



2022 Rule Book

These rules shall govern the 2022 31st Montana 200. In the event of a conflict between rules, the rules and procedures of this 2022 31st Montana 200 rule book shall prevail in all cases. For all rule book updates, go to:

www.missionvalleysuperoval.com

2022 changes highlighted

The Mission Valley Super Oval may alter these rules or procedures at any time in the interest of fairness and safety. Any changes will be done with a written addendum to the rules package given to each team via online, email, or at the track.

CAR WEIGHTS

Steel Head Motors	2,850 lbs.
Brodix Spec Head Motor	2,850 lbs.
Sealed Engine Program	2,850 lbs. (7,600 rpm chip)
SSPE Engine	2,850 lbs. (7,800 rpm chip)
9:1 Tour Type Motor	2,850 lbs.
South Sound Motor	2,850 lbs. (Allstar Base Plate & 1.300" restrictor)
GM CT525	2,800 lbs.
SLS Motor & WCLMS Wet Sump Motor	2,775 lbs. (7,400 RPM Rev Limiter Chip)
Factory GM 604 Ford D347SR	2,750 lbs. (6,400 RPM Rev Limiter Chip) Factory Sealed
Only Cope Resealed GM604	2,800 lbs. (6,400 RPM Rev Limiter Chip)
MEP LM425/Hamner Sealed GM 604	2,800 lbs. (6,400 RPM Rev Limiter Chip & 1.5 Rockers Ford & 1.6 Rockers GM-604)
LS 5.3/6.0 Wegner	2,850 lbs. (8,000 RPM Rev Limiter Chip)

- Cars are limited to 58.0% maximum left side weight all motors. When cars are weighed post-race the maximum of 58% left side weight must be maintained, no refueling allowed.
- All above weights include car and driver, race ready with fuel on board.
- All added weight must be made of lead (no tungsten or similar metals), securely fastened and painted white with car number.
- The configuration of the lead under the car must be approved by the Series.
- Added weight must not be attached ahead of the front spindles or behind the rear axle.
- No titanium, exotic materials, carbon fiber or composite products, parts, or components allowed on racecar or the engine unless specified in the rules with the exception of carbon fiber driver seats.



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ENGINE RULES

The eligible engines must be production-based engine, approved by MT 200 OFFICIALS prior to competition. All major components (engine block, heads, etc.) must be produced by the manufacturer for sale in a regular product offering.

Approved Engine Carburetor Configurations:

MOTOR

GM 604, p/n 8895860

GM CT 525, p/n 19271821

Ford D347SR, p/n M-6007-D347SR

MEP LM425/Hamner Sealed GM 604

SSPE Motor

South Sound Motor

SLS Late Model

Spears SRL/9:1 Tour Motor

Brodix Spec Head

Steel Head Motor

Sealed Engine Program

LS 5.3/6.0 Wegner

CARB

Holley 650CFM p/n 80541-1, 2 or 3, Tool Legal.

Holley 650CFM p/n 80541-1, 2 or 3, Tool Legal.
Holley 750CFM p/n 4779 or 80528, Tool Legal.

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Holley 750 CFM p/n 4779 or 80528, Tool Legal

Holley 750CFM p/n 4779 or 80528, Tool Legal.

Any Carburetor w/ Dual Plane Manifold, per SLS Engine Rules

Holley 4150HP 390 CFM p/n 80507-1 (booster bar removed) per SRL Engine per current Spears SWT Series Rulebook.

Any Carburetor per engine rules below

Any Carburetor per engine rules below

Holley 750CFM p/n 4779 or 80528, Tool Legal.

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All engines' configurations are subject to post race technical inspection which could include any of the following:

- 1. Teardown of motor to a level that allows technical inspectors to check for compliance in every aspect of meeting the engine rules listed in this rules package at every race.***
- 2. Impounding of engine for complete teardown for compliance to rules.***
- 3. Impounding of engine for dyno testing at cost of series for compliance to rules.***

Failure to comply with any of these requests by series official will be considered an admission of guilt and will be grounds for disqualification.



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Engine Mounting Locations

- ❖ Engines with rear mounted distributor and GM CT525 will be located so the forward most spark plug is no more than 2" from centerline of the upper ball joint.
- ❖ Engines with front mounted distributor will be located so the forward most spark plug is no more than 4" from centerline of the upper ball joint. 604 / 4".
- ❖ Engines may not be offset more than 1" from centerline of car.
- ❖ Front center of crank shaft must have at least 10" of ground clearance.

Engine Mounts

- ❖ All engine mounts must be reinforced steel or aluminum.
- ❖ Front to rear, adjustable engine mounts will not be permitted

Brodix Spec Head Motor

Only Brodix Spec Head: PN SP-CH/FO/MO. Heads must meet all specifications listed below to be legal.

- ❖ No aluminum or exotic metal engine blocks.
- ❖ Any carburetor allowed with a maximum base plate hole diameter of 1-11/16". Each carburetor booster should be secured by a small amount of epoxy or a steel wire not less than .025" in diameter.
- ❖ Carb Intake Spacer - one aluminum spacer with a maximum of 1" total thickness with (2) gaskets with a minimum thickness of .050".
- ❖ All Spec heads will be supplied with CNC bowl blend and intake port matching.
- ❖ No grinding or blending of CNC work is allowed.
- ❖ No grinding or polishing of any kind is allowed anywhere on the castings.
- ❖ No use of any substance that may change or alter the shape or the size of ports or combustion chambers is allowed.
- ❖ A maximum valve size of 2.080 intake and 1.600 exhaust will be allowed for all Spec heads.
- ❖ Valve seats and guides are to remain as manufactured and in their cast positions.
- ❖ Valve angles are to remain as manufactured. The original seat center locations as provided by the head manufacturer may not be altered.
- ❖ No tapering or re-shaping of valve guides will be allowed.
- ❖ No titanium valve springs, steel only.
- ❖ Titanium valves approved.
- ❖ Cylinder heads may not be angle milled.
- ❖ Minimum combustion chamber volume will be 60 cc.
- ❖ Minimum valve stem diameter is 11/32".
- ❖ Spec cylinder head serial numbers must remain on the head and may not be defaced or altered.
- ❖ No welding modifications are allowed to the original castings.
- ❖ May only be used on motors 360cid or less.

