

## 2024 VA MODIFIED DIVISION RULES AND REGULATIONS

Effective 1/01/24

### 1. ROLL CAGES

- A. Roll bars must consist of continuous hoops not less than 1.750 inches outside diameter and must have a wall thickness minimum of .095 inch.
- B. Roll bars must be frame mounted in at least eight (8) places.
- C. Driver's head must not extend above roof loop with helmet on and strapped in car.
- D. Foot protection consisting of bar or plate is mandatory.
- E. Driver door bars must be parallel with the ground and located so as to provide maximum protection for the driver. The side bars must be welded to the front and rear of the roll cage members. Door bars of less than .095 inch thickness are not allowed. A minimum of three (3) bars at 1.75 OD or four (4) bars at 1.50 OD must be used a 0.090 magnetic steel plate attached to driver's side door bars is required.

### 2. FRAMES / SUSPENSIONS

- A. All cars must use factory production American passenger car front frame sections. Frame sections cannot be narrowed or widened.
- B. No rack and pinion. Tie rod sleeves and rear end alignment tubes will be made of steel. The tie rod tubes ends may be replaced with Heim joints to correct bump steer. Upper link can be aluminum. Any type of front sway bar is permitted, but arms on after-market sway bars must be made of steel.
- C. Spindles can be either OEM, Howe or Lefthander aftermarket and must be the same left to right.
- D. These are the only replacement spindles.
  - 1. Howe Part Number 344GN (Right side) & 344GNL (Left Side)
  - 2. Howe Part Number RP 970 L & R. (Left and Right Side)
  - 3. Lefthander Part Number 158RP970L, 158RP970R
- E. And the Howe replacement with the IMCA raised stamp
- F. Weld-on brake brackets and aftermarket steel hubs are permitted
- G. Steel steering shafts and knuckles only; driver compartment steering may be modified, must be kept on left side. Quick release required - steering quickener and steering wheel may be aluminum.
- H. Rear suspension springs must be a minimum of 4-1/2 inches in diameter. Front springs must be conventional, pig tail, big springs minimum 5 inches in diameter and minimum rate of 400 lb. Coil-over

type springs are not permitted on the front but are permitted on the rear. No torsion bar rear suspensions permitted. No Coil-Spring Eliminators allowed. Springs must remain in normal spring bucket position. No bump stopping or coil binding allowed.

I. The top link spring does not apply to the 4-1/2 inches spring diameter rule.

J. No aluminum except for pan hard bar. Upper link can be aluminum. Any type of front sway bar is permitted, but arms on after-market sway bars must be made of steel.

K. Only Koni 30 Series shocks are approved. No changes or modifications are permitted. The rubber bump stop must be removed.

L. Front suspension all components must be steel with the exception of the helix in the lower control arm, Lower A-arms may be OEM or aftermarket. No bumpstops or coil binding allowed.

M. Lower A-frames must be the same length and width. Adjustable ends permitted but must be the same on both sides.

N. A-arms bushings made of metal or spherical bearings are permitted. Tubular Upper A-arms and aftermarket mount plates made of magnetic steel are permitted. OEM or OEM replacement ball joints allowed.

O. Wheelbase must be a minimum of 108 inches.

P. Maximum tread width of car (both front and rear) must not exceed 78" inches, as measured outside of tire to outside of tire at spindle height.

Q. Frame, Nose and Body height will be a minimum of four (4) inches at all times, with driver in the car

R. The 1968-72 GM Chevelle OEM or OEM replacement frame has been approved

S. Howe chevelle front clip 35810 and Howe Impala front clip 35809 may be used with no modifications

### 3. BODIES

A. All bodies must be 1980 or newer replicas of American Passenger Cars only. Aluminum, Steel or fiberglass full-size roof required. No wings allowed. No stock bodies. Bodies must be neat in appearance and in good condition. 2023 IMCA Modified body dimension rules will be used as a guideline.

C. Firewall and floorboards are mandatory.

D. Bodies will consist of the following measurements

1. Window openings must maintain 18" max Forward / aft and 12" min. tall on both sides.

2. Rear body height is a max. of 38" high then a max. 5" spoiler may be added for an overall rear max height of 43" measured from the ground to the top of the spoiler.

