



BRACKET BASH



Bracket Bash

Bracket Bash is for full-bodied vehicles, altered, roadsters and open-bodied dragsters. Motorcycles and snowmobiles are prohibited. Minimum dial-in of 3.70-seconds and a maximum dial-in of 7.49-seconds. PDRA contests one class of Bracket Bash (Super Pro and Pro, all-run), along with non-qualifiers in Top Sportsman and Top Dragster that have the option to fall into Bracket Bash, if they choose to not be a wait-and-see alternate for the second field of Top Sportsman or Top Dragster. Bracket Bash is contested on a .500 full tree with cross-talk turned on. No double entries are allowed in Bracket Bash, due to time and event pace constraints. Buybacks for the first round are accepted but if the car count exceeds 64 cars in the first round, there will not be buybacks due to time and event pace constraints.

DESIGNATION/DECALS

All entries are required to have car number on both sides of vehicle. Number must be at least four inches high. 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.

REQUIREMENTS & SPECIFICATIONS**ENGINE: 1****ENGINE**

One internal-combustion automotive-type engine permitted. Harmonic balancer meeting SFI Spec 18.1 mandatory in any car running 6.99 or quicker.

EXHAUST SYSTEM

Competition exhaust system is permitted. Exhaust gases must be directed out of the car body, rearward, away from driver and fuel tank.

FUEL

Racing gasoline, gasoline, alcohol, gasohol, ethanol and diesel are permitted. Nitromethane prohibited.

FUEL SYSTEM

All fuel-tank filler necks located inside trunk must have filler neck vented to outside of body. Vented caps prohibited. All batteries, fuel lines, fuel pumps or filler necks located inside trunk require complete bulkhead of at least .024-inch steel or .032-inch aluminum to isolate driver compartment from trunk. Fuel lines must be located outside driver compartment. Fuel tanks must be within confines of the body.

INDUCTION

Any induction permitted. Electronic fuel injection permitted. Open-loop systems permitted on production vehicles as equipped with OEM electronic fuel injection. Aftermarket water-methanol injection systems permitted. Must be installed and used per manufacturer's instructions. Tank, pump, lines, etc. may not be mounted inside the driver compartment. When located inside trunk, a complete bulkhead of at least .024-inch steel or .032-inch aluminum is required to isolate driver compartment from trunk.

LIQUID OVERFLOW

Catch-can mandatory for coolant overflow; one-pint (16-ounce) minimum capacity.

NITROUS OXIDE

Commercially available nitrous oxide permitted, excluding supercharged and turbocharged engines. Nitrous bottle(s) in driver compartment must be equipped with a relief valve and vented outside the driver compartment. Bottle(s) must be stamped with DOT-1800-pound rating and permanently mounted (no hose clamps or tie wraps). Hoses from bottle(s) to solenoid must be high-pressure steel-braided or PDRA/NHRA-accepted hoses. Commercially available, thermostatically controlled, blanket-type warmer accepted. The use of a torch or any other external heating of bottle is prohibited.

OIL RETENTION DEVICE

All vehicles requested to utilize an NHRA-accepted lower engine oil-retention device.

SUPERCHARGER/TURBOCHARGER

Permitted on gasoline, racing-gasoline and alcohol-burning cars. Supercharger restraint system meeting SFI Spec 14.1 mandatory on roots-

type supercharger when alcohol is used as fuel. High-helix, centrifugal superchargers are permitted. Screw superchargers are prohibited. Supercharger restraint straps must be covered with a fire-resistant material. The blower restraint straps and fuel lines must be installed such that when the restraint straps are fully extended, no load is placed on any of the fuel lines. Air-to-air or water-to-air intercoolers permitted on turbocharged and centrifugal supercharged vehicles.

STARTER

All entries must be self-starting with an onboard starter and battery.

VALVE COVERS

Cast or fabricated metal valve covers, using all attachment bolt holes, mandatory on supercharged or turbocharged, methanol-burning entries.

