

# United Late Model Association

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## 2010 Rules

As of February 15, 2010

Association officials reserve the right to change, delete, or amend rules in the interest of competition.

All participating drivers agree to abide by the ULMA rules set forth and acknowledge that their car is subject to inspection any time by a ULMA Official(s) and or Track Official(s).

**Bold** text added for rules clarification and to reflect changes since previous edition.

**SAFETY:** Helmets are required and must meet Snell Standards: Snell SA95, SA2000, or SA2005 full coverage and must be worn at all times. Helmet must accompany vehicle at time of inspection. Flame retardant neck braces are mandatory. Flame retardant gloves and shoes are mandatory. Fire suits of a flame retardant nature must be worn by all competitors. Two-piece fire suits allowed. **NO KART SUITS AND NO FLAME RETARDANT COVERALLS.** Additional safety equipment is optional. Fire extinguisher is required and must be mounted within driver reach. All drivers must comply with general track safety rules.

**GENERAL:** No radio communication or sound equipment allowed unless track authorized. **All cars must have a kill switch located at window height behind the driver's seat. This switch must disconnect the positive line from the battery. All cars must have a tow hook on the front. Tow hook needs to be attached to chassis or bumper and readily accessible to tow vehicle. Tow hook must hold weight of the car when secured to haul away. Rear bumpers must be tethered to the chassis with a minimum of (2) 1/8" diameter aircraft quality cables.**

**SEAT & BELTS:** Aluminum seat is **mandatory** by ULMA. Seat belts and shoulder harness must be at least (3) three inches wide and no older than (3) three years from manufacturer date.

**WINDOW NET:** All cars must be equipped with approved window net. Window net must be up and secured at all times while car is on track.

**BODIES:** See separate Diagram for proper body and spoiler measurements.

ALUMINUM BODIES ONLY (carbon fiber roofs are acceptable). No dished out roofs. No wings attached to roof or side post. No built in fiberglass air dams. Must be stock appearing. No wings of any kind allowed in cockpit. No rear wing under trunk. No side fins of any kind the entire length of car. Interior of car may be dropped. If a mud screen is used, there must be at least three safety bars installed in front of driver's seat and the screen must be securely attached. For scoring purposes, all car numbers must be visible on car in a readable contrasting color from body. Numbers will appear on both doors and on the roof and be at least (18) eighteen inches high and (4) four inches wide. Car must also have legible numbers at least (5) inches high on front and rear of car. All cars must have secure pick-up loops.

**SPOILERS:** Maximum spoiler width is seventy-two (72) inches; maximum height of spoiler is eight (8) inches. Spoilers to be made of transparent or aluminum material.

**ENGINES: There are three engine options.**

**Engine Option 1: ULMA Engine:** "Wet Sump Systems Only," NO dry-sump oiling systems. Oil pump must be stock type pump and in stock location. No external oil pumps allowed. No external oil tanks allowed. Oil accumulator okay but must have only one line. Engine oil cooler okay but must have lines running to the block only. No oil lines in or out of the oil pan. ALL blocks must be steel blocks. ALL heads must be steel heads, NO Aluminum Heads Allowed. ALL heads must be stock valve angle (23 degree for Chevrolet), (20 degree for Ford), (18 degree for Dodge). One half (1/2) degree valve angle tolerance (for gauge accuracy only), angle milling not allowed. Valve angle can and will be checked on any of the 16 valves, any one valve angle found not within tolerance will result in disqualification! Any car checking outside the tolerance will be disqualified. Any car found with this rule infraction must go thru a pre-tech inspection before racing another event. Roller cams allowed.

