



E.T. HANDICAP RACING

Stock-Body Vehicles, Altered-Body Vehicles, Dragsters, Motorcycles, Snowmobiles, All-Terrain Vehicles, and Electric Vehicles

Each racetrack has the option of substituting its own selection of class titles and e.t. breaks.

Since quarter-mile elapsed times would not apply for eighth-mile racing, a style of competition common to E.T. handicap racing, some pertinent quarter-mile elapsed times are converted to eighth-mile figures: 9.90 = 6.30, 10.00 = 6.40, 11.00 = 7.00, 12.00 = 7.50, and 14.00 = 8.60.

The legality of certain devices (i.e., throttle stops, delay devices, etc.) may vary between divisions. Racers are advised to contact the respective division office for regulations within that geographic area.

Timed vehicle-control devices (counters, time displays, etc.), except as outlined under Class Requirements, are prohibited. Display or transmission of track location, time/distance data, etc. prohibited.

Data recorders are permitted in Advanced E.T. and Super Pro only. Data recorders (except for "playback"-type tachometers) are prohibited in all other E.T. classes.

Computers (except for OEM) are prohibited in all E.T. classes.

SECTION 4A - SUPER PRO, PRO, SPORTSMAN 7.50 (*4.50) seconds & slower

DESIGNATIONS

NHRA SUMMIT RACING SERIES NATIONAL CHAMPIONSHIP

SUPER PRO: 7.00 to 11.99

PRO: 9.00 to 13.99

SPORTSMAN: 12.00 to 19.99

E.T.

References in this section identify performance limits for various equipment and safety applications.

Any vehicle except E.T. Motorcycle running faster than 135 mph must meet minimum requirements for 9.99-second vehicles including driver credentials and protective clothing. The 135-mph rule does not apply to E.T. Motorcycle. E.T. Motorcycle must comply with 9.99-second e.t. restrictions.

REQUIREMENTS & SPECIFICATIONS

ENGINE: 1

ENGINE

One internal-combustion automotive-type, motorcycle, or snowmobile engine permitted. Motorcycle or snowmobile-powered vehicles without reverse may not burn out across starting line. Harmonic balancer meeting SFI Spec 18.1 mandatory in any car running 10.99 (*6.99) or quicker. Maximum height of crankshaft centerline 36 inches for trucks running 12.00 and slower; 31 inches for trucks running 11.99 to 10.00; and 24 inches for trucks running 9.99 seconds and 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. For cars running quicker than 7.50 (*4.50), see Advanced E.T. Requirements. 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. See General Regulations 1:5.

INDUCTION

Any induction permitted. Electronic fuel injection must be closed, OEM-type system; i.e., may monitor only engine functions. Monitoring of vehicle performance criteria, wheel speed, driveshaft speed, vehicle acceleration, etc. by fuel-injection system prohibited. All aftermarket OEM-type electronic fuel injection must be NHRA-accepted. A current list of NHRA-accepted electronic-fuel-injection systems is available on NHRAracer.com. Open-loop systems permitted on production vehicles as equipped with OEM electronic fuel injection. See General Regulations 9:1.

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. See General Regulations 1:7.

NITROUS OXIDE

Commercially available nitrous oxide permitted, including supercharged and turbocharged engines. Nitrous bottle(s) in driver compartment must be equipped with a relief valve and vented outside of driver's compartment. Bottle(s) must be stamped with a 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 NHRA-accepted hoses. Commercially available, thermostatically controlled, blanket-type warmer accepted. Any other external heating of bottle prohibited. See General Regulations 1:6.

OIL-RETENTION DEVICE

All vehicles permitted to utilize an NHRA-accepted lower engine oil- retention device. See General Regulations 1:8.