3. Rear body width will be 66" max. and 53" min. must be the same front to back, measured from rear to front A post.

4. Center of the rear spindle to the rear of the body must be 48" max. and 34" min.
  5. Center of the front spindle to the front of the body must be 42" max.
  6. 6" max. Slope will be permitted from front to rear measured on both sides starting at the leading edge of the door panel measured at or around the A post to the rear edge of the quarter panel. Maximum 3" slope from the back of the B post to rear of the car.
  7. No additional panels or fillers may be added.
  8. No additional air deflection panels may be added in any area of the car. Examples of this are but not limited to the (front, rear body or nose, alongside the engine compartment, inside the exterior body etc...)
  8. Bodies must have a solid straight (not angled) panel at least eight (8) inches minimum and 22 inches maximum in height and must extend completely across rear of car and attach to the top of the rear of the body. No open rear bodies allowed. Spoiler is to be no wider than the width of the rear body and maximum 5 inches high.
  9. Hood must be level or sloped down at front, enclosed and maximum two inches above interior deck at rear.
  10. No reverse hood rake allowed. 6" max. Scoop cannot extend past front of hood.
  11. Engine compartment sides must remain open. Hood sides may have maximum of four (4) inch drop and must be enclosed at rear of the hood.
  12. Front windshields must be complete from dash to roof, a minimum of 14 inches wide, constructed of 3/16" Lexan. The windshield may not extend above the roof line. Full Lexan windshields and rear windows are allowed. Braces are required to support the Lexan windshield
  13. Front body nose height is a minimum of four (4) inches.
- E. Numbers must be legible numbers on both sides of doors and on top of roof.
- F. Numbers on sides of car should be in contrasting color from body. Numbers must be at least 20 inches high and at least four (4) inches wide. Roof numbers will be placed with the top of number toward the driver's side of car (to be read by flagman). Roof number must be four (4) inches wide and at least 24 inches high.
- G. Numbers must be at least four (4) inches in height on the right the front nose and on the right rear panel.
- H. Decals must not interfere with the car numbers. All cars must display divisional sponsor decal

#### 4. BUMPERS

A. Steel bumpers must be on front and rear at all times and welded, or mounted with minimum 0.375 inch bolts. Rear bumper must be constructed of solid square, or minimum 1.25 inch O.D. tubing with 0.095 wall thickness, maximum six inches beyond rear deck, no wider than five inches outside of rear frame rails. If wider than five inches outside rear frame rails, must be capped and bent forward 90 degrees, or constructed in a loop design. Must have at least one upright, minimum 1.25 inch with 0.065 wall thickness, from bumper to fuel cell guard. Two-bar front bumper must be minimum 1.25 inch O.D. tubing with minimum 0.065 wall thickness (maximum 0.095 inch) mounted frame-end to frame-end, no wider than width of material outside frame horns and with bottom loop parallel to ground. Top bar must be directly above bottom bar, minimum 6.5 inches apart, measured center to center. Center of bumpers must be eighteen inches above the ground plus or minus two (2) inches Nerf bars must extend between one inch plus or minus to outside edge of the tires. Rear Nerf bars are strongly recommended.

## 5. REAR ENDS

A. Any steel approved OEM passenger car or truck rear end (housing and carrier) allowed. Quick change rear ends are permitted with steel axle tubes only. Only Detroit locker ratchet type differentials will be permitted. When this type of differential is used, either wheel, when jacked up with the transmission engaged, must turn freely by hand for one (1) full turn, 360 degrees, while the opposite wheel remains stationary.

B. Locked rear drive axle assemblies (solid spool) will be permitted. When jacked up, both rear wheels must rotate in the same direction and the same rotational distance at all times. One (1) wheel, when jacked up, must not rotate in any direction. No torque dividing differentials. No scalloped ring gears. Hubs and all other rear end components must be made of steel. However, axle caps, lowering blocks, drive plates and carriers may be aluminum

C. No Center Pull Rears Allowed.

D. Rear ends may be cambered plus or minus one (1) degree only

E. No electronic traction controlled devices permitted

## 6. TRANSMISSIONS

A. Only OEM-type transmissions allowed, 3 speed, 4 speed, or automatic. No five speeds, in or out boxes, overdrives, couplers, or buttons allowed.