**Engine Option 2: Crate Motors** (Only the 602 and 604 CRATE motors are permitted). Engines are to remain sealed. The original factory seals must remain unaltered. Modifications of any type and/or broken factory seals will not be permitted. NO upgrades are allowed to any engine that may produce power via "performance enhancing methods." CRATE cars are subject to same engine rules as listed in Engine Option 1 above plus crate engine rules below: 602 CRATE motor compression ratio: 9.1:1 (no tolerance) subject to whistle and compression pump. 604 CRATE motor compression ratio: 9.6:1 (no tolerance) subject to whistle and compression pump. All engines, parts, and components must be as from factory. This includes, but is not limited to, harmonic balancers, valve springs, push rods, rocker arms, and after market valve covers. Any changes will result in disqualification and no points awarded. **Gas carburetor only**, 750 CFM Carb or smaller. Aerosol carburetors are not legal. Must have 1<sup>11/16th</sup> base plate maximum. No tolerance (measured with go/no-go gauge). Mechanical fuel pump only. Billet base plates may be used (.780 maximum). One gasket per surface, .070 maximum. 604 1" carb spacer maximum, no tolerance. 602 2" carb spacer maximum, no tolerance. Spacer must not protrude into carb or intake at any point.

**Crate motor engine inspection and/or exchange: ULMA and/or Track Officials reserve the right to exchange or impound any engine at any time for competitive analysis and for inspection. ULMA will offer an exchange engine to replace the engine in question. Any driver who declines or refuses the exchange or impound will be disqualified and banned from any ULMA race, event, and track for the rest of the current season.**

**Engine Option 3: ULMA Spec Engine: (Show Me / I.M.C.A. spec motors): Any four barrel carburetor allowed. 1" carburetor spacer allowed. Steel blocks only, maximum 361 c.i. (GM), 362 c.i. (Ford), 364 c.i. (Chrysler). Minimum four-inch bore. Minimum stroke: GM- 3.48 inch, Ford-3.40 inch, Chrysler-3.313-inch. Crankshafts must have minimum main journal sizes of 2.410 GM; 2.210 Ford; or 2.460 Chrysler. Maximum compression: 10.5 to 1, checked at any time with whistler, no tolerance. Brodix/I.M.C.A. spec cylinder heads only. No grinding polishing or altering of any kind. No use of substance that may change or alter shape or size of ports, runners, or combustion chambers. Maximum valve sizes are 2.08 intake and 1.600 exhaust. Valve seats and guides are to remain as manufactured and in as-cast positions. Minimum combustion chamber size to be 62 cc volume. Valve angle to remain as manufactured. Approved cylinder heads as follows: General Motors-(i.e. small block Chevrolet)-Brodix #46221; Ford Motor Company-(i.e. small block Windsor) Brodix-#46223; Chrysler Corporation-Mopar-Brodix #46222. No modification to intake manifolds; must be used as produced by manufacturer. Approved intakes as follows: General Motors-Brodix #HV100946, maximum .100-inch**

**thickness gasket allowed. Ford Motor Company-Edelbrock #2981 or 2980 (351) or #2921 (302)-Moroso spacer part # 64940 allowed. Maximum .100-inch thickness gaskets. No carburetor spacer on 302 cubic inch, 8.700 deck block Chrysler Corporation-Edelbrock #2915- Moroso spacer part #64940 allowed Maximum .100 inch thickness gaskets. Camshafts may be of roller, flat tappet, or mushroom design. No roller cam bearings. Crankshafts and connecting rods must be steel. One-inch inspection hole required in oil pan. No obstructions to crank and rods, if obstruction is present oil pan must be removed for inspection. The combustion chamber of the head can be smoothed up. No adding material or welding; rest of the head must remain as cast. (New heads are made this way).**

**ULMA Spec motor engine inspection: ULMA and/or Track Officials reserve the right to impound any engine at any time for competitive analysis and for inspection. Any driver who declines or refuses impound will be disqualified and banned from any ULMA race, event, and track for the rest of the current season. ULMA and/or Track Officials reserve the right to use whatever means necessary to ensure engines are legal.**

**Wet sump oiling system as outlined in Engine Option 1 will be mandatory for the 2011 season and beyond.**

**All engine options** may run one 2-barrel or one 4-barrel carburetor. ALL cars must run track-approved muffler if track calls for one. No ZOOMIES. Engine setback rule is **27" Max.** Measuring from center of left upper ball joint to the face of the motor plate (engine side). CRATE/SPEC cars will follow all ULMA rules as written except where specifically described.