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 and screw-type supercharger permitted. Screw-type supercharger, manifold burst panel meeting SFI Spec 23.1 (in addition to panel in supercharger) plus restraint system meeting SFI Spec 14.21 mandatory. Supercharger drive must be belt, NHRA-accepted chain driver or NHRA-accepted gear drive. 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. 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. Cars with rotary engines running 11.49 (*7.35) or quicker must be equipped with a flywheel shield made of 1/4-inch-minimum-thickness steel plate surrounding the bellhousing 360 degrees. See General Regulations 2:3, 2:5, 2:6, 2:10.

DRIVELINE

OEM production line all-wheel-drive vehicles permitted. Driveshaft loop required on all cars running 13.99 (*8.59) or quicker and utilizing slicks, except vehicles running 11.49 (*7.35) seconds or slower equipped with street tires. 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. Cars running 10.99 (*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.

(Example: 1963-1982 Corvette). Cars with independent rear suspension using upper and lower (both) control arms may retain swing axle assembly regardless of weight or e.t. Must have 360-degree, minimum 1-inch-wide by 1/4-inch-thick axle retention loop on each axle. See General Regulations 2:11.

TRANSMISSION, Aftermarket Planetary

Transmission shield meeting SFI Spec 4.1 mandatory on any supercharged or turbocharged vehicle, or any vehicle burning methanol or nitrous oxide, 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 on cars running 9.99 (*6.39) or quicker or any car exceeding 135 mph. See General Regulations 2:12, 2:14.

BRAKES & 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 dragsters, Funny Cars, and any car running slower than 8.00 (*5.00) seconds. Dragsters running slower than 10.99 (*6.99) with a total car weight of 1,000 pounds or less and a one-piece rear axle may use a single brake rotor with dual calipers. See General Regulations 3:1.

STEERING

See General Regulations 3:3, 4:1.

SUSPENSION, Altered, 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. See General Regulations 3:2, 3:4, 3:5.

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.

DEFLECTOR PLATE

Mandatory on rear-engine dragsters. See General Regulations 4:3.

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 (including T-tops) running 11.00 (*7.00) to 11.49 (*7.35), in convertibles running 11.00 (*7.00) to 13.49 (*8.25), and in all dune-buggy-type vehicles running 12.00 (*7.50) seconds and slower. 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, wheeltubs 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 or quicker or exceeding 135 mph, roll cage mandatory. Cars running between 7.50 (*4.50) and 9.99 (*6.39) must have chassis recertified 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. Rear-engine dragsters must conform to SFI Spec 2.7B; vehicles running 8.49 (*5.35) to 7.50 (*4.50) and/or exceeding 180 mph must meet appropriate SFI Spec for body used. Effective Jan. 1, 2007, all new Street Roadsters must conform to SFI Spec 10.4. Existing Street Roadsters must meet SFI Spec 10.4 at their next scheduled recertification effective Jan. 1, 2008. No existing cars will be recertified early to delay compliance. 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.

WHEELBASE

Minimum 85 inches, unless OEM was less and vehicle is equipped with OEM engine and drivetrain. Maximum wheelbase variation from left to right: 1 inch. Dragsters: 2 inches. Minimum front tread width: 26 inches on any dragster.

TIRES & WHEELS: 5**TIRES**

Racing slicks permitted. Minimum diameter of 13 inches on front tires of any dragster.

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. Automotive-type wire wheels or motorcycle wheels permitted on front axle only of dragsters weighing 1,800 pounds or less. 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.

SHEET METAL

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

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**AIRFOIL**

Altered, dragsters: A positive-locking device mandatory on all airfoils. Side-mount canard-type wings permitted. No part of wing may be within 6 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 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. 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 1:4, 7:6.

WINDSHIELD, WINDOWS

Altered, dragsters: Optional. Windscreen mandatory. See General Regulations 7:7, 7:8.

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 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. See General Regulations 8:1.