Car Weight Options for this motor configuration:

Brodix Spec Head

2,850 lbs



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TOUR 9:1 ENGINES: No aluminum blocks. Aluminum heads of OEM designs only. Only 23° heads allowed on GM products. No SB2 heads, SM splayed heads or 14° Buick heads allowed.

Compression ratio maximum is 9.5:1

Holley 4150HP Tour Legal 390 CFM only. Carburetor must pass all BLP Box Stock Gauges and visual inspection. Each carburetor booster should be secured by a small amount of epoxy or a steel wire not less than .025" in diameter.

Carb Specifications provided below:

- ❖ Venturi Bore Primary & Secondary 1.060 - 1.064
- ❖ Booster OD @ Parting Line .626 - .630
- ❖ Booster OD @ Top .614 - .618
- ❖ Booster ID .468 - .472 w/bar removed
- ❖ Booster Length .700 - .702
- ❖ Throttle Bore Primary & Secondary 1.4365 - 1.4385
- ❖ Combined Throttle Shaft & Plate.1995 - .2085
- ❖ Booster maybe tapered from parting line down but maintain overall booster length of .700 - .702.

Carburetor Intake Spacer - One aluminum spacer with a maximum of 1" total thickness with (2) gaskets with a minimum thickness of .050".

All Spears SWT cars must run engine combinations that are approved by the SRL series to be legal in this series.

Car Weight for this motor configuration: 2,850 lbs.



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South Sound Legal Motor:

To be legal in the MT 200 your car must meet all current South Sound Speedway engine rules for Super Late Models; you must have raced in the **2020 or 2021 season** a minimum of one time; and you will have to meet the following rules to run in this series:

- ❖ **Holley 750 CFM P/N 4779 or 80528 must be used.** The carburetor and any carburetor components including boosters, throttle plates, throttle shafts, throttle bodies, metering blocks, etc. must remain stock in appearance and match all factory dimensions. Only Holley replacement and/or service parts will be permitted in carburetor rework. Must pass all Box Stock Gauges and visual inspection. Each carburetor booster should be secured by a small amount of epoxy or a steel wire not less than .025" in diameter.
- ❖ You must run an **Allstar Performance Base Plate (p/n 26060) with 1.300" Restrictor inserts (p/n 26067).**
- ❖ No aluminum or exotic metal engine blocks

Car Weight for this motor configuration:

2,850 lbs.



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GM CT525 LS3 CIRCLE TRACK ENGINE

Competitors may purchase the GM LS3 CT525 base engine from any approved GM Performance Parts Dealer. Factory Seals must remain in place. No modifications. **GM LS3 CT525 6.2L racing engine P/N 19171821**. The base engine is rated at 525hp and 471 lb. ft of torque using aluminum block, high flow LS3 rectangular port head cylinder heads and includes an intake manifold and a 6-quart racing oil pan.

- ❖ **Holley 650 CFM 4bbl carburetor P/N 0-80541-1/-2 or Holley 750 CFM P/N 4779 or 80528** may be used. The carburetor and any carburetor components including boosters, throttle plates, throttle shafts, throttle bodies, metering blocks, etc. must remain stock in appearance and match all factory dimensions. Only Holley replacement and/or service parts will be permitted in carburetor rework. Must pass all Box Stock Gauges and visual inspection. Each carburetor booster should be secured by a small amount of epoxy or a steel wire not less than .025" in diameter.
- ❖ **Ignition controller GM P/N 19171130 or MSD 6012, 7200 RPM max.** Must be mounted on right side of car out of the reach of the driver. All wires must be remained uncut or spliced and on top of dash in clear view. Belt Driven or Electric Fuel Pump allowed. Electric pumps must be wired with double relay wiring harness with oil pressure safety switch to ensure fuel pump will shut off when engine is not running.

Engines may be dyno'd at any time at an engine dyno of the series choice or inspected during post-race tech to monitor adherence to spec rules.

Carb Intake Spacer - one aluminum spacer with a maximum of 1" total thickness with (2) gaskets with a minimum thickness of .050".

Car Weight for this motor configuration: 2,800 lbs.



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Ford D347SR & GM 604 CRATE ENGINES

GM Sealed Crate Engine PN 88958604 and 19318604. Engine must maintain engine manufacturer specifications. No aftermarket harmonic balancers are allowed. **GM 6¾" harmonic balancer GM PN 12551537 or the standard GM604 balancer.**

- ❖ 1.5 ratio rocker arms GM PN 12367345 required. Older GM604 engines can upgrade to the GM factory beehive style valve springs in the updated 604 configuration PN GM 12499224. 120lbs. on the seat.

Ford Sealed Crate Engine D347SR, p/n M-6007-D347SR

- ❖ 1.65 Rockers only allowed.

All GM604 or D347SR crate engines must be factory sealed by GM or Ford only to receive weight break.

Rebuilt Sealed Crate Motors: (Cope, MEP, Hamner, TRE, Westside Machine)

- ❖ Team must supply build sheet & dyno numbers to series prior to competition.
- ❖ **All cars using this type of motor will weigh 2800lbs.**
- ❖ **Must run Rev Limiter Chip of 6400rpm.**
- ❖ **Motor subject to tear down or dyno @ teams' expense to determine compliance to the yellow book and or Ford performance spec book.**

The 650 CFM Holley carburetor PN 80541-1, 2 or 3 is mandatory on all crate engines. The carburetor and any carburetor components including boosters, throttle plates, throttle shafts, throttle bodies, metering blocks, etc. must remain stock in appearance and match all factory dimensions. Only Holley replacement and/or service parts will be permitted in carburetor rework. Must pass all BLP Box Stock Gauges and visual inspection. Each carburetor booster should be secured by a small amount of epoxy or a steel wire not less than .025" in diameter.

- ❖ Carb Intake Spacer - one aluminum spacer with a maximum of 1" total thickness with (2) gaskets with a minimum thickness of .050" unless running governor.

604 or D347SR Engines maybe impounded at any time to be sent to the dyno of the series choosing. Any crate engine that is found to produce significantly more torque and/or horsepower than GM or Ford factory specifications will result in automatic tear down for parts conformance. Fuel supplied directly from the car in question will be required for dyno test.

Any counterfeit factory seals will cause the engine to be confiscated, immediate disqualification and possible expulsion from the series.