B. All cars must have operable reverse gear and be able to back up and move forward from standing position.

C. Clutch-type transmissions must be equipped with approved blow-proof bell housing. A transmission blow-proof cover shield is required for automatic transmission cars.

D. All flex plates must be steel and OEM or SFI-approved. No FFI or other manufacturer of lightened flex plates allowed.

E. Only steel drive shafts are permitted. Drive shaft will be painted white and have car number on it. Car must be equipped with a drive-shaft strap made of steel that is a minimum 3/16" thick by a minimum two (2) inches wide.

## 7. BRAKES

A. Only single piston OEM or after-market brake calipers that conform to OEM specifications. Brakes must be fully operational on all four wheels and must lock up on inspection.

B. No electronic or hydraulic traction-control devices allowed on brakes.

## 8. TIRES AND WHEELS

A. Only 8-inch steel wheels are allowed. Wide 5 wheels must have a 4 inch back space. 5 on 5 wheels must have a 3 inch backspace.

B. Tire Alterations are NOT permitted.

C. All Competitors will use an American Racer tire JAL5A. The two tire rule will apply. All competitors must start the feature race with the same tires on which the car qualified.

## 9. SAFETY EQUIPMENT

A. All drivers must wear a helmet that is a Snell SA 2000, or Snell SA 2005. All helmets must be inspected by the Tech director. Helmet must accompany car at time of inspection.

B. All drivers must wear fire suits made of flame-retardant material. Suits will be kept in presentable condition. All drivers must wear flame-retardant gloves. Flame retardant hood, socks and shoes are highly recommended. Gloves and other safety equipment covered by grease and/or oil and not cared for properly should be replaced.

F. The driver's competition shoulder harness and lap belt must be at least three (3) inches wide with a submarine strap. Metal to metal buckles are required on shoulder and seat belts. The shoulder harness should be mounted even with or slightly higher than driver's shoulders. Belts that are weathered or frayed will not be permitted for racing use. Belts should be replaced after 2 years.

G. Approved "Hans-type" head and neck restraint is mandatory.

H. Fireproof driver's side window net is mandatory.

C. All cars must be equipped with an on-board fire system/extinguisher that is fully charged and accessible to the driver.

I. All roll bars within the driver's reach of his/her leg or arm must be padded.

J. The steering wheel will have a safety pad in the center.

## 10. FUEL CELLS

- A. Maximum capacity of fuel cell is 22 gallons
- B. Minimum clearance from ground to lowest point of fuel cell is eight (8) inches. The fuel cell must be enclosed in a metal container constructed of a minimum of 22-gauge steel. It must be securely mounted in race car with at least two straps widthwise. Straps have to be a minimum of 1/8 inch thick by one inch wide (steel only).
- C. Must have closed cap or check valves on gas fill and vent. Fuel cell vent must exit on outside of rear panel, approximately 12 to 18 inches from left side of quarter panel.
- D. Racing Fuel Only. No additives or nitrous oxide may be used.

## 11. ELECTRICAL

- A. One (1) 12-volt battery. Batteries must be securely mounted and shielded.
- B. Must have an electrical cut-off switch mounted in the center of the car or in the center of the dash. This switch must be labeled ON and OFF
- C. All cars must be equipped with a self-starter. Alternators may be used.
- D. No electronic traction control or timing devices. rev-limiters and MSD boxes are allowed.

## 12. ENGINES

12.1. Chevy Crate 604 Part # 88958604 or 19318604

12.2. Chevy Crate 603 Part # 88958603

12.3. Chevy Crate 602 Part # 88869602

12.4. Engines must be used as supplied by the OEM Manufacturer – no modifications permitted, (aftermarket valve covers, water pumps and only Mahle pistons part #'s 930127805 and 930127808 will be allowed if block is bored due to wear, no changes to stock rods allowed).

12.5. GM 604 Crate Motors may use aftermarket valve spring retainers, keepers, locators/spacers, but all parts must be magnetic steel.

