



MINI MOD RULES

Last Updated: February 23rd, 2022

RULE BOOK DISCLAIMER

The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all events and by participating in these events, all participants are deemed to have complied with these rules. No expressed or implied warranty of safety shall result from publications of or compliance with these rules and/or regulations. They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to participant, spectator or official. The tech director shall be empowered to permit minor deviations from any of the specifications herein or impose any further restrictions that in his/her opinion does not meet the minimum acceptable requirements. No expressed or implied warranty of safety shall result from such alterations or specifications. Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final. It is the responsibility of the competitor to obtain and become familiar with the current rules pertaining to the division in which he/she chooses to participate.

SOUTHERN ONTARIO MOTOR SPEEDWAY reserves the right to alter or amend these rules at any time in the interests of safety, cost control or fair competition. The Safety of each race car and all equipment is the complete

responsibility of the driver/owner, and the driver/owner acknowledges this responsibility by participating in any racing activity at SOUTHERN ONTARIO MOTOR SPEEDWAY.

1.0 - ENGINE SPECIFICATIONS

1.1 - POSITION OF ENGINE

1.1.1-Engine must be mounted in the center of the frame rail and the crank centerline to ground must measure a min of 9 inches or higher, from ground +/- 1" Min.

1.1.2- Must measure a min of 74" from the center of axle housing to the back of the engine block where the engine bolts to the bell housing.

1.2 - ENGINE MAKE

1.2.1- MUST BE 2.3L FORD. No fuel injection, turbocharged, or twin cams.

1.3 - CAMSHAFT AND LIFTER

1.3.1- Flat tappet solid or hydraulic. Any lift permitted. NO ROLLER CAMS PERMITTED.

1.4 - INTERNAL SPECIFICATIONS

1.4.1- .060in maximum overbore allowed. (3.781).

1.4.2- OEM 2.3L Ford Crank. Stroke (3.126in) No Lightening.

1.4.3- OEM 2.3L Rods Only. Length(5.2in) OR 2.3/2.5 Racer Walsh K1 5.2” Rods RWA1671B. Three pistons and rods are allowed to be balanced to the fourth. No other modifications or adjustments are allowed.

1.4.4- Must retain (.000) deck height.

1.4.5- Any Flat top piston is allowed. Aftermarket Piston allowed.

1.4.6- All rings must be above the wrist pin.

1.5 - CYLINDER HEADS

1.5.1 - OEM single plug per cylinder, 2.3L heads only. Must be 2 valves per cylinder only. No forklift dual plug heads with undrilled plug hole permitted as a single plug head.

1.5.2 - No sandblasting, bead blasting, acid dipping, porting, port matching, gasket matching, polishing, welding, or epoxy. (except for water jackets, the intake may be welded.)

1.5.3 - No relieving or unshrouding of the valves in the combustion chamber. No hand grinding, sanding, blending or deburring.

1.5.4 - Stock Valves and aftermarket valves allowed as long as the valve stem is 11/32” diameter.

1.5.5 - Valve head sizes to remain stock diameter

1.5.6 - Valves must be steel or stainless (no lightweight material allowed).

1.5.7 - Valve stem may be undercut at the valve head by .020” max. X 1.00” up the stem.

1.5.8 - Flat milling is allowed. (NO LIMIT)

1.5.9 - Camshaft tower straps are allowed.

All cylinder heads must remain in factory condition with no modifications except for flat milling, tower strapping and lifter boss modifications for solid lifters . Inspection will be conducted with the head on the engine, but the method of checking may require the removal of the intake and exhaust manifolds.

YOU MAY BE ASKED TO REMOVE YOUR HEAD FOR FURTHER INSPECTION IF THE TECH DIRECTOR BELIEVES FURTHER INVESTIGATION IS REQUIRED. .

1.6 - CARBURETOR

1.6.1- Any unaltered stock automotive 2 barrel.

1.6.2 - Choke parts may be removed

1.6.3 - Unaltered Aftermarket 350 CFM Holley HLYO-7448 or part # 0-80787-1. Will be permitted with a maximum 355 CFM rating on a flow bench.

1.6.4- Holley Carbs must be Gauge Legal!

1.6.5 - Tuning is allowed. (power valves, jets, pump cams, accelerator pumps, discharge nozzles)

1.6.6 - One intake spacer 1 ¼" height INCLUDING GASKETS is allowed.

1.6.7 - Use of a system to prevent pull-over is allowed with no modifications to the carb body or metering plate. (example spring in discharge nozzle needle, pullover diaphragm etc)

1.6.8 - Two (2) return springs mandatory.