Car Weight Options for this motor configuration:

Stock Factory Sealed GM 604 or Ford D347SR with 6400 rpm chip 2,750 lbs.

Non-Factory Sealed GM 604 & Ford Crate Engines with 6400 rpm chip 2800 lbs.



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BODY, CHASSIS & DRIVETRAIN

Track Width - Track width not to exceed 67 inches, front or rear. Measured at spindle height on the inside wheel bead of the right wheel (rearward) and at the outside wheel bead of the left wheel.

Wheelbase - Minimum 101" wheelbase required.

Bodies

Anybody from the following Manufacturers: AR & Five Star ABC Bodies, Five Star Gen 6 Bodies, & AR Revolution Series Bodies. All bodies must fit templates and referee system used by series and must be mounted per the manufacturer's instructions. Bodies must be standard per make and no swapping of generations. **AR Revolution Series Bodies will carry a 50lbs weight penalty due to non-ABC approval.**

Approved competition models:

CHEVROLET – Camaro, Monte Carlo or Impala

SS DODGE – Charger or Intrepid,

FORD – Mustang, Fusion or

Taurus TOYOTA - Camry

PONTIAC - Grand Prix. Body panels must have ABC I. D. tags.

- ❖ The Cowl Panel is considered an extension of the hood and must fit the centerline template. The Cowl air intake opening in the Cowl Panel must be 2 1/2 inches by 20 inches to allow fresh air to the carburetor. Windshield may not be cut in any way from manufacturer.

One of the following two (2) options is mandatory.

- Option #1: A fresh air deflector will be permitted directly under the cowl air opening in the cowl panel. The deflector must measure a maximum of two (2) inches down and maximum two (2) inches forward, by 20 inches in width. Must be rigid.
 - Option #2: The use of the "FIVE STAR" Cowl Induction Cold Air Box and Cowl Air Deflector. Used as manufactured, no modifications, no additional heat shield or wrap.
- ❖ No bowed hoods, Minimum air gap between the hood and the Cowl Panel, subject to tech approval. The ABC Cowl Panel will be mandatory.
 - ❖ No tint on side window and or spoiler.
 - ❖ Steel floor must be enclosed.
 - ❖ Driver's compartment interior within main roll cage must be completely enclosed with not less than 24-gauge (22-gauge recommended) magnetic sheet steel.
 - ❖ Front nose must not extend more than 46 1/2 inches from center spindle.
 - ❖ Nose measurement - A minimum measurement of 20 inches is required from the point where the hood and nose intersect, measured to the bottom of the nose (not the wear strip). The grill and its openings must remain as produced. The maximum kick out on the lower air dam from the bumper line is 3 1/2 inches.
 - ❖ The ABC "A" measurement must maintain a min. length of 11.5 inches, **includes wear strip**. The air dam extension (valance/wear strip) must be secured in a manner that will prevent movement of the air dam extension (valance) while in competition. The valance must be made from rigid plastic only- Must match contour of original body. The piece must be mounted in the same plane as the original air dam and will be subject to tech approval.



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- ❖ Rear spoiler not to exceed 6-1/2 inches in height and 60-inches in total length may be attached to trailing edge of trunk lid only, no side air dams allowed. Must be centered on rear within 1”.
- ❖ Original dimensions of all bodies must remain as manufactured, except for changes that may be necessary for tire clearance. (No iceman quarter panels allowed.) Quarter panel heights will measure 34-1/2” left side and 34-1/2” right side, measured at the base of the spoiler.
- ❖ The roof will be measured 10” behind top of windshield and have a minimum of 47”.
- ❖ All bodies must be ABC replacement fiberglass or aluminum parts as manufactured. Rear deck length and rear window angle and front windshield angle must meet (ABC) angle specs from top of doorsill to top of windshield. **These will be required to fit a template.**
- ❖ Rear end must be closed in with unaltered ABC bumper cover. Nose must not be altered in shape from manufacturer.
- ❖ Rocker panels may be fabricated as long as they resemble ABC tagged rocker panels in all respects in size, shape and material, **No Protruding Edges.**
- ❖ All side door panels may not exceed more than 1.00” inside or outside of side wall of tire front to rear on both sides of the car.
- ❖ No lower quarter panel sails permitted.
- ❖ Under pans will not be permitted.
- ❖ No panels or sheet metal allowed extending from top edge of doors.
- ❖ ROOF RAILS – ARE OPTIONAL, a strip of aluminum angle, a minimum 1/2 inch high and a maximum 3/4 inch high, must be attached to the entire length of the roof (from windshield to rear window) on each side of the roof close to the outside edge of the roof. The roof rail must be mounted parallel with the car and aligned vertically. A third air deflector must also be installed on the rear window, a minimum of 1 1/2 inches high, and a maximum 1 3/4 inches high mounted parallel with the centerline of the car. This deflector must be in line with the left side roof rail and extend the full length of the rear window.

Follow the ABC Version 9.0 Rule Book for all SERIES body regulations in mounting your body. In the event of a conflict between rules or specifications between the ABC Rule Book and the Northwest Super Late Model Series Rule Book, this Northwest Series Rule Book shall prevail in all cases. **MT 200 OFFICIALS will use a calibrated Pit Referee and ABC Body Templates during inspection to ensure THESE PROCEDURES ARE BEING FOLLOWED.**

Glass / Mirrors

- ❖ Polycarbonate windshield with minimum thickness of 1/8”.
- ❖ A center rearview mirror must be in place at all times.
- ❖ The maximum dimension for the vent window along the top of the door will be 12 inches and must go 90 degrees from the top of the door up to the A-post, made of clear Lexan.
- ❖ Polycarbonate windshield must be strapped with a minimum of two 1” wide steel or aluminum inside strap.



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- ❖ Rear clear Lexan must be strapped with a minimum of two 1" wide steel or aluminum straps.
The rear
- ❖ Window and roof must be well supported and may not collapse at speed.
- ❖ Top of windshield is reserved for series sponsor logo – no other decals allowed on windshield.

