

MODIFIED RULES

NOTE TO TOP SPEED MODIFIED (USA MODIFIED)

- All Modified cars with a current TOP SPEED MODIFIED membership license in good standing for the 2012 season will be legal to run in this class.
- Driver must show current TOP SPEED MODIFIED license to the Auto City Speedway tech official prior to qualifying for an event.
- The above means that a car that is legal according to the TOP SPEED MODIFIED rulebook or the A.C.S. rules outlined here is legal to race at Auto City Speedway.

The primary exceptions or additions to the TOP SPEED MODIFIED rules are as follows:

- Ford front clips with lower control arm and strut rod type suspension is allowed provided the original OEM design is maintained.
- All weights, frame and body height measurements are performed with the driver in the car, buckled up with helmet on, and the front tires pointing straight ahead. Race cars that enter the Tech garage and are placed on the scales for official weighing, **“WILL NOT” be allowed to be touched by racer or crew members during car inspection.**
- Radios and mirrors are not allowed.
- There may be other rules as well. Please read and understand all the rules.

BATTERY

- A. Must be securely mounted and shielded.

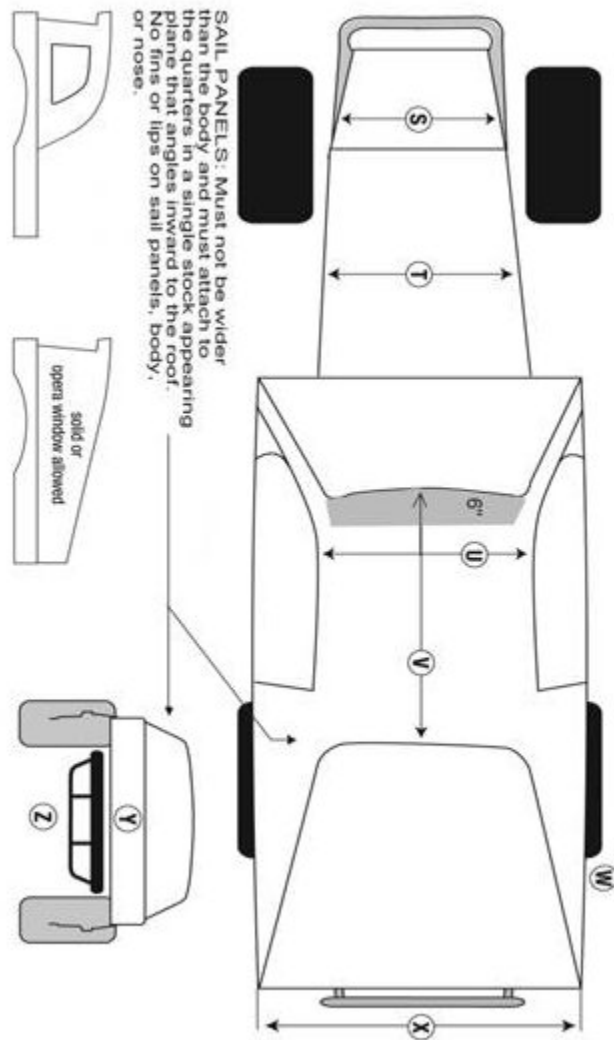
BODIES

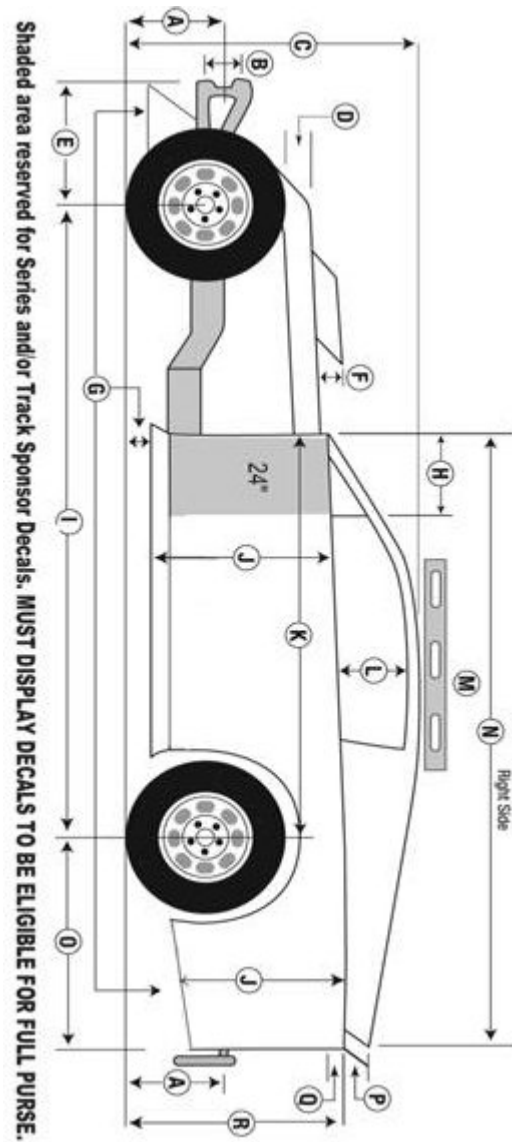
- A. 1970 or newer compact passenger car only. No panel vans or wagons. Stock appearing front windshield and rear window support unit. Painted roll bars are not a substitute. May utilize a half windshield, flat with no wings mounted on roll cage. Must have a minimum of three bars in front of driver for protection.
- B. Firewall and floorboards are mandatory. All body parts should be recognizable as factory production vehicle. Fiberglass or metal duplicates of body parts are permitted. Parts should appear as factory. No plastic body parts allowed. Bodies should be neatly painted.
- C. Original roof line of vehicle must be maintained. **Roof "cannot" remain flat with raised rear, resembling a wing. Roof may be fiberglass or aluminum (no carbon fiber) full size, rounded and stock appearing.** You must run full upper & lower nose. No plastic nose piece, Part #020-410 available from fine star bodies are the only

