

ADAMS COUNTY SPEEDWAY
Corning, Iowa

2012 MODIFIED RULES & SPECIFICATIONS
(Changes from prior year are **bold and underlined**)

ROLL CAGE & FRAME

Roll cage must be a continuous hoop with a minimum 1.66" O.D. and a wall thickness of at least .095. Low carbon mild steel tubing recommended. Cage must be fastened to the frame in at least six places and consist of a configuration of a front and rear hoops connected by tubing to the sides or side hoops. Driver's head must not protrude above cage when strapped in the driver's seat. Roll cage must be securely fastened and supported and braced with a minimum of one cross bar in the top halo. Foot protection bar required.

Door bars, and minimum of three bars required on the drivers side and must be a minimum of 1.5" O.D. and .083" thickness and must be as parallel with the ground as possible and perpendicular to the driver.

Passenger side (right hand side) must have one cross bar, horizontal or angled, minimum of 1.25" O.D.

Driver's side steel door plate, 18 gauge or .049" minimum thickness must cover area from top door bar to rocker panel and from rear down post to five inches in front of seat. Must be visible for inspection.

Only factory production complete full 1960 or newer parallel American rear wheel drive passenger car frames only. No sports car frames allowed. Frames may only be cut at a point no further forward than 36" from the center of the rear end housing.

No jeep, bronco, SUV, or 4 wheel drive type frames allowed.

No front clips or tube type frames allowed. Must use OEM front stub.

Frame may not be widened or narrowed and must be able to support roll cage on both sides. Front cross member may be notched and boxed for radiator and/or steering clearance only.

Minimum wheelbase of 108" both sides.

Maximum overall width, front and rear, will not exceed 78" from outside of tire to outside of tire. Outside of tire must be the widest part of car.

No part of the car can be lower than 4" off the ground except the front cross member.

SUSPENSION

Front suspension and steering must be steel, unaltered OEM in stock location and be replaceable by OEM parts. OEM centerlink may be reinforced.

Outer tie rod ends and adjustment sleeves may be replaced by a min. 625" rod end and steel tubing.

Stock passenger car spindles only. No fabricated spindles.

Bottom A-frame may be OEM or stock replacement.

No offset or bearing type lower control arm bushings.

Tubular upper A-frames allowed and may be moved. Aluminum cross shafts allowed.

Front sway bar must be stock OEM.

All suspension, steering, and rear end parts must be steel.

OEM steel steering boxes only. No rack and pinion steering allowed. Steel steering shafts and knuckles only.

Steering may be modified to suit driver, but must be kept on the left hand side of the car.

Steel coil over eliminators or steel/aluminum coil over kits allowed on rear suspension only. Must conform to the shock and spring rule.

Rear frame may be altered to except leaf or coil springs.

Any coil spring must be a min. or 4.5" O.D. One steel spring per wheel.

No torsion bars or air bags allowed.

One spring allowed on pull bar or lift bar, may be progressive.

One mechanical traction bar (pull or lift). Brake bar allowed. Only one non-adjustable chain allowed attached to chassis with no dampening device - spring, shock, or rubber biscuit. Chain must be loose with driver seated in race ready car.

Rubber bumpers allowed only on panhard bar and mechanical traction bar. No sway bar.

One steel, non-adjustable, unaltered shock per wheel.

One shock allowed in lift or pull bar area.

No bumpers or stops.

No threaded body, front coil-over, air or remote reservoir shocks.

No Schrader valves. Front half may be shielded.

Shock claim see General Rules

Gas or oil filled shocks only.

TIRES & WHEELS

IMCA Hoosier G60-15 **and** BTC stamped American Racer KK704 are only tires allowed

No softening or conditioning of tires allowed.

- 1 All grinding, grooving, and siping ~~is allowed. must be done within original tread lines.~~ All tires must durometer a
- 2 minimum of 50 at ambient temperature
- 3 Rim mounted bleeder valves allowed.
- 4 Steel, reinforced 15" X 8" wheels only. No wide five wheels allowed.
- 5 Bead lock allowed on right rear wheel only.
- 6 Steel or aluminum spacer between hub and wheel allowed.
- 7 Mud cover allowed. Inner mud cover allowed on left rear only.

