

# ***2021 Mini Sport Rules***

**Mini Sport 2021 revised 11/1/2021**

## **1. ELIGIBILITY**

A. 1972 to present 4 cylinder front engine, compact cars and short wheel base mini trucks with conventional cabs.

B. NO Convertibles, Station Wagons, CRX, Volkswagen, Super cabs, Duallies, 4-wheel drives, or Blazer type vehicles.

C. NO cosworth, mid-engine, rotary engines allowed.

D. We reserve the right to refuse any vehicle not constructed within the spirit of these rules.

E. NO radios, or mirrors permitted.

## **2. ENGINES AND FUEL**

A. Any Natural aspirated 4 cylinder piston engine allowed. (Carbureted or fuel injected)

B. 2.5 Liter maximum.

C. Any fuel E85-110 octane. NO greater than.

D. NO Nitro, NO Nitrous Oxide, NO Propylene Oxide.

E. NO Turbo, superchargers, power additives allowed.

F. Water cooled, NO air-cooled, NO diesel.

G. Engine block may be decked. Cylinders may be bored out but shall not exceed .060 from the original manufacturers specs.

H. Aftermarket rods O.K.

I. Any piston O.K.

J. Any Cam O.K.

K. Any ignition is O.K.

L. Aluminum or steel heads O.K.

M. Maximum setback allowed for the engine will be (9) inches measured from centerline of the upper ball joint.

## **3. CARBURETORS, FUEL INJECTION AND INTAKE MANIFOLDS**

A. Any 2 barrel carburetor, 500 CFM Maximum, 2 inch spacer thickness maximum.

B. Fuel injection 650 injector's maximum with 75mm maximum throttle body. NO Independent Throttle Body allowed.

C. Any intake will be allowed.

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- D. Grinding, polishing, port machining or any other modifications allowed on the intake manifold.
- E. 2 throttle return springs must be used, one on the Carburetor, and one on the linkage.
- F. Carburetor hats O.K.

## **4. COOLING SYSTEM**

- A. One stock type radiator. Aluminum or plastic O.K. Must be mounted in front of engine, inside of body.
- B. No fiberglass flex fans.
- C. Electric fans O.K.
- D. NO antifreeze permitted.

## **5. ELECTRICAL AND COMPUTER**

- A. One passenger car battery only. Alternator optional.
- B. Battery must be mounted between frame rails, securely fastened. If battery is inside drivers compartment, it must be mounted inside of a steel box. All battery mounts are subject to tech approval.
- C. All vehicles must have a KILL switch clearly marked within the drivers reach, and be easily accessible from outside the car.
- D. All vehicles must have self-starters in good working order and be able to start the vehicle at the beginning of each race.
- E. MSD type ignition boxes may be used.
- F. Computer Tune, program permitted.

## **6. BODIES**

- A. Body must be complete. Truck beds may be gutted but must retain 1/4 panels and tailgate, or sheet metal that duplicates stock dimensions.
- B. Sheet metal slab bodies O.K. Fiberglass bodies O.K.
- C. Truck cabs must remain in stock location. Solid mounts O.K.
- D. Openings in hood O.K.
- E. Stock type bumpers from any source, (subject to tech approval). Center of front bumper shall be between 15-19 inches from the ground to the center of the bumper. Center of rear bumper shall be

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between 18-24 inches from the ground. (Steel tubing rear bumpers are permitted only with Tech approval.)

F. Mesh screens in front window allowed, or approved welded 3 bar protection. All glass and windows must be removed.

G. All interior upholstery must be removed.

H. All doors must be bolted or welded shut.

I. 4 hood pins required.

J. Removal of antenna, door handles, exterior mirrors, headlights, taillights, chrome strips, and any other exterior trim is mandatory.

K. Outer fenders may be trimmed for tire clearance only. All edges should be rolled to clear tires.

L. NO MIRRORS- NO EXCEPTIONS!!

M. Trunk may be gutted and must have adequate firewall between fuel cell and driver. Hatchback cars must have tech approved firewall.

