

Mahoning Valley Speedway

2019 4-cylinder FWD Hobby Stock Division

**These rules are intended to be a guideline in constructing a car. If the rules do not state you MAY do something and then assume that you MAY NOT!
Interpretation of rules will be at the discretion of the Technical Inspector.**

The intent of this class is to provide a low budget entry division.

Body

1. Any domestic or foreign four cylinder passenger 2 or 4 door car with a maximum of 107 inches. No convertibles, mini vans, supercharged or turbo charged vehicles allowed.
2. No 2-seaters, No CRXs.
3. All non-metal interior trim must be removed. Dashboard may remain, and can be covered with sheet metal.
4. Bodies must be strictly stock with no gutting of interior sheet metal except for left and right side door for roll-bar installation. Side body panels may be repaired by 16-gauge sheet metal but must be welded or riveted, however, original body must remain under sheet metal. No gutting of body. Must follow contour of bodyline no longer then rocker panel or above center of bodyline.
5. Doors must be welded or bolted shut. No Dzus buttons.
6. Hood and trunk hinges can be removed. Secured with easy open fasteners or pins.
7. Full stock floor, trunk floor, firewalls and rear wheel wells must remain intact. Holes must be covered with sheet metal. If fuel cell is mounted in trunk, must have rear firewall made of minimum 22 gauge sheet metal to separate from drivers compartment. Must be riveted or welded.
8. All glass must be removed except for front windshield which may be replaced with Lexan or 1 inch maximum square wire screen. Must have (3) vertical support bars, minimum 1 inch by 1/8 inch, in center of windshield area and not less than 4 inches apart.
 - 8.a No side or back windows.
9. Stock bumpers and bumper covers only. No sharp edges on bumper ends. No reinforcing of bumpers. No pipes or 2x3 square tubing.
10. All plastic trim, moldings and marker lenses must be removed.
11. No inside or outside rear view mirrors.
12. No gutting of stock body components. (Hood, hatch, doors, roof, etc.)
13. Vehicle identification number (VIN) tag MUST remain intact and will be checked with all other tags to insure proper motor and transmission.
14. Vehicles with T-tops or sunroofs must have roof openings sealed off with 16 gauge sheet metal.

NOTE: STOCK means the way it was originally equipped from the factory!

ROLL BARS

1. Minimum 1 1/2" X.120" or 1 3/4" X.095" round steel seamless (or DOM) tubing mandatory. Roll cage must be attached to unibody with no less than 1/8" steel plate. Plates must be minimum of 8" X 8". Or 2" x 3" square tubing may be used along driver and passenger door sill to reinforce the rocker and mount. Roll-cage must be on top of the floor and welded to floor and door sill. Cannot be cut into the floor and may not be attached to other side.
2. All cars are required to have a rear vertical hoop behind and above the driver's head, connected to the left and right front roll bar legs by a roof hoop. Must have full cage and petty bar.
3. The front roll bar legs must follow the contour of the windshield post and cowl.
4. Maximum distance from the windshield to the rear of the roll bar should be no more than 4".
5. A diagonal bar from the top left to the bottom right must support the vertical rear hoop.
6. A roll bar must connect the left and right of the rear vertical hoop at seat height and across the floor pan at the bottom.
7. An addition bar must be installed at dashboard level, extended from the left front roll bar leg to the right front roll bar leg.
8. Roll cage must be full perimeter, no offsetting of cages.
9. A minimum of (3) door bars on the left side and (2) door bars on the right side must be used.
10. Door bars must be convex in shape, and extend into the door panels.
11. Door bars must be attached to each other and the frame with vertical bars. Minimum of 1/8" X 1" gussets must be welded into all main cage joints and driver and passenger door bars.
12. Minimum 1" diameter steel tubing welded directly to the cage must support the drivers' seat.
13. 5 point harnesses (racing belts) are mandatory. May not be older than two (2) years.
14. Harnesses must be securely fastened to the cage (harness must be attached shoulder level)
15. Aluminum racing seat mandatory. Roll bars in the drivers' area must be padded.
16. Headrests and drop-down style window nets are mandatory.
17. Front hoop allowed and may go around front radiator with 2 down pipes on each side of the hoop attaching bumper to front hoop.
18. Rear cage supports must extend into the rear of the frame.
19. Plating of driver side door bars HIGHLY recommended.
20. Rear hoop is required to protect fuel cell in trunk area. No lowering of fuel cell, NO cutting trunk.

