



SPORT 4 DIVISION RULES

The following rules are for the “Sport 4 division” for the 2010 season. Interpretation or amendment to these rules may be made at any time. The rules and/or regulations set forth herein are designed to provide orderly conduct and to establish minimum requirements for the racing events. These rules shall cover the condition of all events. All participants are deemed to have complied with these rules upon participating in these events. *No expressed or implied warranty of safety shall result from publications 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 participants.*

Track officials shall be empowered to permit minor deviations from any specifications herein or to impose any further restrictions that in their opinion do not alter the minimum acceptable requirements. No expressed or implied warranty of safety shall result from alterations of specifications. Any interpretations or deviations of these rules are left to the officials. Their decision is final!

ELIGIBLE MODELS: Only front wheel drive, 3 or 4 cylinder compact cars with a maximum 3 valves per cylinder are eligible. No dual overhead cam cars allowed. A maximum wheelbase of 104 inches. No full frame cars allowed. Cars with all wheel drive or all wheel steer are not allowed. Steering and pedals must remain in stock location. A quick release steering wheel maybe used. No 4 wheel or all wheel drive allowed.

GENERAL: No weight or extra ballast may be added to the car. All interior trim, carpeting, headliners, etc. must be removed. Dashboard may be left in or removed. All glass must be removed. The windshield opening must be braced with either (2) 1” x 1/8” straps, or (3) 3/8” minimum solid round bar, or square steel tube spaced evenly in front of driver. All headlights, fog lights, tail lights, non-lighted markers, etc. must be completely removed. Steering wheel and pedals (clutch,gas,brake) must remain stock and in the factory stock location. A quick release steering wheel may be installed. Insulation under hood must be removed. No gutting of fenders, hoods, roofs, rear quarters, hatches, etc. Sunroof openings must be sealed off securely with steel. Doors may be gutted if needed **ONLY** to make room for door bars on roll cage. No mirrors allowed! Disconnect and/or remove any airbags!

SUSPENSION: Completely stock suspension required, no modifications allowed.

NOT ALLOWED

- Spring spacers
- Spring rubbers
- Lowering springs
- Adjustable struts
- Spacers in strut tower or strut mount

No altering of A-arms, sway bar links, sway bars (front or rear), K frame, J frame, cradle, rear end (must be in stock location), or any other suspension components. **NO MODIFICATIONS TO SUSPENSION.** Maximum camber allowed is 1.5" measured at the wheel. Springs must be for that model car. No cutting or heating springs to weaken them. All spring perch's must be in stock location on struts. No drilling or modifying struts in any way. Wheel base must be equal on both sides of car.

HOODS: Hoods must be pinned in front with atleast 2 hood pins. Rear trunk lid must be pinned or hatchback welded shut. No gutting of hoods, trunks, or hatchback doors. No holes, or ram-air hoods allowed.

BUMPERS: Bumpers **MUST** be cabled, chained or welded to car. Any loose bumpers will be required to be attached to the car before being allowed on the track. No trailer hitches or re-enforcing of bumpers in any way. **STOCK** unaltered bumpers and bumper shocks only. A tow chain must be installed on both the front and rear of car.

DOORS: Doors must be welded shut at both the front and rear seam/edge of door on both sides of car. Drivers side door bars on roll cage must be plated with atleast 1/8" thick steel from top to bottom. Roll bar padding is required on all bars surrounding the driver!

FIREWALL: All holes in front firewall must be covered with sheet metal. Any holes with wires, cables, or fuel lines must have rubber or plastic grommets in them. If a fuel cell is installed, it must be enclosed in a steel case.

ROLL BARS/CAGE: A minimum of a 4 point roll cage is required. A foot, or Martin bar is required which is welded to the driver side front down bar 6" from the floor and is welded to the floor or firewall. All roll bar tubing must be 1-3/4" x .095. **NO EXHAUST TUBING!!** Two uprights must be located in the furthest forward corners of the driver's compartment and two uprights must be behind the driver. All uprights should be located as far towards the outside of the car as possible. These uprights must be welded to atleast 4" x 4" x 1/8" thick plate steel that is either welded or sandwich bolted to the body. A horizontal bar connecting the two rear uprights about halfway up is mandatory along with two bars from the top hoop, running rearward at approximately a 45 degree angle. The rear down bars **MUST NOT** touch, or be welded to the strut towers or a rear strut bar. There will be a minimum of 3 door bars on each side. Doors may be gutted only to make room for door bars. All welds must be of good quality. 90 degree intersections must be gusseted. The top of the cage must be 3" higher than the top of the drivers helmet. No bars may go through the firewall or body of the car. A bar is required to run from front of top hoop to the rear hoop behind the driver. X bracing on cage behind the driver is required. The seat mount must be welded to the roll cage, not the body or frame of the car.

