



350 SUPERMODIFIEDS

2023 RULES – Revised Dec.15, 2022

ENGINE:

1. All teams must use a 604 Crate Motor that is used in competition must be run as manufactured by GM. **ALL** motors, to be run at 1950 lbs, must be dyno'd and sealed by RPM Seal Alliance prior to racing, if said motor fails or if tech is refused then that team will lose all points year to date and will be suspended from competition at Star for the remainder of 2023 race season. Motors will be pulled at May 6 race and Star Classic race.

2. **CARBURETOR** – 4150HP series, Part # 0-80541-1 or -2, 650 CFM 4BBL carb with no spacer, bolted directly to intake. The #0-80541-2 is the replacement for -1 which has been discontinued. 0-08541-2 is a cast aluminum body carb and is not billet. Only single, maximum .070 thick gasket allowed. **NO** vacuum leaks between intake valves and top of carburetor. **NO** alterations and or metal removal from carburetor except enlargement of idle hole in throttle plate. Jets, power valve and accelerator pump squirters may be changed. Only one 4" x 14" or less air cleaner element is allowed. No scoops or forced air induction allowed. **NO** HP series carbs.

3. **IGNITION SYSTEM** – Any battery powered ignition system which is produced for highway use is allowed. **NO** crank trigger systems, **NO** magnetos, boosters or other devices allowed. One working coil only. **NO** systems with external box allowed. Battery must be securely fastened inside the main frame rails and outside of the cockpit. Battery must have a protective cover. Teams may use MSD Circle Track RPM Control to prevent over revving.

4. **COOLING SYSTEM** – All radiators and cooling devices must be mounted in front of driver cockpit. Water is only coolant, **NO anti-freeze allowed, cars found to have anti-freeze will be fined \$250.** Cooling system must have a two quart or larger can or recovery unit located in engine compartment.

5. **EXHAUST** – All exhaust pipes on each side shall run into a common collector. Header shall be kept away from possible fuel spillage areas. All parts of exhaust must remain inside of nerf bars. Mufflers shall be welded on the end of the header pipes. As a **MINIMUM**, all cars must run **fully functional, unaltered** Schoenfeld 103535K 10" mufflers or equivalent. Highly recommended are Moroso #95051 or #95052. **NO** home made mufflers or baffle systems allowed. Proper installation are subject to final track approval. Cars without proper exhaust systems **WILL NOT** be allowed to run at anytime.

TIRES AND WHEELS

1. Tire compounds for 2023 season will be the EC84 on the RR and EC83 on the other three corners.

2. Existing tire rule will be in effect for 2023. On opening day teams will be allowed to buy 6 race tires, 4 must be run on opening night and 2 may be kept as inventory tires. You will not be given replacement tires for cut tires until inventory tires are used up. Each additional week teams may buy 2 tires. Tires must be run on day they are purchased. No race tires may be purchased before 1:00 PM on race day. Teams may also purchase practice tires to start year. New teams coming in after the third race meet has been completed will only be allowed to purchase 4 new tires and 4 practice tires to start the season. New sticker race tires must be purchased from Star. Tires purchased during year may not be run at Classic 2023. Separate tire inventory must be purchased for Classic. For outside races teams must purchase 4 tires for first race and then may buy up to 4 each additional and must purchase a minimum of two tires per outside event. Only tires purchased thru Star will be allowed for race competition at Star or Star sanctioned outside races.

3. Wheels must be steel only, max 10" wide, any offset allowed. No aluminum, magnesium or carbon fiber wheels. **NO** bead locks or screw fastening devices of any type allowed. Wheels may not be any wider than 10". Bleeder valves may be used.

4. **NO** soaking, grinding, buffing or altering of markings on tire. **NO** tire softening solutions allowed. Questionable tires will be confiscated by track officials. Teams caught with tire softener will lose all money for that race meet, points for year to date and a two race suspension.

5. Tires are available, with service, at Star Speedway from Little Webb's Tire & Fuel Sales. Bwebberjr19@gmail.com

DRIVETRAIN / CHASSIS

1. **FRONT END** – Independent front suspension is not allowed.