REQUIREMENTS & SPECIFICATIONS

DRIVETRAIN: 2

CLUTCH, FLYWHEEL, FLYWHEEL SHIELD

Flywheel and clutch meeting SFI Spec 1.1 or 1.2 (two-disc maximum) mandatory on any car running 7.35 or quicker. Flywheel shield meeting SFI Spec 6.1, 6.2 or 6.3 mandatory on all cars running 7.35 or quicker. Cars for which an SFI Spec 6.1, 6.2 or 6.3 flywheel shield is not available may use an SFI flywheel shield from another application bolted to a motor plate that is bolted to the engine at all available bolt holes.

DRIVELINE

OEM production line all-wheel-drive vehicles permitted. Driveshaft loop required on all cars running 8.59 or quicker and utilizing slicks, except vehicles running 7.35 seconds or slower equipped with street tires.

REAR END

Aftermarket axles and axle-retention device mandatory on any car running 6.99 or quicker or any car with locked differential. Cars running 6.99 or quicker that weigh more than 2,000 pounds with independent rear suspension without upper and lower (both) control arms must replace swing axle differential with conventional differential housing assembly (i.e., 1963-1982 Corvette). Cars with independent rear suspension using upper and lower (both) control arms may retain swing axle assembly regardless of weight or elapsed time. Must have 360-degree, minimum 1-inch wide by ¼-inch-thick axle retention loop on each axle.

TRANSMISSION, AFTERMARKET PLANETARY

Transmission shield or case meeting SFI Spec 4.1 mandatory on any supercharged or turbocharged vehicle, or any vehicle burning methanol or nitrous oxide, running 6.39 or quicker in the eighth-mile equipped with aftermarket planetary transmission.

TRANSMISSION, AUTOMATIC

Spring-loaded, positive reverse lockout device and functional neutral safety switch mandatory. Transmission shield or case meeting SFI Spec 4.1 mandatory on any car running 6.99 or quicker or any car exceeding 135 miles per hour. Automatic transmission flexplate meeting SFI Spec 29.1 and flexplate shield or case meeting SFI Spec 30.1 mandatory on cars running 6.39 or quicker or any car exceeding 135 miles per hour.

**REQUIREMENTS & SPECIFICATIONS
BRAKES & SUSPENSION: 3****BRAKES**

Four-wheel hydraulic brakes mandatory on any bodied car running 4.99 or quicker. Minimum two rear-wheel (one caliper per wheel) hydraulic brakes mandatory on dragsters, Funny Cars, and any car running slower than 5.00.

SUSPENSION, ALTEREDS AND DRAGSTERS

Full automotive-type front suspension mandatory. Rigid mounted rear axles permitted. Minimum one hydraulic shock absorber per sprung wheel. Suspension optional on cars weighing 2,350 pounds or less with 100-inch or longer wheelbase.

SUSPENSION, STOCK-BODIED CARS

Full automotive-type suspension mandatory. Minimum one operating hydraulic shock absorber per wheel. Lightening of stock components is prohibited. Rigid mounting suspensions are prohibited.

WHEELIE BARS

Permitted. Wheels must be non-metallic.

**REQUIREMENTS & SPECIFICATIONS
FRAME: 4****BALLAST**

Permitted.

DEFLECTOR PLATE

Mandatory on rear-engine dragsters.

GROUND CLEARANCE

Minimum 3 inches required from the front of the car to 12 inches behind axle centerline, 2 inches for remainder of car except for oil pan and exhaust system.

PARACHUTE

Mandatory on any car that runs 150 mph or faster.

ROLL BAR

Roll bar mandatory in all cars (including t-tops) running 7.00 to 7.35, in convertibles running 7.00 to 8.25, and in all dune-buggy-type vehicles running 7.50 and slower. Permitted in all cars.

