



# Economy Modified Rules

2012 Midvale Speedway

E-Mail - [info@midvalespeedway.com](mailto:info@midvalespeedway.com)

Track - 330-339-3977

The following rules are set as a guide, and are in no way a guarantee against injury or death to participants, or others. If there are any concerns not covered in these rules, consider any alterations to be illegal, unless told otherwise by the tech inspector.

These are the 2012 rules. Officials do not care what you ran or where you ran it at in previous years, they only care that you built your car to these rules, and these rules only. Your car will be expected to conform to the rules to compete. All cars must go through tech before going onto the speedway.

## **Engine:**

Unaltered sealed GM crate engine #88958602. Engine must use required HEI distributor that comes with the engine and must purchase a rev limiter (part #MSD 8728). Chip #6200. Chip must be out of reach of driver. No type of vacuum pumps on the engine. Anyone found to have tampered with rev limiters, seal bolts, pushrods, valve springs, or rocker arms will be suspended for one year and disqualified for the night and all points accumulated that season will be erased. Suspension will include car owner and/or driver.

Track reserves the right to impound an engine at any time for evaluation and further tech. Track also may swap your engine for another if it deems that you may be at a mechanical advantage. Any engine that is found illegal will be forfeited to the track. Any illegal parts will also be forfeited.

All new engines should be purchased through the speedway and all engines will be checked and sealed by the speedway. Purchasing used engines is permitted but if that engine is found to have been tampered with, you will be suspended for up to one year.

## **Carburetor:**

The only approved carburetor shall be the Holley two-barrel model # 4412. No Keith Dorton, Berry Grant, Hutter, etc. No nothing, except stock out of the box. Squirters, butterfly plate, and metering block must be stock. All parts must be a Holly part for the 4412. Body of Carburetor-No polishing, grinding or drilling of holes permitted. Choke horn may be removed. Boosters may not be changed. Size or shape must not be altered. Height must remain standard. Venturi area must not be altered in any manner. Casting ring must not be removed. Alterations to allow additional air to be picked up below the opening of the venturi such as altered gaskets, base plates and drilling holes into the carburetor will not be permitted. Base plate must not be altered in shape or size. Stock butterflies must not be thinned or tapered. Idle holes may be drilled in butterflies. Screw ends may be cut even with shaft but screw heads must remain standard. Throttle Shaft must remain standard and must not be thinned or cut in any manner. 1" adapter spacer max. \$350 carburetor claim.

## **Body:**

This division is limited to American manufactured autos from 1970 and newer. No jeeps, suburban, pick-ups, station wagons, 4x4s, sports cars or front wheel drives permitted. The minimum allowed wheelbase is 108", with a maximum 1" tolerance. Maximum overall width 78" front to rear, to be measured from outside of tread. Must be stock appearing with rear window support unit. May utilize a flat half-windshield, with no wings mounted to roll cage. Must have minimum of 3 windshield bars in front of driver. Firewall and floorboards are MANDATORY. Fiberglass or metal duplicates are permitted. Must have a roof made of aluminum or fiberglass (no carbon fiber), and original roofline of vehicle should be maintained with a 1" drop to the front and rear. Engine compartment must remain open with no side panels. Hood side may have a 6" drop and must be enclosed at the rear of the hood. Body should extend no further than the back of the block. Rear of the body to be solid panel at least 8" high. Nosepiece may extend to bumper and must be 4" above ground, must be flat and have clean bends with no extensions on sides to exceed 1". Bodies may be a maximum of 120" long from A post (measured from engine plate) to rear of quarter panel. Bodies may be a maximum of 66" wide, minimum of 53" wide. Front and rear of body must be same. An optional rear spoiler may be used but must meet these requirements: maximum 4" high by 66" wide. Top surface of the rear deck lid must not be dished. Decks are permitted a maximum of 3" slope from behind driver to rear of deck. Spill boards, verticals, airfoil or any other Aerodynamic devices will NOT be permitted anywhere on the car.

### **Frame:**

Frames may be cut 36" (rear only) at a point from the center of the rear end housing. Roger Winget tube front clip chassis will be allowed. Frames may not be widened or narrowed and must be able to support roll cage on both sides. Must be full and complete on both sides. Front cross member must remain full and intact where jointed at the frame rails; center of cross member may be notched for radiator and/or steering clearance. Frame/body height minimum 4", to be measured from the ground to the bottom of the entire main frame rail.

### **Bumpers:**

Center of top bumper bar, front and rear, must be 18" with a 2" tolerance from the ground. Steel (aluminum I-beam bumpers allowed in rear) must be used both front and rear. Two bar front bumpers must be mounted frame end to frame end, no wider than the width of material outside frame horns, with the bottom loop parallel to the ground. Top bar must be directly above bottom bar so bumper is perpendicular to ground. Must be made of minimum 1.25" tubing and must be able to support car if lifted by wrecker. Front of bumper to be measured from center of front spindle to outer edge of bumper and may not exceed 32" maximum. Rear bumper, steel nerf bars and bodies must not extend beyond width of rear tires, and must not contain any sharp edges. Rear bumper no more than 2" wider than body on each side.

### **Chassis:**

Roll cage must consist of a continuous hoop not less than 1.66" outside diameter and must have a wall thickness of at least .095". Must be frame mounted in at least 6 places, No brazing or soldering allowed. Must consist of a configuration of front and rear hoops connected by tubing on the sides of side hoops. Driver's head must not protrude outside cage, with helmet on, strapped in driver's seat. Must have minimum of one cross bar in top halo of roll cage. Roll cage must be securely supported and braced. Protection of feet is mandatory. Bar across back of engine with vertical bars and rub rails, or similar protection. Brace bars forward of cage may not be higher than stock hood height. Main cage may be no further forward than the engine plate. A minimum 3 driver side door bars, at least 1.5" O.D. must be as parallel with the ground as possible, and located perpendicular to the driver to provide maximum protection for driver, but without causing undue difficulty in getting into or out of vehicle. The sidebars must be welded to the front and rear of roll cage members. ROLL CAGE INSTALLATION WILL BE RIGIDLY INSPECTED!!