ENGINES AND TRANSMISSIONS: No turbo chargers, super chargers, or rotary engines allowed. Maximum of 3 valves per cylinder allowed. All engines and transmissions must use

stock mounts and be in stock location. Air intake system must be stock! No cold-air intakes or modifications allowed. A K&N or like filter may be used but must fit correctly in stock air box. Transmissions must work with all forward and reverse gears. No antifreeze, water only. Air conditioning system may be removed. Computer, wiring, and data port must be mounted on firewall or passenger side floor. Thunderhill raceway and the 4 cylinder rep reserves the right to confiscate any drivers computer at any time for testing. If deemed illegal, it becomes property of the track. If legal, the computer will be returned before the following week. A muffler is required by the track and must be attached properly before being allowed to race. Exhaust must exit behind the driver. Mesh or screen is allowed to be installed in front of the radiator.

GAS TANK/FUEL CELL: If stock gas tank is in front of rear axle, it may remain in place. If stock gas tank is behind the rear axle, it must be replaced with a fuel cell (maximum of 8gal). Fuel cell must be mounted over or right behind rear axle in trunk area. The fuel cell must be mounted with a minimum of two 1/8" x 1" steel strap with minimum 3/8" hardware with large head washers and lock nuts. Trunk firewall must be sealed off and fuel cell covered with steel case. If fuel lines run through car, they must run through conduit. NO RACING FUEL!! Unleaded pump gas only!

BATTERY: Battery may remain in stock location OR relocated inside car on passenger side. Only one battery allowed, no fake, dead, or dummy batteries allowed for extra weight. Battery must be secured by a minimum 1/8" x 1" steel strap with minimum 3/8" bolting hardware with washers and locking nuts. If battery is inside the car, it must be in a battery box and in a steel frame that is welded to the floor of the car.

TIRES/WHEELS: Only passenger DOT tires allowed. No off road tires allowed. 60-80 series tires allowed. No aluminum rims. No studded tires or chains allowed. All wheels must have 1" lug nuts. No spacers allowed. No altering of rims is permitted. Only rims for that make/model of car are allowed. No donut tires allowed. Left/driver side tire pressures must be a minimum of 20lbs for air pressure. Right/passenger side tires must be a minimum of 28lbs for air pressure. These are the minimum requirements for tire air pressure for any car participating in a race. These pressures must be valid before (while in line-up) and after the race (post race inspection). All 4 rims must be the same size on the car, tire sizes may vary as long as rims are same size.

BRAKES: All four corners of the car must have working and fully functional brakes. No crimping, cutting, or capping off of brake lines. Any car without all brakes functioning will not be allowed to compete. The third or rear brake light must function properly. If no brake light is present, a trailer light or aftermarket light must be added to trunk lid or rear speaker shelf.

SAFETY EQUIPMENT: A 5-point racing seat belt/harness is mandatory. 3" lap and shoulder straps and a 2" submarine strap are required. Racing window net with seat belt buckle release required. The window net must latch inside the car. A clearly labeled (on,off) battery kill switch, and fuel pump on-off switch is mandatory and must be accessible from both sides of the car. All roll bars surrounding the driver must be padded. Aluminum racing seats are mandatory and the brackets for mounting must be connected to the roll cage and NOT mounted to the floor, body, or frame of car. Snell 2005 or newer helmet, neck brace, eye protection, full flame retardant racing suit (1 or 2 piece), racing gloves, and racing shoes are all mandatory! All cars will be vigorously inspected for safety. No signs, signals or radio communication or communication of any kind is allowed with the driver during a race of any kind.

NUMBERS: Numbers must be displayed on both driver and passenger side of car (minimum of 18" tall). The car number must also be displayed on the front, back, and roof of car. Numbers on front and back must be a minimum of 6" in height. Flags, flashing lights, cones, whip antennas, ect. are not allowed.

PROCEDURE: A progressive racing format will be followed using a weekly point average. Drivers not having a point average, or missing two consecutive point weeks, will start at the back of their heat. Points nights missed will not be included when figuring a drivers point average. 25 cars per feature maximum. Any driver causing a caution (one spin rule), will be done for that race. Purposely stopping on the track to cause a caution will not be allowed and will result in a black flag and disqualification for the race. Drivers participating in any other division for points on the same night will not be eligible to compete in this division. Thunderhill Raceway officials will determine any penalties for violations of any rules. Must be 16 years of age to compete with properly signed release forms from both parents or guardians.

There will be no "gray areas". If there is any question about a rule or requirement, please call or email the Rep for this division before making the change to the car. Ignorance will result in disqualification. If it's not in the rules, the Rep must ok the change/situation before a car is eligible to compete. The 4 cylinder Rep has the right to make the final decision on anything deemed illegal, or un-safe.

Contact the Rep:

Name:

E-mail: thunderhillsport4rep@yahoo.com

Phone: