

# **Mini Stock Rules**

## **2010**

### **PCMP**

**Objective:** An affordable entry class permitting young, adventurous kids to test their courage and develop their skills in stock car racing. This is the only class allowing (14) year old and older drivers. All drivers must be (14) on May 1<sup>st</sup> of the current year.

**Appearance:** Painted and lettered the same as all race cars. Numbers must be 14" high on the right & left sides and the right side on the top in contrasting colors. Also 4" numbers on the front and rear of car. No more than (2) digits.

**Safety Equipment:** Helmets; Snell rated SA 2000, SA 2005 or SFI 31.1/2005 or newer helmets required. Roll bar padding in driver compartment required. SFI approved full fire suit and gloves required. Driver side window net required minimum 16" x 20" ribbon or mesh style, must be mounted so latch is at top of window. Kill switch required within easy reach of driver and must be clearly marked "OFF" and "ON". Seat belt & shoulder harness must be racing type. Lap belt must be 3", shoulder harness 2 inch. All belts must be nylon webbing. The complete harness assembly will have one racing type quick release mechanism. Seat belts must be bolted and/or harness chained to roll cage to allow a swiveling action and no shear action. Shoulder harness must be anchored below shoulder height. A crotch strap is recommended.

**Chassis:** Any front engine, rear wheel drive, compact car of uni-body construction. No front wheel drive, all wheel drive or rear engine cars allowed. Wheelbase must be no less than 98".

**Body:** Full body cars must retain stock front fenders and hood. Fenders and body panels may be trimmed for tire clearance front fenders wells may be removed. Rear wheel wells must remain intact to protect driver from debris that may be thrown into the driver compartment from the rear tires. Front firewall on full bodied cars must remain intact in stock location. Hood scoops and spoilers will be permitted. No t-tops or sunroofs. Any holes in floor, roof or firewall must be covered with (20) gauge sheet metal and must be securely welded or riveted. All glass, plastic or any other flammable materials must be removed. All door handles, antennas and trim must be removed. Aftermarket front nose & tail pieces will be allowed.

**Battery:** Securely fastened down and cover with a plastic or metal cover.

**Roll Cage:** Must have a minimum of a 6 point roll cage. It must attach to the floor pan or frame in at least six points. Full bodied cars must attach to the floor pan with a 6"x6"x1/4" plate and securely welded or bolted to the floor. Roll cage must be constructed with a minimum of 1 1/2" O.D. tubing and a minimum wall thickness of .090 inch for main cage. Consisting of a configuration of front, rear and top hoops connected by tubing on sides or side hoops. Must have x-brace in headache rack (x-brace that attaches from top of headache rack to frame rails behind rear axle.) All bars forward of cage must be lower than the hood. Minimum three door bars on driver side and two door bars on passenger side. Driver's head must not protrude outside the cage with a helmet on.

**Driver compartment:** A minimum of 4 window bars in front of driver (bars must be 5/6" in diameter and spaced no more than 4" apart.) Aluminum high back racing seats only and must be bolted in using .0375" bolts next to left side frame rail and in front of the rear tires. The seat bottom cannot extend below the frame rail. Driver must be sealed off from the track, driveline, engine and fuel cell.

**Front suspension:** OEM type front suspension required. You must have (1) spring and shock per wheel. No cutting of springs is allowed. Aftermarket racing springs and shocks are acceptable. All shocks and springs must be mounted in stock location.

**Rear suspension:** OEM type rear suspension required. You must have (1) spring & shock per wheel. Aftermarket springs and shocks are allowed, leaf springs may have longer shackles. All shocks and springs must be mounted in stock location.

**Shocks:** One steel, non adjustable, unaltered shock per wheel. Bumpers and stops are not allowed. No threaded body, coil over, air or remote reservoir shocks. No Schrader or bladder type shocks allowed. No helper springs on shocks.

**Steering:** You must use a rack and pinion, or gearbox type. Quick release steering wheels are allowed.

**Rear differential:** Any steel approved OEM passenger car or truck rear end (housing and carrier) allowed. All components must be steel, except lowering blocks. Full steel spool, steel mini spool, or welded rear ends only. Steel axles only, no quick change devices, or cambered rear ends. One piece drive flanges only, no torque dividing differentials, no scalloped ring gears.

**Brakes:** Any disc or drum brakes or combination. You must have working brakes on all four wheels. No adjustable brake proportioning devices allowed.

**Exhaust:** Stock exhaust manifolds or headers only. Exhaust header/pipe must extend at least behind the transmission cross member.

**Fuel system:** Mechanical or electrical fuel pumps allowed, if using an electric fuel pump you must have a positive shut off controlled by oil pressure. Racing fuel cells required. It must be in a (20) gauge sheet metal container. Cell must be securely mounted behind rear axle and must be 10" off the ground. Cell mounts must be steel securely welded to frame or bolted through the floor pan. Fuel cell vents including cap vent must have check valves. If fuel cells do not have an aircraft style positive seal filler cap/neck system a flapper, spring or ball type filler rollover valve is required. Air cleaner top/stud cannot direct air into carburetor. No adjustable throttle bore carburetor spacers allowed. Metal firewall sealed to separate truck area from driver.

**Fuel:** Pump gas only, no alcohol.

**Weight:** A minimum weight of 2200lbs with driver after race, weight cannot be added after the race to compensate for parts lost on race track. No weights or loose objects are allowed inside the driver compartment above the interior deck or on the outside of body panels. All weights must be securely attached to the frame, roll cage or floor pan and must be painted white with the car number on it.

**Transmission/driveshaft:** May be manual or automatic. You must have all forward gears intact & working. Manual transmissions must have a working clutch. No mini clutches or lightened flywheels allowed. A minimum of a 2" diameter driveshaft must be painted white and have a 360 degree loop and must be constructed with a minimum 0.125 x 2 inch strap and located 6" behind front u-joint.

**Engine compartment:** Radiator must be located in front of the engine. Cooling system may be modified, aluminum radiators are permitted. The radiator may be attached to the front engine loop. Engine loop may not extend beyond front frame rails.

**Engine specification:** A (4) cylinder, carbureted, naturally aspirated engine with a single camshaft. A

maximum of (2500) cc, no engine stroke changes allowed. Engine may be bored. Flat top or dish pistons only. Head may be milled,(3) angle valve jobs allowed. No port and polish, hyd. lifters only. Carburetor may be a 500 cfm maximum. No dry sump systems allowed. An adjustable cam gear is allowed. No adjustable lifters, must pull a 12" vacuum.

**Tires and wheels:** Tires; only poplar DOT tires are allowed. No racing or questionable racing tires. No restrictions on the tire width or size. No mud tires and no grooving. Wheels; racing wheels allowed, must be steel/no aluminum or alloy wheels allowed.

**NOTICE:** If there is an item not covered in these rules leave it stock or you must receive approval from the tech inspector and/or the Competition Committee. Additional information call the track promoter at (719)-691-5312. OEM means original equipment manufactured with no additional modifications done by anyone!!!

**Protest:** None