

# **Late Model Rules**

## **1. COMPETING MODELS:**

(A) Late Models Any 1999 through current American made sedans or coupes. Minimum wheelbase 101". All cars must maintain 4" ride height without driver.

## **2 A. BODIES:**

(A) Late Model bodies must be fiberglass or aluminum; all bodies must maintain original dimensions ABC/Muscle car ect. Bodies must be installed in a professional manner and meet manufactures guidelines. No exotic wedge type or homemade bodies allowed. Bodies must be acceptable by tech officials.

(B) Minimum 47" roof height required, measured 10" back from top edge of the front windshield. Maximum 35" quarter panel height at rear of panel. Maximum 15" ground clearance at rear quarter panels and rear bumper cover.

(C) Hood must fit in original position and maintain the original configuration. A minimum of four (4) hood pins at the leading edge of the hood and two (2) hood pins or hinges at the trailing edge. Hood scoops are allowed. All body parts must be fastened securely and in a manner acceptable to Technical Officials.

(D) A rear spoiler, not to exceed a maximum of 6.5" in height off the deck lid. The spoiler must be mounted with no less than 1/4" bolts and flat washers. It is mandatory that the top 5" full length of the rear spoiler on all cars is 1/8" thick, flat, clear Lexan.

(E) The trunk must be able to be opened for inspection purposes. Positive metal fasteners or pins must be used on the right and left sides of trunk.

(F) Windshield is mandatory, but may be replaced with minimum of 1/8" Lexan. Side port windows and rear windows allowed and must use a minimum of 1/8" Lexan. Must have a minimum of two (2) – three (3) recommended – vertical braces inside the windshield spaced at least 6" apart and centered. Must be welded or bolted with a minimum of 1/4" bolts and flat washers to the roof hoop and the dash. Materials permitted are: 3/4" x .065 tubing, 1/8" x 1" flat bar or 1/2" solid.

## **3 SUSPENSION:**

(A) Any fabricated car with a stock or Fabricated front clip allowed. Max tread width using stock lowers "ford ok" 69 inches, Max tread width using fabricated front lowers 67

inches. 2.5" minimum coil over front springs or 5" minimum big springs only. Front big spring with rear coil over no weight penalty. Front coil overs add 25lbs.

**(B)** Stock front clip may be modified for height of engine on top of cross member and in spring pocket and fuel pump areas.

**(C)** Pro WB series, Integra 421 series, or Afco 10/12/14 series shocks only.

**(D)** Floater rear end mandatory. Quick change allowed

**(E)** Steel spindles mandatory, Wide five Hubs allowed. Aftermarket calipers ok. If using single piston cast iron front calipers deduct 25lbs.

**(F)** Rear suspension type optional. Leaf springs and 4 links ok, 3 link may only use 1 single solid top link bar "no spring or biscuit style" and only 1 piece solid trailing arms. Pan hard bar or J bar ok.

**(G)** One piece sway bar , maximum 1 1/4 inch. 3 piece bars add 25lbs Maximum 1¼. No rear sway bar.

**(H) WHEELS:** Maximum 10" steel wheels permitted. Must be approved for Circle, Bassett, Aero, etc. No remanufactured or homemade wheels. No bead lock wheels permitted or extreme beads.

**(I) TIRES:** American Racer 970 or Hoosier 970

## **4.ENGINE AND TRANSMISSION:**

**(A)** Stock production V-8 cast iron engines only. Wet sump engines only no external oil pumps. Max cid 360.

**(B)** All engines will be allowed a 2" engine set back.

**(C)** Stock OEM cast iron heads, World Products S/R, Dart SS 10024370, Vortec or Bowtie heads must be used. No Vortec Bowtie. No port matching, porting, polishing or deburring of port and/or combustion chamber. No angle milling of heads. Any flat tappet cam only except crate engines.

**(D)** Any unaltered 2-barrel or 4-barrel intake manifold only. No port matching, porting, polishing, or deburring or runners. Headers are permitted.

**(E) CARBURETOR:** 4150 Holley 750 cfm 4 bbl allowed on engines factory size 360 cu inch and below. Choke horn may be removed on all carbs, pro form center sections ok on 4150. No fuel injection or electric fuel pumps allowed. Maximum 1" spacer and/or adapter permitted between the carburetor and intake manifold. Carburetor must have an air cleaner on at all times. Maximum air filter element size 4" x 16". K & N filters allowed. No foam air cleaners. Non crate engines may use a 4412 Holley 500 cfm 2 bbl and deduct 75lbs

**(F)** NO traction control.

(G) Transmissions must be bolted directly to engine or bell housing without alteration. No aluminum or alloy fly wheel. Reverse gear must be in working order. All transmissions are subject to the Technical Official's approval. Minimum 5.5 inch clutch.