ROLL CAGE

A roll cage is mandatory in cars running 6.99 or quicker or any car exceeding 135 miles per hour. In full-bodied cars, with unaltered firewall, floor and body (from firewall rearward, wheel tubs permitted) running between 6.40 and 6.99, roll bar permitted in place of roll cage. In convertibles running 6.99 or quicker or exceeding 135mph, roll cage is mandatory. For entries quicker than 6.39 and or 135mph a current SFI certified chassis is required.

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ROLL BAR PADDING

Roll-cage padding meeting SFI Spec 45.1 mandatory on any vehicle running 6.39 and quicker. Padding must be used anywhere driver's helmet may come in contact with roll-cage components.

WHEELBASE

Maximum wheelbase variation from left to right is 2 inches.

REQUIREMENTS & SPECIFICATIONS

TIRES & WHEELS: 5

TIRES

Racing slicks and drag radial tires permitted. No hard street tires. Minimum diameter of 13 inches on front tires of any dragster.

WHEELS

Must be automotive-type wheels suitable for street use. Minimum wheel size is 13 inches (unless originally equipped with small wheels and vehicle is equipped with original engine). The thread engagement on all wheel studs to the lug nut, or lug bolt to wheel hubs, must be equivalent to or greater than the diameter of the stud. Length of the stud/bolt does not determine permissibility; length of the engagement between the stud and lug determines permissibility. Automotive-type wire wheels or motorcycle wheels permitted on front axle only of dragsters weighing 1,800 pounds or less.

REQUIREMENTS & SPECIFICATIONS

INTERIOR: 6

SEATS

Properly braced, framed and supported seats constructed of aluminum, fiberglass, carbon fiber or double-layer poly (automotive accessory seats) is permitted.

SHEET METAL

Driver-compartment interior must be aluminum, steel or PDRA/NHRA-accepted carbon fiber or fiberglass. Magnesium prohibited.

UPHOLSTERY

Optional.

WINDOW NET

A ribbon-type or SFI 27.1 mesh-type window net is mandatory for any full-bodied car running 4.50 to 6.39 or if vehicle runs 135 miles per hour or faster.

REQUIREMENTS & SPECIFICATIONS

BODY: 7

AIRFOIL

Alters, Dragsters: A positive-locking device mandatory on all airfoils. Side-mount canard-type wings permitted. No part of wing may be within 6

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inches of a tire. Front overhang may not project more than 30 inches forward of front spindle.

Bodied Vehicles: Non-OEM airfoils permitted, must be permanently attached to frame or roll cage, non-adjustable during run.

BODY

Altered-body vehicles: May be chopped, channeled, sectioned, streamlined, etc. Sedan delivery, pickup trucks (maximum, one ton) or sedan pickups (Ranchero, El Camino) permitted. Fiberglass bodies permitted. Door hinges on any lift-off door must have safety pins or locks.

Dragsters: Body and cowl must be constructed of metal, fiberglass or carbon fiber and extend forward to firewall. Driver compartment must be designed to prevent driver's body or limbs from making contact with wheels, tires, exhaust system or track surface should an incident occur. Subflooring independent of car body is mandatory in dragster that allows driver's legs to rest on belly pan or chassis. On front-engine cars, intake scoop may not extend more than 11 inches above height of carburetor top. Front wheel fairings are prohibited.

Full-Bodied Vehicles: Must have full top and windshield. All full-bodied cars must have two driver exits. Four stock production fenders mandatory, fiberglass duplicates permitted. Fenders may be trimmed for tire clearance; altered fenders must have edges re-rolled or beaded.

FIREWALL

Mandatory.

FLOOR

Mandatory.

HOOD

Optional. Carburetors must be covered by flash shield or scoop. Hood scoop permitted.

WINDSHIELD, WINDOWS

Altered, Dragsters: Optional, windscreen is mandatory.

Stock-Bodied Vehicles: Mandatory, must be in good condition and free from cracks. May be replaced with shatterproof material, 1/8-inch-minimum thickness. OEM windshield may not be cut for scoops, carb, etc. Windows must be closed during races, need not be operable.