approved plastic body parts..No wings or ground effects allowed outside or inside the car on weekly events. Sail panels must resemble examples shown on body diagram. Any reinforcing lips on rear sail panel must be 180-degree bends.

- D.** Cars must be numbered with an 18" high by 2" wide strokes on both sides and on top of car. 6" should appear on rear of car and on one nose piece.
- E.** Engine compartment will remain open. NO side panels, hood sides may have a maximum 4" drop and must be enclosed at the rear of the hood. Maximum hood scoop height is 6". Bodies must extend no further forward than the back of the block. Passenger side of body must be no further forward than the back of the block. Rear of bodies must be solid panel of at least 8" high. No panel in front of right door to engine compartment. No inner panels.
- F.** Driver and passenger side windows must be at least 12" openings. Left side window net is MANDATORY with a quick release mechanism on the top front of the net.
- G.** No car cover or any covers on any suspension parts.
- H. BODY AND BUMPER DIMENSIONS: SEE DIAGRAMS:**
 - (A) 20" Max. – 16" Min. (Ground to center of bumper front & rear)
 - (B) 6.5" Min. (Center to center)
 - (C) 52" Max. – 42" Min.
 - (D) 6" Max. Hood sides – 3" Max. Rake in hood.
 - (E) 42" Max. (Bumper & Nose)
 - (F) 6" Max. (Scoop/Deflector)
 - (G) 4" Min. at Nose, Sides and Quarters
 - (H) 19" Max. Window corners (Same both sides)
 - (I) 112" Max. – 108" Min.
 - (J) 29" Max. – 22" Min.
 - (K) 72" Max. Or not past back of block, right side. Left side may extend forward to cover foot box if necessary.
 - (L) 18" Max. – 12" Min. Opening, both sides.
 - (M) With 4' level, must have 2" max. clearance at rear and 5" max. at front
 - (N) 120" Max. – 106" Min.
 - (O) 45" Max. – 34" Min.
 - (P) 3" Max. height at rear of sail panel, gradual slope from roof to this point. Also see spoiler rule.
 - (Q) Interior slope is 6" Maximum. Front to rear and flat across. If flat at front half of interior you have used up 50% of your 6" so from behind the driver to the rear you only have 3" of slope. Top of interior must be flush with top of doors and quarter panels.
 - (R) 38" Max. – 28" Min.
 - (S) 38" Max. – 24" Min.
 - (T) 66" Max. – 24" Min. No narrower than radiator
 - (U) 52" Max. – 44" Min.
 - (V) 56" Max. – 41" Min.

- (W) Tires must be the widest part of the car. Must be able to see side wall of tire from front, top, and rear.
- (X) 66" Max. – 53" Min.
- (Y) 8" Panel / 90 degrees to ground. Must be solid, attached to the deck and extend to the quarter panels, securely fastened.
- (Z) Aluminum "I" beam or tubular steel rear bumpers allowed, must have rounded nerf bars that follow quarter panel and connect back to frame on both sides.





All bumpers must be capped, if nerf bars are not used. Left side must be inside tire tread. No more than 4" outside frame rail. Fuel cell guard shall be supported by the frame. All bumpers must be as close to 90 degrees as possible and be between wheels. Bumpers and nerf bars must be only 2" as measured from left side, must be inside tire tread. Nerf bar ends must terminate at frame. Nerf bar must be rounded back toward body.

