



**2012**



**LATE MODEL DIVISION**

**Virginia Motor Speedway**

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# “LATE MODEL DIVISION SUPPLEMENT TO THE “2012 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.

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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.

3.8.6 If running a Crate Late Model please see “Addendum A” for rule.

## **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.

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- 4.3 Bars may not extend past stock bumper position.
- 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. (There will be tire rule change as soon as we get info from Hoosier Tire)
- 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.

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8.6 Proportioning valves may be adjusted from driver's compartment.

### **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.

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- 14.4 Fuel cell must be used. 32 gal max.
- 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 (If you running a Crate Late Model See “Addendum A”)**

#### **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; **Ford N-Head 47cc minimum.**

#### **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.

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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. **THEY MUST BE RUN AS BUILT. No cutting, grinding and machining.**

### **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.

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### **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.)
- 16.7 If running a Crate Late Model 150 pound weight break (2250 pounds total weight minimum) See “Addendum A”

### **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.

## **Crate Late Model “Addendum A”**

### **Section 18. Fastrak Crate Late Model Engine Package**

#### **ENGINES**

GM 602 Car and Driver: 2250 lbs (Touring events allow 1 lb per lap ‘burn off’ in *feature only*)

GM 604 Car and Driver: 2250 lbs (Touring events allow 1 lb per lap ‘burn off’ in *feature only*)

All Engines and parts must be as from factory and all components thereof. Any changes will result in disqualification and no points awarded.

This includes, but is not limited to, harmonic balancers, valve springs, push rods, rocker arms, and after market valve covers.

\*\*\*NO upgrades are allowed to any engine that may produce power via “performance enhancing methods”.

Only FASTRAK “authorized” engine builders have FASTRAK engine seals.

Must be a member of FASTRAK to receive FASTRAK engine seals.

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### **IF YOU ARE CAUGHT CHEATING “WITHIN THE BOLTS”**

**(THIS INCLUDES “AFTERMARKET” VALVE SPRINGS)**

**Driver is fined \$1000 and barred for 365 days**

**Loss of points**

**Cannot compete in GRAND NATIONALS**

**If car owner is ‘separate’ of driver, car owner will be under the same penalty. Neither driver or car owner (if separate) may compete at any FASTRAK weekly sanctioned track and or touring event for 365 days.**

**Track event: (Track receives 50% of \$1000 fine)**

**Regional Touring event: (Region receives 50% of fine)**

**EXCEPTION: If FASTRAK “authorized” engine builder signs legal “affidavit” stating that competitor had NO knowledge of rules infraction in relation to building of ‘said’ engine.**

**Competitor and/or car owner (if separate) will be fined \$500.**

**Competitor and/or car owner (if separate) will be suspended for 30 days**

**Competitor and/or car owner (if separate) will lose all points.**

**\*ALL RULES in effect for ALL OPEN SHOWS that are FASTRAK Sanctioned.**

**\*By participating in ANY FASTRAK event (Touring, Weekly or Open) Competitor, Owner and any affiliates of such agree to a “hold harmless” agreement under the terms of this rule book.**

**Competitors, Car Owners, Engine Builders have the right to “appeal” at the FASTRAK Corporate Office. Findings at said appeal shall be binding and FINAL! Appeals must be filed in writing within 48 hours of infraction. Appeals may be faxed to: (678) 528-3117.**

### **GM ‘RM BOLTS’ WILL NOT BE LEGAL IN 2011**

#### **PROTESTS**

**Top 5 cars can protest anyone within top 5 positions.**

**Engine CLAIM RULE: GM 602 HP \$3500 Claim    GM 604 HP \$5500 Claim**

**Participant refusing to allow claim will be considered ‘illegal within the bolts’ and penalties according to such will apply.**

**Tear Down Rules: All fees must be paid in full within 10 minutes of protested car crossing scales. Protestor must have money in hand for protest. ONCE PROTEST IS DECLARED, IT CANNOT BE WITHDRAWN!**

**COMPLETE TEAR DOWN: \$800.00 fee. \$200.00 goes to series and/or track (engine will be put back together at FASTRAK “authorized” engine builder for \$600 plus any applicable parts. NOTE: \$600 is for reassembly and re-sealing. Does NOT include any additional needed parts related to wear and tear).**

**CAM PROFILE: \$300. \$100 goes to Series and/or track.**

**PULL HEAD AND INTAKE: \$300. \$100 of fee goes to Series and/or track.**

**WEIGH CRANKSHAFT: \$300. \$100 of fee goes to Series and/or track.**

**\*In the case of two day shows, engines will be marked for legality. Marked engine must be present at post race tech.**

**\*Should competitor change engines, tech personnel must be notified in advance. Both engines may be subject to technical inspection. Engine not inspected in advance will automatically be disqualified.**

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FASTRAK / VIRGINIA MOTOR SPEEDWAY RESERVES THE RIGHT TO CHECK ANY COMPETITORS ENGINE BY DYNO TESTING, TEAR DOWN, OR ANY OTHER MEANS FOUND NECESSARY TO CONFIRM THE LEGALITY OF AN ENGINE. Any competitor that will not allow testing procedures per the discretion of the Regional Director, Tech Official or FASTRAK Official, will be barred for 365 days and fined \$1000. It is the duty of FASTRAK to keep engines legal per the FASTRAK rule book based on rules of “fair competition”.