12.6. In the interest of reliability and long-term cost savings the CompCams part number 26975 valve springs will be allowed in GM crate engines for competition. They must remain unmodified and used as supplied by CompCams. The 26975 spring is a 1.320 O.D. and .920 I.D spring without a damper and will be checked at the installed height of 1.780 and maintain a seat load of 103 pounds. Or the 'Bee-Hive' replacement 26915 with O.D. of 1.055/1.290 and I.D. of .650/.885 spring without damper and will be checked at the installed height of 1.800" and maintain a seat load of 105 pounds.

12.7. GM 604 Crate Motors may run any 1.5 or 1.6 aluminum self-aligning rocker arms with 3/8" stud. A combination of 1.5 and 1.6 rocker arms is approved; however, 1.6 rockers must be on the intake valves with 1.5 rockers on the exhaust valves if mixed rockers are selected.

12.8. Engines will not exceed 405 hp on the track approved dynamometer.

12.9. Chevy Built Engines will be allowed using the NASCAR 2018 Rules except for the carburetor.

12.10. Crate engines may run a Mel's distributors or any other distributor meeting NASCAR 2018 LMSC Rule 20F-6.1. Rev limiter may be used but is not required unless implemented by Dominion Raceway (DR).

### 13. CARBURETOR:

13.1. The only approved carburetor is the Holly 500 model 4412 –CT. (500 cfm) for ALL engines.

13.2. Must be used "stock out of the box". No modifications allowed with the exception of jet size.

13.3. Each carburetor booster may be secured by a small amount of epoxy and a steel wire not less than 0.025 inch in diameter. The wire must be installed in such a manner that in the case of a carburetor booster failure, the carburetor booster should remain suspended in the carburetor without any interference to the operation of the throttle shaft and the throttle plates (butter-flies). A minimum size hole, acceptable to Track Officials, must be drilled though the top of the booster barrel, inboard of the booster attaching stem and in the top of the choke horn on each side of the vent tube. The 0.025 inch diameter steel wire must loop through the hole in the booster barrel and then be tied to the holes in the choke horn. As an alternative to drilling a hole in the booster, the 0.025 inch diameter steel wire must pass through the booster barrel from top to bottom and then be tied to the holes in the choke horn.

13.4. Carburetor Spacer: Solid aluminum, Manufactured by MOROSO .750 inches thick, with two 1 and 11/16 inch diameter holes located in the center that match the carburetor must be installed on all engines. (No Super Sucker Spacers).

13.5. Chevy Built Engine will run a track supplied restrictor plate underneath the Carburetor Spacer plate with two 1 ½ holes located in the center of the plate. A one-piece nonmetallic gasket maximum 0.065 inch thickness must be installed between the spacer plate, restrictor plate, and intake. The competitor can purchase the restrictor plate from the track.

### 14. WEIGHT.

A. All cars must weigh a minimum of 2600 pounds with driver at all times. Driver's side of car cannot exceed 58% of total weight of car.

B. No fluids may be added to maintain weight after the completion of an event for post-race inspections.

C. Added weight must be in block form of no less than five (5) pounds blocks.

D. NO PELLETS will be permitted.

E. Added weight must be securely bolted in place and painted white with car number on it.

F. Any dislodged weight will not be returned to the car for weighing after the race.

Inspection:

All Race Equipment, including but not limited to vehicles, vehicle parts, components, equipment and/or fuel, is subject to inspection by Track Officials at any time and in any manner and location as determined by Track Officials. All decisions by Track Officials regarding the timing, manner and location of inspection, as well as, which Race Equipment will be inspected are final, non-appealable and non-reviewable.

Dominion Raceway, Track Officials, or Track Approved Inspection Facilities are not responsible for payment, reimbursement, damage or loss to the Competitor as a result of such inspections or tear-downs.

These rules are subject to modification and change by Dominion Raceway in its sole discretion with 48 hour's notice.

These rules are for us at Dominion Raceway and Entertainment only. No unauthorized use, reproduction, publication, or printing allowed for any other Raceway without the expressed written consent of Dominion Raceway and Entertainment Management.