Aero

1. Flat bottom floors are prohibited unless come with OEM.
2. All OEM aero devices and factory aero devices like BMW M Performance are allowed but you need prove it come from OEM.
3. Vehicles are only allowed to run two significant aero modifications at the rear and one at the front like rear wing + diffuser + splitter.
4. All aero must NOT exceed 15cm of body work, rear wings must NOT wider than side mirrors.
5. Up to 4 canards at the front for extra aero works but not protrude more than 15cm of body.
6. Rear wing cannot higher than the top mount of OEM chassis height.
7. Race seats and seat belts are mandatory, must be SFI or FIA approved.
8. If a roll cage is installed, it's not allowed to pass the firewall to attach on the mount of the suspension.
9. If firewall is modified, you must have fire suppression.
10. Active aero is welcomed.
11. No extended wheelbase.
12. No tube framework.

## Engine/Drivetrain

1. Engine swaps are permitted but not supercharged or Turbo V8 (or higher).
2. Power output should not exceed 500whp.
3. Fuel is up to pump gas with addition water/meth injection/
4. No standalone ECU like Motec. Only software tuning and tuning box are allowed.
5. No aftermarket transmission.
6. No modifications to transmission itself, clutch and the flywheels can change.
7. Transmission software tuning is allowing. (Like BMW xHP)

## **Suspension/Tires**

1. Coilovers max in 2 way (1 rebound and 1 compression), remote control is welcomed.
2. Spec links for alignment has no limitation.
3. Suspension pickup points must remain OEM.
4. No limit on tire manufacturer and compounds but must be DOT approved with a minimum UTQG Rating of 60 or higher.
5. Tire width is 285 for RWD cars, 275 for FWD and 265 for AWD (avg).
6. No racing slicks.

## **Interior/Misc.**

1. No modifications to major glasses.
2. Major interior must retain, car with fully gutted interior are not permitted.
3. Car must retain full dash, climate systems and controls, lick panels door sills and door cards.
4. Helmet is mandatory. HANS, suit, shoes and gloves are highly recommended. At least one fire extinguisher should be securely fastened for fire situation.

## Street Class

The STREET class is designed for stock production vehicles with limited power. Any car with MSRP more than \$58,000 as the base version will be directly fit into CLUBSPORT Class.

You may only upgrade your brakes, springs, non-competition use Coilovers and safety related equipment like seats.

No limit on tire manufacturer and compounds but must be DOT approved with a minimum UTQG Rating of 200 or higher.

Tire width is 275 for RWD cars, 265 for FWD and 255 for AWD.