

# 2018 SCCA TIME TRIALS NATIONALS

## Unlimited Category RULES (5/16/18 Release)

### Authorized Modifications

Level four category vehicles must be based on production automobiles and bear a noticeable resemblance to their production counterparts.

Kit Cars and reproductions listed in Max Category are eligible for Unlimited Class.

There will be two classes at – Unlimited 1, and Unlimited 2. Both classes must be production-based – no purpose-built racecars (Eg. Formula cars/sports racers) or “Specials” other than approved kits/reproductions are allowed at the 2018 SCCA Time Trials Nationals. Tube-frame Grand Touring (GT), Production (P) and Prepared-class cars count as, “production based.”

### 1. Interior

A. Interior and interior components may be modified, removed and replaced with the following restrictions.

1. There must be a sealed firewall between the engine and driver.
2. All fuel system components must be sealed off from the driver.
3. All Exhaust components must be sealed off from the driver.

### 2. Bodywork

A. Bodywork and chassis components may be replaced or modified, with the following restrictions

1. Bodywork must bear a noticeable resemblance to production counterparts.
2. For CLASS 2, the stock chassis must be retained from the leading edge of the front shock towers/mounts to the trailing edge of the rear shock tower/mounts. Wheelbase must remain OEM.
3. Polycarbonate windows are allowed, with the following restrictions.
  - a. Rear, door, vent, and quarter window glass can be replaced with a clear polycarbonate material having a minimum thickness of 3mm. The windows in the rear door of a 4-door car and quarter windows can be run in their stock open or closed position. Ducts can be installed in the door, vent and quarter

windows or resultant door window openings, for the sole purpose of supplying cooling air to the driver.

**b.** If the windshield is replaced, the replacement must be of a polycarbonate material with a minimum thickness of 6mm, be identical in size and curvature to the stock glass windshield and have a minimum of three vertical inner supports to prevent the windshield from collapsing inward. Inner windshield supports must be a minimum of 0.75" by .125" straps of aluminum. The inner supports must be mounted a minimum of eight inches apart.

### **3. Tires and Wheels**

**A.** Tires and wheels may be swapped with the following restrictions.

There are no restrictions at this time.

### **4. Brakes**

**A.** Brakes may be replaced or modified with the following restrictions.

**1.** Brakes must be functional and capable of stopping the car for the entirety of any session length.

### **5. Steering and Suspension**

#### **A. Shock Absorbers**

**1.** Shocks/Struts and their components may be swapped, modified or replaced with the following restrictions.

There are no restrictions at this time.

#### **B. Suspension**

**1.** Suspension components may be swapped, modified or replaced with the following restrictions.

**a.** Components may pass through any portion of the car with the exception of exterior body. (Unless OEM)

**b.** CLASS B may not run pushrod/pullrod style suspension unless OEM.

#### **C. Anti-sway (Roll) bars**

**1.** Anti-sway (Roll bars) may be swapped, replaced or modified with the following restrictions.

There are no restrictions at this time.

## 6. Electrical

A. Electrical components may be swapped, modified or replaced with the following restrictions.

There are no restrictions at this time.

## 7. Engine & Drivetrain

A. Engines may be swapped with the following restrictions

1. Non-electric engines must be internal combustion.
2. Vehicles may not be propelled by thrust.

B. Exhaust must exit behind the driver.

## 8. Fuel

A. In addition to fuels which are allowed by SPORT and TUNER CATEGORY, UNLIMITED CATEGORY may use any grade of gasoline, or Federally-approved E85. Gasolines consist entirely of hydrocarbon compounds. Gasoline may contain antioxidants, metal deactivators, corrosion inhibitors, and lead alkyl compounds such as tetraethyl lead. Oxygen and/or nitrogen bearing additives are prohibited except for those originally present in fuel which is Federally approved for use on public highways. Oxygen and/or nitrogen bearing oil additives are prohibited in two-cycle engine oiling systems.

## 9. Safety

A. Unlimited Category vehicles must, at a minimum, have an aftermarket roll bar that meets or exceeds the standards set in the SCCA Time Trials Rules, utilize an approved and unexpired 5 or 6-point harness, an approved motorsports seat and appropriate driver safety gear as outlined in the TT Rules.

## 10. Classes

A. **Unlimited 1 (U1)** Cars which are production silhouette, but do not retain the stock chassis from front shock/strut mount to rear shock/strut mount. (Eg. GT cars)

1. U1 Minimum weight: NONE

**B. Unlimited 2 (U2)** Cars which are production silhouette and retain the stock chassis from front shock/strut mount to rear shock/strut mount.

1. U2 Minimum Weight: 2400 lbs. w/driver

## **11. Regional Classes**

**A.** If a region chooses to run under Time Trials Nationals format and classing, they are free to run whatever classes meet their needs.

**B.** Suggested Special/SportsRacer/Open Wheel Classing

1. TTS: Time Trial Special. For any open wheel, sports racer or other vehicle which doesn't fit into any other class. Cars must meet safety requirements for Hill Climb.
2. TTA: Time Trial Atlantic. SCCA Road Race legal Formula Atlantic cars, Formula B/1000 cars, P1 and P2.
3. TTW: Time Trial Winged. SCCA Legal Formula Continental/F2000, Star Formula Mazda, Formula Enterprise, Sports 2000.
4. TTN: Time Trial Non-Winged. SCCA Legal Formula F, Formula 500, SRF3.
5. TTV: Time Trial Volkswagen. SCCA Legal Formula Vee, Solo Vee, Formula First, SRF.