



SECTION 5 - MINIMUM EQUIPMENT AND SPECS

1. UNLESS SPECIFIED IN SPECIFIC RULES FOR A CLASS, THESE RULES SHALL APPLY TO ALL CLASSES PARTICIPATING AT MOUNTAIN HOME SPEEDAWAY

2. PERSONAL PROTECTIVE GEAR

2.1. Helmets

- 2.1.1. Full Face SA-2005 or newer Helmet is required for Jr. Hornets, Stock Car (Hobbies), & Modified Minis.
- 2.1.2. Full Face Motorcycle (M rated), DOT, Karting (K) and snowmobile helmets less than 10 years old and used with a fire resistant head sock are allowed ONLY in Bomber, Hornet, and Enduro Series.

2.2. Clothing:

- 2.2.1. Fire resistant long sleeve jacket required.
- 2.2.2. Fire resistant gloves required.
- 2.2.3. Fire resistant long pants required.
- 2.2.4. One or Two piece fire rated racing suit highly recommended.
- 2.2.5. Fire resistant footwear required.
 - 2.2.5.1. Leather shoes or boots.
 - 2.2.5.2. Made for racing shoes
 - 2.2.5.3. NO open toed shoes or "flip-flops" allowed.
- 2.2.6. NO NYLON or other fabrics that will melt in open flame PERMITTED.

2.3. Neck support required.

- 2.3.1. Circle Track Head and Neck Restraint system highly recommended.
- 2.3.2. Made for racing foam support designed to work with a full face helmet approved.
- 2.3.3. Subject to tech approval,

2.4. Driver's side window net required.

- 2.4.1. Must be equipped with a quick release for driver exit and entry on the driver side.
- 2.4.2. Must be easily accessible for safety crew and driver.

2.5. Two fully charged fire extinguishers with gauges are required. One securely mounted in the car within easy reach of the driver and the other located in the pit.

2.6. The steering wheel must have a minimum of 2" of pad covering the center nut.

2.7. Cars with passenger seats must meet all Driver side requirements or the passenger side or remove the seat.

3. WINDSHIELD -

- 3.1.1. 1. Windshield opening shall have 3 bars made of 3/8" solid rod or greater extending from the roof to the dash. Bars must be securely welded or bolted.
- 3.1.2. a. NO glass windshields allowed.
- 3.1.3. b. Full screen recommended.
- 3.1.4. c. First bar must be placed within 20" of the driver's side A-post.

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- 3.1.5. A smooth surface 5 inch tall mud visor across the entire windshield opening is required and must be reserved for class sponsor decals.

4. SEAT & HARNESS

- 4.1. Shoulder Harness, Belts, and Restraints. A competition shoulder harness, at least (3) inches wide is required. Exception: HANS device shoulder straps may be of industry standard width. No OEM factory type belts or straps will be allowed. Metal to metal buckles are required on the shoulder harness and lap belt. The Harness must mount at a minimum of (5) points. Shoulder belts should mount below the drivers shoulders.

4.2. JR. HORNETS, STOCK CARS (HOBBIES), AND MODIFIED MINIS

- 4.2.1. Aluminum, high back racing seat required.
 - 4.2.1.1. Steel framework around the seat is recommended.
 - 4.2.1.2. Installation is subject to tech approval.
 - 4.2.1.3. Right side head support is recommended.
 - 4.2.1.4. Instal according to manufacturer instructions.

4.3. BOMBERS, HORNETS, ENDURO

- 4.3.1. Bench seats are prohibited.
- 4.3.2. Aluminum, high back racing seat HIGHLY RECOMMENDED
- 4.3.3. Installation is subject to tech approval.

5. FUEL CELL

- 5.1. When A fuel cell is used. It must be mounted in the trunk area.
 - 5.1.1. Fuel cell must be encased in a 20 gauge metal container and be in a box tube cage.
 - 5.1.2. Cage must be made from 1" box tube steel.
 - 5.1.3. Cage must frame all 6 sides of the fuel cell and metal container.
 - 5.1.4. The fuel cell assembly must be securely mounted to the car's frame'.
 - 5.1.5. Must have ground clearance of at least 10".
 - 5.1.6. Must have a ground strap.
 - 5.1.7. The fuel cell must be fuel tight and have a functional roll over valve.

6. FUEL LINES

- 6.1. Fuel pick-up point must be from the top of the fuel cell.
- 6.2. Fuel lines must be secured to the car and must not touch the ground at any time.
- 6.3. Fuel lines running through the driver's compartment must be secured inside conduit. Conduit must be continuous from back panel to front firewall.

