

2020
Hot Rod Heritage Racing Series Rules Supplement

SECTION 1: HOT ROD ELIMINATOR

DESIGNATION

H/R, preceded by number.

Reserved for pre-1986 left-hand-steer full-bodied vehicles. Front-engine dragster, altereds, or any other open-cockpit car prohibited.

Competition structure will be conducted in an e.t. dial-your-own format, with dial-in limited from 8.50 minimum to 13.99 seconds maximum. Class uses a five-tenths full Tree start.

REQUIREMENTS & SPECIFICATIONS

ENGINE: 1

ENGINE

One internal-combustion automotive-type engine permitted. Harmonic balancer meeting SFI Spec 18.1 mandatory in any car running 10.99 (6.99*) or quicker. See General Regulations 1:1.

EXHAUST SYSTEM

Competition exhaust permitted. Exhaust must be directed out of car to rear, away from driver and fuel tank. See General Regulations 1:3.

FUEL

Racing gasoline, gasoline, alcohol, gasohol, diesel, ethanol, natural gas, and propane 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. No pressurized fuel tanks allowed. See General Regulations 1:5.

LIQUID OVERFLOW

Catch can mandatory for coolant overflow; one-pint (16-ounce) minimum capacity. See General Regulations 1:7.

OIL RETENTION DEVICE

All vehicles running 7.49 or quicker must utilize an SFI Spec 7.1, 7.2 or NHRA-accepted lower engine oil retention device; may use a belly pan in lieu of a device attached to the engine. The belly pan must extend from framerail to framerail and extend forward of the harmonic balancer and rearward to rear engine plate and must incorporate a minimum 2-inch-high lip on all sides. A nonflammable, oil-absorbent liner mandatory inside of retention device. See General Regulations 1:8.

NITROUS OXIDE

Nitrous oxide prohibited.

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THROTTLE

Positive throttle return required. Each car must have a foot throttle incorporating a positive-acting return spring attached directly to the carburetor/injector throttle arm. Throttle control must be manually operated by driver's foot, incorporating a positive action return system. See General Regulations 1:12.

SUPERCHARGER

Permitted on gasoline-, racing-gasoline-, and alcohol-burning cars. Supercharger restraint system meeting SFI Spec 14.1 mandatory on supercharger when alcohol is used as fuel. Manifold burst panel mandatory. 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. Supercharger belt guard that protects all fuel, oil, and water lines required. No composite materials in injector hat and/or scoop allowed. Composite materials include but are not limited to carbon fiber, Kevlar, and weave-graphite fiber. Hat/scoop must be nostalgic in appearance. Internal modifications permitted. Scoops limited to 12.5 inches above throttle body. Air intake limited to 65 square inches. See General Regulations 1:10.

VALVE COVERS

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

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 11.49 (7.35*) or quicker. Flywheel shield meeting SFI Spec 6.1, 6.2, 6.3, or 9.1 mandatory on all cars running 11.49 (7.35*) or quicker. See General Regulations 2:3, 2:5, 2:6, 2:10.

DRIVELINE

Driveshaft loop required on all cars utilizing slicks, except vehicles running 11.49 (7.35*) seconds or slower equipped with street tires. In all cars where the driveline passes any part of the driver's body, the driveshaft must be completely enclosed in a minimum 1/8-inch-thick steel plate securely mounted to frame structure, bellhousing, and/or rear-end center section. See General Regulations 2:4.

REAR END

Aftermarket axles and axle-retention device mandatory on any car running 10.99 (6.99*) or quicker or any car with locked differential. See General Regulations 2:11.

TRANSMISSION, AFTERMARKET PLANETARY

Transmission shield meeting SFI Spec 4.1 mandatory on any supercharged vehicle or any vehicle burning methanol, running 9.99 seconds or quicker, and equipped with aftermarket planetary transmission. See General Regulations 2:12, 2:13.

TRANSMISSION, AUTOMATIC

Spring-loaded, positive reverse lockout device and functional neutral safety switch mandatory. Transmission shield meeting SFI Spec 4.1 mandatory on any car running 10.99 (6.99*) or quicker or any car exceeding 135 mph. Automatic transmission flexplate meeting SFI Spec 29.1 and flexplate shield meeting SFI Spec 30.1 mandatory

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on cars running 9.99 (6.39*) or quicker or any car exceeding 135 mph. See General Regulations 2:12, 2:14.