Roll Bars

As a minimum, all cars are required to have the basic and typical roll cage. All roll bars must be made from round magnetic steel seamless tubing 1-3/4 inches by .090 (.000 tolerance) inch minimum wall thickness meeting ASTM A-519 specifications. Electric resistance welded tubing, aluminum and/or other soft metals will not be permitted. Roll bar joints and intersections must be welded according to ASTM specifications for the material being welded. Once constructed and installed, the roll cage must be acceptable to the series officials. Holes and/or other modifications that, in the judgment of the series officials, were made with the intent of weight reduction will not be permitted.

Electrical System

The engine, ignition system, car electrical system and components must be acceptable to Series Officials. ***If any 'traction control' device is found, the driver and/or owner will be disqualified for that event, forfeit all points for the year and the car will be confiscated until a \$10,000 fine is paid. Additionally, the driver, crew chief, and owner will receive a lifetime ban from all MT 200 events.***

1. All ignition system wiring, including wiring to the ignition amplifier box, distributor and/or any gauges must be acceptable to the NWSLMS officials.
2. All wiring must be out of reach of the driver, and subject to NWSLMS approval.
3. The distributor lead must be run on top of dash, by itself in clear view, then pass through a 1½ inch spec grommet on top of dash. No other wires may be in close proximity of the distributor lead.
4. Only the distributor lead will pass thru the spec grommet. No other wires may pass thru this grommet. All other wiring (fans, blowers etc.) must be routed thru a separate grommet at least 12" away from the distributor lead grommet.
5. With the exception of the distributor pickup wire pairs and coil wire pairs, each ignition system wire must remain separated. Wire mounts and tracks will be permitted provided that the ignition system wires remain visible and moveable.
6. Ignition system wires must be continuous from the start connector to the end connector. Splices, bare and punctured wires will not be permitted in the ignition system.
7. Ignition system equipment or wiring must not be located in the driver's side door area. All ignition system equipment must be mounted to the driver's right out of driver's reach. Ignition system wiring should remain visible and accessible. Taping wires together, heat shrink wrap, and/or banded wire looms should not be used.
8. A dedicated single ground stud must be located on, or as close as possible to, the dash panel bar. All ignition system components must be grounded at this stud. Accessory components must not be connected to this stud. A ground wire may be run from this stud to the battery ground or main ground stud.
9. Additional connectors may be permitted at the MT 200 Officials discretion to facilitate removal for inspection purposes.
10. Accessory component wiring, including power and ground wires, must remain completely separate from the ignition system wiring and away from ignition system components. Ignition system components must draw power from the battery side of the starter solenoid. Accessory components and switches will not be permitted to draw power from the ignition system wiring at any point.

The MT 200 officials may at their discretion inspect, test and/or destructively test ignition system components including ignition amplifier boxes, tachometers, distributors, etc.



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Ignition Wiring: You can use either the Nelson Specialties/ NWSLMS spec wiring harness or the Quickcar #50-2053 serial numbered harness provides with the Fast ignition box or Daytona Sensor ignition box.

- The serial number on the harness must be registered with the manufacturer or series.
- The spec wiring harness shall not be altered or changed in any way.
- If the harness from the race team is in need of repair based on the official's assessment, it will be sent to Nelson Specialties to be examined and repaired at the team's expense.
- The wire harness must be able to be removed from the car in five minutes or less.
- Only one ignition box allowed in the car at any time. Box must be either a Crane/Fast Cams Ignition part # 6000-6701 HI-6RC or Daytona Sensor ignition box. Mounted as far right and forward as possible along the dash bar, as far out of the drivers reach as possible with dials pointed out the passenger side.

Accessories

1. Except as provided below, cars and drivers will not be permitted to carry cell phones, onboard computers, automated electronic recording devices, electronically actuated devices, micro-controllers, processors, recording devices, electronic memory chips, traction control devices, digital readout gauges and the like, even if inoperable or incomplete at any MT 200 practice day or race day. Competitors will not be permitted to have or have had on his/her person or in his/her possession or in his/her car a device(s) at an event designed specifically to enhance the traction capabilities of the car, even if inoperable or incomplete.
2. Radios must be of two-way voice communication type only, independent of the car's electrical system. Two radios and one (1) radio push to talk button will be permitted in each car.
3. MT 200-approved timing and scoring transponder mounting brackets must be installed on the outside of the right-side frame rail, 16" center-to-center behind the rear axle, mounted vertically with the square tab on the bottom. The bracket must be fastened with 3/16-inch diameter small head pop rivets (from the outside) through the holes in the center of the bracket with 3/16-inch diameter rivet washers.
4. Remote lap timing or speed sensing devices will not be permitted.
5. All electrical wiring harnesses, switches and connectors must be acceptable to MT 200 Officials. All wiring must be point-to-point, and each wiring connection must be easily traceable and removable from the car for inspection purposes.
6. Upon approval by series official, competitors will be permitted to use filming and recording devices for internal, competition-related use only and not for promotion, resale or other commercial exploitation without MT 200 prior written approval.
7. Electric oil and fuel pressure gauges, along with oil and water temperature gauges will be permitted but must be wired separately and completely independent of the ignition system.
8. No digital dashes.

Transmission, Drive Shaft, & Rear-ends

- ❖ Standard type transmissions only will be permitted. No automatic transmissions.
- ❖ A minimum of one reverse and two forward gears will be required.
- ❖ Multi disc clutches are permitted. No direct drive, no carbon fiber discs. Minimum clutch diameter is 5.5".
- ❖ Drive Shaft must be equipped with a minimum of two safety straps and must be painted white. Drive shaft must be aluminum or steel only.
- ❖ Ford 9" floater or quick-change rear end required.
- ❖ Cambered rear-ends are allowed.



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- ❖ No cockpit adjustments other than brake bias.
- ❖ Any kind of shock allowed.
- ❖ One shock per wheel.

Brakes

The car braking and brake cooling systems and components must be acceptable to the MT 200 officials and meet the following minimum requirements; holes and/or other modifications in the braking system components that, in the judgment of the MT 200 officials, have been made with the intent of weight reduction will not be permitted.