1.7 - Intake Manifold

1.7.1 - Oem Carbureted or EFI lower intake manifolds only.

1.7.2 - No aftermarket intake manifolds (Esslinger. Offenhauseretc)

1.7.3 - No Marine intakes manifolds.

1.7.4 - No sandblasting, bead blasting, acid dipping, porting, port matching, gasket matching, polishing, welding, or epoxy.

1.8 - Pulley

1.8.1 - OEM or Aftermarket Racing pulleys Allowed (Crank, water pump, camshaft, tensioner, ect..)

1.9 - FUEL

1.9.1 - Pump, AV, or Race Fuel Permitted.

1.9.2 - Alcohol, Ethanol, or E85 NOT PERMITTED!

1.10 - WATER PUMP

1.10.1 - OEM water pumps only-no electric pumps.

1.11 - AIR CLEANER

1.11.1 - Air filter can extend through the hood 2" MAX.

1.11.2 - Must have an air cleaner, to act as a flame arrester.

1.12 - EXHAUST

1.12.1 - Any Exhaust Header allowed

1.12.2 - Exhaust pipes must extend straight back under car NOT out of the side of the car

1.12.3 - MUST RUN MUFFLER OR SOUND DEADENING DEVICE

1.12.4 - Crankshaft evacuation system is allowed. (EVAC)

2.0 - DRIVETRAIN SPECIFICATIONS

2.1 - TRANSMISSION

2.1.1 - OEM 4 speed or 5-speed ford transmission that naturally bolts up. No altering other transmissions to bolt to a 2.3L. No adapters

2.1.2 - All gears must remain functional Must have all forward and reverse gear

2.1.3 - No internal Lightening or switching of gears.

2.2 - FLYWHEEL ,CLUTCH, PRESSURE PLATE

2.2.1 - OEM Flywheel 18.5LBS no less.

2.2.2 - Escort Flywheel option is allowed. Min 16Lbs. (1991 -1994 Ford Escort. These use shorter flywheel bolts be aware)

2.2.3 - NO ALUMINUM FLYWHEELS OR ALUMINUM PRESSURE PLATES ALLOWED

2.2.4 - OEM Appearing pressure plate

2.2.5 - OEM Appearing spring type clutch disk.

2.3 - DRIVE SHAFT

2.3.1 - Steel drive shafts only

2.3.2 - Steel 360-degree retainer hoops must be a min. .25" (1/4") thick X 2" wide. Must be positioned within 6" of to front of drive shaft u-joints

2.3.3 - DRIVE SHAFT MUST BE PAINTED WHITE AND HAVE CAR NUMBER ON THEM

2.4 - REAR END

2.4.1 - Must be 7.5" – 8.8" inch Ford rear end only. NO 9-inch Fords allowed.

2.4.2 - No limited-slip (posi track) must be a welded differential.

3.0 - SUSPENSION SPECIFICATIONS

3.1 - SHOCKS & SPRINGS

3.1.1 - Steel Body Non-Gas Shocks, Non-Adjustable Only.

3.1.2 - Steel single rate coil springs only. no progressive or stacked springs

3.1.3 - One Shock & Spring per wheel

3.1.4 - Coil overs or weight jack systems are allowed.

3.2 - FRONT

3.2.1 - Steel upper and lower suspension arms only.

3.2.2 - Aftermarket uppers and lower control arm allowed. (late model, modified, OEM...)

3.2.3 - Must use an OEM spindle

3.2.4 - No five-bolt hubs

3.3 - REAR

3.3.1 - Three (3) link suspension only. Forward facing only

3.3.2 - No 90/10 type shocks

3.3.3 - Springs/shock brackets mounts must be solid mount to the rear end. (Not on trailing arm mounted springs/shocks)

3.3.4 - Upper 3rd link must not have a spring / multi rubber type traction device known as a pull bar. may mount no further forward than the back of the seat.

3.3.5 - Third Link Pivot Assemblies Allowed. (eg. ALL 56160, ALL 56390)

3.3.6 - All suspension components must be made of steel no trailing arm traction devices.

3.3.7 - No bird cages or any other floating type devices.

3.3.8 - No lift arms. or torque arms Forward facing upper third link only

3.3.9 - No five-bolt hubs

4.0 - ELECTRICAL SYSTEM

4.1 - DISTRIBUTOR

4.1.1 - OEM distributor only. Duraspark or TFI

4.1.2 - Aftermarket Gear Allowed

4.1.3 - Aftermarket Aux Shaft Allowed.