N. Rear spoiler will be a maximum of 9 inches in height but do not have to have one.

## **7. FUEL SYSTEMS**

A. Fuel cells mandatory. Fuel cells must be securely installed between frame rails and must be enclosed in a minimum 20 gauge steel box. (All installations are subject to tech approval)

B. Cell can be no more than 5 inches below the rear frame rails.

C. Fuel line may run through driver's compartment but must run through steel tube.

D. All electric fuel pumps must have cut off switch.

E. Maximum fuel cell capacity is 16 gallons. Must have rollover valve vented outside of vehicle.

F. Filler spout to remain inside trunk or bed area and must be sealed off from drivers compartment.

## **8. CHASSIS AND SUSPENSION**

A. Tubular frame or chassis may be used with minimum wheelbase of 91 inches.

B. 4 link, 3 link, 2 link, leaf springs allowed.

C. Aftermarket parts allowed.

D. One shock per wheel and one spring per wheel may be used in any location. Race shocks O.K.

E. Weight jacks or coil overs O.K. But must not be adjustable from inside the vehicle.

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F. Frame may have clearance for rear-end housing to achieve ride height.

G. Quick steer O.K. Quick release mandatory.

H. Steering wheel must be on the left side of the vehicle

I. Power steering optional.

## **9. REAR END AND TRANSMISSIONS**

A. Any mini-truck or compact car transmission O.K.

B. Any rear-end is O.K., but must be mounted in stock manner; side to side, and front to rear locations. Quick change or floaters permitted. Rear-ends may be locked and gears may be changed.

C. Any type flywheels and clutch. Hydraulic throw out bearings O.K.

D. Automatic transmission must be stock and use torque converter.

E. Drive shaft must be stock and painted white. One 360 degree drive shaft loop placed towards front required.

F. Magnetic steel axels only.

## **10. WHEELS AND TIRES**

A. 15x8 wheel required.

B. Heavy-duty steel wheels only. No aluminum wheels. Bead locks O.K.

C. Wheel studs must be ½ inch or larger with 1 inch lug nuts.

D. Wheel spacers permitted.

E. Any offset permitted.

F. All wheel weights must be inside of wheels.

G. Hoosier G60 X 15 IMCA Stamped tire OR Hoosier 500's are the only approved tires.

## **11. BRAKES**

A. 3 wheel brakes in good working order mandatory.

B. No drilling or lightening of rotors or drums.

C. Proportioning valves front to rear only.

## **12. ROLL BARS (CAGE)**

A. Steel bars are mandatory and must be minimum 1 ½ inch wall tubing with a wall thickness of not less than .095 and must pass tech.

B. Roll cage must be a 6-point cage with a minimum of 3 horizontal bars on the driver's side and

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2 horizontal bars on the passenger side. Cage must have 2 rear brace bars and on the trucks may protrude outside of the body. All other bars must remain inside the body. Top of cage must be above helmet below roof.

C. Full front hoop permitted but must be completely inside the body.

D. IF YOU CAN'T WELD, GET SOMEONE WHO

CAN. All cages are subject to tech approval.

E. Offset cages O.K.

## **13. SEATS**

A. Aluminum racing seats only.

B. Seats must be fastened to roll cage. Minimum four, 3/8 inch bolts with washers and self-locking nuts.

C. Seats may be moved back, but remain on left side.

D. Must be approved by tech.

## **14. EXHAUST**

A. Any header allowed. Muffler not required.

## **15. SAFETY EQUIPMENT**

A. Driver side window net mandatory. No string nets. Must have quick release and clearly marked from outside of vehicle.

B. Fire retardant glove and suit mandatory. No nylon shoes permitted. No jackets or polyester clothing of any kind permitted.

C. A 2 pound minimum fire extinguisher with charge indicator mounted within easy reach of the driver is mandatory or tech approved.

D. Any approved 5-point seatbelt system with date stamp, no more than 3 years old is required.

All belts must be fastened to roll cage in an approved manner with minimum 7/16 inch grade 8 bolts with self-locking nuts. No belts may be attached to floor.

E. Helmets must meet S.N.E.L.L. 95 testing standards.

F. Eye protection, helmets, belts, driver's suit, neck brace, and gloves must be worn at all times on the racing surface.

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## **16. WEIGHT**

- A. All vehicles must weigh a minimum of 2000 lbs. At all times including driver with Empty fuel cell.
- B. Maximum of 58% left hand weight only. Other weights may be adjusted for competition purposes.
- C. The vehicle number must be painted on weights.
- D. Driver “may be” DQ’d for weight lost on the track.

**VERY IMPORTANT:** Remember if the scorekeepers can’t read your number, they can’t score you. It is YOUR responsibility to make sure they are readable.

INTERPRETATION OF ANY AND ALL RULES IS AT THE DISCRETION OF MOHAVE  
VALLEY RACEWAY OFFICIALS AND THEIR DECISION IS FINAL.