



## 2024 MVSO LATE MODEL RULES

### **RULEBOOK DISCLAIMER**

It is the responsibility of each competitor to read and understand the contents of these rules. No expressed or implied warranty of safety shall result from publications of, or compliance with, these rules and/or regulations. The rules and/or regulations set forth are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such event. These rules shall govern the condition of all points events, and by participating in these events all participants are deemed to have complied with these rules. If there is a disagreement or dispute regarding the meaning or application of these rules, the decision of the MVSO Director, and MVSO Tech Official shall prevail.

For all safety devices it is the responsibility of the driver (not the MVSO, its officers, or its agents) to ensure his/her safety device systems are correctly installed, maintained, and properly used at all times. As with all safety items, MVSO strongly recommends that the driver carefully study all manufacturer's installation and usage guidelines and adhere to these recommendations to the highest extent possible. No pretense is made for having designed a fool-proof set of rules and regulations. MVSO reserves the right to alter, or amend, the rules and regulations in the interest of safety, cost control, and/or fair competition.

The spirit and intent of the rules in the standard by which MVSO events will be governed. The MVSO Tech Official is authorized to decide if an equipment change or modification is an attempt to circumvent these rules.

The MVSO Tech Official can, and will, disqualify a race car in violation of spirit and intent of these rules. Disqualification results in loss of payout and points. If this rule book does not specifically state that you can alter, change, or otherwise modify something on your car, you should consider it a violation of these rules. No part is deemed to have been approved by the Yakima Speedway by passing through prior technical inspection. The MVSO Director and Tech Official shall be empowered to permit reasonable and appropriate deviation from any of the specifications here in, or impose any further restrictions that, in his opinion, do not alter the minimum acceptable requirements. No expressed, or implied, warranty of safety shall result from such alteration or specification. Any interpretation or deviation of these rules is left to the discretion of the MVSO Tech Official and or MVSO Director. Any form of open degradation at a race event or on social media to, or about, a MVSO Official will not be tolerated. This behavior is determined to be detrimental to the series as a whole. Failure to adhere to these rules, will be grounds for probation and/or suspension from events in this class. In addition, the driver/owner is responsible for the actions of his/her pit crew and will be held accountable. The Officials will be as professional as possible, we would like our race teams to do the same.

## **BODIES**

1. Chevrolet, Ford, Dodge and Toyota ABC bodies are standard.
2. AR Bodies Muscle Car Bodies are legal.
3. Any non-ABC body not meeting the ABC guidelines must meet crucial measurements (i.e. roof height, rear deck height), must be stock appearing and mounted per ABC rule book. Professional appearance required. Specific approved models are subject to change overtime.
4. The new 2019 Five Star Bodies and AR Body are approved.
5. No flaring, shaping, or contour modifications of body, nose or skirting allowed.
6. No belly pans or streamlining.
7. Body clearance MUST NOT DRAG THE NOSE, AND CLEAR SCALE without driver.
8. No downforce bodies.
9. No "ponding" of rear deck lid aloud.
10. The ABC "A" measurement shall be 11 ½ "minimum.
11. Minimum length allowed for the nose, measured from the bottom, leading edge at center up to hood is 20".
12. Maximum flare at wheel opening in front of the front wheel (Q) is 83" and opening to be cut 90" to the ground.
13. Height 47" minimum, measured, 10" back from the top center of the windshield.
14. Rear quarter panel height 36" maximum. No rolling of the bumper cover. All quarter panels, and rear bumper cover, must maintain the factory inside lip.
15. Rear spoiler 6.5" X 60 "maximum. Must be clear Lexan. Back window clear Lexan.
16. Roof rails are permitted, with a maximum of 1" lip. No other vertical rails allowed 1 rear window wing, no longer than one inch, will be allowed. Max ½ lip on ducts used on ¼ window.
17. No air deflector, or any add on, to right side window area. Left side window net required.
18. The officials reserve the right to add weight to nonconforming body measurements.

## **WEIGHT**

- 1.MVSO scales will be the only method for determining at cars weight.
- 2.MVSO officials reserve the right to adjust these weight advantages/penalties in the interest of fair competition.
- 3.All weights are taken with driver in the car, with both hands on the steering wheel and helmet in lap, prior to qualifying and prior to feature event.
- 4.Base Weight is **2800 lbs** with Driver:
  - A. All Chassis **58% left side, 51% Max rear.**
- 5.604 and Ford 347 **2700 lbs.–6400 CHIP**

6. Wet sump cast iron head 2900 lbs.
7. Brodix headed or 9 to 1 motor 2950 lbs.–7500 RPM CHIP

## **WEIGHT PENALTY & WEIGHT BRAKE**

- 1.Sway bar (3 piece) must have min 12" arm and hollow 1 ¼ bar
- 2.604 crate –100 lbs. must be factory sealed.
- 3.Ford 347 Crate –100 lbs. must be factory sealed.
4. 602 Crate – 150 lbs. must be factory sealed.
- 5.Dry sump engine –7500 RPM CHIP

## **SUSPENSION\*NO SPRING PRE-LOADERS\***

- 1.All cars must run suspension with coil over or 5" minimum big springs. No Bump Stops, or Coil Binding.
- 2.No more than two spring rubbers per spring.
- 3.All coil over must be minimum of 2.5" springs.
- 4.Shock Stroke Rule: 7", 9", 10"
- 5.Shocks must be welded, steel bodied, aftermarket, non-adjustable, non-rebuilding, AFCO 10, 12, or 14 series, Integra 421 Series, or Pro WB Series. **THESE ARE THE ONLY SHOCKS ALLOWED.**
- 6.One shock per wheel.
- 8.Tech Official may confiscate for testing. If cleared, it will be returned. If found illegal, shock will be returned at end of season.