(H) Must have steel scatter shield or reinforced belting of 3/8" minimum thickness material. Entire transmission hump, to the end of the transmission, must be covered if belt material is used. Belt material must be securely fastened. If using 7.25 or smaller clutch then aluminum bell housing is ok with no belting.

(I) Drive shaft must be steel, or aluminum only. Must be painted white and be a minimum of 2 3/4" in diameter. The drive shaft must be surrounded by either two (2) 360 degree solid steel straps no less than 2" x .125 or chain 1/4" thick or cable 1/4" thick and be placed not more than 12" from each universal joint and fastened to the floor or cross member.

(J) The GM sealed crate engine, part # 88958604 must conform to the Super Late Model crate engine rules, must use an unaltered Holley 80541-1 or 80541-2 Carburetor. 604 engine can deduct **100 lbs from total weight. 6400 or less rpm rev limiter must be used**

(K) The GM sealed crate engine, part # 88958602/19258602 must conform to Sealed crate engine rules, must use an unaltered Holley 80541-1 or 80541-2, Carburetor. 602 engine can deduct **150 lbs from total weight. weight, this may be adjusted to balance competition. 602 also may be 1% left side weight more than chassis spec. No rebuilding of 602 crates allowed. 7" oil pan may be used. 6200 or less rpm rev limiter must be used**

## **5. ROLL CAGE:**

1. A roll cage is **MANDATORY**. It must be fabricated with a minimum of 1 3/4" x .095 round ERW or DOM tubing. Roll cage must have main hoop, roof hoop, two (2) A-post bars, dash and main hoop spreader bars and main hoop diagonal bar. Minimum of three (3) door bars on each side. Left side door bars must radius out to within 1" of the door skin. It is mandatory that a 10 gauge steel plate completely cover all left side door bars from front to rear and top to bottom, and be solidly welded in place. Removal of left inner door panel optional. Right inner door panel may be gutted if door bars extend past inner door panel. Roll cage legs must be attached to the frame rails and not to the floor pan. Dash bar must go over top of the steering column. A minimum of two (2) bars must extend from the top of the main cage, through the rear firewall, to within 6" of the rear cross member of the frame. Front hoop is allowed, must be a minimum of 1 3/4" x .095 and cannot extend past the front grill. All overhead welds must be gusseted. Rear frame rails must remain stock and complete.

2. Roll bars in Driver's area must be padded.

## **6. SAFETY:**

### **(A) FUEL CELL:**

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. Filler spout and overflow check valves are required. The fuel cell vent must exit out of the trunk area on 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".**
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"x1" x .065 steel tubing. Not less than two (2) lengthwise, and two (2) crosswise, 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 container has a bolt-on top, it must be bolted together with a minimum of 1/4" diameter bolts spaced a maximum of 4" apart. If the fuel cell container has a bolt in end panel, it must be fastened together with a minimum 10/32" diameter screws with nuts spaced a maximum of 4" apart. No sheet metal screws or pop rivets are to be used to secure to top or end panel of a fuel cell.
5. A protective bar, minimum 1 3/4" 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 frame rails and attached to the rear cross member. Two (2) support bars; one (1) located on each corner must angle upwards and be welded to the rear frame rails.
6. A reinforcement plate, of not less than 14 gauge (0.078) inch thick magnetic flat steel, must be installed behind the fuel cell container. The plate must extend the entire width and height of the fuel cell container. The plate must be welded in the spaces between the rear cross member and/or the cross bracing at the rear of the rear sub frame. It must be welded with a 1" weld, spaced a maximum of 4" apart.
7. **FUEL LINE:** If your fuel line runs through the Driver's compartment, then the outside of the fuel line **MUST** be painted **RED** or wrapped with **RED** duct tape. Take a **BLACK** marker and write on the outside clearly and in big letters, three (3) or more places: "**FUEL LINE**". Fuel line may be run under car but must be mounted away from exhaust and moving suspension.
8. No exotic and/or fuel additives allowed. Fuel will comply with ASTM D4814, Standard Specification for Automotive Spark Ignition Fuel. No electric fuel pumps, no fuel cooling devices, no NOS, no Oxygen bearing agents, no Nitro, no HRB-11.

## **(B) SEATS:**

Only approved, custom manufactured, aluminum seats are permitted, Minimum .090 thickness required. It is recommended to use a containment seat. Leg extensions on both sides also recommended. A padded headrest is mandatory. Seat must be mounted to the roll cage, not the floor pan. A minimum of four (4) Grade 8, 1/2" bolts, and flat washers must be used.

