

MINI CAR CLASS RULES

New for 2024: We will allow cars built to Stirrin Dirt's 2024 mini car rules. Those rules can be found at <https://stirrin dirt racing.com/official-rules/> If you feel that there is something in either set of rules that will benefit your build, please feel free to add it. However, if judges have questions, please be prepared to defend your build with reference to a specific rule in either set. All decisions and allowances are at judge's/tech's discretion and final.

PLEASE LEAVE THE DRAMA AT HOME!!!

- Qualifying cars include any Front Wheel Drive (FWD) or Rear Wheel Drive (RWD) car with a wheel base of 110" or less. All Wheel Drive (AWD) or 4 Wheel Drive (4WD) cars must be modified so only the front or back tires only have power.

WE ARE PRIVILEGED TO USE THIS FACILITY PLEASE TAKE EXTRA CARE IN STRIPPING YOUR CAR!

Exterior Preparation

- Original factory gas tank must be removed unless it is in front of the rear axle and is the gas tank being used.
- No added weight is permitted beyond what is allowed in the rules. All glass, plastic and exterior hardware (door handles, chrome, mirrors etc.) must be removed.
- All trailer hitches, brackets and framework must be removed.
- Sedagoning- converting a wagon to a sedan is not permitted.
- Radiator must remain in factory stock position. Body mounts may not be changed for the exception of 2 at the core support and 2 in the trunk.
- Hoods must have a minimum 12" hole cut in the center and located in a position that will allow a fire to be properly extinguished. g. Numbers must be at least 18" tall and located on the sides and top of the car. Roof signs are permitted and must be securely fastened.

Interior Preparation

- All flammable material must be removed for the exception of the driver's seat and safety padding. **Airbags must be removed!**
- Inner wagon panels may remain but the seating material needs to be removed.
- Holes bigger than 6" in diameter must be covered.
- Holes may be cut in the firewall or floor to allow access for shifters, cables, and hoses. Sharp edges of sheet metal may be folded. No welding or bolting of cuts permitted.
- All debris must be removed from the car.**
- Driver's seat must be securely fastened.
- Safety padding is required on driver's door and any bars or pillars near the head/body.
- Battery must be relocated to the interior of the car and securely fastened to the floor. Battery must be covered with rubber during competition.
- Electric fuel pumps are permitted. A metal fuel tank, maximum of 6 gallons, must be securely fastened to the floor behind the driver's seat. Vent tube must lead outside of the car, preferably through the floor.

Safety

- a. All interior bars may not exceed a 6" outer-diameter and may not have greater than 10" x 10" x 1/2" end plates. Bars must be straight with no contoured pieces and have a minimum 1/8" wall thickness. 2 a. End plates are MANDATORY on seat bar and dash bar and must be welded in place. No end-plate bolting allowed.
- b. All cage components must be connected to sheet metal only. 4 bars may be welded to the frame directly below the cage bars.
- c. Cage components must be a minimum of 6" off any floor pan sheet metal or body mount elevation and 4" from transmission tunnel sheet metal.
- d. A bar behind the driver seat is mandatory. It may not be located more than 8" from the final resting position of your seat. An optional bar may be put where the dashboard was located between the front door posts. Dash bar must be a minimum of 6" away from the center of the firewall.
- e. The driver's door must have a connecting bar between the dash bar and the seat bar, have a bar welded to the outside of the door extending no more than 6" past the door seam, or be "skinned" for driver's safety.
- f. Your halo bar MUST be at least 2" and no bigger than 6" and be attached to the seat bar and roof and be located behind the driver's seat.
- g. Halo bars must be in a direct vertical line with the seat bar. You may bolt or weld the halo or roll bar to the roof up to 6" in two places. The halo bar must be attached to the floor sheet metal or to the frame. A total of only 4 bars may be welded to the frame.
- h. Bars may not conceal body mounts. a. All bars in proximity to the driver must be padded.
- i. 2 Window bars are required in the front and back window. They may not be attached more than 6" to the roof and hood and cannot be longer than 3'.
- j. You may use a 4" x 4" single bar gas tank protector. The protector may go around the tank and may ONLY be connected to the rear seat bar and must be lower than the speaker deck and must be 6" away from all sheet metal.
- k. Seatbelts are mandatory.
- l. All drivers must wear an approved Helmet with eye protection. Goggles are recommended.
- m. **NO KICKERS!**
- n. **Cars must demonstrate the ability to stop at any time.**

