

# LIMITED LATE MODEL 2010-11

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## THE ROCK – ALLEGANY COUNTY SPEEDWAY

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*Oval Track Promotions*

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*Technical Inspectors: Ken (814) 695-1310 or Larry (301) 697-0142*

**Bedford Speedway rules have precedent for Bedford/Rock Shootout race events.**

### 1. Eligible Models

- A. This division is limited to 1998 to present American manufactured stock car bodies.
- B. Cars must have type of body style displayed on car with three inch (3") minimum letters. Example: Monte Carlo, Intrepid, Taurus, Grand Prix

### 2. Bodies

1. The nosepiece style (GM, Ford, Mopar) must match the body style of the car and be the same as the motor used.
2. All cars must have a minimum of half inch (1/2") and a maximum of one-inch (1") radius at the top of fenders, doors and quarter panels. A sharp edge will not be permitted.
3. Floor boards and firewall must fully cover the driver's area and be constructed to provide maximum safety.
4. No fins or lips of any kind are permitted anywhere along the entire length of the car.
5. The body line must be a smooth even line from front to rear.
6. No wedge shape cars are permitted.
7. "Belly pans" or any type of enclosure on the bottom of the car are not permitted. A robust skid plate to protect the oil pan is permitted.
8. Wings or tunnels of any kind are NOT permitted underneath the body or chassis of the car.
9. A maximum of one (1) stone deflector, for rear mounted oil pumps, oil filters, and for the main oil tank is permitted. The deflector may be made of steel, aluminum, or heavy gauge wire. The cover may only be mounted near the unit it is designed to protect with a maximum size of eighteen inches square (18" x 18") and mounted only from the upper right frame rail to the lower right frame rail.
10. Panels of any kind under the rear deck running from the front to the rear of the car are NOT permitted.
11. Non-approved bodies may at the discretion of the tech inspector, be assessed a fifty pound weight penalty.
12. Any style air cleaner scoop used must be positioned in front of or around the air cleaner and cannot exceed one inch (1") in height above any part of the air cleaner. The scoop may not have fins or raised edges designed to direct airflow.
13. Cockpit adjustable components are NOT permitted, except brake bias adjusters. Adjusters for adjustable shocks, hydraulic or pneumatic weight jacks, trackers, ignition boxes or similar adjustable components of any kind are NOT permitted inside the cockpit of the car or within reach of the seated driver.

### 3. Stock Nosepieces

1. Only approved stock nosepieces may be used. A list of approved manufactures and part numbers is available from UMP, DIRT car or WOO Late Models.

2. Nosepieces must be made of molded type material.
3. Two piece noses must be fastened together in the center. Spacers added to gain width are not permitted.
4. The nosepiece must be mounted so as not to alter its original shape.
5. Noses shall remain flat above the nose lip/wicker bill. No alterations or additions may be made to this area other than cooing holes.
6. The nosepiece can extend a maximum of fifty-two inches (52") from the center of the front hub to the farthest point extending forward. No tolerance.
7. The nosepiece must have a headlight decal package affixed. A one-race grace period, running contrasting color tape in the shape of a headlight will be permitted.

#### **4. Roof, Roof Supports and Window Side Panels**

1. The roof length size must be a minimum of forty-four inches (44") to a maximum of fifty-four inches (54").
2. The roof width size must be a minimum of forty-eight inches (48") to a maximum of fifty-two inches (52").
3. The roof must be stock appearing and be mounted level.
4. The roof height must be between forty-five inches (45") and forty-eight inches (48") from the ground.
5. The roof must be mounted parallel to the body and near the center of the car as viewed from the front.
6. A maximum one and one half inch (1 ½") roll, turned downward, is permitted along the front edge of the roof. A maximum one inch (1") roll, turned downward, is permitted along the rear edge of the roof. (these rolls are permitted to help strengthen the roof.) No turn-up at the rear of the roof will be permitted.
7. No flat or odd shaped roofs are permitted. No bellied or hollow roofs.
8. Any sun/antiglare shields may not exceed a 4" drop from the top roof line, and must hinge for easy exiting.
9. A maximum of two (2) roof edge bead rolls of a maximum height of one half (1/2") inch are allowed.
10. Roof Post and Spoiler Support may not overlap.
11. Roofs are only allowed to be single plated.
12. Maximum thickness dimension of roof shall be ½" (one half inch)
13. The roll cage and associated frame members above the interior decking shall remain open and not enclosed.
14. All roof side panels must extend to the edge of the body.
15. Roof side panel window size must match the dimensions in the drawing and be a minimum of ten by fifteen inches (10" X 15").
16. The window area may be covered with clear Lexan or equivalent, be cut out, or be represented by a decal. Both roof support openings must be covered or both must be left open.
17. Left and right side widow panels must match.
18. A maximum bow of two inches (2") outward on the window side panels as viewed from behind will be permitted.
19. Front roof supports up to two inches wide must extend forward to the rear of the hood.