2. **REAR END** – Any passenger car or truck rear end may be used. Quick change, posi-traction or locked rear end may be used. A max, final drive ratio may be established if deemed necessary by track officials.

3. **DRIVESHAFT** – Driveshaft shall be made of steel, the use of aluminum mounting flanges, yokes and slip yoke are permitted. **NO** use of titanium driveshaft components are allowed. Driveshaft shall be painted white for ease of visibility should it become detached

from the car. TWO (2) driveshaft loops are required and shall be constructed of at least ¼"x 1 ½" material. Driveshaft shall be accessible for ease of final drive inspection.

4. BRAKES – All cars must have four wheel hydraulic brakes in good working order. Brake rotors must be ferrous alloy only.

5. FIREWALL – There shall be a firewall between engine compartment and the cockpit. Firewall shall be constructed of at least 20 gauge steel or aluminum and bolted or welded to the frame. Rear firewall is required in addition to fuel cell container.

6. WEIGHT – Minimum weight, immediately after feature, with driver strapped in, shall be 1950 for all cars. No fuel can be added to car at scales to make weight. **NO** bolt on weight allowed outside frame rails, all ballast must be **painted white** and **securely bolted or welded to frame**, outside drivers compartment. NO filling of nerf bars or bumpers. Max. allowable left side weight is 65% of cars total weight. Cars found to be underweight or over % will forfeit trophy, points and prize money for that event.

7. BUMPERS – Front and rear bumpers capable of supporting the weight of the car are mandatory.

8. NERF BARS – Are mandatory on both sides, minimum of 1 ¼" OD. Bars shall be constructed so tires are not beyond bar so as to prevent wheel hop. NO "battle bars" are allowed. Bars may not have anymore than three upright bars with minimum spacing of 12" between.

9. ROLL CAGE / CHASSIS – Rollcages may be constructed of mild steel, DOM steel or chromoly tubing with a min. OD of 1 ½" and a min. wall thickness of .095", rollcage shall be gusseted in all four corners. **Previously built 1 3/8" cars are grandfathered in.** NO NEW CARS BUILT FROM 1 ¼" TUBING.

1 ½" inch cars are recommended. NO sharp edges shall be left anywhere on the roll cage. Cages must be constructed with an inverted "V" or "X" type behind the drivers head. There shall be no sheet metal on the rollcage whatsoever. Padding around helmet area is mandatory.

10. FUEL / FUEL TANKS – All cars must be equipped with a fuel cell in good working order. There shall be a check valve or PCV valve located within the fuel vent line, this will be part of safety check and is MANDATORY. Fuel cell must be mounted within the main frame rails, fully enclosed in a steel container. Sunoco Race Fuel IS MANDATORY and must be purchased at the speedway, a minimum of 5 gallons per race event. No additives, oxygenators, methanol or alcohol allowed. Fuel samples may be randomly taken anytime. Samples will be pulled from our fuel tank and from competitors nightly and must be consistent with sample pulled from tank. Fuel may be mixed with non oxygenated pump gas but must still purchase nightly minimum and must still fall within acceptable color range of track fuel sample.

11. CAR DIMENSIONS / BODY – Cars shall be constructed with a min. wheelbase of 88" and a max. wheelbase of 102" The track width (measured outside lip to outside lip of wheels) on the front or rear shall be a max. of 84". Bodies shall be constructed of aluminum, steel or fiberglass. Body styles should resemble current ISMA body designs. No side panels higher than drivers shoulders are allowed, when strapped in, race ready.

12. WINGS – Max. length of nose wing shall be 34" from axle to most forward point of front bumper. Max. width of nose or canard wings will be 54" from outermost points of the wings / nose. This includes endplates and/or wicker bills on end plates. Nose or wing(s) must be a single plane surface (NO multi surface / element noses or wing(s)). Top wings shall be constructed of aluminum or steel with side panels no larger than 24" high. Wing must be no larger than 24 SF of surface area. Fixed or movable, air strut wings are allowed. Only one roof mounted wing allowed. No other wings allowed, including wing built into tail bodywork, except nose mounted canard wing(s).