REQUIREMENTS & SPECIFICATIONS

ELECTRICAL: 8

BATTERIES

All batteries must be securely mounted. May not be located in driver's compartment.

DELAY BOX/DEVICE

Permitted. Pneumatic starting-line enhancers are permitted for all applications. Delay device may serve only to create a preset delay between release of transbrake, line-loc, etc. button and resultant action of vehicle.

All wiring associated with the delay device, throttle stop, ignition system, automatic shifter and electronic fuel injection must be fully visible, labeled and traceable. Delay devices and components must be utilized in an unaltered manner consistent with the manufacturer's installation and instruction books unless otherwise approved. The use of any visual, audible, etc. indications that are transmitted to the driver in any form that provide on-track data are prohibited. Discovery of a prohibited device at any time following pre-event technical inspection will be grounds for immediate disqualification from the event, loss of PDRA Racing points and a possible suspension from the PDRA Racing series.

IGNITION

Timed ignition-interruption devices (stutter boxes) prohibited. Starting-line and/or "high-side" rev limiters permitted. Two-steps, rev limiters, or any other RPM-limiting devices, legal unto themselves but altered or installed so as to function as a down-track RPM controller, prohibited. All wiring associated with the ignition system must be fully visible, labeled and traceable.

All ignition systems and/or components wiring harnesses and attachments must utilize those supplied by the ignition system manufacturer. The wiring harness must be used in an unaltered manner consistent with the manufacturer's installation and instruction books. All wiring associated with ignition system must be fully visible, labeled and traceable. All removable or pin-type timing devices are prohibited. Two-steps or other rev limiters that are adjustable by thumbwheel, replaceable chips and the like may not be within the driver's reach and will preferably be located outside of the driver's compartment.

The use of any programmable multi-point rev limiter and/or a rate-of-acceleration RPM limiter, either by themselves (e.g., MSD 7561, MSD 7761) or integrated into the ignition system (e.g., MSD 7530-T, MSD 7531) is prohibited in PDRA competition.

INSTRUMENTS

One tachometer allowed. Driveshaft sensor may be connected to either tachometer or the data recorder, but not both. Must be one single wire, with no splices, and easily traceable.

MASTER CUT-OFF

Mandatory on any car with a battery running 6.39 or quicker, any car exceeding 135 mph or on any car where the battery is located in the trunk area, regardless of elapsed time or speed.

STARTING LINE CONTROLLERS

Permitted.

TAILLIGHTS

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

REQUIREMENTS & SPECIFICATIONS

SUPPORT GROUP: 9

COMPUTER

Prohibited.

DATA RECORDER

Permitted. Data recorders may be used to record functions of a vehicle so long as they do not activate any function on the vehicle. Data recorder may not be activated by the throttle, clutch, brake, etc. Must be activated by a separate switch or with RPM control. Data may be reviewed (printout, replace, etc.) only after the run.

FIRE EXTINGUISHER SYSTEM

Permitted, must be securely mounted.

TOW VEHICLES

Permitted. Tow/push bars must be labeled with reflective tape and/or bright color or striping for safety precautions.

REQUIREMENTS & SPECIFICATIONS

DRIVER: 10

ARM RESTRAINTS

Mandatory in all open-bodied cars running 7.49 or quicker.

CREDENTIALS

NHRA/PDRA competition license is required for any entry quicker than 6.39. A valid state or government-issued driver's license beyond a learner's permit level mandatory for cars running 6.40 and slower.

DRIVER

Any car with no crossmember above the driver's legs must have a strap or device to prevent legs from projected outside chassis.

DRIVER RESTRAINT SYSTEM

Seat belt mandatory in all cars. Driver restraint system meeting SFI Spec 16.1 mandatory in any car running 7.35 or quicker, in convertibles running 8.25 or quicker and all dune-buggy-type vehicles running 7.50 or slower. SFI 16.1 restraint system, when required, includes crotch strap and must be updated at two-year intervals from date of manufacture.