#### **5. Front Fenders, Fender Flares and Hood**

1. The hood and front fenders must be level and flat from the left to the right side of the car.
2. The line from front to rear fender heights must slope up.
3. No part of the fender or the hood can be outside of the bodyline.

4. The front fender can be a maximum of thirty-seven inches (37") in height. Height is measured vertically from the ground to the top of the fender behind the front tires.
5. Front fender flares must be made of plastic and cannot alter the original shape of the nosepiece.
6. The front fender flares cannot extend beyond the front tires more than one inch (1") per side to a maximum width, edge to edge, of ninety inches (90") in width with wheels pointed straight.
7. The front fenders flares must be flat across the entire width of the car.
8. Front fender flares must have collapsible supports.

## **6. Doors**

1. The door to door measurement cannot exceed seventy-six inches (76") in width at the top of the doors.
2. The door to door measurement cannot exceed eighty two inches (82") in width at the bottom in the center of the car.
3. Doors cannot exceed thirty seven inches (37") in height measured from the ground.
4. At no point can the door sides break inwards from the top 76" and bottom 82" measurements. No hollow or bellied doors permitted.
5. The minimum ground clearance permitted is three inches (3").

## **7. Quarter Panels**

1. The maximum distance permitted from the center of the rear hub to the top corner of the quarter panel is fifty-two inches (52").
2. The quarter panels cannot exceed seventy six inches (76") in width at any point as measured at the top.
3. Rear decks that taper from seventy six inches (76") back to seventy two inches (72") at the spoiler must do so from the center of the rear hub, equally on both sides.
4. The quarter panels cannot exceed eighty inches (80") in width in the center (19" height off ground) or at the bottom.
5. At no points can quarter panel sides break inwards towards the center of the car. No hollow or bellied quarter panes permitted.
6. The maximum distance from the center of the rear hub to the end of the quarter panel is forty eight inches (48").
7. The maximum height permitted from the ground to the top of the deck is thirty eight inches (38").
8. Tire clearance from the body should be a minimum of two inches (2").
9. No skirting is permitted to extend behind the quarter panel.

## **8. Spoiler and Spoiler Supports**

1. The rear spoiler must be manufactured of adequate strength material such as Lexan or Aluminum.
2. The maximum overall length of the material used on the rear spoiler is eight inches (8"). The maximum width of the rear spoiler and supports is seventy two inches (72").
3. The rear spoiler is not permitted to be suspended above the deck to create a "wing effect".
4. The rear spoiler must begin where the quarter panels end.
5. No more than three spoiler supports are permitted. The front edge of the spoiler supports must be in line.

6. The outer spoiler supports cannot be mounted wider than the top of the quarter panel, and must be centered on the deck.
7. Spoilers will be measured according to the total length of and width of the material, in any shape or form. If an aluminum angle is used to brace the upper edge of the spoiler, it may not add to the spoiler height or length in any way.

## **9. Appearance**

1. Race number(s) must also be displayed on the front nose and rear fuel cell and be a minimum of six inches (6") in height.
2. Legible race numbers, at least eighteen inches (18") high are required on each side of the car and on the roof.
3. The drivers last name must appear in bold block letters (8" minimum) on both doors or rocker panels and across the front of the roof.