## **TREAD WIDTH**

- 1.Measured with the referee. (69" for stock stubs, 67" for fabricated stubs.)

- 2.No rear sway bars.
- 3.No traction controls.
- 4.3 link cars must have solid upper link, spring bar, or a biscuit bar, NO SHOCK is to be used in a 3 link.
- 5.Trailing arms must be one piece, no springs, biscuits or shocks.
- 6.1 ¼" maximum front sway bar. 3-piece bar must be hollow and run minimum 12" arms.
- 7.Wheelbase minimum 101 inches.

## ***ENGINE***

- 1.Engine are allowed a maximum 360 CID with a Holley 4150 series 750 carb.
- 2.Over 360 CID must have a tool legal 4412 series, 500 2BBL., must be declared, and can deduct 50 pounds of weight.
- 3.All head part # must be present on heads. No porting, no polishing.
4. Roller cams are permitted and will be subject to penalty determined by MVSO staff.
- 5.No head larger than 200CC. No valve size larger than 2.055.
- 6.Straight or angle plug heads allowed.
- 7.Any unaltered aluminum intake allowed.
- 8.Dry sump oil pump allowed with a maximum 7500 chip.
- 9.MUST HAVE ACCESS TO MEASURE CRANK HEIGHT.
- 10.ALL Cars minimum 11" crank height.
- 11.Centerline of crank must be within 1" of center of stub.
- 12.All cars will have maximum engine setback of 3", measured from the #1 spark plug to centerline of upper ball joint. If a car has more than a 3" setback it will only be allowed to go up to 5" Max and will have an additional weight penalty to be determined by the MVSO Staff.

## ***CRATE ENGINES***

- 1.All GM and Ford factory crate engines must have factory seals and proper paperwork to be deemed as legal, and eligible for weight break.
3. When the dyno is used, any crate 5% above its factory rated 400 HP(5%=420 HP),or its factory rated 400' per pound of torque (5%=420 feet per pound),will result in the engine being declared ineligible for competition.
- 5.100-poundweight break for Ford crate M-6007-d347sr -6400 RPM chip MAX.

## ***IGNITION***

1. Must have sealed MSD box with either dial or chip type.
2. Chip must be zip tied or taped in box.
3. Only one MSD ignition box can be active.
4. No other electronic data devices will be allowed during the racing situations.
5. No traction controls.
6. No magneto systems allowed.

## ***TRANSMISSIONS***

Any OEM or aftermarket transmission allowed.

1. Shifter rails must protrude from the left side of the case, or from the left rear of the case. NO SHIFTER RAILS ON TOP OF THE CASE ALLOWED.
2. No lightweight magnesium, no internal clutch allowed.
3. NO 5 or 6 speed transmissions allowed.
4. Must have friction type clutch inside bell housing.
5. Driveline must be painted white. Cars must have a working starter.

## ***CARBURETORS ALL CARBS MUST BE TOOL LEGAL***

1. Approved carbs are tool legal 750 Holley 4150 series #80541, and Holley 4150 series #80803 ultra HP. (big engine)
2. Approved carbs are tool legal 650 Holley 4150 series #80541-1-2. (mandatory crate)
3. Approved carb for over 360 CID. Holley #4412-500CFM. Must be tool legal other modifications are A.  
The choke horn may be removed with a square mill cut.  
B. Butterflies may be drilled with one idle hole each (maximum 3/16in diameter).  
C. Cam and accelerator pump may be replaced with Holley aftermarket parts, the choke linkage may not be removed, and holes filled. Power valves, metering block, and floats may be modified.
4. No electric fuel pumps allowed.
5. Maximum 1" spacer allowed. Spacer or reducer inserts will be allowed with approval.
6. Minimum 2 car return springs. 7.4" X 16 "maximum air cleaner. K&N OK. No foam filters.

**RESTRICTOR PLATES MAY BE USED BY MVSO TECH STAFF AS A FORM OF PENALTY.**

## **FUEL CELL NO H2O FUELS-FUEL SAMPLE WILL BE DRAWN.**

1. The use of a commercially manufactured fuel cell is mandatory. The maximum capacity, including filler spout and overflow vent check valves, is 22 gallons. Minimum capacity is 16 gallons. Filler spout and overflow check valves are required. The fuel cell vent must exit out of the trunk area in the left rear side of the car. No materials other than standard foam supplied by the fuel cell manufacturer are permitted to make the fuel cell meet the 22-gallon capacity.