Brake Components

- ❖ Only disc brakes with magnetic cast iron or cast steel round (no scalloped) rotors. Only metal brake calipers will be permitted. Each brake caliper-mounting bracket must mount solid to the rear axle housing or front spindle.
- ❖ Brakes must be operational on all four (4) wheels at all times.
- ❖ Electronic wheel speed sensors or brake actuators will not be permitted.
- ❖ Power assisted braking systems will not be permitted.
- ❖ Brake rotors must be a minimum diameter of 11 ¾ inches.
- ❖ Front brake rotors must be a minimum thickness of 1-1/4 inches. Rear brake rotors must be a minimum thickness of .810 inch.
- ❖ One (1) mechanical brake pressure proportioning systems to adjust front to front to rear bias, and its location, acceptable to the MT 200 officials, will be permitted. Electronic or remote-control devices will not be permitted.
- ❖ No exotic metals (Titanium, etc.) allowed in any part of the braking system.

Brake Cooling

- ❖ Fans or blowers may be used in the cooling hoses. Fans must be mounted in such a way as to draw air through the nose for the brake assembly only.
- ❖ Mounting of brake cooling components must be acceptable to the MT 200 officials.
- ❖ All brake cooling set ups must be approved by the MT 200 officials.
- ❖ Ultra-Cool Fan Blades (steel only) are permitted.
- ❖ All brake cooling air inlets and inlet locations must be acceptable to the MT 200 officials.
- ❖ All air entering brake cooling ducts must enter through the front of the lower air dam. Openings above the uppermost horizontal surface of the front bumper, including the headlight openings, must not be used to pick up air for brake cooling.
- ❖ No hoses or holes through the interior sheet metal for the purpose of drawing air to the rear brakes.
- ❖ Liquid or gas cooling of the brakes will not be permitted.
- ❖ Brake fluid may be cooled by re-circulating the fluid through the brake hydraulic system. Any brake fluid re-circulating device must be MT 200 approved.
- ❖ No fans, ducts or hoses to the rear brakes.

Wheels / Lug Bolts / Lug Nuts

ALL RACING WHEELS MUST MEET TIRE AND RIM MANUFACTURER SPECIFICATIONS. NO ALUMINUM WHEELS ALLOWED. NO EXTREME SAFETY BEADS ALLOWED - NO EXCEPTIONS.

- ❖ Maximum wheel width permitted, 10" measured inside bead.
- ❖ Wheels must be approved steel racing wheel.
- ❖ Wide 5 wheels must have a minimum weight of 17 lbs., and 5 on 5 wheels must have a min. weight of 20 lbs.
- ❖ All wheels must have car number on exterior of the wheel.
- ❖ Bleeders are allowed



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Official Tire of the MT 200 is the Hoosier 1070. Each team is allowed to purchase 12 tires. At the 100 lap break each team will only be allowed to change 2 tires which will be done on the front stretch.

You must buy the tires used in qualifying/race from the track you are racing at, no exceptions. You're qualifying/race tires may be purchased at Thursday's practice, Friday (prior to or on race day), or Saturday (race day) and will be impounded until a pre-designated time prior to final practice. **The series officials reserve the right to determine eligible # of tires, procedure for selection of tires and release times.**

- ❖ Cars must start the main event with same tires that were used for qualifying.
- ❖ Any tire may be used in the happy minutes and LCQ rather than the qualifying or designated race tires.
- ❖ NO PERFORMANCE OR APPEARANCE ENHANCING PRODUCTS ALLOWED INSIDE OR OUTSIDE OF TIRES. Tires that have been altered by unauthorized treatment, including water, will not be permitted. It is the competitor's responsibility to comply with the tire marking system set forth by the Series Officials.
- ❖ **Failure to comply or the use of tire soaking substance will be subject the competitor to a penalty of expulsion from series permanently.**

Fuel System

No electric fuel pumps or forced induction of any kind is permitted, except in a GM CT525 crate motor which can use an electric fuel pump with an oil pressure cut-off switch.

- ❖ No icing or cooling of fuel system
- ❖ A fuel cell will be mandatory with 22 gallons maximum
- ❖ Fuel cell must have a minimum of 8" ground clearance.
- ❖ Fuel cell must be mounted securely behind the rear axle of the car.
- ❖ Fuel cell must be equipped with at least 2 protective straps completely around the cell. Cars must have a minimum of 1/8' steel plate or similar strength aluminum plate between the fuel cell and rear end. A similar plate at the rear of the fuel cell is recommended. All cars must have a safety bar at the rear of the fuel cell

Fuel Cell

Must be soft-type bladder fuel cells and must be enclosed in a steel container with lid and drain holes in bottom.

Approved models:

- ❖ Aero Tec Laboratories, Inc. (ATL) FB 222 D FB 222 E FB 322 D FB 522 D
- ❖ Aircraft Rubber Manufacturing, Inc. (FUEL SAFE) RB 122 E RB 022 E
- ❖ Other models can be submitted to series for approval to the attention of the technical director.

Fuel cell must be mounted within rear frame rails. Fuel cell must have approved rollover valve. THE EXIT OF THE VENT TUBE MUST BE ABOVE FUEL TANK LEVEL. (No PCV valves or open vent line allowed.) Fuel cell not to be considered ballast. Fuel cell must have a minimum of ten (8) inches ground clearance.

Fuel cell bladder must be within 7 years of manufactures date on bladder. The Maximum fuel cell capacity including the filler spout and overflow must not exceed 22 gallons.

- ❖ Fuel Cell Container - The fuel cell container must be acceptable to the series officials and meet the following minimum requirements:
- ❖ The fuel cell must be encased in a container of not less than 22 gage (0.031-inch-thick) magnetic sheet steel.
- ❖ If the fuel cell container has a bolt on top, it must be bolted together with min. ¼ inch diameter bolts spaced a max. of (4) four inches apart.
- ❖ If the fuel cell container has a bolt-in end panel, it must be fastened together with min. 10/32-inch diameter screws, spaced a max. of (4) four inches apart.



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- ❖ The maximum outside dimensions for the fuel cell may not be larger than 33 inches by 17 inches by 9-1/4 inches.
- ❖ Holes in the fuel cell container will not be permitted, except for two (2) 1/8-inch drain holes in the bottom of the fuel cell container.
- ❖ The exterior of the fuel cell container must be painted red.