## **(C) BELTS:**

A quick release lap belt no less than 3" wide is required. Both ends of the lap belt and both ends of the shoulder harness must be fastened to the roll bar with Grade 8 bolts not less than 1/2" in diameter. The shoulder harness and lap belts must be bolted so that the ends of the belts move freely. Shoulder harness must be no less than 3" wide and must come from behind driver's seat max 3" below the drivers shoulders or less than 10 degree's. Where the harness crosses the roll cage, it must pass through a steel guide welded to the cage that will prevent the harness from sliding side to side. Shoulder harness inertia reels cannot be used. A center (crotch) or submarine belt must be mounted to the lower seat frame at the bottom. Where the belt passes through the seat edges, it must have a grommet installed, be rolled and/or padded to prevent cutting. All seat belts and shoulder harnesses must connect at the lap belt with an approved quick release buckle. Seat belts must be dated by the manufacturer and must not be used beyond five (5) years after the manufacture date. If a HANS device is being used, then the HANS style seat belts may be used.

## **(D) HELMETS:**

It will be mandatory for **ALL** Drivers to wear a helmet carrying a valid, orange SA2010 or newer, standard Snell sticker, or a sfi 31.1 rating at all times while on the racing surface. **NO** motorcycle helmets and **NO** "M" Snell sticker helmets. Helmets must accompany the car at time of all inspections. **It is strongly recommended that all Drivers record blood type and RH factor, plus any major medical allergies to adhesive tape label to outside back of helmet.**

## **(E) CLOTHING:**

Drivers must wear an approved Nomex or Proban driving suit at all times when the car is on the track. Driving suits must effectively cover entire body and meet a minimum sfi 3.2A/1 rating. It is strongly recommended that the Drivers wear Nomex underwear, headgear, socks, gloves and shoes made of fire resistant material.

## **(F) WINDOW NET:**

A nylon window screen is mandatory; The window screen must be a rib type, made from 1" wide nylon material with a maximum of 1-3/4" square opening between the ribs. The minimum window screen size shall be 22" wide by 16" high. It must release from top with seat belt type latches, and it must be fastened to the roll cage top bar and highest Drivers door bar on the cage. All window net mounts must be welded to the roll cage. **WINDOW NET:** Window net must be dated by the manufacturer, must meet SFI specifications, and must not be used beyond five (5) years after the manufacture date.

## **(G) FIRE EXTINGUISHER:**

It is mandatory to have a Dry charged 2-1/2 lb. minimum, with quick release fire extinguisher. This fire extinguisher must be securely mounted to the frame and/or roll cage structure and must not use hose clamps, worm drive clamps, duct tape, or cable ties. It may NOT be taped to the roll cage. Must be fully charged. The gauge must be easily visible for the Technical Official to read. Recommended on-board fire extinguisher system. It is mandatory that all entrants have in their pits, at all times, a fully charged 10 lb. Class B fire extinguisher, showing current inspection certificate and a visible operating pressure gauge.

## **7. MISCELLANEOUS RULES:**

(A) An ON/OFF ignition switch will be installed within reach of the driver when belted in the car. The on/off switch will be clearly marked. A MASTER on/off switch must be located on the roll bar directly behind the driver and accessible from the outside and must kill power to the entire car.

(B) Car Maximum sound level is 95 decibels at 100 Feet. Will be strictly enforced.

(C) Ballast weight must be securely attached to mainframe or major cross member structure with a minimum of two (2) 1/2" bolts. It is strongly recommended that majority of the ballast weight be contained inside the frame rails. Must be painted white and display car number. Must be in block form of no less than five (5) lbs. No ballast/weight shifting devices allowed. No "outrigger type" ballast weight brackets. No dumbbell or weight lifting weights allowed.

(D) Battery may be relocated to inside of the car, but not in the trunk area. Battery must be isolated from fuel lines, must be enclosed in a protective container, and must be securely fastened to the floorboard. One battery permitted per car.

(E) No electric fuel pumps allowed.

(F) No onboard computer, or record keeping devices permitted.

(G) No traction control devices of any kind allowed.

## **8. Weights and Percentages:**

Base weight for all cars 3000lbs 56% left.

### **Deductions:**

-25 lbs cast iron single piston caliper

-100 lbs 604 crate

**Additions:**

+25lbs for front coil overs.

**Percentages:**

57 percent left for all perimeter chass

56 percent left side for all straight reil chass