8 9 **DRIVETRAIN**

10 **Transmissions,**

- 11 OEM production type transmissions including 3, 4, speeds and automatics allowed. No 5 speeds allowed
- 12 Bert & Brinn type transmissions allowed
- 13 Must have at least two (2) working forward gears and reverse. No "in & out" boxes.
- 14 Must be clutch operated. Driver must be able to engage transmission in a forward and reverse gear and move the car
- 15 backwards and forward.
- 16 Clutch type transmissions must be equipped with explosion proof steel bell housing.
- 17 Automatics must remain in OEM or OEM replacement case, with a functioning OEM appearing pump. Must have
- 18 approved scatter shield. Scatter shield must be constructed of minimum of .125-inch by three-inch steel, 270 degrees
- 19 around flexplate.
- 20 Steel driveshaft and yokes only, must be painted white.
- 21 A 360 degree drive shaft loop is required and must be constructed of at least 1/4" X 2" steel strap or 1" tubing
- 22 mounted 6" behind the front u-joint.
- 23 KSE style rear mount pumps allowed.

24 25 **Rear end,**

- 26 Any passenger car or truck rear end allowed.
- 27 No aluminum allowed, except lowering blocks, end caps, and drive plates.
- 28 No cambered rear ends.
- 29 Quick change rear ends with steel tubes allowed.
- 30 Rear ends must be full spool or mini spool.

31 32 **Brakes**

- 33 Must operate on all four wheels.
- 34 No shut off valves or pressure sensitive devices allowed.
- 35 Proportioning valve allowed, front to rear only.
- 36 All brake lines must be visible.
- 37 Must maintain minimum OEM dimensions for hubs/rotors and calipers cannot be lightened.
- 38 Steel calipers only.
- 39 Rotors may be re-drilled for a different bolt pattern or larger studs.
- 40 Vented rotors only, no scalloped or ceramic coated rotors.

41 42 **ENGINE**

- 43 All engines used in competition must be able to use in a conventional passenger car without alterations. Casting and
- 44 fittings must not be changed or altered. No machine work done on the outside of the engine block, or front or rear of
- 45 camshaft.
- 46 Any American make engine may be used as long as the rear of the engine is mounted at least 72" forward from the
- 47 centerline of the rear axle.
- 48 Engine off set must be kept within 2" of the centerline of the front cross member. Engine height of 11" minimum from
- 49 ground to front center of crankshaft.
- 50 No totally dry sump oil systems allowed. Wet system must be operative and will go with claimed engine.
- 51 Steel engine blocks only.
- 52 Steel heads only.
- 53 Hydraulic or flat tappet cams only, no roller cams.
- 54 Roller rocker arms allowed.
- 55 Stud girdles allowed.
- 56 One radiator in front of engine allowed. All overflow tubes must be directed toward the ground inside the frame rails.
- 57 No electric fuel pumps allowed.
- 58 One two or four barrel carburetor allowed. Choke horn may be removed.
- 59 Carburetor must be mounted so the throttle shaft is perpendicular to the crankshaft.
- 60 Must be naturally aspirated.
- 61 No fuel injection.

1 If a belt driven fuel pump is used, you must leave a lobe on the camshaft so a claimed engine may use a stock type
2 fuel pump.

3 Top ~~and bottom~~ of air cleaner must be metal.

4 Headers; Must be mounted in a way as to direct spent gases away from driver and away from any fuel spillage. Right
5 side header must be directed toward rear of car.

6 No Tri-Y, zoomies or 180 degree headers allowed.

7 Mufflers are mandatory.

8 Adapter plates on 2 barrels may be no thicker than necessary to allow butterflies to clear. Cars running a 500 c.f.m.
9 model 4412 Holley can be altered to run alcohol and will be allowed a 100 pound weight break and may run 5" of
10 material for spoiler with 3 braces 12" long and 1" tall in the front.

12 FUEL

13 Gasoline, racing gasoline, E-85 ethanol, E-98 ethanol, or alcohol allowed. No performance enhancing additives
14 allowed. No oxygen bearing additives. No nitrous oxide allowed. Upper cylinder lube allowed.