## **10. Interior**

1. The interior of the cockpit can be not less than eleven inches (11") below the roof and the roll cage measured straight up and down.
2. If the front of the roof has a rolled under lip for strength, then you will not be required to have 11 inches in the front, but the top of the roof still must be 11 inches.
3. Side windows must have fifteen inches (15") minimum opening, measured at an angle to the door.
4. No support bars are permitted to block the right window exit from the cockpit.
5. A rock guard (lexan screen) can taper back from the steering wheel to a height of one inch (1") in line with the driver's chest providing the eleven inch (11") minimum clearance is met at any point from the roll cage to the body or rock guard. Easy exit on right side of the car is imperative.
6. Dropped interiors may begin no further forward than the rear engine plate with a maximum of four inches (4"), and cannot drop below four inches (4") of the rear of the hood. The start of the dropped interior may not be open, as this forms part of the fire wall. The entire width must be closed off in sheet metal.
7. The interior must gradually taper up to the quarter panel height and be level for twenty inches (20") from the rear of the quarter panel and deck.

## **11. Driver Compartment**

1. A full metal firewall must encompass the driver's compartment from front to rear, on both sides and the floorboards. Aluminum or sheet metal is required.
2. The driver's seat must be of a proper high back aluminum racing seat design, located on the left side of the car and securely attached to the frame.
3. Seat design should be one from a current manufacture and recommended to include full containment design. Installation should follow manufacture recommendations.
4. All cars must have a quick-release type steering wheel.
5. All cars must have a working starter, operated from inside the car.
6. Mirrors are NOT permitted.
7. Radios are NOT permitted in the car or on anyone connected with the car.
8. The edges around the driver's cockpit must be suitably protected with trim or beading. Care must be taken not to have any sharp, jagged or rough fasteners, brackets or anything else that could snag the driver's suit when the driver exits the car.
9. A substantial rock guard steel screen with a minimum of 3 bars must be mounted in front of the driver

## 12. Frame

1. The wheel base width must be between a minimum of one hundred and three inches (103") and a maximum of one hundred and five inches (105").
2. All frames must be of steel construction and must be a minimum of two inches by two inches square (2" X 2"), or rectangular with a minimum material thickness of .083".
3. If a round tube frame is used, the tubing must have a minimum of one and three quarter inch (1.75") outside diameter, with a minimum material thickness of .083 inches. These frames must use 4130 Chrome Moly Steel or DOM for construction.
4. If the rear bumper is stubbed, it may only extend a maximum of eight inches (8") beyond the frame. Any stubbed rear bumper that extends in excess of eight inches (8") beyond the frame must be rounded and directed eight inches towards the front of car.
5. No external rub rails are permitted.
6. It is recommended that all cars be equipped with a tow hook or strap.
7. All battery supports must be braced in at least two axis, two horizontal and one vertical.
8. All frames built from 2006 on, are required to have the builder's unique serial number plate prominently attached by welding on the left side of the roll cage upright. The letters and numbers shall not exceed 8 in number, and be half inch (1/2") in height.

## 13. Roll Cage

1. Cars must have a suitable steel roll cage in the driver's compartment.
2. Side roll bars are mandatory and must extend into the door panels.
3. A minimum of three bars must be used on the left side of the car.
4. Each bar must be a minimum of one and one half inch (1 1/2") in diameter with a minimum thickness of .065".
5. All bars of the roll cage must be above the driver's helmet.
6. For all new frames built in 2006 and on, an extra vertical side brace bar of one and one half inch (1 1/2") dia. X .065" is required on left side in line with the steering wheel.

## 14. Safety

- Five (5) part nylon quick release safety belts required in good condition and working order. Belts must be attached to frame of car.
- B. Approved fire resistant driver's uniform, gloves and shoes are required. Fire resistant hoods, socks and underwear are recommended.
- C. Full faced racing helmet with lexan shield. Snell 90 or newer.
- D. Nylon mesh window net is recommended but not required.
- E. On board fire extinguisher is highly recommended.
- F. Quick release steering wheel.
- G. No electric fuel pumps or pressurized fuel systems.
- H. A driveline "sling" is required.
- I. Drive shaft and weight ballast must be painted white or yellow and have car number painted on them.
- J. Added weight or ballast must have a minimum of two 1/2" diameter bolts fastening each piece securely to a frame member.
- K. Eighteen (18) gauge steel or one-eighth inch (1/8") aluminum "cockpit tub" to protect front, sides and rear of driver is highly recommended.
- L. No batteries permitted in driver's compartment.