DELAY BOX/DEVICE

Permitted in Advanced E.T. and Super Pro only. Prior to use, all delay boxes/devices manufactured after Jan. 1, 2003, must be NHRA-accepted. A current list of NHRA-accepted delay boxes is available on NHRARacer.com. One delay box/device is permitted; it may be attached to the transbrake, shift timer, and/or throttle timer only. The wire to the transbrake (or line-loc) may contain a splice that activates the two-step/launch-control device in the ignition system. No other wiring shall be connected directly or indirectly between any other part of the ignition system or any other devices (such as data recorders, tachometers, suspension components, fuel-injection system, etc.) and the delay box/device. All wiring associated with the delay device, throttle-stop timer, ignition system, automatic shifter, tachometer, data recorder, and fuel-injection system must be fully visible, labeled, and traceable.

The rpm-based automatic shifters that are incorporated into some delay boxes/devices may not be used for any purpose. The built-in tachometer that is incorporated into some delay boxes/devices may not be used for any purpose.

Except for the disabling of automatic shifter and built-in tachometer functions, delay devices and associated components (such as transbrakes, automatic shifters, throttle-stop timers, data recorders, tachometers, fuel-injection system, etc.) must be utilized in an unaltered manner consistent with the manufacturer's installation and instruction books unless otherwise approved. Delay boxes/devices, throttle controllers, automatic shifters, etc. that provide on/off indications (based on time and/or rpm) may be located within the driver's view. Only those throttle-stop, automatic-shifter, etc. operations actually being used may be indicated. The use of any other visual, audible, etc. indications that are transmitted to the driver in any form that provide on-track data are prohibited. See General Regulations 8:2.

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.

The wire to the transbrake (or line-loc) may contain a splice that activates the two-step/launch-control device in the ignition system. No other wiring shall be connected directly or indirectly between any other part of the ignition system and the delay box/device. All wiring associated with the ignition system must be fully visible, labeled, and traceable. See General Regulations 8:1, 8:3, 8:5.

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 directly or indirectly between any part of the ignition system and the delay box/device. Driveshaft sensor may be connected to either the tachometer OR the data recorder, but not both. Must be one single wire, with no splices, and easily traceable.

MASTER CUTOFF

Mandatory on any car with a battery running 9.99 (*6.39) or quicker, any car exceeding 135 mph, or on 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 are permitted in Advanced E.T. and Super Pro only. Data recorders (except for "playback"-type tachometers) are prohibited in all other E.T. classes. 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 open-wheeled race cars. See General Regulations 9:9.

TOW VEHICLES

Permitted in Super Pro only. See General Regulations 9:12.

WARM-UPS

See General Regulations 9:5, 9:14.

DRIVER: 10**ARM RESTRAINTS**

Mandatory in open-bodied cars running 11.99 (*7.49) or quicker. See General Regulations 6:3, 10:3.

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. Three-inch driver restraint system meeting SFI Spec 16.1 mandatory in any car running 11.49 (*7.35) or quicker, in convertibles running 13.49 (*8.25) or quicker, and all dune-buggy-type vehicles running 12.00 (*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. 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 M2005, M2010, K2005, SA2005, SA2010, SFI 31.1A, 31.1/2005, 31.2A, 41.1A, 41.1/2005, or 41.2A helmet with or without a shield is mandatory.

For all 10.00 and slower dune-buggy-type vehicles and all 10.00 to 13.99 open-bodied front-engine or rear-engine supercharged, turbocharged, nitrous, or naturally aspirated cars, a full-face Snell M2005, M2010, K2005, SA2005, SA2010, SFI 31.2A, or 41.2A helmet and shield mandatory (goggles prohibited).

For all 9.99 and quicker closed-bodied cars, a full-face Snell M2005, M2010, K2005, SA2005, SA2010, SFI 31.2A, or 41.2A helmet mandatory; shield permitted (goggles prohibited).

For all 9.99 and quicker open-bodied front-engine or rear-engine supercharged, turbocharged, or nitrous cars, a full-face Snell SA2005, SA2010, or SFI 31.2A helmet and shield mandatory (goggles prohibited).

