



2009



LATE MODEL DIVISION

Virginia Motor Speedway

P.O. Box 15485

Richmond, VA 2327

(804) 758-1867

info@vamotorspeedway.com

“LATE MODEL DIVISION SUPPLEMENT TO THE “2009 GENERAL RULEBOOK”

Highlighted items = Rule Changes

“The rules and/or regulations set forth herein are designed to provide for the orderly conduct of racing events and to establish minimum acceptable requirements for such events. These rules shall govern the condition of all events, and by participating in these events, all participants are deemed to have complied with these rules. NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM PUBLICATIONS OF OR COMPLIANCE WITH THESE RULES AND REGULATIONS. They are intended as a guide for the conduct of the sport and are in no way a guarantee against injury or death to a participant, spectator or official.

The race director shall be empowered to permit reasonable and appropriate deviation from any of the specifications herein or impose and further restrictions that in his/her opinion do not alter the minimum acceptable requirements. NO EXPRESSED OR IMPLIED WARRANTY OF SAFETY SHALL RESULT FROM SUCH ALTERATION OF SPECIFICATIONS. Any interpretation or deviation of these rules is left to the discretion of the officials. Their decision is final.”

Section 1: General

1.1 Wheel base 101” minimum.

Section 2. Safety

- 2.1 All lead weight must be properly secured and painted white.
- 2.2 All lead weight must have car number painted on it.
- 2.3 All safety items are subject to Technical Inspectors approval.
- 2.4 No mirrors. If you use a Hans or Hutchins Device then you are allowed one (1) spot mirror, 2 inches in diameter, on driver or passenger side.

Section 3: Body

3.1 Exterior:

- 3.1.1 Nose, rear, and roof must match body style.
- 3.1.2 Must have a roll at top of fenders, doors, and quarter panels.
- 3.1.3 Floor boards and firewall must cover the driver's area and be constructed to provide maximum safety.
- 3.1.4 Driver's seat must remain in same general area as in general design.
- 3.1.5 Windshield screen, Bars, or Lexan are mandatory. NO glass permitted.
- 3.1.6 NO fins or raised lips of any kind permitted anywhere. This includes front, top, rear, or anywhere else that unapproved lift or downforce devices might be used. Subject to Technical approval.
- 3.1.7 Body line must be a smooth, even line from front to rear.

3.2 Stock Nose:

- 3.2.1 Must be made of molded type material.
- 3.2.2 Two piece nose must be fastened together in center.
- 3.2.3 Must be mounted not to alter original shape.
- 3.2.4 Stock nose piece may extend a maximum of 46” from center of front hub to farthest point extending forward.

“LATE MODEL DIVISION SUPPLEMENT TO THE “2009 GENERAL RULEBOOK”

3.2.5 Front fender flares cannot alter original shape of nose piece. They cannot extend beyond front tire track width with heels pointed straight, and must have collapsible support. NO steel supports.

3.2.6 Nose pieces may be altered for the purpose of ground clearance: minimum clearance 3”.

3.3 Roofs and roof supports:

3.3.1 Must be stock appearing.

3.3.2 Must be mounted in center of car.

3.3.3 No lip on rear of roof.

3.3.4 All roof side panels must extend to edge of body.

3.4 Front Fenders and Hood:

3.4.1 Must be level and flat from left to right side.

3.4.2 Fenders cannot gain height from rear to front.

3.4.3 No part of fenders or hood can be below outside body line.

3.5 Doors:

3.5.1 At no point may any door sides break in towards center.

3.6 Quarter Panels:

3.6.1 Tire clearance at body must be a least 2”. NO WHEEL SKIRTS.

3.6.2 At no point may any quarter panel sides break in towards center.

3.7 Interior:

3.7.1 Floor boards and firewall must cover the driver’s area and be constructed to provide maximum safety. A minimum of 1/8” thickness is recommended.

3.7.2 Interior must gradually taper up to the quarter panel height and be level from the rear of the quarter panel.

3.7.3 Interior must run in a straight line from behind the driver’s seat to the rear spoiler.

3.7.4 If interior is flat, it must maintain minimum 12” clearance from roll cage for easy exiting from either side.

3.8 Spoiler:

3.8.1 Rear spoiler may be manufactured of transparent material, such as Lexan of adequate strength. Aluminum okay.

3.8.2 Cannot be wider than car.

3.8.3 Rear spoiler cannot be suspended above deck to create a wing effect.

3.8.4 Spoiler must begin where quarter panels end.

3.8.5 Maximum spoiler height 8 inches measured from deck to tip.

Section 4. Frame

4.1 Tube chassis allowed 101” minimum wheel base

4.2 Exterior bracing may ONLY be done on back to protect fuel tank; may not be wider than frame.

4.3 Bars may not extend past stock bumper position.

“LATE MODEL DIVISION SUPPLEMENT TO THE “2009 GENERAL RULEBOOK”

- 4.4 All bracing bars must be rounded - no raw or open ends or 90 degree angles that create sharp angle ends.