HEAD PROTECTOR

Mandatory on any car with a roll bar or roll cage.

HELMET

For all 6.40 and slower closed-bodied cars, either an open-face or a full-face Snell M2010, M2015, SA2010, SA2015, SA2020, SFI31.1/2010 or SFI31.1/2015 helmet with or without a shield is mandatory.

For all 6.40 and slower dune-buggy-type vehicles and all 6.40 to 8.59 open-bodied front-engine or rear-engine supercharged, turbocharged, nitrous, or naturally aspirated cars, a full-face Snell M2010, M2015, SA2010, SA2015 helmet and shield are mandatory (goggles prohibited).

For all 6.39 and quicker closed-bodied cars, a full-face Snell M2010, M2015, SA2010 or SA2015 helmet is mandatory; shield permitted (goggles prohibited).

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For all 6.39 and quicker open-bodied front-engine or rear-engine supercharged, turbocharged or nitrous cars, a full-face Snell SA2010 or SA2015 helmet and shield is mandatory (goggles prohibited). For all 6.39 or quicker open-bodied front-engine or rear-engine naturally aspirated cars, a full-face Snell M2010, M2015, SA2010 or SA2015 helmet and shield is mandatory (goggles prohibited).

NECK COLLAR

Neck collar meeting SFI Spec 3.3 mandatory in all cars running 6.39 or quicker or cars exceeding 135 miles per hour. A head and neck restraint device/system may be used in lieu of a neck collar. If SFI Spec 3.3 neck collar is required and driver opts to use a head and neck restraint system instead, then SFI Spec 3.3 head sock or SFI Spec 3.3 skirted helmet is mandatory.

PROTECTIVE CLOTHING

Full-length pants; short- or long-sleeved shirt; closed shoes; and socks. No shorts. No tank tops. No open-toe or open-heel shoes or sandals. Synthetic clothing not recommended.

6.40 to 8.59; all E.T. non-OEM supercharged, non-OEM turbocharged or nitrous-equipped cars with an OEM or .024-inch steel firewall: Jacket meeting SFI Spec 3.2A/1 mandatory.

6.40 to 8.59; all E.T. supercharged, turbocharged or nitrous-equipped cars without a full OEM or .024-inch steel firewall: Jacket meeting SFI Spec 3.2A/5 and gloves meeting SFI Spec 3.3A/1 mandatory.

6.39 to 4.50 front-engine open-bodied vehicles with nitrous oxide, supercharger or turbocharger(s): Jacket and pants meeting SFI Spec 3.2A/15, gloves and shoes or boots meeting SFI Spec 3.3/5 mandatory.

6.39 to 4.50 closed-bodied vehicles without an OEM or full .024-inch steel firewall with nitrous oxide, supercharger or turbocharger(s): Jacket and pants meeting SFI Spec 3.2A/15, gloves meeting SFI Spec 3.3/5 and shoes or boots meeting SFI Spec 3.3/5 mandatory.

6.40 to 7.35; all E.T. naturally aspirated, OEM supercharged or OEM turbocharged with a full OEM or .024-inch steel firewall: Jacket meeting SFI Spec 3.2A/1 mandatory.

6.39 to 4.50 or any vehicle exceeding 135 mph: Jacket and pants meeting SFI Spec 3.2A/5 and gloves meeting SFI Spec 3.3/1 mandatory, except as noted above.

All open-body vehicles running 11.99 or quicker: Gloves meeting SFI Spec 3.3/1 and arm restraints mandatory.

Any vehicle with an automatic transmission in driver compartment (no floor covering transmission): Jacket and pants or suit meeting SFI Spec 3.2A/15, gloves meeting SFI Spec 3.3/5 and boots or shoes meeting SFI Spec 3.3/5 mandatory.

6.39 and faster, any vehicle, supercharged or turbocharged with alcohol: Suit meeting SFI Spec 3.2A/15, gloves and boots meeting SFI Spec 3.3/5 mandatory, except as noted above.