4.2 - IGNITION

4.2.1 - Duraspark or TFI only no HEI conversions.

4.2.2 - Aftermarket Module Allowed

4.2.3 - Aftermarket Coil Allowed

4.2.4 - Any Plug Wire Allowed

4.2.5 - The use of an MSD Soft touch # 8728 (or equivalent make) to limit engine to 7400 RPM is mandatory.. After 3 feature wins your RPM limit will be reduced by 100 RPM/feature win.

4.2.6 - 12V systems only.

A kill switch must be located within reach of the outside of the car. It must be clearly marked with a large yellow triangle. Kill switch must be separate from other switches.

4.3 - BATTERY

4.3.1 - 1 12v Battery only

4.3.2 - Must be mounted away from the driver and separated by a firewall.

4.3.3 - Must be mounted securely and in a way that will not come loose in the event of a wreck or rollover. An aftermarket mounting system such as a late model is recommended.

4.3.4 - a marine or dry cell type battery is recommended

5.0 - FUEL SYSTEMS

5.1 - F FUEL LINES

5.1.1 -Fuel lines must be of a material made for fuel. Braided line front to rear recommended NO COPPER LINES

5.1.2 - Line must be routed away from the driver and not through the driver's compartment.

5.1.3 - Lines Must be secure.

5.1.4 - Steel or racing aftermarket Filter Systems only. No cheap plastic or glass filters.

5.2 - FUEL PUMP

5.2.1 - Mechanical or electric pumps Allowed

5.2.2 - Electric pumps must have their own switch as well as an oil pressure switch that's functional in order to cut off supply in case of a rollover.

5.3 - FUEL CELL

5.3.1 - Racing fuel cell MAXIMUM 15 gallons

5.3.2 - Must be enclosed in a steel container

5.3.3. - Must be mounted securely and have two (2) 2"wide X 1.8"thick safety straps installed

5.3.4 - NO fuel cells below center rear end axle.

6.0 - CHASSIS SPECIFICATIONS

6.1 - CHASSIS

6.1.1 - Any Late model, modified, or home built tube chassis can be used.

6.1.2 - Wheel Base must be 102"-104". Both sides within .5" +/- (.5" max lead)
6.1.3- Diver must sit to the left of the drive shaft.

6.1.3 - Must have 3 bars in front of driver 6" apart – 1/2" round.

6.2 - TIRES

6.2.1 - Hoosier 13", 8" wide max. 205, 215, 235 only.

6.2.2 - Grooving and siping is allowed

6.2.3 - All tires subject to approval by tech any 13", 8" wide tire and compound may be run only if OK by tech official.

6.3 - WHEELS

6.3.1 - 13" STEEL RACING RIMS ONLY. NO aluminum wheels allowed whatsoever.

6.3.2 - 8" maximum width.

6.3.3 - NO HOMEMADE RIMS ALLOWED!!!

6.3.4 - NO MODIFICATIONS TO RIMS, OUT OF THE BOX RACE RIM ONLY.

6.3.5 -Bead locks are permitted.

6.4 - BRAKES

6.4.1 - 4 wheel hydraulic brakes are required.

6.4.2 - NO lightening or cutting or trimming of metal is permitted.

6.4.3 - All 4 brakes must function properly.

6.4.4 - Aftermarket dual cylinders are allowed.

6.4.5 - Brake adjusters are allowed in Driver's compartment of the car.

6.4.6 - NO SHUT OFF VALVES ALLOWED All 4 brakes must work at all times.

6.5 - STEERING

6.5.1 - Aftermarket steering box/rack is allowed

6.5.2 - a quick release racing steering wheel is mandatory.

6.5.3 - steering quickeners are allowed

6.5.4 - no straight steering system a min. of two (2) universal must be used on a system without a collapsible steering column

6.5.5 - A collapsible steering column is HIGHLY RECOMMENDED!!!

6.6 - Weight

6.6.1 - Mini mod must weigh 1950 lbs

6.6.2 - MAXIMUM BOLT IN WEIGHT IS 150 lbs.

6.6.3 - All added in weight must be in 25lbs. Pieces.

6.6.4 - Each weight must have 2 bolts 5/8 of an inch to hold them in which must be drilled and cotter key to secure nuts.

6.6.5 - All weights must be painted white and have car number painted on them in paint !!!

6.6.6 - No weights in the driver cockpit!!!!