Fuel Cell Container Installation - The fuel cell and the fuel cell container must be installed in a manner acceptable to the series officials and in accordance with the following minimum requirements:

- ❖ The fuel cell and the fuel cell container must be fastened to the frame.
- ❖ The fuel cell and fuel cell container must be installed as far forward as possible in the trunk compartment equal distance between frame rails (one (1) inch offset allowed.)
- ❖ The fuel cell container, must be secured on the top by a flat fuel cell top rack made of one (1) inch by one (1) inch by 0.065 inch minimum thick square magnetic steel tubing meeting the ASTM A-513 specifications, bolted without removable spacers to the rear sub-frame rails and the front and rear fuel cell cross members or brackets welded to the rear sub-frame rails or the fuel cell cross members.
- ❖ The flat fuel cell top rack must consist of two (2) tubes lengthwise and two (2) tubes crosswise centered in the area from the fuel cell fill plate to the outside of the fuel cell container across the top of the fuel cell container.
- ❖ The front and rear fuel cell cross members must be constructed using one (1) inch wide by one (1) inch in height by 0.065-inch minimum thick magnetic steel tubing meeting the ASTM A-500 specifications.
- ❖ The bottom support frame must be constructed using three (3) tubes, one (1) inch by one (1) inch by 0.065-inch minimum thick square magnetic steel tubing meeting the ASTM A-513 specifications equally spaced across the fuel cell container. These tubes must be welded to the fuel cell front and rear cross members. The support tubes must extend down the front and rear equally spaced and under the fuel cell container.
- ❖ A reinforcement plate of not less than 14 gage (.078-inch-thick) magnetic steel flat plates must be installed in front and behind the fuel cell container. The plates must extend the entire height and width of the full cell container and be securely welded in place or bolted (min. 3/8 diameter bolts) with two (2) bolts on each side.
- ❖ A rear firewall of magnetic sheet steel not less than .24 gage must be located between trunk and driver and must be welded in place.
- ❖ The bottom of the fuel cell container must have a minimum ground clearance of 8 inches.

Fuel Rules - The MT 200 reserves the right to specify an official fuel supplier for the RACE.

- ❖ The addition of any oxygen bearing compounds or otherwise power additives are prohibited.
- ❖ No mixing or blending, fuel must come as provided by fuel supplier. Samples of fuel maybe taken at any time and sent to the fuels manufacturer for testing. If fuel is deemed by manufacturer to be altered you will be immediately disqualified, loss of all-season points to that period, and possible expulsion from the series.
- ❖ No icing or cooling of fuel system.



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In all matters pertaining to safety, Car Owners, Drivers and Crewmembers must review and educate themselves in all safety standards. It is the responsibility of the Car Owners, Drivers and Crewmembers to install, wear and maintain all safety equipment as specified by manufacturer's instructions. This includes, but is not limited to; helmets, fires suits, racing suits, gloves, shoes, flame-resistant underwear, head and neck restraint systems, driver's racing seat and safety belts. ***Any Safety infraction will deem the car ineligible for competition until the infraction has been repaired or corrected and the car re-inspected.***

Seat Belts and Shoulder Harness

- ❖ Each car must be equipped with an SFI 16.1 or SFI 16.5 - approved 5-point or 6-point seat belt restraint system and display a valid SFI 16.1 OR SFI 16.5 label. **No older than 5 years.**
- ❖ An SFI 16.5-approved shoulder harness may be two (2) inches wide as it passes over the approved head and neck restraint device.
- ❖ Approved seat belt restraint systems must have a latching mechanism attached to the lap belt or, if cam lock latching mechanism is used, it must be attached to the lap belt, the shoulder harness and the antisubmarine belts. This latching mechanism must provide a common connection and release for the lap belt, shoulder harnesses and anti-submarine belt(s), and must be designed with a quick and easy one-handed, gloved release of all belts in all conditions. It must either have one (1) of two (2) approved release designs: Latch/Lever or Cam Lock
- ❖ A center (crotch/anti-submarine) belt must be securely mounted to the lower seat frame at the bottom and to the lap seat belt on top.
- ❖ Where the belts pass through the seat edges, they must have a grommet installed, be rolled, and/or padded to prevent cutting of the belt. Untagged, undated belts will be considered out of date. The label cannot be in the adjuster.
- ❖ Seat belts and shoulder harness systems must have a production date within five years of the event date.
- ❖ Shoulder harness belts shall not be mounted lower than the shoulder line of the driver or 10 degrees. All lap belt and shoulder harness mounting must be done with aircraft-quality bolts and washers.
- ❖ Where the harness crosses the roll cage, it must pass through a steel guide welded to the roll cage that will prevent the harness from sliding side to side. Shoulder harness inertia reels cannot be used.

Driver Seat - All driver seats must be manufactured by a recognized manufacturer of seat and safety equipment, multilayer aluminum seat and approved by the series officials. Seats must remain "as purchased and produced", no holes or other modifications made for weight reduction. Homemade seats or sprint car type seats are not permitted.

- ❖ Seat construction must be solid aluminum sheet material or carbon fiber from the seat bottom to above the driver shoulder area; must be fully padded, with padded pelvis and shoulder supports on both the left and right side.
- ❖ A head restraint system, manufactured by a recognized manufacturer of seat and safety equipment, is mandatory and subject to series official approval. Bolt on systems is approved for competition.
- ❖ Seats must be equipped with left and right leg extensions, fully padded, running from the edge of the seat to the entrance of the foot box area. Recommendation – a minimum 1/8" (.125-inch) thick steel plate be mounted on the front or backside of the rear hoop of the mid-section in front of the left rear wheel. Plate should extend from the horizontal shoulder bar downward the height and width of the driver seat.



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Fire Control and Safety

- ❖ A fully charged five-pound on-board fire system with a minimum of two nozzles is mandatory. **The gauge must be visible to series officials.** The bottle must be re-certified or replaced every two (2) years. This cylinder must contain a minimum of five (5) pounds of DuPont FE-36 or equivalent.
- ❖ Driver uniform must be a multi-layer, full-coverage, one or two-piece fire-retardant uniform specifically designed for racing; Nomex-type or equivalent fire-resistant uniforms mandatory. Nomex gloves, socks and racing shoes are mandatory. Nomex fire resistant underwear is highly recommended.
- ❖ Drivers must wear a full-face helmet carrying at least one of the following certifications: Snell SA 2005, Snell SA 2010, Snell SAH 2010, FIA 8860-2004, FIA 8860-2010, or SFI31.1/2005 label at all times on the racetrack. SFI or Snell approval sticker must be visible for Series Officials inspection. "M" type not allowed.