For all 9.99 or quicker open-bodied front-engine or rear-engine naturally aspirated cars, a full-face Snell M2005, M2010, K2005,

SA2005, SA2010, SFI 31.2A, or 41.2A helmet and shield mandatory (goggles prohibited). See General Regulations 10:7.

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.

If SFI Spec 3.3 neck collar is required and driver opts to use head and neck restraint system instead, then SFI Spec 3.3 head sock or SFI Spec 3.3 skirted helmet 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.

10.00 (*6.40) to 13.99 (*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.

10.00 (*6.40) to 13.99 (*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 3.3/1 mandatory.

9.99 (*6.39) to 7.50 (*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.

9.99 (*6.39) to 7.50 (*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.

10.00 (*6.40) to 11.49 (*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.

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.

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

Dune-buggy or dune-buggy-type vehicles, 12.00 (*7.50) or slower: Jacket meeting SFI Spec 3.2A/1, 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.

9.99 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.

SECTION 4B - ADVANCED E.T.**6.00 (*3.66) to 7.49 (*4.49) seconds**

Requirements and specifications for Advanced E.T. are the same as those for E.T. handicap racing - Section 4A - with the following exceptions:

For cars running between 7.49 (*4.49) and 6.00 (*3.66) seconds.

Computers (except OEM) are prohibited in all E.T. brackets.

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

Harmonic balancer meeting SFI Spec 18.1 mandatory.

EXHAUST

Double-pipe or thermal-wrapped insulated headers mandatory on supercharged, methanol-burning bodied cars. Insulation must extend to start of bend in headers at bottom of body.

NITROUS OXIDE

Nitrous oxide prohibited on supercharged or turbocharged engines, except when diesel fuel used. See General Regulations 1:6.

OIL-RETENTION DEVICE

All vehicles running 7.49 or quicker must utilize an 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.

SUPERCHARGER

Use of high-helix supercharger permitted. Screw-type superchargers permitted. Screw-type supercharger must meet SFI Spec 34.1 and be reinspected by the manufacturer every three years. Manifold burst panel meeting SFI Spec 23.1 (in addition to panel in supercharger) plus restraint system meeting SFI Spec 14.21 mandatory on all screw-type superchargers. All other superchargers, restraint system meeting SFI Spec 14.1 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. See General Regulations 1:10.

DRIVETRAIN: 2**CLUTCH, FLYWHEEL, FLYWHEEL SHIELD**

Flywheel and clutch meeting SFI Spec 1.1, 1.2, 1.3, or 1.4 mandatory. Flywheel shield meeting SFI Spec 6.2 or 6.3 mandatory on all supercharged or turbocharged cars and all cars using nitrous oxide. Flywheel shield meeting SFI Spec 6.2 or 6.3 mandatory on all cars using SFI Spec 1.2 clutch with more than two discs or SFI Spec 1.3 or 1.4 clutches with two discs maximum. Flywheel shield meeting SFI Spec 6.2 mandatory on all cars using SFI 1.3 or 1.4 clutches with more than two discs. Cars with rotary engines must be equipped with a flywheel shield made of 1/4-inch-minimum-thickness steel plate surrounding the bellhousing 360 degrees. Multi-disc clutch assembly for supercharged, nitrous-oxide injected,

and turbocharged vehicles must meet SFI Spec 1.5. See General Regulations 2:3, 2:5, 2:6, 2:10.

DRIVELINE

All full-bodied vehicles, where the OEM floor has been removed, each end of driveshaft must have round 360-degree driveshaft loops within 6 inches of U-joints. Additionally, driveshaft must be covered by 360-degree tube, covering the front U-joint and extending rearward a minimum 12 inches. Minimum thickness of tube is .050-inch chromoly or titanium. Driveshaft tube must utilize a minimum of four attachment points to the chassis, either bolted with minimum 5/16 SAE bolts or welded or 1/4-inch push/pull pins. See General Regulations 2:4.