13. SHOCKS – NO external canister or reservoir shocks are allowed. **Maximum price per shock shall be set at \$500 list price. If shocks are found to not be in compliance they will be confiscated.**

14. DRIVERS SEAT – Must be either steel or aluminum and provide support for both left and right side of driver. Head rest with support on both sides of helmet is required. Full containment seat is MANDATORY.

15. DRIVERS BELTS – A five point harness system is required. Belts shall be bolted to the frame. Each belt shall be fastened separately to a common quick release device. Belts must be dated no older than three years. Date tag **MUST** be visible. Complete belt assembly must be worn at all times on the track. All belts will be inspected for proper installation before being allowed to race.

16. FUEL SHUT OFF / IGNITION SWITCH – Shall be mounted within reach of driver and be clearly marked "ON" and "OFF". An ignition kill switch is mandatory and should be mounted in area of steering wheel.

17. FIRE EQUIPMENT – All drivers **MUST** wear full firesuit, gloves and full face helmet. A fire bottle with pull pin located with drivers reach when strapped in is mandatory. One nozzle must point at engine and minimum one nozzle pointing towards driver. "SEE DISCLAIMER"

18. APPAREL – Full face helmet with proper fastenings and protective eyeshield is mandatory. **NO** snowmobile helmets. It shall meet SNELL Foundation testing standards with no less than a SNELL 2015 rating. Firesuit properly fastened at the neck, wrist and ankles is

mandatory. Safety neck collar or hans type device is highly recommended. "SEE DISCLAIMER". All equipment and apparel will be checked before safety check sticker is put on car.

19. NO radios and NO mirrors allowed. A Receiver for one way communication from race control is **MANDATORY**. Available thru Little Webbs or Sean Waddell for a discounted price. A transponder, mounted 12" in front of rear axle, to body is also mandatory. Cars that do not have a transponder will not be scored and car will be only be awarded tow money, no points.

APPEARANCE

1. All cars must be neatly painted and lettered. Major body damage and paint work must be repaired by next race meet.
2. Numbers will assigned by track officials, no letters or 3 digit numbers, track may re-assign to avoid duplication. First car to register will get number in cases of duplication.
3. A contrasting, legible number must be painted min. 18" two stroke width on top surface of wing in addition to min. 8" numbers on both sides of wing, nose and rear of car. No reflective or chrome numbers on top of wing.

VIOLATIONS

1. RULES INFRACTIONS – Any car illegal will not be awarded points, trophy or money for that race. Car must be made legal before racing again.
2. Drivers are responsible for the actions of their crew members. Driver or crew members entering another teams pit and causing a disruption to the racing program may results in that team being docked points, payoff or suspension / probation.
3. A car or team getting a suspension from one track or series will also be suspended from all other participating tracks for specified time.

POST- SEASON AWARDS

In order to qualify for any post-season awards, driver must compete in 75% of events run and must be present at banquet for awards presentation.

DISCLAIMER – Any person entering the sport of auto racing must acknowledge that it is a dangerous enterprise and no responsibility assumed by Action Racing North East Inc., Star Speedway, their officials or affiliates for any loss or injury sustained as a result or in spite of following the foregoing rules and specifications. All participants agree to abide by all rules of Action Racing North East, Inc.

RPM SEAL ALLIANCE PROGRAM

These are the Approved Engine Builders for the 2021 Season

RPM Racing Engines	VT 802-524-7406
Nat's Racing Engines	MA 508-336-4142
Larry's Auto Machine	CT 860-449-9112
Redline Performance	ME 207-213-6441
MacProShop	QC 418-389-4572
LCM Race Engines	MA 978-265-2630
R.A.D Automachine	MA 413-583-4414
S&S Performance	ME 207-441-8338
Thayer Automotive	ME 207-848-5291
Nova Motorsports	MI 248-767-9560

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