**CHASSIS SUSPENSION:** Shocks may be steel or aluminum. No "canister shocks" allowed. Maximum of one shock per wheel only is allowed with the exception of one "dummy" shock allowed on the left rear only. Cars must have a fabricated front stub. No full-frame chassis. Rack and Pinion steering is allowed. Coilovers are allowed. Fifth arm or torque link allowed. Rear suspension is optional per car. Roll cage minimum diameter is one and a half (1 ½) inches outside dimension (OD). Steel tubing must not be less than .083 thick. Car must have minimum of three (3) bars (ULMA recommends at least 4) of the same material mounted horizontally at the driver's door. All welds must be complete circumferences of tubing. Square tubing is not allowed in driver compartment (cockpit) area.

#### **WEIGHT:**

**ULMA Motor (as described in Engine Option 1):** Car and driver must weigh **2,350** lbs after completion of race. NO tolerance.

CRATE Motor 604: Car and driver must weigh **2,350** lbs after completion of race, no tolerance.

CRATE Motor 602: Car and driver must weigh **2,200** lbs after completion of race, no tolerance.

**ULMA Spec Motor: (Show Me / I.M.C.A. spec Motor):** Car and driver must weigh **2,350** lbs after completion of race, no tolerance. Total of **50** lbs must be added **12"** on center in front of the engine plate; **25** lbs on each upper frame tube. Weight not to exceed **12"** in total length. (Engine option 3).

**ALL** cars will be issued decals to identify motor **and weight**. Decals must be displayed on each side of the car on front lower corner of window side panel. Motor must match decal on car. If the decal and motor do not match, a disqualification will be rendered. No tolerance.

**WHEELBASE:** Minimum of 103 inches, measured from the center of front hub to the center of rear hub.

**WHEELS:** Wheels may be steel or aluminum. Maximum wheel width is fourteen (14) inches. Beadlocks are allowed. Foam wheel plugs are allowed. Wheel disc (Mud Plugs) are allowed **and must be bolted behind bead lock.**

**TIRES: Hoosier D-55 WRS-2 Spec Tire, or Hoosier D-55 WRS.** Grooving and siping of tires is allowed. No softening agents or **chemical agents** may be added to tires at any time. **All tires must durometer a minimum of 55, no tolerance allowed. ULMA Official(s) and or Track Tech Official(s) can confiscate any tire at any track, on any night for evaluation. If tire in question is found legal it will be returned.**

**DRIVESHAFT:** All drive shafts must be steel or **aluminum** and must be painted white and have car number painted or affixed on them. All cars must be equipped with a 360-degree drive shaft loop installed at the front of the shaft in case of breakage. If using a Bert Ball Spline Transmission, an additional drive shaft loop at rear of drive shaft or an installed deflection bar at rear of cockpit is highly recommended, but optional.

**BATTERIES:** Heavy-duty and dry-cell batteries may be used. Batteries are NOT authorized in the driver compartment area.

**FUEL:** Gasoline or alcohol may be used. No exotic additives such as nitro and naphtha-type products are allowed. No oxygen-bearing additives are allowed.

**FUEL TANKS:** Fuel cells are mandatory. Maximum 32-gallon fuel cell may be used. Fuel cell must be encased in steel can. All fuel cells must be secured by at least two (2) straps. The straps will be a minimum of (2) two inches wide and (1/8) one-eighth inch thick. Fuel cell flapper valve (rollover valve) is mandatory. Fuel vent check-ball valve is mandatory

**TRANSMISSION:** Bert and Brinn and Falcon-type transmissions are legal. Transmission must have at least 2 forward and 1 reverse working gears. Explosion-proof bellhousing required if running external clutch. Safety shield is mandatory for automatics. Car must be able to move forward and backwards on its own from a complete stop when ordered to do so.