7. WHEELS AND TIRES

- 7.1. Only Approved tires allowed.
 - 7.1.1. Stock Cars: Used Hoosier G60-15 tires approved, New Southwest speed 26x8x15 tire approved
 - 7.1.1.1. Used hoosier G60-15 tires are defined as having no more than 5/16" tread
 - 7.1.1.2. Grooving and siping allowed.
 - 7.1.2. Modifieds & Mini- Mods: Hoosier G60-15 tires approved, Southwest speed 26x8x15 tire approved, Hoosier 970-15 approved

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- 7.1.2.1. Grooving and siping allowed.
- 7.1.3. Mini Stocks: 13 inch comparable in tread width and compound to mini mod rule. Subject to track approval. Durometer may be used to test comparability.
 - 7.1.3.1. Grooving and siping allowed.
- 7.1.4. Hornets, Jr. Hornets, Bombers
 - 7.1.4.1. DOT radial passenger car tires required.
 - 7.1.4.2. NO aggressive mud/snow tires.
 - 7.1.4.3. NO wheel weights allowed.
 - 7.1.4.4. NO Studded Tires
 - 7.1.4.5. NO DOT approved made for racing tires.
- 7.2. Wheels
 - 7.2.1. Magnesium Wheels are strictly prohibited in ALL classes. NO EXCEPTIONS.
 - 7.2.2. Wheel weights are strictly prohibited in ALL classes.
 - 7.2.3. Wheel spacers are allowed.
 - 7.2.3.1. Only one spacer per wheel.
 - 7.2.3.2. Spacers may not exceed one inch in total thickness.
 - 7.2.4. Bead locks are allowed.
 - 7.2.5. **Hornets, Jr. Hornets, Bombers** - any reinforced stock wheel or steel racing wheel,
 - 7.2.5.1. Wheels are not to exceed 8"width.
 - 7.2.5.2. Wheels may not be offset except for minimum tire clearance.
 - 7.2.6. **Mini Stocks** - Any 15 or 13 inch reinforced stock or racing type steel wheel may be used.
 - 7.2.7. **Stock Car (hobbies), Mini Mods** - Any 15 inch reinforced stock steel or racing type steel wheel may be used.
 - 7.2.7.1. Only the Mini-Mod cars purchased IN 2021 & 2022 with aluminum wheels will be allowed to run the aluminum wheel. When a replacement wheel is necessary, it must be replaced with an approved steel wheel.
- 8. **BATTERIES & ELECTRICAL**
 - 8.1. Master switch is required. It must be located in the middle of the dash within the reach of the driver and within reach from both sides of the car.
 - 8.2. Only one battery allowed.
 - 8.3. May be relocated, Battery must be securely mounted in a box behind the driver.
 - 8.4. Must have a non-conductive pad over the posts to prevent accidental arching when left in stock location.
 - 8.5. Use a marine type container or better.
 - 8.6. Gel/AGM batteries recommended.
- 9. **Build to the rules, not around them.**
- 10. **ROLL CAGE**
 - 10.1. **Roll Bar** - minimum requirement for Bombers, Hornets, and Enduro Cars

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- 10.1.1. The roll cage must be constructed using 1.50" or 1.75" O.D. or greater steel tubing, with a minimum wall thickness of .095".
 - 10.1.1.1. Structural steel tubing only (mild steel OK).
 - 10.1.1.2. NO tubing on the car can be greater than 2" in diameter.
 - 10.1.1.3. NO butt welds allowed.
- 10.1.2. The roll cage must have a 2 main upright roll bar installed directly behind the driver.
 - 10.1.2.1. Roll bar must consist of a main hoop that clears the driver's head when strapped in with helmet on.
 - 10.1.2.1.1. A horizontal spreader bar and/or x bracing is required.
 - 10.1.2.2. 2 forward "kicker" bars are required to provide additional door protection and roll over stability to the roll bar.
 - 10.1.2.2.1. Kicker bars will be installed in a manner that provides additional driver door and passenger door protection.
 - 10.1.2.3. All upright and kicker bars must be fastened to the floor of the unit body with a minimum of 3/16 inch thick steel plates on top and bottom of the floor pan.
 - 10.1.2.3.1. Each plate shall be 4 inch x 4 inch with 4 - 3/8 inch bolts securing top and bottom plates together.
 - 10.1.2.3.2. Each upright bar must be securely welded to the top plate.
 - 10.1.2.3.3. Cages welded into the frame of full frame cars are subject to tech approval. Plating may not be required.
- 10.1.3. Cars running a roll bar cage are required to run a grader blade or steel plate outside the driver's door.
 - 10.1.3.1. Plates must be a minimum of 6" wide, 3/8" steels and extend 6" forward of the driver door and 12" behind the driver door.
 - 10.1.3.2. Grader Blades must extend 6" forward of the driver door and 12" behind the driver door.
 - 10.1.3.3. Plates and Blades must be mounted flush to the door and be welded or securely bolted in place.
 - 10.1.3.3.1. Bolted Plates and Blades must have adequate washers or plates inside the door.
 - 10.1.3.3.2. There shall be no sharp edges or "tire cutters".
 - 10.1.3.3.3. Plates and Blades shall be mounted so that another car can not hook the edges of the plates and blades
 - 10.1.3.4. Subject to Tech Approval.
- 10.1.4. No part of the cage may extend beyond the driver compartment. (may not pass through any firewall, floor pan, or roof)
- 10.1.5. Roll bar padding is required on all roll cage components within the reach of the driver. (Hands, legs and feet.).
- 10.2. 4 point cage** - optional for Bombers, Hornets, Enduro Cars. Required for Jr. Hornet Cars

