

North Central Arkansas Speedway

2024 Pure Stock Rules

General Rules of Conduct, Track Technical Inspections, Transponders & Raceceivers: It is the responsibility of each Pure Stock competitor to read, understand and abide by the host Speedway General Track Rules. Pure Stock drivers are to act in a professional and courteous manner at all times. Any unsportsmanlike conduct by a participant shall be grounds for disqualification and/or punitive action.

Cage: 70" from rear of engine block to seat belt holes in top of seat.

Rear Hoop: May be a maximum of 12" from bottom of opera window. A minimum of 1 crossbar in top halo.

Body: May use a later model body, must use stock metric firewall, floor pan and rocker panels. A pillars must attach to the factory A pillars. Body must roll in at the bottom towards the factory rocker panel.

Brakes: May run single aftermarket brake pedal. It cannot be set back no more than 25" from the center of upper ball joint. Dual master cylinders are allowed with adjustment out of reach from the driver.

Communications: All competitors must have RACECEIVER 1600 in car radio to compete. NO EXCEPTIONS!!!

Bodies: Wheelbase must be a minimum of 108", except 1983 or newer. T-Birds or Chrysler products may be 105". Any year American made production cars to remain stock. Full frame cars may remove inner fender wells. Unibodies may not. Radiator may have protection bar. Steering column may be stock or fabricated with removable steering wheel. Car may be stripped. Stock firewall from front end to rear with all holes patched. No mirrors. Must have safety bars or screen over driver side windshield. Hood, fenders and bumpers are required. Engine hoop and snout bars are allowed. Aluminum bodies are allowed but must have a stock appearance. The Interior may be closed in and have an access hole in both the front and the rear. Maximum rear spoiler height is 3.5"

Cage: Must have at least 3 left side and 2 right side door bars, 4 upright bars, cross brace behind driver, middle bar in top, down bars off rear of cage going through rear firewall into trunk area is ok. Must not connect to rear bumper an. Tubing must be at least 1.5" in diameter with a minimum thickness of .095.

Engine: Stock motor, stock location, stock motor mounts in stock location. Must be same make as car. Solid welded motor mounts are ok.

Engine Option A: Maximum compression is 9:1. GM 350 - .060 max. Ford Windsor - .060 max. Chrysler 360 - .060 max. Harmonic balancer on GM has an 8" minimum. Smaller engines are allowed. NO STROKER ENGINES. Stock balancers only. No modifications or lightening. Must have minimum weight of 10lbs, 8oz.

Heads: Approved OEM GM heads are: 147079267, 3986336, 3986339, 3986339X, 3986388, 3932441, 376445, 392454, 3876487, 3973487X, 3973493, 3951598, 468642, 330862, 333882, 3998920, 3998991, 3998993, 3998997, 3970126. Max intake valve 1.94. Max exhaust valve 1.50. NO PERFORMANCE HEADS, NO 292 CASTINGS, NO LT1, NO BOWTIE, NO CENTER BOLT VALVE COVER, NO VORTEC, NO ANGLE PLUG, NO PORTING OR POLISHING, NO SCREW IN STUDS, NO GUIDE PLATES. 305 heads on 305 engine only. No beehive or high performance valve springs.

Camshaft: Hydraulic camshaft only. Must pull a minimum of 15" of vacuum. NO TOLERANCE. 430 maximum lift at valve. Stock 1.5 ratio rockers only. NO TOLERANCE. No roller cams, no roller tip or roller rockers are allowed. Stock type lifters. No high performance lifters. Lifters must have stock wire clip.

Crankshaft and Rods: Stock appearing. No lightweight cranks. No H-Beam rods. Press fit wrist pins only. 5.7 rods only on GM. Aftermarket Eagle, Scat or stock type are allowed. 3.48" max stroke. No lightening of any kind on crankshaft.

Intake Manifold: Stock cast iron ONLY!! No aluminum, no bowtie, Ford D5 or newer, Chrysler no high rise. Intake must be unaltered. No marine intakes. No Brzezinski intakes.

Carburetor: Must be Holley 4412 – 2 barrel only. No modifications except for jets, choke and choke tower may be removed. No electric fuel pumps. Manual stock type fuel pumps only. Carb spacer must remain same front to back. No taper spacers allowed. 1" max.

Exhaust: Stock cast iron exhaust manifolds. Ram horns are allowed. Headers are allowed. Headers must have primaries no larger than 1 5/8" with a collector no larger than 3". No rail headers. No fender exit headers. No crossover headers. Headers must be routed under car with pipe extended past the driver.

Pistons: Flat top 4 valve relief only. Hypereutectic 4 valve relief pistons are allowed. No JE, Ross, etc. NO HIGH PERFORMANCE.

Cooling System: Aluminum radiators are allowed. Aluminum pulleys are allowed, aluminum water pumps are allowed.

Oil Pan: Racing style allowed. Must have 1" inspection hole above the oil line on the drivers side. Failure to do so will result in removal of oil pan. No aluminum oil pans allowed.