**REAR END:** Floater or quick change rear ends are legal. No type of lockers and bias-sensing devices allowed.

**IGNITION:** HEI ignition and MSD ignition boxes are allowed, **only one (1) ignition box allowed.** MSD ignition box and remote rev limiter control must be located out of driver's reach while in the car. Only one (1) electronic firing module is permitted. Only one (1) ignition coil is permitted. Magnetos are not allowed. Crank-censored ignitions are not allowed.

**TRACTION CONTROL:** No type of Traction Control devices are allowed, no tolerance. This includes any type of electronic or mechanical devices. Any electronic or mechanical device that senses wheel spin or RPM spike will be considered traction control. Any driver found with traction control will be banned from ULMA.

DECK MUST BE FLAT 32" FORWARD FROM SPOILER RUNNING PARALLEL TO GROUND. 1" TOLERANCE GIVEN.

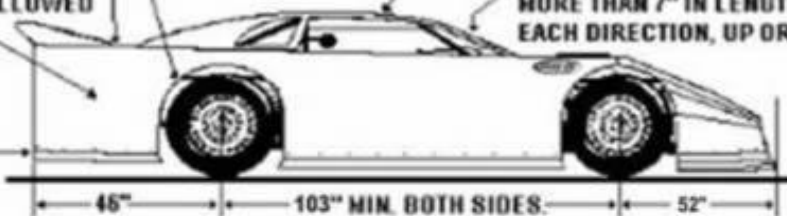
2" MINIMUM CLEARANCE AROUND ALL WHEELS. ZERO TOLERANCE!

ROOF MUST BE CURVED. NO WEDGE OR FLAT ROOFS WILL BE ALLOWED.

NO "DISHING" WILL BE ALLOWED ON QUARTER PANELS. MUST REMAIN FLAT.

WINDOY SUPPORTS MAY BE NO MORE THAN 7" IN LENGTH IN EACH DIRECTION, UP OR BACK.

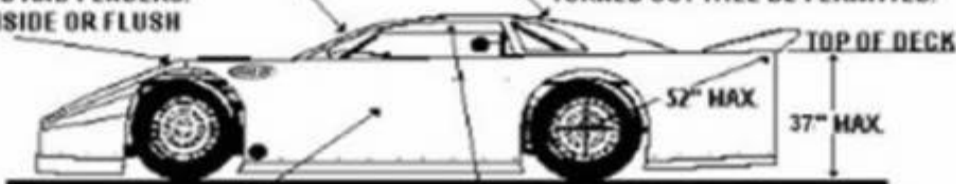
SKIRT AT REAR MUST BE CUT FLUSH WITH REAR QUARTER PANEL.



NOSE FLAPS MAY NOT FLARE FOUR OR UP. TOP SHOULD RUN PARALLEL TO HOOD AND FENDERS. SIDES MUST BE INSIDE OR FLUSH WITH THE TIRE.

ROOF POSTS 4" WIDE MAX.

ROOF SUPPORTS MUST CONNECT TO THE DECK AS SHOWN. NO LIPS TURNED OUT WILL BE PERMITTED.



DOOR MATERIAL INCLUDING SKIRT, 32" MAX, TOP TO BOTTOM, BOTH SIDES.

PLASTIC GLARE SHIELDS 4" WIDE MAXIMUM.

SPOILERS MUST BE MADE OF A TRANSPARENT MATERIAL, AND MAY HAVE A MAXIMUM SIZE OF 8" TALL BY 72" WIDE.

76" MAX. 72" MAX.