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- 10.2.1. The roll cage must be constructed using 1.50" or 1.75" O.D. or greater steel tubing, with a minimum wall thickness of .095".
 - 10.2.1.1. a. Structural steel tubing only (mild steel OK).
 - 10.2.1.2. b. NO tubing on the car can be greater than 2" in diameter.
 - 10.2.1.3. c. NO butt welds allowed.
- 10.2.2. The roll cage must have a 4 main upright bar center section
 - 10.2.2.1. a. Center section must consist of a main hoop with "X" bracing and halo that clears the driver's head when strapped in with helmet on.
 - 10.2.2.2. 2 rear "kicker" bars are optional may be x braced
- 10.2.3. All upright and kicker bars must be fastened to the floor of the unit body with a minimum of 3/16 in thick steel plates on top and bottom of the floor pan.
 - 10.2.3.1. Each plate shall be a minimum 4 inch x 4 inch with 4 - 3/8 inch bolts securing top and bottom plates together.
 - 10.2.3.2. Each upright bar must be securely welded to the top plate.
 - 10.2.3.3. Cages welded into the frame of full frame cars are subject to tech approval. Plating may not be required.
- 10.2.4. A minimum of three horizontal door bars on the driver's side are required.
 - 10.2.4.1. a. A minimum of one vertical "tie-in" tube connection is required between each horizontal bar.
 - 10.2.4.2. b. Driver's door MUST be plated with at least 1-gauge steel plating.
- 10.2.5. Passenger door bracing required.
 - 10.2.5.1. a. Passenger door must have a minimum of 2 horizontal bars with one "tie-in" connection, "X" bracing or "Z" bracing.
 - 10.2.5.2. When a passenger seat is present, driver's side specs apply to the passenger side.
- 10.2.6. No part of the cage may extend beyond the driver compartment. (may not pass through any firewall, floor pan, or roof)
- 10.2.7. Roll bar padding is required on all roll cage components within the reach of the driver. (Hands, legs and feet.).

10.3.

10.4. FULL CAGE - minimum requirement for Modified Minis and Stock Cars (hobbies), not allowed in Hornets, Bombers, and Jr. Hornets

- 10.4.1. The roll cage must be constructed using 1.50" or 1.75" O.D. or greater steel tubing, with a minimum wall thickness of .095".
 - 10.4.1.1. a. Structural steel tubing only (mild steel OK).
 - 10.4.1.2. b. NO tubing on the car can be greater than 2" in diameter.
 - 10.4.1.3. c. NO butt welds allowed.
- 10.4.2. The roll cage must have a 4 main upright bar center section and 2 rear "kicker" bars fastened to the floor of the unit body with a minimum of 3/16 in thick steel plates on top and bottom of the floor pan.

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- 10.4.3. a. Center section must consist of a main hoop with “X” bracing and halo that clears the driver’s head when strapped in with helmet on.
- 10.4.4. b. Kickers may be “X” braced.
 - 10.4.4.1. Each plate shall be at least 4 inch x 4 inch with 4 - 3/8 inch bolts securing top and bottom plates together.
 - 10.4.4.2. Each upright bar must be securely welded to the top plate.
 - 10.4.4.3. Cages welded into the frame of full frame cars are subject to tech approval. Plating may not be required.
- 10.4.5. A minimum of three horizontal door bars on the driver’s side are required.
 - 10.4.5.1. a. A minimum of one vertical “tie-in” tube connection is required between each horizontal bar.
 - 10.4.5.2. b. Driver’s door MUST be plated with at least 10-gauge steel plating.
- 10.4.6. Passenger door bracing required.
 - 10.4.6.1. a. Passenger door must have a minimum of 2 horizontal bars with one “tie-in” connection, “X”bracing or “Z” bracing.
 - 10.4.6.2. When a passenger seat is present, driver’s side specs apply to the passenger side.
- 10.4.7. Front and rear hoops permitted.
- 10.4.8. Radiator supports and front hoops for radiator protection are allowed.
- 10.4.9. Roll bar padding is required on all roll cage components within the reach of the driver. (Hands, legs and feet.).
- 10.4.10. Nerf Bars are required on the Mini-Mods.
 - 10.4.10.1. a. Nerf bars must be within 1/2” of the outside of the tires.
 - 10.4.10.2. b. Ends must wrap back towards the frame and leave no blunt or sharp ends.
- 10.4.11. Nerf Bars are optional on Stock Cars (Hobby Stock), Bombers, Hornets, Jr. Hornets and Enduro cars.
 - 10.4.11.1. a. Recommended 1” x 2” box steel with tapered ends.
 - 10.4.11.2. b. Mount the nerf bars with the same pipe used for the roll cage. Attaching to the roll cage through the car body.
 - 10.4.11.3. c. Must be within 1/2” of the outside of the tires and terminate inwards and have no sharp edges.
- 10.4.12.
- 10.5.** Micro Sprints and Modified should refer to their class rules for Cage Specs.