MINIMUM GROUND CLEARANCE IS 10" CELL TO THE GROUND.

2. Fuel cell container is required. The fuel cell must be enclosed in a container of not less than 22-gauge steel.

3. Fuel cell and fuel cell container must be fastened to the frame in a recessed frame support as far forward in the trunk area, and at an equal distance between the frame rails.

4. Fuel cell and the fuel cell container must be secured with 1" X 1" X .065 steel tubing. Not less than two (2) length wise, and two (2) cross wise, and two (2) across the top, evenly spaced at the top and must bolt to container support frame. The support frame must have two (2) tubes that are welded to and extend between the left and right frame rails. Three (3) tubes must be evenly spaced across the recessed well (front to rear). These tubes must be welded to the cross-support tubes, and extend down the front side, rear side, and under the fuel cell container. If the fuel cell has a bolt on top, it must be bolted together with a minimum of ¼ diameter bolts spaced a minimum of 4" apart. If the fuel cell has a bolt in end panel, it must be fastened together with a minimum 10/32 diameter screws with nuts and placed 4 feet apart. No sheet metal screws or pop rivets are to be used to secure the top or end panel of the fuel cell.

5. A protective bar, minimum 1 ¾ "X.090, must extend below the rear frame section behind the fuel cell. This protective bar must be as wide at the rear frame rails and extend as low as the bottom of the cell with two (2) vertical uprights evenly spaced between the (5) frame rails and attached to the rear crossmember. Two (2) support bars; one located on each corner. Must angle upwards and be welded to the rear frame rails.

6.2 reinforcement plates, of not less than 14 gauge (0.078") thick magnetic flat steel. Must be installed behind the fuel cell container AND between the rear end and the fuel cell. The plate must extend the entire width and height of the fuel cell container. The plate must be welded in spaces between the rear crossmember and/or the cross bracing at the rear of this rear subframe. It must be welded with a 1" weld, spaced a maximum of 4" apart.

## **EXHAUST**

1. Exhaust flange no larger than 5" must be smooth with body's side panel.

2. Exhaust will be no louder than 98db at 100 feet.

All interior body parts will be sealed.

## ***TIRES***

HOOSIER 1070 is the class tire.

Soaking, softening, shaving, or otherwise altering the composition of tire is not permitted. NO TIRE BLEEDERS ALLOWED. Max left side tire psi 25 max right side tire psi 30 max pre-tech. Cars must start heat races and the main event on the same tires on which they qualified. If a problem arises with your qualifying tires, and change is needed:

- A. Replace with new tire, forfeit starting position, and start in rear of field.
- B. Replace with used tire approved by tech official, keep qualifying position.
- C. Only 15" by 10" steel wheels are permitted.
- D. The maximum track width permitted for vehicles with 15" X 10" steel wheels is 69" stock clip, or 67" fab clip front or rear. Measured at spindle height with our referee.

## ***PROTECTIVE CLOTHING***

1. It is required that, at all times, the driver wears a driving suit, and gloves, of fire-resistant material that effectively covers the body.

2. It is recommended that the driver's suit be of the best quality fire protection available.

3. It is also recommended that during an event, practice, or qualifying, a driver wears the following: A.

fire resistant shoes and socks.

B. Fire resistant hood.

C. Fire resistant underwear.

## ***FIRE CONTROL***

1. It is recommended that all cars have a built in, fully charged, DuPont FE-36, or equivalent, fire suppression system (not of the dry chemical type), with an operating pressure gauge WITHIN SITE OF THE TECH INSPECTOR.

2. Any car, not equipped with a built-in fire suppression system, must have a fully charged fire extinguisher, a Halon, or equivalent type at least 10-B: CUL rating, with an operating.

3. All entrants should have a 10lb., DuPont FE-36, or equivalent fully charged fire extinguisher in their pit area.

4. All cars are recommended to have an Oberg Vacuum style (preferred), or ball valve style type fuel shutoff, placed at the point the fuel exits the fuel cell. This is to stop the flow of fuel from a damaged line or pump.

## ***HELMETS Head and neck restraint devices***

1. Helmets shall be in compliance with the current SA2010 requirement.

2. Full face helmets with Lexan face shield recommended.

3. Nomex helmet skirt, and Nomex covered chinstrap recommended.

4.It is strongly recommended all drivers wear a head and neck restraint device.

### ***SEAT BELTS***

1.It is highly recommended the driver carefully study seat belt manufacturer's installation guidelines 2. All seat belts must be a complete matching set from the manufacturer. No mixing of manufacturers. 3.A quick release seat belt no less than three (3) inches wide is compulsory. Both ends of the lap belt must be fastened to the roll cage with high quality bolts, not less than 3/8" in diameter.

4.Shoulder harness must be no less than two (2) inches in width and must come behind and below top of driver seat. Where the harness crosses the

**IF THE RULES DO NOT SAY YOU CAN, YOU CANNOT. PLEASE BUILD TO THE RULES AND NOT AROUND THEM. ANY CAR NOT MEETING THE RULES WILL NOT BE ALLOWED TO PARTICPATE IN THE EVENT.**