## 15. Fuel Systems

- A. An approved fuel cell, thirty-two (32) gallon maximum, must be securely mounted in the trunk area of the car inside a twenty (20) gauge metal box supported by two (2) one-eighth inch (1/8") by two inch (2") steel straps.
- B. All fuel cells must be completely visible from rear of car. Fuel cell is not permitted to be mounted lower than bottom of quick change rear-end.
- C. No pressurized fuel systems permitted.
- D. Alcohol or racing gasoline only is permitted. Nitrous gases or other nitrate additives are not permitted.

## 16. Wheels

- A. Aluminum or steel wheels only.
- B. Fourteen-inch (14") width maximum.
- C. No plastic or fiberglass wheels permitted.
- D. Bead locks allowed.
- E. Wheels must be mounted with lug nuts. No "knock-off" mounting devices permitted.

## 17. Tires

- A. American Racer 44, Hoosier 15/1300 or harder compound allowed. Nothing softer. All tires must meet a minimum durometer reading of 32 at any time. The track durometer is the official measuring device.
- B. Maximum circumference permitted is ninety-three inches (93"). No Tolerance.
- C. Maximum cross section width is sixteen and three-quarters inch (16 3/4"). No Tolerance.
- D. Maximum cross section width is sixteen and three-quarters inch (16 3/4"). No Tolerance.
- E. Maximum circumference grooving permitted is eleven inches (11"). No Tolerance.
- F. Hoops for inspection must pass over tire freely.
- G. No buffing or taping over tire's size or lettering.

## 18. Brakes

- A. Must be in good working condition with all four (4) working properly.
- B. Only steel brake rotors permitted.
- C. No plastic brake lines. Steel braided brake lines permitted.

## 19. Transmission, Clutch & Rear End

- A. Aluminum or steel transmission permitted. (Bert or Brinn allowed).
- B. Must have forward and reverse gears with working clutch and starter. Multi-disc clutch permitted and can be run with an aluminum bell housing. Stock configuration clutch must have a full scatter shield of at least one-quarter inch (1/4") thick steel or approved bell housing. Failure to do so will result in automatic suspension and loss of points.
- C. No direct drive or in-out boxes permitted.
- D. Automatic transmission permitted.
- E. No "live-axle" rear ends permitted.
- F. Floater "wide-five" hub assembly only is permitted.
- G. Aluminum axle tubes allowed.
- H. Quick-change rear ends are permitted.

## 20. Suspension

- A. Front suspension must be stock configuration.
- B. No center steering.
- C. Late model suspension components may be used.
- D. No torsion bar suspensions.

## 21. Remote Controlled Suspension Devices

A. No remote shock controls or suspension adjusters permitted. No weight jacks of any kind permitted. This includes fifth (5th) coils, etc. Any driver using or found to be using any of the above mentioned devices, WILL lose the complete device permanently, WILL BE DISQUALIFIED FROM COMPETITION and will lose all CHAMPIONSHIP POINTS earned to that point in the season.

