



2021 Junior Cyclone Rules

The development of the Alien Motor Speedway Junior Cyclone class is to promote a greater interest in stock car/dirt track racing competition for 8- to 15-year-olds. It is designed to allow new and inexperienced drivers to become familiar with dirt track racing while competing against other drivers of the same age group. It is open to all competitors that are a minimum of 8 years of age and a maximum of 15 years of age the first time they compete. If the driver has previously competed in an upper level class (i.e. Mods, Claimers, Bombers, etc.), they will not be allowed to drop down to the Junior Cyclone class. General Manager Jeremy Pipes may approve a younger age. If a driver starts a racing at age 15 and turns 16 during the season, he or she will be allowed to finish the racing season.

All drivers must be able to start the car, shift gears, operate all safety equipment without assistance. Alien Motor Speedway will have a minimum of one pre-season test and tune just for this class where the drivers can be observed by track officials and gain approval to race. Alien Motor Speedway will require notarized release forms for all youth drivers. All drivers must register their numbers with Alien Motor Speedway.

Body: Two or four door sedan body with a steel top. Station wagons are allowed. Production wheelbase is 102" maximum. No modifications to the wheelbase are allowed. Rear wheel only – no front wheel drive. Cars must have a complete frame. Cuttings is allowed over rear axle to mount rear shocks but must be reinforced. Cars must have a complete firewall separating driver from the engine and separating the trunk area from the driver's compartment.

All chrome, glass, and trim must be removed. All flammable materials must be removed. Fenders may be cut for tire clearance but must maintain a stock configuration. All cars must have a minimum of two (2) hood pins or bolts to keep hood securely closed. The back of hoods must be completely sealed off and must stay that way while the car is in motion. No angle or channel iron can be outside of the car. Plastic nosepieces and tailpieces are allowed. Sheet metal or plastic skirting is allowed. No aluminum bodies are allowed. No Mini Mods or Dwarf car type bodies are allowed.

The cars must be OEM production body. A removeable inspection panel is required on the drivers dash area. Drivers will be required to pass thru scales just like every other class. Cars should be painted a bright color with contrasting numbers and lettering that can easily be read. All numbers must be 18" (if possible) on both sides and top of car. 6" numbers are required on the front and rear of the car.

Roll Cage: All cars must have a minimum six (6) point roll cage. All cages should be a minimum of 1 ¼" outside diameter x .095 wall steel tubing. WTR recommends 1 ½" outside diameter tubing. No welded corners. Roll cage around the driver must have padding. Drivers head with helmet must be at least 2" below the top of the cage. All cars must have at least three (3) door bars on the driver's side, two (2) bars on the passenger side. Door bars must be a minimum 1 ¼" x .095 (recommended 1 ½") wall steel tubing. Doors bars must be sufficiently gusseted and tied to the car at the bottom.

Bracing inside of the car is legal except under the fenders. No tube frame cars are allowed. A minimum of three (3) front window bars are required in front of the driver.

Bumpers: Front bumpers must be centered on frame rails and in its original location. Front bumpers to be 1 ½" o.d., pipe or tubing, and no more than 8" overall in height from top to bottom. Front bumpers must not extend more than 2" in front of any body part and be no wider than the center of the tire. Ends must bend back into the frame and be welded. No blunt or sharp edges and no channel iron is allowed. Two (2) radiator protection bars are allowed in front of the radiator and behind the bumper within the confines of the body. Rear bumper may wrap around rear quarter panel and must tie into the frame behind the rear tire. Rear bumper to be 1 ½" o.d. pipe or tubing and no taller than 12" from top to bottom. Stock bumpers are allowed.

Nerf Bars: Nerf bars must be flush with the body. No blunt or sharp edges allowed. Nerf bars must be 1' x 2' rectangle pipe or 1" square pipe only. Nerf bars are only allowed between wheels.

Engine: Must be an inline four-cylinder or stock inline-6 allowed, engine must be in the stock location. Only exclusion is Chevy. Call track for more details. Engine must be in stock location. No rotary engines or turbos allowed. No dual overhead cams. Engine must use stock block and head. Steel valves only. Engine must use stock intake but can be machined to receive carburetor only. Milling head to increase compression is allowed. No porting, polishing or port matching allowed. No grinding inside of ports. Straight is boring allowed for large valves but cannot go past short side radius. Bore cannot be polished.

Carburetor must be un-altered Holley #4412 or #5200 series with a stock venturi bore, stock throttle body, and stock booster location. Stock OEM carburetor allowed but not to exceed 500 cfm. No Weber or Mikuni carburetors allowed. Battery-type ignition only. No magnetos, dual points or MSD boxes allowed.

Any solid surface cam, valve springs, rockers and lifters are allowed. No roller cam/rockers. Adjustable cam gears are allowed. Stock exhaust or racing headers are allowed. Exhaust should exit under the car. Engine blocks and heads must have factory numbers. No strokers. 5-7 rods allowed. Must have stock OEM unaltered crankshaft. (i.e. 2.3 Ford – 2,3 crank unaltered) 1" sight plug in the side of the oil pan with a clear line of sight to the crankshaft and rods.

Start: Car must be able to start under its own power. If electric fuel pump is used, an automatic oil pressure cut off switch is required.

Drive Train: Standard or automatic transmissions are allowed. Automatic transmissions must use OEM torque converter. Transmissions must have at least two (2) forward gears and one (1) reverse. Rear end must be locked. Drive shafts may be altered or welded and be painted white. No dog clutches or multi-disc clutches. No couplers. No mini clutch. Clutch must match the make of the car! No aluminum flywheels are allowed. You must use steel flywheel.

Suspension: Front and rear suspension must be stock type but may be reinforced. No welding springs solid. No wooden blocks in springs. No type of adjustable front suspension parts. One shock per wheel. No weight jacks allowed. If weight jacks exist, they must be disabled. Added weight must be secured with bolts and the car number must be painted on the weights in white. No adjustable shackles on rear.

Tires and Wheels: 8" max steel wheels only. Rim centers must be completely welded and may be reinforced. Racing studs and lug nuts are recommended. D.O.T street tires only – NO RACING TIRES are allowed. Bead locks are allowed. No grooving of tires. Right rear mud plug allowed. No bleeder valves are allowed.

Radiator: Only one (1) radiator is allowed and it must be centered in the front of the car.

Battery: One (1) 12-volt automotive battery is allowed per car. The battery must be mounted in a box to the frame or cage.

Fuel and Fuel Tank: Racing gas is allowed. No additives are allowed. Racing fuel cell is required. Fuel cell must be mounted to the frame or bolted to cell frame. Fuel cell must be vented and have a Flapper Valve if no fire suppression

system is installed. Fuel cell should be 12" from either side of the car and 12" from the rear of the car body. Floor in trunk must have holes drilled into it to allow spilled fuel to drain.

Brakes: All cars must have a minimum of three (3) working brakes. Four (4) brakes are recommended.

Safety Equipment: Snell-rated SA95, SA2000 or SA2005 helmet is required. Roll bar padding is required in the driver's compartment (fire retardant is recommended). SFI-approved full fire suit is required. Fire retardant neck brace, gloves and shoes are required (fire retardant head sock and underwear, head and neck restraints are recommended). Driver's side window net is required – minimum 16" x 20" ribbon or mesh style and must be mounted so latch is at the top front of window. Minimum 3" wide five-point safety belt assembly is required (Y-type shoulder harness is NOT allowed). Harness must be securely mounted to the roll cage and recommended to be no more than one (1) year old and a maximum of two (2) years old. Kill switch is required and within easy reach of the driver. The switch must be clearly marked "ON" and "OFF."