Rub Rails

1. Rub rails allowed between wheel-base only.
2. 1 3/4" round tube maximum, no lower the center of hub and no higher than tire.
3. Rub rails may not extend out more than tires.
4. Nerf bars must be securely attached to roll cages.

Suspension

1. No racing shocks or springs allowed. Just heavy OEM parts for make of car you are racing.
1A - No shock rubbers or bump stops allowed on any shock.
1B – No adjustable ball joints.
2. Heavy duty stock mount shocks or struts permitted that OEM for that make of car.
3. Springs may be cut to lower car.
4. Springs must mount in factory mounts. (One full spring rubber in right front and right rear).
5. No cutting, heating, altering or modifying of any other suspension parts allowed.
6. *All cars must maintain a 4" frame and body parts height.*
7. *No rear-end lead. Maximum camber and rear toe...3/8 inch.*
8. *Tie down left rear suspension only*

Tires and Wheels

1. *Racing steel wheels allowed, maximum 7" width. Any wheel offset to get 8" over stock track width.*
2. No aluminum wheels allowed.
3. No wheel spacers permitted.
4. 1" lug nuts mandatory. Thread should be exposed on outside of lug nut.
5. American Racer track tire only.

Engine

1. Engine size and specifications must be stock for year, make and model and utilize stock OEM engine mounts.
2. Absolutely NO aftermarket or high performance parts allowed with the exception of cold air intakes, which may be used but must remain in the engine compartment.
3. No machining, grinding, posting, gasket matching, etc. of any engine component.
4. Engine and engine components must be stock and match VIN tag.
5. OEM fuel injection or carburetor for year, make and model.
6. Engine computers must be stock for year, make and model.

- 6A - All engine computers must be stock unaltered.
7. No carburetor spacers or adapter plates permitted.
8. Maximum compression of 175 PSI on any cylinder.
9. One inch inspection hole required in bell housing.

Fuel System

1. Fuel cells are mandatory.
1A. Can use stock tank if in front of rear axle.

2. Fuel cell must be mounted on top of trunk floor, as far forward as possible and be centered in car. Cell should be secured with (4) one inch X 1/8" steel straps – 2 front to rear, and 2 left to right- with large washers or 1/8" thick plates on underside and minimum 3/8" bolts.
3. Fuel pump shut off switch is **mandatory**. Must be accessible from both sides of car and be painted a bright color. Must be clearly marked *Fuel on-off*. Fuel pump shut off switch must kill power to fuel pump *AND* ignition. Switch will be tested periodically during the season. Carbureted engines must have a fuel shut off valve and be clearly marked.
4. Electric fuel pumps must match OEM specs for fuel pressure.

Drive Train

1. Stock automatic or standard transmission for year, make and model.
2. Stock torque converter for automatic with stock steel flexes plate.
3. Stock steel flywheel and clutch assembly for standard transmission.
4. No machining of any drivetrain parts.
5. Transmission coolers are allowed.

Exhaust System

1. Stock exhaust manifold only for the year, make and model.
2. Any type muffler or glass pack only.
3. Single exhaust only. Must exit behind driver.
4. Maximum pipe diameter- 2.5 inches.

Battery

1. Battery must be located in drivers compartment but must be enclosed in spill proof container and be secure. Container must have spill or splash cover.

Weight

1. Weight for any car must be 2400lbs minimum.
2. Any lead must be securely mounted within the wheel base and painted white.

Additional

1. No aftermarket aerodynamics of any kind or any rear wings or spoilers allowed. OEM allowed.

RULES SUBJECT TO CHANGE