Transmission Option A: All forward and reverse gears must be operational, plus a neutral position. With the engine running and car in still position, driver must be able to engage car in gear and move forward, then backward. Only OEM production transmissions are allowed. No "in and out" boxes or quick-change devices are allowed. Functioning shift levers must be in OEM location. One steel or aluminum OEM style/size flywheel allowed. Must be bolted directly to the end of the crankshaft. 10.4" minimum clutch. Stock appearing pressure plate must weigh a minimum of 15lbs. Pressure plate will be weighed by itself. Stock spring type disc only. No solid hub. Flywheel must be minimum 15lbs and will be weighed by itself. Must be unaltered 3 or 4 speed in OEM production case. No five or more speed transmissions are allowed. Must have working clutch inside of an explosionproof steel bell housing with one hole for throw-out bearing or hose. Bell housing must be 270 degrees around top of clutch and flywheel area. No mini clutches allowed. No racing clutches allowed. Components must rotate consistently with engine RPM while the car is in any gear. NO BERT, BRINN OR FALCON TYPE TRANSMISSIONS ALLOWED.

Transmission Option B: Stock automatic transmission with full size working torque converter. Power Glides are allowed. No 4 or higher speed automatic transmissions allowed. No TCI, CNR, etc., type converters allowed. Mandatory scatter shield constructed of a minimum of .125 x 3" steel, 270 degrees around flex plate. Only external lines allowed are for transmission cooler.

Rear End: Stock rear ends may be locked. Any gear ratio allowed. Rear trailing arms must be stock. No shortening, lengthening, or modifications are allowed to trailing arms. Pinion angle must remain stock. Leaf spring cars must have plates welded to axel tubes to prevent pinion angle from moving. May use Ford 9" or stock rear ends. Trailing arms must remain stock for the frame that is being used and be in stock location on chassis. GM to GM. Ford to Ford. Etc. Floater rear ends are allowed.

Suspension: All components must be stock OEM for make and model. No moving brackets or shortening lengths. OEM bushings only. NO WEIGHT JACKS OR SPRING SPACERS.

Shocks: Stock mount only. Stock appearing racing shocks are allowed. No heim or adjustable. No take apart shocks allowed. Mono tube only.

Springs: Racing springs are allowed.

Front: No spring spacers. Springs must be the same height side to side. Aftermarket A arms are allowed. No tubular.

Rear: No spring spacers. Springs must be the same height side to side. Max length on rear springs is 14". No Chrysler or composite on Camaros.

Rear Suspension: No aluminum parts. No Schrader valves or adjustable shocks. No gas reservoir shocks. Shocks must be all steel. Cannot move spring forward, back, or side to side. Must be in stock location. Leaf spring cars can run lowering blocks but no adjustable lowering blocks. No spring sliders allowed. No split leaf springs. Must have same number of leafs in front of axle and behind. No slapper type traction devices. No roller bearings. No heim ends. Must be stock type bushings. (If it came with a rubber bushing with a steel insert, it must remain that way) Aftermarket stock replacement is ok. No floating bird cages, coil eliminators or any other traction devices are allowed!!! No weight jack bolts. Rear shocks must be in stock location.(If they came in front of the rear end, they must remain there) Rear trailing arms no more than 2-7/8" from the bottom of the housing to the center of the bolt. Same on both sides. Upper control arms no more than 2.5" from the housing to the center of the bolt. Same on both sides. No adjustment allowed on the rear end or chassis. Must be stock location on chassis. Torque arm cars must use stock type arm. Aftermarket replacements are allowed but must match OEM measurements, must be non-adjustable, and must use stock bushing. Front mount may be fabricated, but cannot be adjustable.

Weight: 3400lbs total weight after race, with driver in car.

Ignition: MUST BE STOCK!!! HEI for GM. Motorcraft for Ford. Chrysler for Chrysler. NO DUI, MSD, ETC.... NO AFTERMARKET CAPS OR COILS.

Fuel Tank: Must be fuel cell. Must be mounted in trunk. 22 gallon max. Must have 2 straps in both directions. Must have steel outer can. New style fuel cell or flapper valve updated lid. (Speedway #458-315)

Fuel: PUMP GAS ONLY!!! NO E85!!! NO OCTANE BOOSTERS!!! NO ADDITIVES!!!! 93 OCTANE MAX!!!

Tires: Max 8" tread. Will be checked with track gauge. 8" asphalt takeoffs are allowed. .50 minimum compound. Modified takeoffs are allowed.

Wheels: 8" max width. Must have 1" steel lug nuts. Optional bead lock on right rear only.

Driveshaft: Must be painted white. No aluminum driveshafts allowed. No carbon fiber driveshafts allowed.

Brakes: Must have 4 wheel working brakes. No shutoff valves. Aftermarket pedals permitted. Brake pedal must be in stock location. 4 wheel disc brakes are allowed. NO ADJUSTER WITHIN REACH OF DRIVER.

Steering: NO QUICK STEER ALLOWED!! NO AFTERMARKET STEERING BOXES ALLOWED!!

Safety: FIRE EXTINGUISHER REQUIRED!! IT MUST BE WITHIN REACH OF DRIVER. Drivers must wear full racing suit, gloves, racing shoes, and a neck brace. Helmet must be Snell rated SA 2010 or SA 2015. Belts must be a minimum of 3" and a maximum of 3 years old. NO EXPIRED BELTS!!! Window nets are required.