**FASTRAK WILL CONTINUE VIGOROUS INVESTIGATION INTO BACKGROUND OF TEAM OWNER, DRIVER, AND ALSO DO INVESTIGATIVE WORK TO FIND ENGINE BUILDER RELATED TO ANY SUCH INCIDENT OF CHEATING.**

**FASTRAK WILL NOT TOLERATE CHEATING WITHIN THE BOLTS/SEALS. FASTRAK WILL PROSECUTE ENGINE BUILDERS FOUND TO BE CHEATING ENGINES OUTSIDE OF GM TECH MANUAL SPECIFICATIONS. LAW PERTAINS TO “SPIRIT OF COMPETITION”. DOING ILLEGAL WORK INSIDE OF A SEALED ENGINE IS IN DIRECT CONFLICT OF ANY SERIES UTILIZING SEALED ENGINES. ENGINE BUILDER WILL BE BARRED FOR LIFE, REPORTED TO GM AND EVERY SERIES AND TRACK IN THE UNITED STATES KNOWN TO FASTRAK. ARTICLES WILL BE PUBLISHED IN MAJOR NEWSPRINT SHOULD SUCH INCIDENT TAKE PLACE. We consider this to be a serious offense and it will be treated as such.**

### **APPEAL PROCESS:**

Appeals must be made in writing in the following manner

- 1) For weekly tracks: in writing the same night of said protest
- 2) Regional Touring events: in writing the same night of said protest
- 3) In both instances copy of APPEAL must be faxed to FASTRAK corporate office within 48 hours of said protest.

APPEAL will be heard by all parties involved plus someone from the FASTRAK Corporate Office and possibly legal counsel of FASTRAK. By becoming a member of FASTRAK, you are agreeing that the decision made by the corporate office will be final and party posting APPEAL has no legal rights thereafter.

### **CARBURETORS**

\*Any 750 CFM Carb or smaller. Must have 1 11/16<sup>th</sup> base plate maximum. No exceptions.(measured with no go)

\*Billet base plates may be used (.780 maximum)

604 1 Inch carb spacer maximum **(0 TOLERANCE)**

602 2 Inch carb spacer maximum **(0 TOLERANCE)**

**\*Please take time to check your plate** with a gauge, not a tape measure.

Spacer may not protrude into carb or intake at any point. .

One gasket per surface. .070 maximum.

\*No fuel injection, nitrous oxide or other type systems allowed.

\*Two throttle springs strongly recommended!!

\*Aerosol carbs are not legal.

### **FUEL SYSTEMS**

Mechanical fuel pump only.

NO electric fuel pump of any type

### **EVACUATION SYSTEMS**

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EVACUATION SYSTEMS ARE NOT ALLOWED OF ANY TYPE!. Note: This means any type vacuum system.

### **HEADERS**

Tri Y headers are not legal.  
No merge collectors

\*Please note it has been brought to our attention the use of custom headers. Should the price of headers become what the series considers 'unreasonable' and an unfair advantage, the series retains the right to use 'spec headers'.

### **OIL PUMP**

Wet sump only.  
No external oil pumps. Even if considered "wet":  
Remote oil filter and lines permitted. (One) remote oil filter.  
Oil cooler allowed. (One)

### **DISTRIBUTOR**

No magnetos.  
Electronic ignition allowed.  
MSD type box allowed.  
**Series retains the right to change MSD boxes at any time without notice.**  
**No crank triggers or devices inside car that allow adjustment of timing.**

### **ELECTRONIC DEVICES**

No electronic devices allowed on any car thereby enhancing adjustment of that car.  
Electronic brake "cut off" legal on right front only  
No remote control devices allowed on any car during any event.  
Lap timers allowed during practice sessions only.  
No electronic devices controlling shocks.

### **Exotic Materials:**

ALL exotic materials are illegal. That includes titanium and/or carbon fiber.  
Carbon fiber drive shafts are legal.

### **SPOILER:**

8 inch spoiler only  
Metal or Lexan permitted. Plexiglas is not permitted.

Adjustable spoiler permitted up and down only. Side to side not permitted. Spoiler may not be adjustable during the race.

Maximum measurement is 8 inches tall X 72 inches wide.

2 piece spoiler allowed but must be bolted together at joint and attached to single blade at that joint.  
If bolted together, both pieces must be exact same angle.

Measured total of all material including any turns including support brace.  
Spoiler may not extend over side of car.

3 blades allowed. Rear of blade must be even with rear of deck (tolerance for piano hinge only).  
Supports or blades maximum length of 18 inches where it attaches to the car. Includes middle blade.

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Blade must have a minimum of 2 ½ inches clearance between front of blade and rear of window post.

Blade at front edge must be a maximum height of 6 inches and rear edge a maximum of 12 inches. (VMS Rule Only – Fastrak rules differ)

If angle material is used to support rear of spoiler, it must be mounted at least ½ inch below top edge of spoiler