

2024 SMACKTOBERFEST OPEN MINI STOCK RULES

2024 NLWS Open Mini Stock Competition and Tech Contacts:

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INTRODUCTION

The Open Mini Stock Division exists to give competitors that compete away from the New London Waterford Speedbowl the ability to race with other Mini Stock type cars from area tracks. This division and the below rules are in effect for all Open Mini Stock Division Events as well as the North East Street Stock Championship which is held at the end of the season. This division earns points along with a championship throughout the season ending with the Final Weekly Points Event held for NLWS Weekly Racing.

GENERAL RULES

1) Preface

The intent of the New London Waterford Speedbowl general and divisional rules is to foster a safe and orderly environment for competitive motorsports and entertainment. The knowledge of, and adherence to, these rules is ultimately the participant's responsibility. No expressed or implied warranty of safety shall result from the publication of, or compliance with, these rules. There is no way a guarantee against injury or death to participants, spectators, officials, or any other individual involved.

2) Interpretation and Amendment

- a) 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.
- b) These rules may only be amended by the Race Director or an authorized officer of New London Waterford Speedbowl. This amendment will be posted on the New London Waterford Speedbowl website, www.speedbowlct.com, and may be sent out via email to all registered teams. An amendment is effective upon the date of publication by New London Waterford Speedbowl regardless of when a participant receives actual notice.

3) Safety

- a) Competitors are solely and directly responsible for the safety of their race cars and racing equipment and are obligated to perform their duties (whether as a car owner driver or crew members) in a manner designed to minimize to the degree possible the risk of injury to themselves and others

4) Driver Eligibility

- a) Drivers 14 years old and up are eligible to compete in the New London Waterford Speedbowl Open Mini Stock Division.

5) Driver Safety

- a) A full fire suit made of double-layered, Nomex material, clean and in good condition is mandatory. Fire retardant gloves and shoes are mandatory and must be worn during all on-track activities. All safety equipment must be SFI rated.
 - b) All safety equipment (gloves, helmets, seats, etc.) must be approved by New London Waterford Speedbowl Officials.
 - c) SA2005 or newer rated helmets are mandatory for all motor vehicle events. Full-face helmets are mandatory.
 - d) All cars must have a battery cutoff switch on the driver's right side crossbar or in the dash board area. It must be within reach of the driver and be accessible to safety crews from both the left and right sides.
 - e) An aluminum racing seat is mandatory. The driver's seat must appear as close to stock position as possible and must be securely bolted to the roll cage and frame members and not to floorboards.
 - f) Seat belts must be a minimum five-point, two (2.0) inch wide system with a metal-to-metal central quick release latch. All five (5) points must be securely mounted by manufacturer's specifications and must be approved by New London Waterford Speedbowl Officials. Belts must be no older than three (3) years from the date of manufacture or no older than the date of expiration and be SFI certified. Belts with visible wear and/or tears will not be permitted.
 - g) A head and neck restraint system (i.e. HANS, Hutchens, or similar) is mandatory.
 - h) Smoking is not allowed in the racecar, inspection area, in any buildings, or near the Sunoco fuel station.
- 6) All Owners, Drivers, and Team members must familiarize themselves with the current year NLWS General Rule Book. Most if not all items contained in there will apply to this division unless otherwise noted here.

COMPETING MODELS:

1977 thru present mass produced 4 cylinder passenger cars, 2 or 4 door models allowed. No convertibles, mini vans, or trucks. No rear, mid, rotary, or opposed engines allowed. No AWD, AWD conversions, or 4x4 models permitted. Preapproval of any questionable make/model required.

FRAMES/UNIBODY, BODY:

NO TUBE FRAMES. Must be a stock as manufactured frame and body. Body panels may be replaced but must represent make and model of the car as manufactured. Fiberglass and aluminum panels are allowed.

Window, Lexan windows may be used. Quarter, and rear windows allowed but not required. Door windows are not permitted

Spoilers: maximum 58" X 5". MUST be placed aft of trunk lid or aft of rear window base. May be constructed of lexan, steel, or aluminum. Stock spoilers allowed. Metal spoilers must be made from three separate pieces with none of the three exceeding 20 inches in length. Spoilers WILL NOT extend beyond width of the decklid.

Roll Cage: Main cage must be constructed using a minimum pipe size of 1.5" X .095. Frame tubing must be minimum 2"x2"x.125.

Main cage is defined as "any area between the factory firewalls". Drivers door bars must be plated (18 gauge minimum) or covered (.250 minimum) to reduce the risk of driver injury. Drivers side ear bar is mandatory, attached to the top drivers door bar and roof bar.

Fuel Cell: Mandatory Fuel Cell must be enclosed in a steel container. Fuel cell must have a rear crash bar in case of accident. Fuel cell must have fire wall mounted in between the cell and driver.

