

# 2023 New London-Waterford Speedbowl Full Size Enduro Rules

Last Updated: 9/12/2023

## 1) Introduction:

Interpretations of the rules contained herein will be the sole responsibility of authorized officials of New London-Waterford Speedbowl. Their interpretations and judgments shall be final.

All equipment is subject to the approval of the New London-Waterford Speedbowl Officials.

## 2) Driver Eligibility:

Drivers 16 years old and up are eligible to compete in the New London-Waterford Speedbowl Full Size Enduro division. In order to participate in any on-track activity all cars must complete a technical & safety inspection and all drivers must be signed in with all completed paperwork on file. This includes Driver Registration Form and Number Registration Form. By registering as an owner or driver you agree to be knowledgeable and bound by the contents found in these rules and in the New London-Waterford Speedbowl General Rules.

## 3) Safety:

### Seat & Belts

An aftermarket, aluminum fabricated racing seat is suggested. Factory seat belts with shoulder harness or racing harness must be used.

### Window Net

A commercially manufactured nylon window net must be installed in the driver's side door window opening.

### Fire Suppression

A fire extinguisher or fire bottle suppression system securely mounted in the car is mandatory.

### Safety Gear

A double-layered, full fire suit made of Nomex material is mandatory. SFI rated gloves are mandatory. Full-faced SA2005 rated or newer helmets are mandatory.

## 5) Technical Rules:

In the following rules you will see the term "stock OEM" used. This means "original equipment manufacturer". These parts must come on a standard production car.

No carbon fiber or titanium parts allowed. None of the following will be allowed in or on any engine or driveline component or part: abrasive cleaning, acid dipping, chemical milling, coating, epoxying, finishing, grinding, painting, plating, polishing, porting, etc.

## **Approved Models:**

Open to most metric, 6 or 8 cylinder, 2 or 4 door, front or rear wheel drive cars. Vehicles not eligible for competition are: Taxi cabs (including any heavy duty chassis), vans or trucks, limousines (including any extended wheelbase vehicle), mid-engine or rear engine cars, El Caminos, performance Trans-Ams or Camaros, 5.0 Mustang GTs, Corvettes, all-wheel drive vehicles, turbo/superchargers, sports cars (Alfa Romeo, BMW, Mercedes, etc.)

## **Body, Appearance:**

The Vehicle Identification Number (VIN) of the car being used must be on the dashboard and clearly visible.

### Exterior

The car body must remain stock OEM and retain all factory listed dimensions, lines, and angles. Wheel openings may be trimmed for tire clearance.

All headlights, taillights, reflectors, and trim must be removed. Sun/moon roofs must be completely covered and welded with minimum 24 gauge (.024") magnetic sheet steel. All doors must be welded or chained shut. Hood latches must be removed and hood pins or chains must be used to hold the hood down.

The factory stock OEM bumpers made for the car must be used. Bumpers must be securely and mechanically fastened and safely chained. Bracing/reinforcing of the bumpers is not permitted.

### Windows

All factory glass must be removed except the windshield. The glass windshield may be replaced with 1/8" thick, clear polycarbonate and must be bolted or riveted along all four sides and supported in the center, top to bottom.

### Interior

All bolt-on components and flammable material must be removed. The steering wheel center must be padded. All air bags must be disarmed for safety purposes.

### Firewalls

The front and rear firewalls must be stock OEM. The front firewall must completely seal the driver's compartment from the engine compartment. The rear firewall must completely seal the driver's compartment from the fuel cell/trunk area. All holes in either firewall must be suitably covered with a minimum of 24 gauge (.024") magnetic sheet steel.

## **Frame & Chassis:**

A 1-3/4" diameter x .095" HREW or DOM steel tubing roll cage is recommended.

**Suspension:**

All the front & rear suspension components must be the unmodified, stock OEM components per VIN code. All mounting holes, locations, and hardware must remain stock OEM.

The only modifications of the suspension allowed: Strut towers may be slotted. The maximum camber allowance is +/-3 degrees front and +/-1 degrees rear.

Coil springs from side to side must be the same diameter, same material thickness, equal number of coils, and be within 1/2" in free height. Spring rubbers are not permitted. Leaf springs must be identical from side to side. Leaf spring shims are not permitted. Torsion bars must be identical from side to side.

Shocks and struts must be unmodified, stock OEM or direct replacement. They must match from side to side.

**Steering/Brakes:**

All steering components must be the unmodified, stock OEM components per VIN code. All mounting holes, locations, and hardware must remain stock OEM.

The fully operational stock OEM 4-wheel hydraulic disc/drum brake system must be used. All brake components must be stock OEM mounted in their stock OEM location.

**Wheels/Tires:**

Stock OEM or OEM aftermarket replacement wheels must be used.

Any DOT street legal, 65 series (sidewall profile) or numerically higher tire may be used. Tread wear must be 350 or numerically higher. Tires and wheels must be stock per the vehicle year, make, and model. Steel belted radials only. All four tires must be the same size (width, profile, and rim diameter).

**Engine/Drivetrain:**

The engine, drivetrain, and all of their components must remain unmodified and completely stock OEM per VIN code. The engine must be the one that either comes with, or is available in, that vehicle's year, make, and model. Modifications or machining to any part of the engine components are not permitted. The stock OEM compression ratio must be maintained for the vehicle make, model, and year.

The stock OEM air filter housing with a paper filter must be used. Cold air boxes or any other aftermarket component are not permitted.

Water and "water wetter" brand additives are the only coolants allowed. A one gallon overflow can mounted under the hood must be used.

The pulleys, alternator, starter, ignition system, computer chip, and engine management controls must remain unmodified and completely stock OEM per VIN code.

#### Driveshafts

Two, 360 degree, solid steel brackets, no less than 2" wide and 1/4" thick, must be placed around the driveshaft within 6" of the universal joints, and securely fastened to the floor/frame/cage. All driveshafts must be painted white.

#### Battery

The battery may be moved to the heater core area of the firewall or behind the driver's seat. If relocated, the battery must be encased in a metal or plastic marine box and secured appropriately.

#### **Exhaust:**

The unmodified, stock OEM cast exhaust manifold or OEM factory headers must be used. Exhaust system must extend rearward past the driver. An unmodified, stock OEM muffler must be used.

#### **Fuel System:**

Pump gas must be used, no racing fuel. The use of additives, catalysts, or fuel-altering devices are not permitted.

A fuel cell, securely mounted in the trunk is recommended.