BRAKES AND SUSPENSION: 3

BRAKES

Four-wheel hydraulic brakes mandatory on any bodied car running 7.99 (4.99*) or quicker. Minimum two rear-wheel (one caliper per wheel) hydraulic brakes mandatory on any car running slower than 8.00 (5.00*) seconds. See General Regulations 3:1.

STEERING

See General Regulations 3:3, 4:1.

SUSPENSION, STOCK-BODIED CARS

Full automotive-type suspension mandatory. Minimum one operating hydraulic shock absorber per wheel. Lightening of stock components prohibited. Rigid-mounted suspensions prohibited. See General Regulations 3:2, 3:4, 3:5.

WHEELIE BARS

Permitted. Wheels must be nonmetallic. See General Regulations 3:6.

FRAME: 4

BALLAST

Permitted. See General Regulations 4:2.

GROUND CLEARANCE

Minimum 3 inches from front of car to 12 inches behind centerline of front axle, 2 inches for remainder of car, except oil pan and headers. See General Regulations 4:5.

PARACHUTE

Mandatory on any car that runs 150 mph or faster. See General Regulations 4:8.

ROLL BAR

Roll bar mandatory in all cars running 11.00 (7.00*) to 11.49 (7.35*), in convertibles running 11.00 (7.00*) to 13.49 (8.25*). Permitted in all cars. See General Regulations 4:10, 10:6.

ROLL CAGE

Roll cage mandatory in cars running 10.99 (6.99*) or quicker or any car exceeding 135 mph. In full-bodied cars with unaltered firewall, floor, and body (from firewall rearward, wheel tubs permitted), running between 10.00 (6.40*) and 10.99 (6.99*), roll bar permitted in place of roll cage. In convertibles running 10.99 (6.99*) or quicker or exceeding 135 mph, roll cage mandatory. Cars running between 7.50 (4.50*) and 9.99 (6.39*) must have chassis inspected every three years by NHRA and have a serialized sticker affixed to cage before participation. Plating of chassis prohibited for all cars manufactured after Jan. 1, 2003. Vehicles running 8.49 to 7.50 (5.40 to 4.50*) and/or exceeding 180 mph must meet appropriate SFI Spec for body used. All others must conform to specs for body style used, as listed in General Regulations 4:11, 10:6.

ROLL-CAGE PADDING

Roll-cage padding meeting SFI Spec 45.1 mandatory on any vehicle running 9.99 (*6.39) and quicker. Padding must be used anywhere driver's helmet may come in contact with roll-cage components. See General Regulations 4:11, 10:6.

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WHEELBASE

Minimum 90 inches, unless car has original engine. Maximum wheelbase variation from left to right: 1 inch.

TIRES & WHEELS: 5

TIRES

Racing slicks permitted.

WHEELS

Must be automotive-type wheels suitable for street use. Minimum wheel size: 13 inches (unless originally equipped with smaller 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. Snap-on hubcaps prohibited. See General Regulations 5:2.

INTERIOR: 6

SEATS

Properly braced, framed, and supported seats constructed of aluminum, fiberglass, carbon fiber, or double-layer poly (automotive accessory seats) permitted. See General Regulations 6:2.

UPHOLSTERY

Optional. See General Regulations 6:2.

WINDOW NET

A ribbon-type or SFI 27.1 mesh-type window net is mandatory for any full-bodied car running 7.50 (*4.50) to 9.99 (*6.39) or if vehicle runs 135 mph or faster. See General Regulations 6:3.

BODY: 7

BODY

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. See General Regulations 6:1, 7:4.

FLOOR

Mandatory. See General Regulations 6:1, 7:5.

HOOD

Optional. Carburetors must be covered by flash shield or scoop. Hood scoop permitted. See General Regulations 4:1, 7:6.

WINDSHIELD, WINDOWS

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. Windshield/window tint must meet the applicable

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state requirements. Windows must be closed during races, need not be operable.
Decals permitted on rear quarter and rear window only. See General Regulations 7:8.

ELECTRICAL: 8

BATTERIES

Batteries must be securely mounted; may not be located in driver compartment.
Relocated battery(s) must be fastened to frame or frame structure with a minimum of two 3/8-inch-diameter bolts. See General Regulations 8:1.

DELAY BOX/DEVICES

Prohibited. Electronic devices include but are not limited to throttle stops, delay boxes, cross-over boxes, rpm or timer shifters, and rpm or pressure-activated switches. See General Regulations 8:2.

IGNITION

Timed ignition-interruption devices (stutter boxes) prohibited. Starting-line and/or "highside" 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 downtrack rpm controller, prohibited.

