



For 2024, Thunder Hill Speedway will use MN Micro Sprint Series Restricted Micro Rules\*:

\*Thunder Hill Speedway reserves the right to amend these rules if deemed necessary. Any amendment would be announced prior to implementation and would only apply to Thunder Hill Speedway.



2024 Minnesota Micro Sprint Series  
Restricted Micro Sprint Rules

- \* Restricted Micro Sprints will follow the following rules.
- \* Age. Drivers ages 8-16 may compete in the Restrictor Class. (A driver whose 16th birthday falls during the racing season will be allowed to finish the season in which they began accruing points before their birthday.
- \* 2. Roll cage. Roll cages shall be at least 1 inch .062 wall thickness, or 1 1/8-inch .065 wall thickness, or 1 1/4- inch .065 wall thickness. Roll cage shall be made of chromoly steel or equivalent material. The front section of the cage shall be no further back than the steering wheel. Roll cage shall have sufficient fore and aft bracing and strength to support the weight of the car & driver in case of an upset. Cage shall have gussets at the intersecting bars to the uprights. Bends must have at least 3-inch radius. No square or pointed corners allowed. Roll cage must be a minimum of 3 inches above the driver's helmet. It is mandatory to install a cross brace behind the seat to support the shoulder harness.
- \* 3. Electric's and Electronics. this).
- \* . On and off switches must be on dash, top of the cowl or on steering wheel. On/off switch must be connected and functional.
- \* No radio communication is allowed with the car or the driver.
- \* 4. Fuel. Class "A" 600cc powered cars may run methanol. Upper end lubricants are NOT allowed. \*NITRO products are NOT allowed.
- \* 5. Weight. 4-cylinder 600cc powered cars, minimum car and driver weight 725 lbs.
- \* 6. Suspension. Tread; Maximum 50 inches. Minimum 32 inches, center to center of tires. Wheelbase; Maximum 70 inches. Minimum 50 inches, center of front axle to center of rear axle.

Steering; Front wheels must be connected by a solid or tubular tie rod. Rear wheel drive only. All suspension bolts except wheel nuts must be secured by some type of locking device.

\* 7. Shocks. Any shock absorber legal, except no cockpit adjustable shocks.

\* 8. Tires and Wheels. All cars; Any wheel size and tire combination may be used, but tires may not exceed 22 1/2 inches in height. Wheels must be held on with 4 or more standard lug nuts or knock-off hubs. 4 cylinder 600cc cars only; All four corners must be Hoosier tires. Right rear must be an ASCS2 tire that durometers 45 or harder. Any tire that checks softer than 45 immediately after the race will be disqualified. No cool down time. You may cut, sipe, and groove these tires. NO TIRE DOPING.

\* 9. Bodies. All cars must have complete bodies. Tail sections must be in place for time trials and all races. There must be a metal firewall between driver and engine, made of 24-gauge steel or .0625" aluminum. Body of car must be made of aluminum, metal, fiberglass or high impact plastic. All cars must be painted an attractive color or colors. No rear view mirrors. The only part of the car allowed to be dismantled for driver to enter or exit is a quick release steering wheel hub. The minimum opening on the right side of the car will be 10.5" from the bottom edge of the top roll cage to the top of the mud guard or sissy bar and a 18" minimum opening from the front down tube to the back. The minimum opening on the left side of the car will be 10.5" from the bottom edge of the top roll cage to the top of the mud guard or sissy bar and a 20" minimum opening from the front down tube to the back. All mechanically operated devices must be mounted below the driver's shoulders for safety. No mechanical, electrical or hydraulic adjustments will be allowed in the cockpit area on multi cylinder cars. If you chose to have an inside pan hard adjuster it must be bolted to where it cannot be moved during a race by the driver. All fuel tanks must be equipped with a one-way check valve designed to prevent the spillage of fuel in the case of a rollover.

\* Fuel will be checked with a Hydrometer or any other test provided.

\* the fuel tank vent in the event of a rollover.

\* 10. Transmission. Four-cylinder motors must have transmission with all stock gears in working order. Any car equipped with a shifting mechanism must have this device mounted in the driver's compartment. Shift levers may mount outside the driver's compartment on opposite side of car from the chain drive. Chain guards will be made of .060-inch-thick aluminum or equivalent and will run on top of chain from the front of the front sprocket to the center of the rear axle. Driver must not be able to touch the chain or sprockets while sitting in the cockpit.

\* 11. Wings. Right side board, maximum 48" x 18". Left side board, 48" x 24". The wing cannot be mounted outside the rear tires. Side boards may be offset but side boards must cover center section. Wings must be mounted parallel with cage. All wings must have 1/16" radius edges or edging. No raw edges. No wood except for ribs or spars inside center section. Nose wings cannot exceed 18"x 24" and must carry car number. Side boards not to exceed 8.5 inches tall and 21 inches long. Top wings are mandatory to enter a night's event. Cars may finish without a wing if no replacement is available. Cars must run a max 10 square-foot fixed wing positioned no further back than the back of the roll cage. The measurement for the wing placement will be taken from the back edge of the center section of the wing, not the sideboards. No cockpit adjustable wings. No splitor multi-staged nose or top wings on Restricted "A" class cars. Wing center section must be one piece. No multi stage top or nose wings. No offset or twisted center

sections. Side boards must be 90 degrees to the center section. The side board kick out cannot exceed 2 inches. 3-inch maximum wicker bill allowed including stock wing turn up.

\* EXAMPLE

\* Center Section

\* 12. Engine Rules. 4 cycle multi cylinder engines larger than 250cc, but not exceeding 600cc. NO modifications allowed. Stock engines as the motor was run on the motorcycle with the charging unit. Any valvejob will be allowed as long as the valves and seats remain OEM. No engine work (no ported heads, no lightened cranks, no cam degreeing, no lightened pistons, and no head cleanup.) Stock pistons only. Any air cleaner will be allowed. Any exhaust will be allowed. Rods, pistons, cams etc. must be stock parts as used on the motorcycle the motor came from. Fuel injection engines are legal with carburetors. 600 Carburetors only.

KingRestrictor Plates & TSO Red Carburetor Adaptors MANDATORY. Carbs may have metering rods, jets and springs changed to tune the fuel curve to match our cars requirements. Any stock appearing black box with "out" external adjustments must be same engine make. Cam gears that are re-drilled, slotted or altered are illegal. Internal charging systems components must remain in the motor. Any sprocket (520 or 530) will be allowed.

\* Only stock or aftermarket fiber clutch disk and springs will be allowed. All metal disk and clutch basket must remain stock. No current year production engines allowed. Any stock manufactured engine allowed on carburetors with alcohol. Any stock manufactured carburetors may be any make and match. No flat slide carburetors allowed. Stock OEM.

\* No Wheel Sensors of any kind for traction control. No Sprocket or Transmission sensors for Traction