REAR END

Aftermarket axles and axle-retention devices mandatory. Welded spider gears prohibited. Wheel studs must be 5/8-inch minimum. Aftermarket full-floating or live axle assembly permitted. Independent rear suspension prohibited.

TRANSMISSION, Aftermarket Planetary

Transmission shield meeting SFI Spec 4.1 mandatory. See General Regulations 2:12, 2:13.

TRANSMISSION, Automatic

Transmission shield meeting SFI Spec 4.1 mandatory. Automatic transmission flexplate meeting SFI Spec 29.1 and flexplate shield meeting SFI Spec 30.1 mandatory. See General Regulations 2:12, 2:14.

BRAKES & SUSPENSION: 3

BRAKES

Four-wheel hydraulic brakes mandatory on any bodied car. Minimum two rear-wheel (one caliper per wheel) hydraulic brakes mandatory on dragsters and Funny Cars. See General Regulations 3:1.

STEERING

If removable steering wheel is used, commercially available quick-disconnect steering-wheel adapter meeting SFI Spec 42.1 mandatory. See General Regulations 3:3.

FRAME: 4

PARACHUTE

Mandatory. See General Regulations 4:8.

ROLL CAGE

The following SFI Chassis Specs are effective for all new chassis and for all current chassis at next recertification: full-bodied cars must meet SFI Spec 25.1E, 25.2, or 25.3; Funny Cars and open-bodied altered cars must meet SFI Spec 10.1E or 10.2. All front-engine dragsters must meet SFI Spec 2.2B or 2.4B. All rear-engine dragsters must meet SFI Spec 2.1 or 2.5B. Chassis must be recertified every three years by NHRA and have a serialized sticker affixed to cage before participation. Plating of chassis prohibited on any vehicle manufactured after Jan. 1, 1999; painting permitted. See General Regulations 4:1.

ROLL-CAGE PADDING

Roll-cage padding meeting SFI Spec 45.1 mandatory anywhere driver's helmet may come in contact with roll-cage components. See General Regulations 4:11.

INTERIOR: 6

UPHOLSTERY

For all front-engine open-bodied vehicles supercharged or turbocharged (gasoline- or methanol-burning), a flame-retardant-material-covered seat is mandatory.

WINDOW NET

An SFI 27.1 ribbon-type or mesh-type window net is mandatory on any full-bodied car running 6.00 (*3.66) to 7.49 (*4.49). SFI 27.1 window net, when required, must be updated at two-year intervals from the date of manufacture. See General Regulations 6:3.

BODY: 7**AIRFOILS**

Non-OEM airfoils or wings permitted on stock bodied vehicles; must be permanently attached to frame or roll cage, non-adjustable during run.

E.T.**SUPPORT GROUP: 9****DATA RECORDERS**

Data recorders are permitted in Advanced E.T. and Super Pro only. Data recorders (except for "playback"-type tachometers) are prohibited in all other E.T. classes.

FIRE EXTINGUISHER SYSTEM

Minimum 5-pound NHRA-accepted system mandatory on all cars, except rear-engine cars WITHOUT an enclosed cockpit. Minimum 20-pound NHRA-accepted system mandatory on all front-engine open-bodied vehicles with supercharger or turbocharger(s) and all supercharged methanol-burning cars (full-bodied or Funny Car). System must be divided with a minimum one nozzle directed into the driver compartment and minimum one nozzle directed into the engine compartment. See General Regulations 9:3 for NHRA-accepted fire extinguishing agents.

TOW VEHICLES

Permitted. See General Regulations 9:12.

DRIVER: 10**ARM RESTRAINTS**

Mandatory in open-bodied cars and Funny Cars. See General Regulations 6:3, 10:3.

CREDENTIALS

Valid NHRA competition license mandatory. See General Regulations 10:4.

DRIVER RESTRAINT SYSTEM

Three-inch driver restraint system meeting SFI Spec 16.1 mandatory. All belts used in open-bodied front-engine supercharged methanol-burning vehicles must be covered with a fire-resistant covering. Restraint system must be updated at two-year intervals from date of manufacture. See General Regulations 10:5.