Section 5. Roll Cage

- 5.1 A minimum of 1½” diameter and .095 inch wall thickness required.
- 5.2 Constructed of 4 post design with front roll bar following the windshield contours and the top of the roll cage forming a box.
- 5.3 A minimum of 4 side bars are required on driver’s side and must extend into the door opening.
- 5.4 A minimum of 3 side bars extending into the passenger door.
- 5.5 A minimum of 1 bar must cross near the dash to tie the two front posts together.
- 5.6 A minimum of 2 cross bars are required along the back of the driver’s seat.
- 5.7 The driver’s seat must be securely fastened to the roll cage with at least 3” of clearance from the roll cage to the driver’s helmet.
- 5.8 Roll cage must be welded to the frame.
- 5.9 All corner welds must be reinforced with gussets.
- 5.10 All additional bracing is subject to inspection.
- 5.11 All bars within reach of the driver shall be well padded with substantial padding material.

Section 6. Firewalls

- 6.1 Floorboards and firewall must cover driver’s area and be constructed to provide maximum safety to the driver.
- 6.2 Minimum 1/8” steel or 1/4” aluminum required.
- 6.3 Interior must be constructed so driver can exit from either side.

Section 7. Tires / Wheels

- 7.1 Hoosier D55, D45 and D21 Spec tires only.
- 7.2 14” wheel maximum with allowance for bead-lock. Subject to Technical approval.
- 7.3 Heavy duty lugs and studs are mandatory.
- 7.4 Wide five wheels are permitted.
- 7.5 Aluminum wheels permitted.
- 7.6 Hand grooving allowed.

Section 8. Brakes

- 8.1 Four-wheel, hydraulic brakes.
- 8.2 Must be in good working order at all times.
- 8.3 NO carbon-fiber brake systems.
- 8.4 Aftermarket master cylinders are allowed, balance adjusters are permitted.
- 8.5 Proportioning valves are allowed.
- 8.6 Proportioning valves may be adjusted from driver’s compartment.

“LATE MODEL DIVISION SUPPLEMENT TO THE “2009 GENERAL RULEBOOK”

Section 9. Suspension

- 9.1 Weight jacks are permitted.
- 9.2 NO driver controlled weight jacks allowed.
- 9.3 Any shock allowed.
- 9.4 One shock per wheel in front.
- 9.5 Coil overs allowed.
- 9.6 Tubular upper and lower control arms permitted.
- 9.7 Aftermarket spindles permitted.
- 9.8 Steering quickener is permitted.
- 9.9 Aftermarket tie rods, drag links, heim ends are permitted.
- 9.10 Rack-n-pinion permitted.
- 9.11 Safety hubs are permitted.

Section 10. Clutch / Transmission

- 10.1 Triple disc clutch permitted, 5 inch disc minimum.
- 10.2 Manual 3 or 4 speed transmission including Bert and Brin, or automatic transmission with functional reverse.
- 10.3 Two (2) 360 degree drive shaft loop required.
- 10.4 A 360 degree blow proof bell housing, mine belt, or comparable ¼” steel plate for safety.
- 10.5 Steel or carbon fiber drive shafts ONLY.
- 10.6 Drive shafts MUST be painted white.

Section 11. Rearend

- 11.1 9” Ford permitted
- 11.2 Quick change rears permitted.

Section 12. Battery

- 12.1 Must be securely mounted inside a battery box.
- 12.2 Gel battery highly recommended.

Section 13. Cooling System

- 13.1 One radiator under hood.
- 13.2 No antifreeze allowed.

Section 14. Fuel System

- 14.1 Fuel cell mounting must be welded to frame.
- 14.2 Mechanical fuel pumps mandatory.
- 14.3 Gas lines should run under the floor. If gas lines run through the driver’s compartment, they MUST be enclosed in steel tubing.
- 14.4 Fuel cell must be used. 32 gal max.

“LATE MODEL DIVISION SUPPLEMENT TO THE “2009 GENERAL RULEBOOK”

- 14.5 The cell must be securely mounted in a 20 gauge steel box with two 1/8” x 1” steel straps minimum.
- 14.6 Must have a firewall between fuel cell and driver.
- 14.7 Fuel cell must be located in trunk area.
- 14.8 Gasoline only. NO ALCOHOL.
- 14.9 Fuel cap must be secured to fuel cell.
- 14.10 Fuel line may not exit bottom of fuel cell.

Section 15. Engines

15.1 Blocks:

- 15.1.1 Cast iron only.
- 15.1.2 GM/ BOWTIE - FORD / SVO / MOPAR permitted. Dart, Mow town, other. Call racetrack for info on after market blocks. Do not assume the block you choose to be correct. CALL RACETRACK.
- 15.1.3 Maximum engine displacement:
 - GM - 358 cubic inches.
 - FORD - 360 cubic inches.
 - CHRYSLER / AMC - 370 cubic inches. Contact the track if you are building a MOPAR engine.
- 15.1.4 Must pass pump check.
- 15.1.5 Maximum overbore 4.060.
- 15.1.6 Dry sump oil systems permitted. No Closed vacuume systems permitted. MUST run open valve cover. (Add 50 pounds to total weight if using Dry Sump system)
- 15.1.7 Must have 1” inspection plug for inspection of crank and rods. Call for location.