Motor and Drivetrain

- a. Only 6 or 4 cylinder motors are allowed.
- b. Carburetor and EFI swaps are allowed.
- c. Lower cradles may be used and only secured to the original car engine cradle.
- d. Swapped motors must be secured inside the factory motor mount footprint.
- e. Motor mounts may be welded to the frame at the original factory location.
- f. Stock upper mounts may be solid but must attach in original fashion and with original brackets.
- g. Transmission mounts may be solid. One wrap of chain around the transmission and sub frame is allowed.
- h. Chain may be used to secure the motor. Chain may be welded to or looped around the frame. Motor mounting chain links may be welded.
- i. Any rearend may be used if there is no modification to the rearend or mounting hardware to mount it. 2

- j. 2"x2" square tube may be used to mount the transmission in place of the stock transmission mount. This tube may not attach or touch the frame in more than 2 places at any time.
- k. Slider drivelines or slider CV axles may be used.
- l. No mid-plates, full engine cradles, or distributor protectors allowed.**
- m. 3 Bar transmission braces are allowed.

Suspension/Steering

- a. All steering components shall remain stock for the exception of the steering column from the steering box to the wheel which may be replaced with aftermarket components. Tie rods may be replaced with aftermarket components.

FWD:

- a. Front suspension may be solid. Aftermarket or homemade struts are allowed but must retain original mounting. Aftermarket ball joints are allowed.
- b. Rear suspension may be solid but must retain original stock mounting. Trailing arms/control arms may use 1" round stock for reinforcement. Round stock may not be doubled.

RWD:

- a. Shocks may be solid. Aftermarket ball joints are allowed.
- b. You may use 2 of the following per upper control arm: 3/8" chain or 3" x 3" x 1/4" plate to tie down control arm.
- c. A maximum of 6 leafs may be used with a 1" stagger. Leafs must be OEM width.
- d. 3 clamps per leaf. Coils may be welded in. 3/8" chain may be used over the humps and rearend, one loop per frame rail.
- e. A-Arms may be welded down using 3"x3"x1/4" straps on each side.
- f. Additional leafs and aftermarket coils may not be added. Leaf Spring hanger straps may be directly attached to the frame using one 1/2" bolt MAX per side. Leaf spring conversions are not allowed.
- g. One loop of chain or cable may be used around the rear-end to each frame rail.
- h. Any tire/rim combo may be used for the exception of bead locks. Only air may be used to fill tires.

Frames and Body

- a. No Tilting is allowed.**
- b. No Shortening of the frames allowed. For the exception of the rule: "Bumpers d."
- c. Frames may be cut and pre bent. Re-welding frame is not permitted.
- d. Tucking trunks is allowed but wedging of the trunk is not allowed.
- e. Doors, hood, and trunk lid must be securely shut and remain in their factory/stock position.
- f. Doors must be fully welded.
- g. Hood and trunk may be 100% welded or they may be secured using (3) sets of 2"x2"x6" angle iron with (3) 3/8" bolts in each per seam. Other methods that are allowed are 3/8" chain or cable, 4 loops per seam, or 3 bolts per seam that are no more than 8" x 1". The dash side of the hood is considered one of the seams.