Head and Neck Restraint Devices/Systems

It is always mandatory that during an event (practice, qualifying and competition), drivers use a head and neck restraint device/system which is SFI-approved. The device/system should meet the SFI 38.1 specification and must display a valid SFI 38.1 label. The head and neck restraint device/system, when connected, must conform to the manufacturer's mounting instructions, and it must be configured, maintained and used in accordance with the manufacturer's instructions.

IT IS THE RESPONSIBILITY OF THE DRIVER/CREW MEMBER, NOT THE SERIES TO ENSURE THAT HIS/HER SAFETY DEVICES/SYSTEMS ARE SFI-APPROVED, HAVE A CURRENT VALIDATION TAG, AND ARE CORRECTLY WORN, MAINTAINED AND PROPERLY USED.

More Safety

- ❖ Window net required on driver's door window. Net must be permanently mounted at bottom of window with a minimum 5/16" steel rod and secured at the top using a steel flip style release. No other window net latches will be allowed. **No older than 5 years old and must have SFI Label.**
- ❖ Toe straps recommended on all throttle pedals.
- ❖ A fully charged fire extinguisher is required in each pit at each racing event.
- ❖ Two-way radio communication between driver and crew is required whenever car is on the track.
- ❖ A yellow stripe, a minimum of four (4) inches in height must be displayed on the rear bumper cover of any car driven by a rookie driver as determined by the track officials.

Electronic Scoring System – MT 200-approved timing and scoring transponder mounting brackets must be installed on the outside of the right-side frame rail, 16 inches center-to-center behind the rear axle, mounted vertically with the square tab on the bottom. The bracket must be fastened with 3/16-inch diameter small head pop rivets (from the outside) through the holes in the center of the bracket with 3/16-inch diameter rivet washers.

Photo Finish - If there is an exact time (per the scoring system) for two cars at the finish of a race, the tie will go to the car that was ahead on the previous lap.



Race Procedures:

Initial Start:

- ❖ Double file, **once the Starter shows the 'one to go' signal, no scrubbing of tires, cars need to position nose-to-tail.**
- ❖ The front row must maintain "pace car" speed until they accelerate at the drop of the green flag.
- ❖ The drop of the green flag starts the race, the outside front row car must not beat the pole position to the S/F line.
- ❖ No passing allowed until S/F line – You may not pull out of line until the S/F line.

Restarts:

- ❖ All restarts will be double file.
- ❖ All cars one or more laps down restart behind lead lap cars **ONLY DURING THE LAST 20 LAPS.**
- ❖ When the double up sign or directive is given, the leader only can choose to start inside or outside. Everyone else will double up in their respective position.
- ❖ The leader of the race must maintain pace car speed until the designated re-start area. If he/she slows intentionally he/she will be sent to the back of the field.
- ❖ The leader is the control car for all restarts. ***If the outside front row car jumps the restart and gives the position back prior to the next pass of the start/finish line, no penalty will be assessed.*** If they do not the race will go yellow, and the offending driver will be sent to the rear of the field.
- ❖ No passing allowed until S/F line – You may not pull out of line until the S/F line.
- ❖ If a car re-enters the track before the two-to-go signal and remains on the lead lap after pitting, it will restart at the tail of the lead lap cars, otherwise its re-start at the tail of the field.

Yellow Flag:

- ❖ When the yellow flag is displayed the field will be "frozen", hold your position and proceed with caution. **DO NOT RACE BACK TO THE START/FINISH LINE. DO NOT PASS.**
- ❖ Your restart position will be the position you were in when the yellow was displayed, as long as you were able to maintain your running position or were in no way associated with the incident.
- ❖ Lap Down cars are positioned behind lead lap cars only during the last 20 laps.
- ❖ If you are involved, spin, slowed or your progress is disrupted by the incident, you will be positioned where you rejoin or blend back into the field – NOTE: the incident must play out before the order is set.
- ❖ Any discrepancies in line up will be determined by Race Control. Race Control reserves the right to revert to the last completed green lap.
- ❖ The initial yellow on the race leader plus the next two (2) yellow laps in each caution period will count, after which the yellow laps do not count.
- ❖ Should a car not maintain caution speed, stop or enter the pits during a yellow, it will lose its running position. You must maintain your running position under yellow.
- ❖ If a driver picks up positions after the yellow flag is displayed, they will be put back into the spot determined by Race Control at the time of the caution.
- ❖ Officials reserve the right to utilize the yellow to check cars that are suspect and are being considered for a black flag (leaks, smoke, sparks, etc.). After they are checked, if okay - they keep their position.
- ❖ **Officials reserve the right to throw a competition yellow at anytime through out the race.**

Red Flag:

- ❖ Stop single file in a safe manner – if a car does not re-start on its own, it may be pushed started and maintain position.
- ❖ NO WORK may be done on cars on the racetrack during red flag condition.
- ❖ Pit crews may work on your cars in the pits under the red flag but will lose 1 lap.
- ❖ Cars that pit under the red flag must rejoin the field at the rear



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Black Flag:

- ❖ This is a consultation flag and indicates the driver must take his/her car to the pits immediately for a consultation with series officials. **Failure to do so within two laps will cause the series to quit scoring the car until the penalty is served.**

Ten Lap Rule:

- ❖ Double-file restarts for last ten (20) laps, with lapped cars moved to rear of field, positioned in running order.
- ❖ Once the white flag has been displayed to the leader, the next lap will be the checkered.

Layover/Move Over Flag:

- ❖ A courtesy flag and is displayed to indicate to a driver that they are being lapped by faster cars. It will be used at the discretion of the race director and flagman. **Failure to adhere to this flag will cause you to be black flagged for a consultation; repeated occurrences in an event will be cause for Race Control to park your car for the remainder of the event.**

Crossed Flags:

- ❖ When any two flags are crossed and displayed by the flagman it signals to the drivers that the leader has completed half the race distance.

White Flag:

- ❖ Signifies that the leader has begun his/hers last lap.
- ❖ **Once the white flag is displayed, we are coming to the checkered.**

Checkered Flag:

- ❖ Signifies that the race has been completed by the leader. All other cars will receive the checkered flag in the same lap.