## 22. Engines

- A. Engines limited to 360 cubic inches. Balanced assemblies optional.
- B. Block must be a standard factory production block and naturally aspirated that was less than 360 cubic inches originally. No aluminum blocks. Chevy Bow-tie, Mopar R and Ford Svo blocks are permitted. World Products Mowtown part # 084011 or part # 084111 blocks for Chevy or World Products ManOwar part # 087150, 087152, 087170 or 087172 for Ford will be acceptable. Dart Sportsman, Little M part # 3115111 or Dart High Performance block part # 31161111 for Chevy will be allowed. All factory i.d. letters and numbers must be present on blocks.  
Other than those listed above, no other blocks will be permitted.
- C. Engine setback: Forward most spark plug behind the upper ball joint not to exceed six inches (6") measured from center line of spark plug to center line of the upper ball joint.
- D. Crankshaft stroke must remain stock for engine make and model being used. Three point five (3.5) inch stroke crankshafts are acceptable as long as the displacement does not exceed 360 cu. in. Crankshafts may be turned undersize a maximum of .040". Aftermarket steel crankshafts will be allowed for durability purposes but can weigh no less than 46 pounds
- E. Wet or dry sump oil systems allowed.
- F. Any stock length steel (no titanium or aluminum) connecting rod may be used. Aftermarket steel connecting rods are acceptable. Ford, Chevy and Mopar may use a 6 inch connecting rod.
- G. Flat Top Pistons Only. Zero deck. Pistons may not be above the block.
- H. Any factory production steel head. World Products Sportsman II, Chevy Bowtie, World Products Roush 200 and Mopar W2 steel head allowed. World Products GM casting number is I-037. World Products Ford casting number is I-051. GM Vortec heads part # 25534371 and 25534351 will not be permitted. Ford "N" heads will be permitted but will require twenty (20) lbs. of lead ballast to be added in front of the rear engine mounting plate. Twenty (20) lbs. does not include the weight of the mounts. No other aftermarket heads will be allowed. No aluminum heads. No angle milling of the head allowed. Combustion chambers can be ground or polished, but must be 60 cc minimum volume. No relocating of rocker arm studs. Shaft style rocker systems are legal. Port matching on the head intake runner is acceptable up to a maximum depth of 3/4 inch in from the intake manifold interface. Port matching on the head exhaust runner is acceptable up to a maximum depth of 3/4 inch in from the head interface. The valve seat area can be cleaned-up and blended no deeper than 3/4 inch in from the seat. No additional hand or machine work of ports is permitted. CC measurements of head runners to remain stock with the exception of port matching.

- I. Steel or stainless steel valves only. Any spring, any retainer permitted. Roller rockers permitted.
- J. Flat tappet cams only with a **maximum** lobe lift of .400 inches. No mushroom or roller lifters. No ceramic or high dollar billet lifters. Lifter bores must remain stock. No needle bearing cam, crankshaft or rod bearings permitted. No cam belt drives or externally adjustable cam timing devices.
- K. No electric fuel pump, pressurized fuel system or inboard (in driver's compartment) fuel pumps. External gear drive fuel pumps permitted.
- L. No 180-degree headers. Mufflers are mandatory and must be attached at completion of event. If using an internal or cone style muffler, it must be positioned so the tech official can see it clearly.
- M. Must have working starter.

### **23. Ignition**

- A. Any battery powered ignition. MSD, ACCEL, MALLORY or equal permitted.
- B. No magnetos.

### **24. Carburetor**

- A. A maximum of four barrels of carburetion. Single carburetor only. No super chargers, fuel injection or turbo chargers.
- B. Any approved intake manifold other than a smoke ram or tunnel ram. Intake height to be a maximum of eight inches (8") measured from the top of the carburetor bowl using a straight edge from the bowl to the #3 or #4 runner of the intake manifold.

### **25. Weight**

- A. Minimum weight of car and driver of 2400 lbs. after any event.
- B. All added weight must be painted white with the car number displayed and securely attached to the frame with a minimum of two 1/2" bolts. Any bolt on weight must be in front of the rear bumper.
- C. Track scales will be considered official.

### **Rule Disclaimer**

The above rules are intended to be a guideline in constructing a car. The decision of the track officials is final. Officials reserve the right to interpret or change these rules whenever they feel it is appropriate in regards to promoting safety or competition. These rules are in no way a guarantee against injury or death to a participant, spectator or official. No express implied warranty of safety shall result from publication of or compliance with these rules and regulations.

If you should have any questions, please contact The Rock - Allegany County Speedway Office.

Note: Any nose piece, materials or mechanical devices that are not specifically mentioned in these rules are illegal unless or until they have been sanctioned and agreed to by The Rock - Allegany County Speedway officials. Teams that have any question with regard to any technical rule or any particular new product should call The Rock - Allegany County Speedway Office.