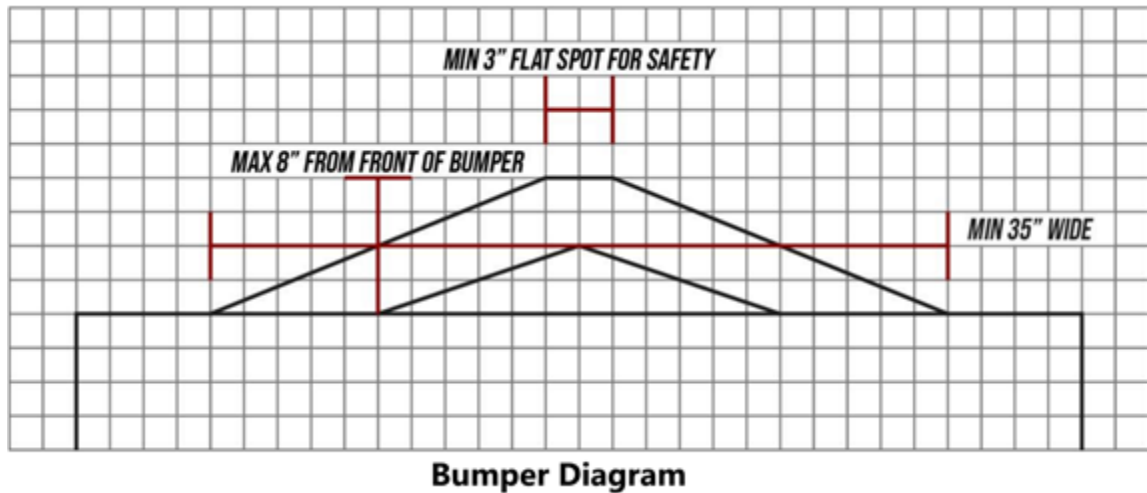
- h. Mixing and matching is allowed but each seam may only use one type of securing device.
- i. Maximum diameter of chain and cable is 3/8". All chain may be secured with a maximum of 2 bolts.
- j. Sub-framed cars may have one wrap of 3/8" chain per side from the frame rail/strut tower to sub frame. It may be placed anywhere between the firewall and core support.
- k. A maximum of 2 loops of chain or cable may wrap once around the bumper, through the hood and behind the radiator support. (2) 2" straps may be used instead of chain and may be welded to the bumper and the hood with no more than 6" of weld on each side. Strap may not be more than 3' long. Strap or chain may also be used to hold the back bumper on. Strap may not exceed 3'.
- l. Excessive use of chain or cable is not permitted and will be determined by the judges at the time of inspection.
- m. You may replace two radiator core support body mounts and 2 mounts in the trunk with 1" all-thread with a maximum of 3" washers. The all-thread may go through the core support and the hood. The all thread may be welded instead of bolted to one side of the frame.
- n. 5- 3/8" bolts with 1" washers may be used above the tires of each fender.
- o. Body creasing is allowed.

Welding

- a. Welding filler rod may not exceed 3/8 rod or 2" x 1/4" flat strap. You will be required to slice it if the strap is considered excessive.
- b. Roof mounted number plates may be welded to the top of the car.
- c. Safety brace bars must be welded to end plates. End plates must be welded to the interior sheet metal of the car.
- d. Motor mounts may be welded in the factory/stock position.
- e. Chains used to secure the motor may be welded to the frame within 3" of the A-arms. Motor mounting chain links may be welded.
- f. Spider gears may be welded.
- g. Bumpers may be welded to the bumper bracket.
- h. Bumper brackets may be welded to the frame in the factory/stock position.
- i. Bumper shocks may be collapsed and welded.
- j. If the car has a floor seam near the feet of the driver, it may be welded.
- k. The top of the frame/unibody seam may be welded with one pass 3/8" wide and with no filler.
FWD: From the front of the front shock tower forward. RWD: From the front of the upper control arm forward.

Bumpers

- a. Any bumper OEM or aftermarket may be used. Chrome may be welded to beam. A maximum 4" x 4" x 3/8" straight square tube that is open ended and no wider than the car may be used. In addition, a point may be added using the same square tube material as above but may not exceed more than 12" from the back edge of the square tube and must be a minimum of 35" wide. The point MUST have a minimum 3" flat section for safety. The ends must still be open. See Diagram - No skinning or additional metal may be added to the tube. Call with questions.



- a. _____
- b. No loaded bumpers
- c. Original bumper brackets may be welded to the bumper and frame.
- d. Original bumper brackets may be removed and replaced with a maximum: 23" x 4" x 1/4" flat strap, one per frame rail. The strap may not be welded more than 6" on the bumper and 17" may be welded to the outside of the frame with no filler added.⁵
- e. Hardnosing is also allowed.

Inspection

- a. All cars must pass inspection prior to competition.
- b. No arguing with the officials will be allowed. The officials will make their decisions based upon their best judgement and the rules as they are written.
- c. Safety will be one of the official's main objectives. If your car is deemed unsafe it will be disqualified.

Pre-ran cars

- a. **Call if you have specific questions. (435) 669-5697**
- b. 8 plates maximum may be used to repair obvious damage.
- c. You may use only ONE patch that is 6" x 4" x 1/4" thick plate for EACH repair. The patch may only be placed on the part of the frame that is damaged. There must be a clear, visible sign of damage from a previous derby. (Tear, crack, or extreme bend). This will be reviewed by the official at the time of inspection.

Aftermarket Parts Allowed:

- a. **Gas Tanks, Steering Columns, Struts, Battery Box, Headers, Transmission Coolers, Shifters, Drivelines, Aluminum Radiators, Seats, and Gas and Brake Pedals.**

b. Questions Contact: Jaden James 435-669-5697