Free Pass Award/" Lucky Dog":

- ❖ On any yellow flag up to final 10 laps, the first car a lap down will be instructed to join the field at the back and gain back 1 lap. Any car causing a yellow will not be the recipient of the "Free Pass".
- ❖ The "Free Pass" car will be instructed as when to pass pace car and rejoin the field at the rear.
- ❖ If the free pass car is the cause of the yellow, it will transfer to the next car in the running order.
- ❖ No free pass in final ten laps.

On Track Contact:

- ❖ If there is any contact between competitors on the track, it will be determined by race control if any penalty will be imposed. **Rough driving, intentionally driving into someone or intentional blocking will not be tolerated.**
- ❖ **Any on track contact can be subject to penalties or suspension.**

Tire Changing: A Series Official must approve any tire change. Unapproved tire change is a two (2) lap penalty - For a tire to be changed during a race without penalty, the tire must first be inspected by a Series Official and must be deemed as flat (10 lbs. or less Left Side / 18 lbs. or less Right Side), or has severe wheel damage. Any tire that is changed must be immediately presented to a Series Official, in which it will be impounded until after post-race tech inspection.



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Qualifying:

- ❖ Two laps or more on the timer. Warm up laps will be designated at each track before qualifying.
- ❖ All drivers will draw for qualifying position and must be within three (3) spots of the position they drew. If more than 3 positions out of order the slower of the two complete qualifying laps will be given as official time unless officials decide to waive this rule due to extreme circumstances like a blown motor in practice or a wrecked car in practice.
- ❖ Ties in times will go to first car to establish that time.
- ❖ Competitors must run at least one practice session to be eligible to qualify, unless approved by series director.
- ❖ If you are under penalty of the slower of the two laps, you must complete both laps to receive a qualifying time.
- ❖ Series may impound cars after qualifying at their discretion due to inclement weather or at the direction of the track promoter to speed up event.

Inverts: There will be no invert for the Montana 200. The top 2 in qualifying will be locked in at their starting position. The remaining positions will be determined by positioning heat races.

Drivers Meeting: Mandatory attendance, roll call will be taken. If you miss or are late to the drivers' meeting:

- ❖ First offense is a verbal warning
- ❖ Second or more offenses is a penalty (Unless prior approval from series director or race director).
- ❖ **Penalty is driver will have only first lap of qualifying count towards starting position. Two laps must be completed, or no time will be allowed.**

Driver Change: Track director must approve all driver changes. If a driver change is made after qualifying, but before the start of the race, the car must relinquish its starting position and start at the rear of the field. Driver points and prize money will be awarded only to the starting driver.

Spotters: Each team must supply one spotter in designated area for any event for communication with driver and series officials. Radios are mandatory whenever car is on the track. Roll call will be taken before any on track competition and done so in the spotters stand. If spotter is not present that car will be held in the pit area until a spotter is present. If spotter leaves stand during race that car will be black- flagged from event.

All spotters must maintain a professional attitude, any foul language or abuse to series officials will cause the spotter to be removed from the spotters stand and the car parked until a replacement is back in the stand.

Contingency Decals: All contingency sponsors' decals must be placed on all cars to be eligible for event prize money, points and awards.

Official Results: Race results are not considered OFFICIAL until Tuesday at 8am following the race weekend. All scoring protests in any race must be made within 30 minutes after the official results are posted. Scoring re-check decisions are final and cannot be appealed or litigated



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Inspections: All MT 200 cars must go thru inspection and qualifying draw before practicing.

- ❖ Inspections can occur prior to the following: First Practice, Qualifying, LCQ, Main Event, & Post Race.
- ❖ Track Officials reserve the right to require an inspection of any car at any time.
- ❖ Top 5 finishing positions must present themselves at the designated inspection area immediately after the conclusion of the main event and the car must not return to its pit area prior to the post-race inspection.
- ❖ Competitor must take whatever steps are required including a complete teardown or confiscation of engine as requested by series officials. **Failure to do so will be considered an admission of guilt and be grounds for immediate disqualification.**

More General Information

- ❖ ***Mission Valley Super Oval officials reserve the right to make final decisions in the interpretation of any rules or race procedures at any time.*** No equipment will be considered as having been approved by reason of having passed through inspection unobserved.
- ❖ Cars found illegal are subject to disqualification, confiscation, fines, suspension, expulsion from Series and/or loss of points and money for that event.
- ❖ Rules clarification will be done by the track officials, final decision rest with Track Director.
- ❖ Any abusive or improper language to or regarding a series or track official may be cause for suspension, expulsion from series and/or fine. You or your team must conduct yourself in a professional manner.
- ❖ At no time shall any member or fan of a race team attempt to/enter race control during and event. If you want to discuss anything it can be done at the series trailer after the event has finished. A violation could cause a fine of up to \$500 for each individual involved and immediate expulsion from the series until further notice.
- ❖ No person shall participate in fights in motor pits or on race premises at any time. A violation could cause a fine of up to \$500 for each individual involved and immediate expulsion from the series until further notice. All Persons involved will be asked to leave and/or will be taken to jail.
- ❖ All drivers must be a minimum of 14 years of age and must be approved for competition by an appointed panel of the series. All drivers must be approved for competition and will be under evaluation for their entire first year of competition.
- ❖ Any infraction of any rule or regulation may result in penalty, disqualification, fine, suspension or expulsion. Any illegal parts may be confiscated.



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- ❖ The consumption of alcohol or drugs during the period of competition is strictly prohibited. The use or possession of illegal drugs at any time is strictly prohibited. Both are grounds for expulsion from the NWSLMS event, you may be subject to a drug and/or alcohol test at any time at the cost of the series. If asked by series officials to take an alcohol/drug test you must do within 24hrs of the request, from a certified hospital or testing center and you will be prohibited from competition until this is done.

PLEASE READ:

It is ultimately the obligation of each participant to ensure that his conduct and equipment comply with all applicable rules as they may be amended from time to time. All rules or procedure updates will be posted to series website and Facebook pages. Upon admittance to any Mission Valley Super Oval event the driver is responsible for the conduct of all team members.

No expressed or implied warranty of safety shall result from publication of or compliance with these rules. These rules are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to participants, spectators or others.

The Mission Valley Super Oval and its officials reserve the right to refuse entry to any person to any event under their jurisdiction at any time.