15 Racing fuel cells required and must be mounted by at least two solid steel straps 2" wide around fuel cell.

16 Fuel cell must be enclosed in a steel container and must be mounted behind the rear axle and between the rear
17 frame rails, no lower than 6" off the ground, protected by roll cage tubing.

18 Protective tubing must cover the rear and extend past both ends of the fuel cell.

19 All lines must come out of the top of the fuel cell and all vent and return lines must have check valves to prevent
20 leakage in the case of a rollover.

21 No vented caps.

22 Fuel cells will be limited to 32 gallon max. capacity. Fuel cell must be mounted in 18 gauge steel container.

24 WEIGHT RULE

25 2450 pounds minimum after race with driver. No tolerance.

26 All weight must be in block form of no less than 5# blocks.

27 All weight must be securely fastened to frame with at least two grade 5 or better 1/2" bolts. No redi-rod. Bolt on
28 clamps highly recommended.

29 All weights are to be painted white with car number on them.

30 All cars will weigh after heat race. Top 5 in feature event will weigh, plus any driver wishing to claim.

32 BODY

33 All bodies are subject to Tech Official approval. Bodies are expected to resemble IMCA Modified type racecars. All
34 sheet metal seams shall have the lip on the underside leaving a smooth top.

35 Body must be same width, front and rear, and parallel to the frame.

36 Engine compartment must remain open, no side panels. Hood must be enclosed at rear.

37 Both door panels must be even with rear of block at top of door but no more than 12" from rear of block on bottom of
38 door.

39 No panel in front of right door to engine compartment. No inner panels. No car covers.

40 Must have front windshield and rear window support post.

41 Both right and left side windows must have at least 12" wide opening at its narrowest point. Recommend a 14"
42 opening if driver has hard time fitting in a 12" opening.

43 Roofs may be steel, aluminum, or fiberglass.

44 No wings or any other ground effects are allowed anywhere outside or inside the car.

45 No spoilers or spoiler braces allowed except on 2 barrel package.

46 Maximum 2.250 inch side fins allowed on aluminum nose. MD3 plastic nosepiece, part#020-410 allowed.

47 Must run rear filler panel.

49 DRIVERS COMPARTMENT

50 Complete floor pan required. Aluminum high back seats only and must be bolted in next to the left side frame rail and
51 ahead of rear tires. Bottom of seat can be no lower than the bottom of the frame rail. Driver must be completely
52 sealed off from racetrack, driveline, engine, fuel cell, canisters and pumps.

53 Accumulators cannot be mounted between driver and left side door bars.

54 No mirrors allowed.

56 BUMPERS AND RUB RAILS

57 Steel bumpers must be used on front and rear of car at all times. Bumpers must be mounted with 3/8" or larger
58 hardware and must be made of min. 1.25 "O.D. tubing with .065" wall thicknesses on front and .095" wall thickness
59 on rear. Two bar front bumpers must be mounted frame end to frame end, no wider than the width of material outside
60 frame horns. Bottom loop must be parallel to ground. Top bar must be directly above bottom bar, at least 6.5" apart.
61 (Measured center to center).

1 Rear bumpers and nerf bars can be no wider than tires; outside of tires must be the widest part of car. Rub rails and
2 nerf bars must be steel.

3

4 **ELECTRICIAL**

5 Battery operated ignitions only. No magnetos or crank triggered ignitions allowed. No more than one coil may be
6 used.

7 No transmitting or listening devices in cars except the required Raceceiver radio. No timing retard controls. No
8 electronic monitoring computer devices capable of storing or transmitting information except tachometer.

9 No adjustable ignition control boxes.

10 Only change allowed to ignition box is one high end rev-limited setting. This setting can be changed through one chip
11 only, or an internal setting inside box.

12 Only one ignition box allowed.

13 One battery allowed. Battery must be securely mounted inside frame rails, ahead of the rear of the fuel cell and
14 shielded.

15 Car must be able to start under its own power, without being pulled or pushed.

16 No electronic traction control devices allowed.