6.7 - TRACK WIDTH

6.7.1 - Front track width minimum 68" to 73" maximum

6.7.2 - Rear track width – 66" minimum to 71"

7.0 - SAFETY SPECIFICATIONS

7.1 - SAFETY BELTS

7.1.1 - A current SFI approved quick release Min. 4 point belt, no less than 3" in width and 2" shoulder harness in good condition is MANDATORY

7.1.2 - MOUNTING BRACKETS must be fastened to chassis and not to body or floor.

7.1.3 - NO rotary, aviation style or types of belts are allowed!!

7.1.4 - Safety belts are not to be more than 4 years old and must have certification labels attached.

7.2 - HELMETS

7.2.1 - Helmets must be SNELL 10 or newer with approved tags and face shield must be part of the helmet.

7.2.2 - Helmets are subject to inspection at any time.

7.2.3 - Must be worn in all practices and races or while car is in motion on track.

7.3 - SAFETY SUIT

7.3.1 - AN APPROVED SFI FIRE SUIT AND SFI FIREPROOF GLOVES ARE MANDATORY!

7.3.2 - Racing shoes are HIGHLY RECOMMENDED (refer to safety procedures)

7.3.3 - Neck braces or Hans devices are HIGHLY RECOMMENDED.

7.4 - SEATS

7.4.1 - An approved oval track racing seat is Mandatory. A full containment seat is highly recommended.

7.4.2 - Side head support brace on the right side of the seat is recommended for non-containment seats

7.4.3 - No Plastic Or Fiberglass Seats

7.5 - FIRE CONTROL

7.5.1 - An approved fire extinguisher with a current validation sticker securely mounted on the right side of the car is mandatory with approval quick release recommended.

7.5.2 - Fire extinguishers with plastic heads are NOT ALLOWED!!!

7.5.3 - Fire extinguisher located at pit stall is mandatory.

7.6 - WINDOW NET

7.6.1 - Window net mandatory.

7.6.2 - Ribbon or fine mesh type only.

7.6.3 - No sprint car style nets.

SAFETY RULES WILL BE STRICTLY ENFORCED!!!

8.0 - BODIES MEASUREMENTS & BUMPERS

8.1 - BODIES

8.1.1 - SIDE PANELS, Length of side panels from “bell housing” back of block – 108”. Side panel height – must be the same from front to back

8.1.2 - ROOF, 42” to 45” length, 34” to 46” width.

8.1.3 - BODY WIDTH, Measured at the deck .60” to 65” maximum, both ends must be the same. may taper out in the center but must match end to end.

8.1.4 - NOSE - Length 38” to 42” maximum, width – 36” to 42” maximum, including front bumper.

8.1.5 - ROOF HEIGHT- 42” minimum

8.1.6 - REAR DECK HEIGHT – 32” minimum to 38” maximum

8.1.7 - WINDOW OPENING – 15” to 18” maximum and must have window net MANDATORY to fill window opening.

8.1.8 - ROOF ANGLE – 3” max rake. Measured off of the deck.

8.1.9 - REAR SPOILER - WILL BE ALLOWED 4" INCH HIGH WITH SUPPORT WEDGES 8" LONG 4" HIGH TAPERING DOWN 2 INCHES
UNLESS SAIL PANEL EXTENDS TO REAR OF CAR THEN SPOILER IS ALLOWED TO ATTACH TO SAIL

8.1.10 - Deck drop and rake from front to back no more than 5"

8.1.11 - Sail panels at the back must be 4" or even with the body panel.

8.2 - BUMPER & NERF BARS

8.2.1 - DOOR NERF BARS – left side none. Right side must extend to cover 3/4" MIN of the width of the rear tire and not to be outside the tire. Must extend to the front (parallel) to the body. Can be made with 1.25-1.75" round tubing.

8.2.2 - REAR END BUMPER – 1.5" round tubing min. Not to extend back more than 6 past back of the body.

8.2.3 - RIGHT REAR NERF BAR - must cover 3/4" of the right rear tire and angle back to the corner of the body and bumper. Tubing for right rear Nerf bar can be made of no more than 1 3/4" (round tubing).

8.2.4 - Front and rear bottom measurement 12" from the ground. The top bar at 16" from the ground.

8.2.5 - TOW HOOKS ARE MANDATORY! NO TOW HOOKS, NO RACE!

**REMEMBER IF IT DOESN'T SAY YOU CAN'T IT DOESN'T MEAN YOU
CAN!!!!**