Auto City Speedway - 2012 Official Rule Book
MODIFIED RULES
 Promoter/Owner-Joe DeWitte-248-505-7001
 Head Tech Dave Duprey 810-459-1806

Front and rear bumpers must be safely designed and securely mounted. Any bumper not deemed safe by an Auto City official will not be allowed.

BRAKES

- A. Brakes must be operating on all 4 wheels and must lock up all 4 wheels during inspection.
- B. Calipers cannot be lightened and must be stock OEM.
- C. Rotors may not be lightened or drilled. Rotors may be re-drilled for different bolt pattern or larger studs.
- D. No brake shut off devices allowed.
- E. Proportioning valve allowed, front to back only.

BUMPERS

- A. Front bumper must be two bars mounted from frame rail to frame rail, parallel to the ground. Must be 1.25" OD and be able to support the car when lifted by it.
- B. Rear bumper must be 1.25" OD tubing or .25" plate stock. It MUST protect the fuel cell.
- C. Rear bumper, nerf bars and bodies must not extend beyond rear tires. Height of 18" both front and rear bumpers + or -2". Rear bumper no more than 2" wider than body on each side. Bumpers should be rounded on each end to prevent any penetration into other vehicles.

CARBURETOR

- A. 1 two or four barrel carburetor only. Must be naturally aspirated.
- B. No fuel injection or electric fuel pumps allowed.

DRIVE SHAFT

- A. Drive shaft loop is required and must be constructed of at least .25" x 2" steel and must be mounted no more than 6" back from front of drive shaft.
- B. Drive shaft must be painted white.
- C. Steel drive shafts only. NO ALUMINUM.

ELECTRICAL

- A. All vehicles must have the capability of starting without being pushed.
- B. A kill switch is required within easy reach of the driver. The switch must be clearly marked ON and OFF.

- C. No radios or listening devices allowed unless issued by Auto City Speedway.
- D. No data collection devices allowed.
- E. Ignition box must be easily accessible & visible by Auto City Speedway Tech. and must be mounted on the right hand side of dash, out of driver reach.

ENGINE

- A. No aluminum blocks. Aluminum heads are allowed.
- B. Any American made engine may be used as long as the rear of the engine (bell housing flange) is mounted at least 72" forward from the centerline of the rear axle. engine offset must be kept within 2" of the centerline of the front cross member. Engine height will be a minimum of 11" (measured from the ground to the center of the crankshaft).
- C. All engines used in competition must be able to be used in a conventional passenger car without alterations. Motor mounts cannot be removed or altered. Castings and fittings must not be changed. No machine works on outside of engine or front or rear of crankshaft. NO MAGNETOS
- D. No total dry sump systems allowed. No external oil pumps.
- E. Cooling systems may be modified. Any over flow tubes must be directed to the ground, inside the frame rails and ahead of the firewall, into a catch can. NO ANTI FREEZES ALLOWED. Radiators and oil coolers must not protrude above the interior.

EXHAUST

- A. Exhaust must be mounted in such a way as to direct spent gases away from the cockpit of the vehicle and away from the areas of possible fuel spillage.
- B. A 100dbl muffler is MANDATORY.

FRAMES

- A. Factory production complete frame, from 1960 or newer parallel American passenger car only. Frames may be cut in rear only at a point not further than 36" from center of rear end housing. No tube type or front clips allowed.
- B. Frames may not be narrowed or widened and must be able to support a roll cage on BOTH sides. Must be full and complete on both sides. Front cross member may be notched for radiator and/or steering clearance only. Minimum frame and body height from ground to frame rail is 4".
- C. Front suspension must be unaltered OEM and be in stock location, and must be replaceable by stock parts from same type suspension. Stock passenger car spindles only, no fabricated spindles, passenger car drop spindles are allow. Bottom A frame cannot be altered or moved. Front sway bar must be OEM. No aluminum or fiberglass suspension parts or rear end parts allowed. Steering box must remain OEM, NO

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RACKS allowed. Must remain within original bolt pattern for type of frame used. In cockpit steering may be modified to suit driver's taste, but must be kept on the left side of car. No center steering allowed. Heim joint allowed to replace tie rod end.

- D.** Tube type upper A-frame is allowed, and may be moved.
- E.** 5" coil over shocks allowed (rear only) "No" Super late Model type coil over shocks allowed! No homemade coil over's may be used any place on the car.
- F.** No Jeep, Bronco, or 4 wheel drive frames allowed. No sports car frames allowed. No front wheel drive frames allowed.
- G.** Rear of frame may be altered to accept leaf or coil springs. Coil springs must be at least 4.5" OD. Steel springs only. No torsion bars allowed in the rear.
- H.** No hydraulic, ratchet or electric weight jacks anywhere in the car. No air shocks or air bags allowed.
- I.** One shock per wheel only. Additional shocks in other locations are permissible.
- J.** Minimum wheelbase is 108" both sides.
- K.** Maximum tread width is 78" both front and rear.