Lead weight may be added to achieve percentages and overall weight.

Minimum ride height for chassis and all body panels, bumper covers is 5" inches.

BASE WEIGHTS POST RACE:

All race cars with 1.7 liter or greater will weigh a minimum of 2200 lbs with a 55% maximum left side weight. All race cars with 1.6 liter and smaller will weigh 2150 lbs with 55% left side. Ford 2.5 will weigh 2300 lbs and 55% Left Side. All VVT equipped cars will add 150 lbs. Lead weight may be added to achieve percentages and overall weight. All lead weight must be painted white and numbered for the car and securely fastened. All added weight must make 4 inch ride height.

SUSPENSION, BRAKES, AND SHOCKS:

A. Shocks: OEM or stock replacement shocks and struts only, Bilsteins Allowed. No racing, or adjustable shocks/struts allowed. No performance or threaded body shocks/struts allowed. Non-damping adjustable Coilover Kits are allowed, no damping adjustment provisions are permitted on any make or model. Maximum 1 shock/strut per wheel, 4 total per car. Coil-over sleeve kits allowed. Sleeve kit must attach to unaltered DOT/OEM replacement shock. Weight jacks and adjustable spring cups are legal. Adjustable strut plates are allowed.

B. Ride Height: All cars must meet a 5 inch suspension ride height. Ride height will be measured at factory floorboard next to unibody. If floorboards are not in stock location the lowest point of the frame rail will be 4 inches.

C. Springs: Racing springs allowed. Any Diameter, any height is permitted.

D. Tread Width: Maximum tread width 72 inches measured from bead to bead. Bead is defined as the outside lip of the wheel used.

E. Sway Bars: Any size sway bars can be used, front or rear. Sway bar does not need to be factory for make and model used.

F. Bolt-Ons: All suspension parts (a-frames, spindles, hubs, etc) must be unaltered OEM. Mustang may use QA1 K-Member.

G. Brakes: Four wheel brakes must be in working order. Brakes must be OEM or OEM replacement type. No exotic, aftermarket or racing brakes allowed. Cars can be converted to rear disk brakes using factory materials, factory materials can be used from ANY make and model. Aftermarket brake pedal assemblies with bias control are permitted.

H. Control Arms: Rear control arms may be fabricated from heim joints and radius rods. RWD may have a ¼" adjustment plus or minus stock length.

I. Modified Upper Control Arms: On cars where no factory camber adjustment is given cars may be allowed to modify factory upper control arms.

WHEELS AND TIRES:

A. Wheels: 7 or 8 inch wide wheels with any production offset may be used. 13 and 14 inch wheels only. No mixing of rim diameter or width on car. Spacers may be used. NO homemade or altered wheels will be allowed. Racing wheels are required. Steel only. 1 inch lug nuts are highly recommended on all four wheels.

B. The size is 23.0 x 7.0 x 13.0 or 23.5 x 7.0 x 13.0. Both tires must be 800 compound. If a tire cannot be identified, it will be considered illegal.

C. NLWS Officials may confiscate and/or impound tires at any time for inspection.

ENGINE:

A. 4 cylinder naturally aspirated engines only No turbochargers, superchargers, or nitrous oxide injection. All VVT equipped cars will add 150 lbs. All cars with a variable valve timing system will be required to use make specific engines. Cylinder head and block must match. No mixing of VVT engines, heads or blocks.

B. Block: Block must be stock for make. 2540cc maximum displacement. (Actual displacement, not advertised engine size will determine the minimum car weight) Maximum overbore .060. Compression ratio may not exceed 12:1. No stroking/destroking of engine.

C. Heads: Milling of head is allowed. No porting or polishing of any kind. The cylinder head must be stock for make. The combustion chamber must not be modified at all. Ford 2.3 will be allowed to use Race Engineering Cast Iron replacement head.

D. Camshafts: Camshafts 16v max lift .470, 8v max lift .550 at the valve, flat tappet or FACTORY roller style valve train. Valve train must match make, model, and year of engine declared. Lift is measured at the outermost portion of valve retainer.

E. Carburetor: Waterford Speedbowl Gauge Legal Holley 350 two-barrel carburetor (part number: 0-7448, or Keith Dorton part number: 0-80787-1) are the only carburetors allowed. The carburetor must be stock and unaltered. Choke plate MUST be removed to allow inspection. 1" spacer or adapter between intake and carb allowed.

F. Fuel Injection: Fuel Injection is allowed. Any size fuel injectors may be used. 62mm maximum size throttle body may be used for fuel injection.

G. Intake manifold: No porting or polishing of any kind. MUST use a stock intake manifold for make and engine used.

H. Exhaust: Headers will be allowed; 2.5" maximum exhaust pipe diameter before and after muffler. All cars will be required to run a muffler.

I. Fuel: Racing gasoline or passenger car pump gasoline are the only types allowed.