15.2 Cylinder Heads:

- 15.2.1 Any Cast iron head, 23 degree minimum, that retains stock valve angle and placement is permitted. Angle milled is permitted.
- 15.2.2 Porting and polishing permitted.
- 15.2.3 STEEL ONLY: valves, springs, push rods, tappets, crank, rods, wrist pins, fasteners, and main caps. NO titanium, composite, ceramic or other exotic metals. Stainless Steel permitted.
- 15.2.4 Retainers and keepers can be Titanium.
- 15.2.5 FORD HEAD # ALLOWED: Roush 180 – 053030; Roush – 053040; Windsor Jr. – 5302; Windsor – 2302; M-6049-P303 GT-40 SVO.

15.3 Pistons:

- 15.3.1 Flat top ONLY.
- 15.3.2 Maximum piston size = oversize .060.

15.4 Crankshaft:

- 15.4.1 Stock style crankshaft only.
- 15.4.2 NO knife edging allowed. Must be stock appearing. Leading edge of crankshaft weight is subject to tech approval. Minimal bull nose is permitted.

“LATE MODEL DIVISION SUPPLEMENT TO THE “2009 GENERAL RULEBOOK”

15.4.3 GM/ BOWTIE - FORD/ SVO permitted.

15.4.4 50 pound crankshaft. -2% for cleanup, repair and balancing.

15.4.5 Stock stroke.

15.5 Connecting Rods:

15.5.1 Any steel rod permitted.

15.5.2 Any length.

15.6 Camshaft / Lifters:

15.6.1 Hydraulic or solid ONLY.

15.6.2 NO mushroom lifters.

15.6.3 Stock lifter diameter ONLY.

15.6.4 Roller cams and lifters allow ed.

15.6.5 Gear or belt drive permitted.

15.6.6 Shaft rockers permitted!

15.7 Intake Manifold / Carburetor:

15.7.1 CARBURETOR:

15.7.1.1 Holley HP 600-0-80540-1. This carburetor is not to be reworked in any way! Must remain Box Stock.

15.7.2 INTAKE MANIFOLD:

15.7.2.1 The manifold and carburetor combination in 2008 w ill be permitted in 2009. We w ill permit the intake of your choice which is mass produced and available to the general public. Plenum not to exceed 7.5". Intake plus tw o (2) .060 gaskets and spacer plate. Flat or angled spacer are permitted w ith the measurement not to exceed 7.5". No custom or one off manifolds permitted, if you have any questions, it is your responsibility to call VMS to check that you intake w ill be legal. Suggested manufacturers: Edelbrock, Dart, Professional Products, Holley, GM Performance Parts, etc.

15.8 Ignition:

15.8.1 Any stock type distributor permitted.

15.8.2 Mag ignition allow ed. Vertex. No Spark Box Mags.

15.8.3 MSD 6 Series Ignitions allow ed.

15.8.4 NO crank trigger mechanis m allow ed and NO electronically actuated traction control devices of any kind.

15.8.5 MSD harness cannot be cut or spliced in any manner. Must remain as shipped by MSD. NO EXCEPTIONS.

15.9 Exhaust:

15.9.1 Exhaust MUST exit parallel to the ground and to the outside of the car.

15.10 Engine Location:

15.10.1 The #1 Spark plug maybe a maximum of 6" behind the center of the upper ball joint.

“LATE MODEL DIVISION SUPPLEMENT TO THE “2009 GENERAL RULEBOOK”

Section 16. Weight

- 16.1 2400 pound total weight minimum. 2450 pound total if using Dry Sump.
- 16.2 Cars will be weighed in post-race condition, with driver and no added fuel.
- 16.3 Track scales will be regarded as official.
- 16.4 Failing weight minimum after race will result in DISQUALIFICATION.
- 16.5 All lead weight must be properly secured and painted white. (Subject to tech approval.)
- 16.6 All lead weight must have car number painted on it. (Subject to tech approval.)

Section 17. Protest/Post-Race Inspection

- 17.1 \$750.00 complete engine teardown.
- 17.2 \$500.00 top half.
- 17.3 Track does NOT pay for labor or materials associated with teardown for inspections.
- 17.4 Protest must be submitted in writing within 10 minutes of feature completion. Protested car has right to counter protest.
- 17.5 Only top 5 can protest.
- 17.6 All parts found illegal become the property of VMS until the end of the season.
- 17.7 Can OR Can't rule: DO NOT try to read between the lines in the rule book. Just because the book doesn't say you can't, don't assume you can. Any modifications not specifically outlined here are at the Tech Departments discretion. All final decisions will be made by the tech officials. Ask first before you assume something is legal.