### **Fuel:**

Racing fuel is permitted but 92 octane gasoline is recommended. No alcohol. No nitrous oxide. No performance enhancing fuel additives of any kind. No oxygenated fuel. Racing fuel cells are required and must be mounted by at least two solid steel straps, two inches wide around the fuel cell. Fuel cells must be enclosed in a steel container and must be mounted securely behind rear axle and between the rear tires, no lower than 6" off the ground, protected by roll cage tubing. Protective tubing must cover the rear and extend past both sides of fuel cell. Fuel cells must be a minimum of 4" ahead of rear bumper and no part of fuel cell shall be lower than protective tubing. Fuel cells must have check valves, and bladders are highly recommended. Fuel cells are limited to 22 gallon maximum capacity.

### **Engine Compartment:**

Bell housing (flange) is mounted at least 72" forward from the centerline of rear axle. Engine offset must be kept within 2" of centerline of front crossmember. Engine height minimum will be 11" from the ground to front center of crankshaft. Oil coolers must not protrude above interior. Cooling systems may be modified. Any overflow tubes must be directed to the ground, between frame rails. Radiators are to be mounted in front of engine ONLY. The use of antifreeze will result in \$50 fine.

### **Transmissions:**

Must have at least one gear forward and one reverse, plus a neutral position. Only O.E.M. production type transmissions will be allowed, 3 or 4 speeds and automatic. No 5 speed transmissions, in and out boxes or quick change devices allowed. Falcon, Bert and Brinn transmissions allowed. No Jerico transmissions. A 360 degree blow proof bell housing is mandatory for standard transmissions and a metal blanket for automatics. If triple disc clutch is used, aluminum bell housing is permitted, only for this application.

**Suspension:**

Any approved O.E.M. passenger car or truck rear end allowed. Quick change rear ends are permitted. No aluminum allowed, except lowering blocks, axle cap and drive flange. Full aluminum spool, floater, or welded rear ends only. No cambered rear ends. Steel axles only. Drive shaft must have at least one safety strap/loop installed. No aluminum driveshafts. Drive shaft must be painted white for identification. Front suspension must be unaltered approved O.E.M., be in stock location, and must be replaceable by stock parts. Tube type upper A-frames okay. Weight jack must be in original centerline of spring. Stock passenger car spindles only; No fabricated spindles. Spindles can be ground for brake caliper clearance only. Bottom A-frames cannot be altered or moved. Front sway bar must be stock O.E.M. type, no splined sway bars. Adjustable sway bar okay. No aluminum or fiberglass suspension or rear end parts allowed. Steering box must be O.E.M. and must remain within original bolt pattern for type of frame used. No rack & opinion allowed. Steel steering shafts and knuckles only. In cockpit steering may be modified to suit driver's taste, but must be kept on left side of cockpit. No center steering allowed. Rear of frame may be altered to accept leaf or coil springs; any coil spring must be at least 5" outside diameter. Steel springs only. No devices allowed that would enable driver adjustment to alter wheelbase or for weight jacking while car is in competition, NO hydraulic, ratchet or electric weight jacks.

**Shocks:**

One steel, nonadjustable, unaltered shock per wheel only. At least one welded shock mount per shock, such as Pro Shock WD shocks, only. Other steel body brands are also permitted. Steel coil over eliminators and steel or aluminum (5") coil over kids allowed on rear only. Air or remote reservoir shocks will not be permitted. Schrader valves or bladder type valve will not be permitted. Front half of any shock may be shielded. One or all shocks may be claimed per event for \$75 each.

**Brakes:**

Brakes must be operated on all four wheels and must lock up all four wheels during inspection. No brake shut-off devices allowed. Proportioning valve allowed, front to rear only. Vented rotors only, front and rear. Rotors cannot be lightened. Rotors may be re-drilled for different bolt pattern or larger studs. Must be steel, approved O.E.M. calipers, and cannot be lightened. No titanium products, parts or components allowed anywhere on racecar. No traction control device of any type.

**Tires:**

Goodyear 62's and 63's 8" 300 series only. Steel 8" racing wheels. No tire soaking allowed.

**Weight:**

All cars to weigh 2400 lbs and 58% left side after the feature with driver in seat. All bolt on weight MUST be securely fastened to car and must be painted white for identification.

**Safety:**

Single front racing seat mandatory, and must be inside the frame rail and ahead of the rear tire. Bottom of seat can be no lower than the bottom of the frame rail. Hutchens, D-Cell or Hans neck restraints are highly recommended. Must have all standard safety equipment: operable window net, 5 point racing harness (no older than 5 years of age), fire suit, gloves and a fully charged fire extinguisher, mounted securely within arms reach of the driver. A Snell approved helmet, rated SA 2005 or newer is REQUIRED. Sticker must be visible and verifiable. Mirrors will not be permitted. All drivers are REQUIRED to have an operable 1-way receiving scanner with communication to the tower ONLY, locked to frequency number 154.5700. Inoperable radios/scanners may result in immediate disqualification. Must have transponder.

**Payoff:**

Feature (16 Cars Or Above That Qualified 15.999 Or Better)

500, 300, 250, 200, 175, 145, 140, 135, 130, 125 on back

Feature (11-15 Cars)

450, 275, 225, 200, 150, 135, 125, 115, 110 on back

Feature (10 Or Less Cars)

400, 250, 200, 175, 150, 125, 120, 115, 110, 100