INSTRUMENTS

One tachometer allowed. No wiring (other than the two-step/launch-control wire that splices into the transbrake or line-loc control wire) shall be connected.

MASTER CUTOFF

Mandatory on any car with a battery running 9.99 (6.39*) or quicker, any car exceeding 135 mph, or any car where the battery is relocated into the trunk area. See General Regulations 8:4.

TAILLIGHTS

One functional taillight mandatory. Flashing, blinking, or strobe lights prohibited. See General Regulations 8:6.

SUPPORT GROUP: 9

COMPUTER

Prohibited. See General Regulations 9:1.

DATA RECORDER

Data recorders permitted. See General Regulations 9:2.

FIRE-EXTINGUISHER SYSTEM

Permitted; must be securely mounted. See General Regulations 9:3.

PUSH BAR

Push bar must be designed to prevent push car from riding up on rear wheel of openwheeled race cars. See General Regulations 9:8.

TOW VEHICLES

Prohibited.

WARM-UPS

See General Regulations 9:4, 9:12.

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DRIVER: 10 CREDENTIALS

Valid NHRA competition license mandatory for cars running 9.99 (6.39*) or quicker. Valid state- or government-issued driver's license beyond a learner's-permit level mandatory for cars running 10.00 (6.40*) or slower. See General Regulations 10:4.

DRIVER RESTRAINT SYSTEM

Seat belt mandatory in all cars. Driver restraint system meeting SFI Spec 16.1 or 16.5 mandatory in any car running 11.49 (7.35*) or quicker, in convertibles running 13.49 (8.25*) or quicker. SFI 16.1 restraint system, when required, includes crotch strap and must be updated at two-year intervals from date of manufacture. See General Regulations 10:5, 10:11.

HEAD PROTECTOR

Mandatory on any car with a roll bar or roll cage. See General Regulations 10:6.

HELMET

For all 10.00 to 13.99 closed-bodied cars, either an open-face or a full-face Snell M2010, M2015, SA2010, SA2015, 31.1/2010, 31.1/2015, 41.1/2005, 41.1/2010 or 41.1/2015 helmet with or without a shield is mandatory.

For all 9.99 and quicker closed-bodied cars, a full-face Snell M2010, M2015, K2005, SA2005, SA2010 or SA2015 helmet mandatory; shield permitted (goggles prohibited).

For all 9.99 and quicker supercharged cars, a full-face Snell SA2010 or SA2015 helmet mandatory; shield permitted (goggles prohibited).

NECK COLLAR

Neck collar meeting SFI Spec 3.3 mandatory in all cars running 9.99 (6.39*) or quicker or cars exceeding 135 mph. A head and neck restraint device/system may be used in lieu of a neck collar. See General Regulations 10:8.

PROTECTIVE CLOTHING

Shorts, bare legs, tank tops, or bare torsos prohibited when driving in competition. All drivers are required to wear full-length pants, shoes, and socks. Nylon or nylon-type clothing and open-toe shoes prohibited. See General Regulations 10:10.

10.00 (6.40*) TO 13.99 (8.59*); ALL E.T. NON-OEM

SUPERCHARGED WITH AN OEM OR .024-INCH STEEL FIREWALL: Jacket meeting SFI Spec 3.2A/1 mandatory.

10.00 (6.40*) TO 13.99 (8.59*); ALL E.T. SUPERCHARGED WITHOUT A FULL OEM OR .024-INCH STEEL FIREWALL: Jacket meeting SFI Spec 3.2A/5 and gloves meeting SFI Spec 3.3/1 mandatory.

9.99 (6.39*) TO 7.50 (4.50*); CLOSED-BODIED WITHOUT AN OEM OR FULL .024-INCH STEEL FIREWALL WITH SUPERCHARGER: Jacket and pants meeting SFI Spec 3.2A/15, and gloves and shoes or boots meeting SFI Spec 3.3/5 mandatory.

10.00 (6.40*) TO 11.49 (7.35*); ALL E.T. NATURALLY ASPIRATED, OEM SUPERCHARGED, WITH A FULL OEM OR .024-INCH STEEL FIREWALL: Jacket meeting SFI Spec 3.2A/1 mandatory.

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9.99 (6.39*) TO 7.50 (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.

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.

9.99 AND FASTER, ANY VEHICLE, SUPERCHARGED WITH ALCOHOL: Suit meeting SFI Spec 3.2A/15, and gloves and boots meeting SFI Spec 3.3/5 mandatory.

* = eighth-mile equivalent