IF ALUMINUM ANGLE IS USED TO BRACE TOP OF SPOILER, IT MUST BE TURNED DOWN, NOT ADDING TO THE HEIGHT OF THE SPOILER IN ANY WAY.

TOP OF DOORS

36" MAX.

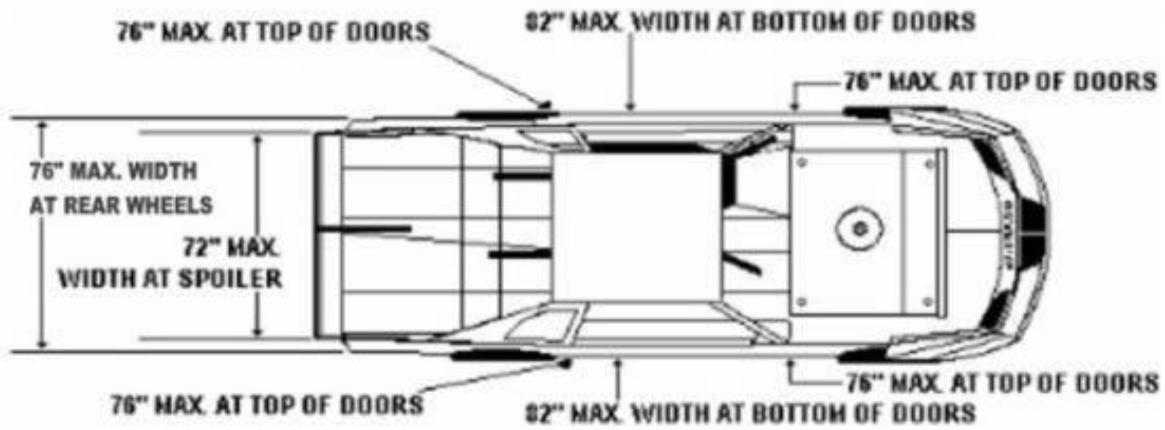
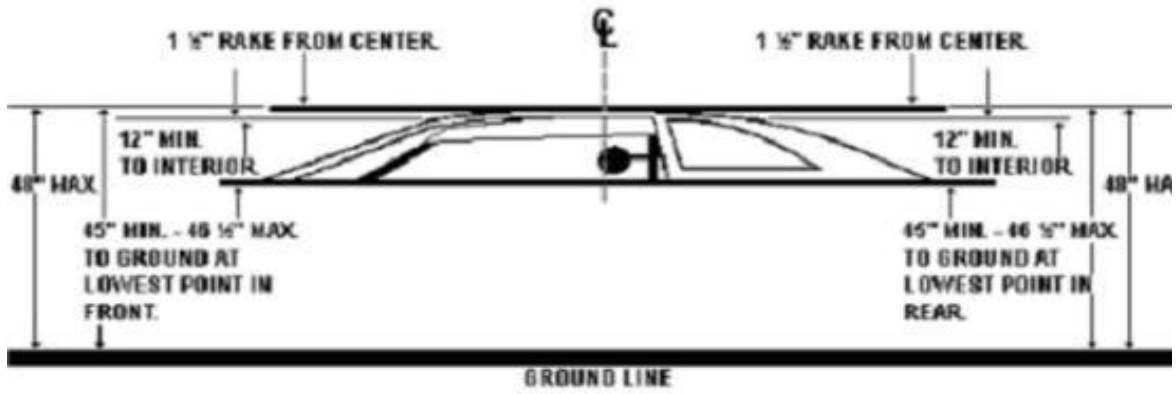
HIGHEST POINT (CENTER) REFER TO ROOF SPECS.

48" MAX.

A THIRD SPOILER BRACE MAY BE USED AND WILL MATCH OUTER SPOILER SIDE DIMENSIONS.

76" MAX.

NO "WINGS" OR "TUNNELS" OF ANY KIND ALLOWED UNDERNEATH THE BODY OR CHASSIS.



3 Spoiler Supports ( Max.) May Be Used