FUEL SAFETY

- A.** Made for racing fuel cell only.
- B.** The fuel cell must be securely cross-strapped by 2 straps of a minimum of 2" wide.
- C.** Fuel cell must be a maximum of 4" ahead of the rear bumper, behind the rear axle and in the CENTER of the frame rails.
- D.** No part of the fuel cell shall be lower than the protective tubing. Protective tubing must cover the rear and extend over both sides of the fuel cell.
- E.** Fuel cells must have check valves and bladders. The pickup MUST be above the lowest protective tube.
- F.** 32 gallon maximum capacity.
- G.** Fuel may be either gasoline or alcohol only. **E85 allowed** No nitrous. No performance enhancing fuel additives allowed.
- H.** Race cars that use alcohol fuel will be marked on each side with the capital letter A in a conspicuous place and of a size sufficient to readily identify its usage.

REAR END

- A.** Any automotive rear end may be used. No aluminum allowed except for lowering blocks, axle caps, and drive plates
- B.** Quick changes OK. Steel tubes only. No cambered rear ends. One-piece drive flange only. Must have steel tubes, hubs, and mountings.

ROLLCAGE

- A. Must consist of a continuous loop not less than 1.66" outside diameter and .095" wall thickness tubing.
- B. Must be frame mounted in at least six places. Roll bar padding required in the driver's compartment.
- C. Must consist of a configuration of front and rear loops connected by tubing or side hoops. Driver's head MUST not protrude above the cage with helmet on and strapped in the seat. Must have a minimum of one cross bar in the top halo of roll cage. Roll cage must be securely supported and braced. Driver must be able to exit through the top of car.
- D. Mild steel tubing is recommended. No brazing or soldering allowed.
- E. Foot protection is MANDATORY. Bar across back of engine with vertical bars and rub rails or similar.
- F. No brace bars forward of cage may be higher than stock hood height. Main cage no further forward than engine plate.
- G. Minimum of 3 driver's side door bars 1.5" OD x .095 wall with a minimum of 1/8" steel doorplate. Bars and plate MUST be welded front and rear.

SAFETY

- A. **Fire Bottle system is required. (A separate, heat activated, Fire Bottle on the fuel cell is highly recommended).**
- B. Coils must be tethered & approved by tech. inspector. Coil-over shock setup exempt!

SPOILER

- A. 300 square inches maximum, 5" high max., with 12" x 5" verticals. Lexan is the preferred material for construction.
- B. All teams will be encouraged to switch to the following: 4 inch maximum height by 66 inch maximum width spoiler, 45 degrees to deck allowed.

SUSPENSION

- A. Aluminum wheels, hubs, calipers, A-frames, spindles, or any other suspension parts are not allowed.
- B. Plastic wheels are not allowed.
- C. Shocks must be non adjustable with no external canisters and have a racer price of less than \$250.00 New, per shock. No air shocks. No shock covers. Auto City Tech Officials

will, at random, remove racer shocks for inspection and price verification. Shock, Bump-stops are allowed.

TIRES

- A.** Hoosier 970 only. Soaking is NOT permitted.

TRANSMISSION

- A.** Must have at least 1 forward and 1 reverse gear, with a neutral position.
- B.** Any production type transmission will be allowed. Three speed, four speed, and automatic.
- C.** Brinn or like transmissions are allowed.
- D.** Functioning shifter must be in stock location.
- E.** All manual gear type transmissions must have a standard OEM case and must have a working clutch inside a scatter shield. Explosion proof steel bell housing is highly recommended.
- F.** Automatic transmission must remain in OEM stock appearing case. Original bell housing must remain. Must have scatter shield or blanket. Scatter shield may be constructed of .25" by 2" steel; 270 degrees around flex plate or flywheel.

WEIGHT

- A.** Loose objects and or weight may not be in the driver's compartment or outside of hood or body area.
- B.** Any weight added to the car must be painted white, secured by at least 2 bolts, and have the number painted on it.
- C.** Cars **MUST** weigh 2400lbs minimum, after any event. Right side must weigh a minimum of 1000 lbs.
- D.** All weights are with the driver buckled in the seat, with helmet on, and with the front wheels pointing straight ahead.

WHEELS

- A.** 8" steel wheels only, with NO wheel weights. Maximum tread width of 78" NO TOLERANCE. Measured from outside to outside of tread.