



PRO NITROUS MOTORCYCLE



Pro Nitrous Motorcycle

Pro Nitrous Motorcycle is for two-wheeled motorcycle chassis design with nitrous oxide being the only power adder combination in the class, meeting the specific rules of the category as listed below. Pro Nitrous Motorcycle (PNM) is contested on a .400 pro tree and is qualified based off of elapsed time, from quickest to slowest. 16-car qualified field, with a professional pairing ladder.

DESIGNATION/DECALS

All entries are required to have car number and class designation (PNM) on the vehicle. Number must be at least three inches high and located on both sides of the vehicle or wheelie bar panels, where visible. PDRA mandates the class sponsor decals and PDRA decals on all entries, in all classes. If you choose to apply to our contingency program, those decals are required as well and available at the PDRA registration trailer. The sponsor and PDRA decals must be on the vehicle at the time of technical inspection and will stay on the car for the entirety of the event. Contingency stickers also must be on the vehicle at the time of technical inspection and will be viewed before the final round of eliminations for verification by a PDRA official.

All rules are subject to change at any time given the sole discretion of the PDRA Technical Services Department.

MINIMUM WEIGHT REQUIREMENTS ALL WEIGHTS INCLUDE RIDER AT CONCLUSION OF RUN

- PNM, base weight – 625 lbs.
 - PNM, any late model Hayabusa or ZX-14 powered entry – 595 lbs.
 - PNM entries with 50 inches or less from centerline of crankshaft to centerline of rear wheel, must be stock stroke – 595 lbs.
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REQUIREMENTS & SPECIFICATIONS ENGINE: 1

CARBURETORS, THROTTLE BODIES

Carburetor restraint / backfire strap is required.

ENGINE

Maximum displacement is 1850cc for inline 4-cylinders, 2640cc maximum for V-Twins.

ENGINE CONTAINMENT SYSTEM

PDRA-accepted engine containment system required.

EXHAUST

All removable multi-piece exhaust collectors/stacks must be securely fastened with either an PDRA/NHRA-accepted header tether, a minimum ½-inch (half-inch) stitch weld located on each primary tube or be permanently attached to the vehicle body or frame with positive fasteners (i.e., exhaust hangers, support brackets, bolts/nuts, etc.) such that they require tools for removal.

FUEL

Racing gasoline permitted. Nitromethane is strictly prohibited.

FUEL LINES

Must use AN fitting or be fastened using metal clamp or tie wrap.

INDUCTION

Mechanical fuel injection, electronic fuel injection or carburetors permitted.

OIL CATCH CAN

Mandatory.

REQUIREMENTS & SPECIFICATIONS DRIVETRAIN: 2

CHAIN GUARD

Must cover entire length and width of drive chain. Extended chain guard is recommended.

TRANSMISSION

Auto shifters are allowed.

REQUIREMENTS & SPECIFICATIONS BRAKES & SUSPENSION: 3

BRAKES

Front single 10-inch rotor or dual 8-inch rotors. Rear single 10-inch rotor. Must be fully operational when applied.

WHEELIE BARS

Permitted. Non-metallic wheels required.

REQUIREMENTS & SPECIFICATIONS FRAME: 4

FRAME

All frame components except bracing and brackets should be constructed using a minimum of 1.00-inch x .058-inch 4130 chrome moly tubing unless the design has been submitted to the PDRA Technical Services Department for approval, prior to construction. This includes both upper and lower frame rails back to the axle block as well as the box between the engine and the rear tire.

GROUND CLEARANCE

Minimum of 2-inch ground clearance with rider seated on the bike and no more than 10-pounds of rear tire pressure.

STEERING DAMPER

Mandatory.

WHEELBASE

Maximum wheelbase of 90-inches, minimum wheelbase of 50-inches.

REQUIREMENTS & SPECIFICATIONS TIRES & WHEELS: 5

TIRES

Maximum tire width, regardless of temperature or wear, not to exceed 11-inches as measured with motorcycle off the ground at 8-pounds of air pressure. Manufacturer, model and size information must be clearly designated.

WHEELS

Beadlock style rear wheel is mandatory. A flat shield must be incorporated into the front wheel and painted flat black. This shield should extend to at least 5-1/2-inches above the ground.

REQUIREMENTS & SPECIFICATIONS BODY: 7

APPEARANCE

All bikes must be professionally finished, painted, lettered, numbered and decaled.

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BODY

One-piece body representing original manufacturer's design. Full fairing, half fairing and headlight is permitted.

REQUIREMENTS & SPECIFICATIONS

ELECTRICAL: 8

BATTERIES

Must be securely fastened within the frame parameter.

KILL SWITCH

Mandatory. Must be installed so that the rider can activate with both hands on the handlebars. Must use ignition cut-off switch securely attached to rider. Ignition, fuel pump and solenoids must deactivate. Lanyards must be constructed of leather, metal or nylon. Plastic lanyards are prohibited.

TAILLIGHTS

One functional taillight is mandatory. Flashing, blinking or strobe lights are prohibited.

REQUIREMENTS & SPECIFICATIONS

SUPPORT GROUP: 9

COMPUTER

Permitted.

DATA RECORDER

Permitted.

TOW VEHICLES

Allowed. A valid driver's license is required to operate any type of push vehicle. Posted pit speeds must always be obeyed. If pit speed is not posted, maximum pit speed will be 5 miles per hour.

REQUIREMENTS & SPECIFICATIONS

DRIVER: 10

CREDENTIALS

NHRA/PDRA competition license is required.

FIRE SUPPRESSION SYSTEM

Minimum 0.5-pound PDRA-accepted fire suppression system required.

HELMET

Full-face Snell M2015, SA2015 or SA2020 helmet mandatory; shield mandatory (goggles prohibited). Eject Helmet Removal System (part number SDR 890-01-30) mandatory and must be installed per manufacturer instructions. A Stand 21 Lid Lifter head sock meeting SFI 3.3 may be used in lieu of the Eject Helmet Removal System. See General Regulations 10:7.

PROTECTIVE CLOTHING

Full all-leathers or SFI Spec 40.1/2 suit mandatory on motorcycles running 120 mph or faster. Two-piece suits must be joined together with a metal 360-degree zipper at the waist. SFI Spec 40.1/1 or 40.1/2 suit or leather jacket, leather boots/shoes above the ankle, and leather gloves are mandatory on ALL motorcycles. Gloves must be Kevlar-lined or equipped with slide buttons. See General Regulations 10:10.