HELMET

For all closed-bodied cars, a full-face Snell M2005, M2010, K2005, SA2005, SA2010, SFI 31.2A, or 41.2A helmet mandatory; shield mandatory (goggles prohibited).

For all open-bodied front-engine or rear-engine supercharged, turbocharged, or nitrous cars, a full-face Snell SA2005, SA2010, or SFI 31.2A helmet and shield mandatory (goggles prohibited).

For all open-bodied naturally aspirated gasoline- or methanol-burning cars, a full-face Snell M2005, M2010, K2005, SA2005, SA2010, SFI 31.2A, or 41.2A helmet and shield mandatory (goggles prohibited). See General Regulations 10:7.

NECK COLLAR/HEAD AND NECK RESTRAINT DEVICE/SYSTEM

A head and neck restraint device/system meeting SFI 38.1 is mandatory and must display a valid SFI label. At all times that

the driver is in the race vehicle, from the ready line until the vehicle is on the return road, driver must properly utilize an SFI 38.1 head and neck restraint device/system, including connecting the helmet as required for full functionality of the device. The SFI 38.1 head and neck restraint device/system, when connected, must conform to the manufacturer's mounting instructions, and it must be configured, maintained, and used in accordance with the manufacturer's instructions. See General Regulations 10:8.

PROTECTIVE CLOTHING

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, except front-engine open-bodied vehicles with supercharger or turbocharger(s): Jacket and pants or suit meeting SFI Spec 3.2A/20, gloves meeting SFI Spec 3.3/15, and boots or shoes meeting SFI Spec 3.3/15 mandatory. An SFI 3.3 head sock or SFI 3.3 skirted helmet is required on all open-bodied cars or all cars 7.49 and quicker, where a neck collar is not used. See General Regulations 10:10.

SECTION 4C- E.T. MOTORCYCLE 7.50 (*4.50) seconds & slower

DESIGNATION

ET/MC, preceded by rider number. For motorcycles running 7.50 (*4.50) seconds or slower. Unaltered OEM production Can-Am Spyder three-wheel motorcycle permitted. All other three-wheel vehicles prohibited.

Competition structure will be conducted in an e.t. dial-your-own format. Competition with snowmobiles and other types of vehicles permitted.

Data recorders are permitted in Advanced E.T. and Super Pro only. Data recorders (except for "playback"-type tachometers) are prohibited in all other E.T. classes.

Computers (except for OEM) are prohibited in all E.T. brackets.

REQUIREMENTS & SPECIFICATIONS

ENGINE: 1

ENGINE

Must be stock-type engine specifically designed and manufactured for production motorcycle use. Snowmobile engines permitted. Automobile, aircraft, or marine engines prohibited. All engines must be self-starting; push or roller starts prohibited.

EXHAUST

Exhaust must be directed away from rider when in riding position.

FUEL

Racing gasoline, gasoline, gasohol, methanol, propane, natural gas, and ethanol permitted. Nitromethane prohibited.

FUEL SYSTEM

Fuel-shutoff valve mandatory.

INDUCTION

Any induction permitted. Electronic fuel injection must be closed, OEM-type system; i.e., may monitor only engine functions. Monitoring of vehicle performance criteria, wheel speed, driveshaft speed, vehicle acceleration, etc. by fuel-injection system prohibited. All aftermarket OEM-type electronic fuel

injection must be NHRA-accepted. A current list of NHRA-accepted electronic-fuel-injection systems is available on NHRAracer.com. Open-loop systems permitted on production motorcycles as equipped with OEM electronic fuel injection. See General Regulations 9:1.

NITROUS OXIDE

Commercially available nitrous oxide permitted. Bottles must be stamped with a 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 NHRA-accepted hoses. Commercially available, thermostatically controlled, blanket-type warmer accepted. Any other external heating of bottle(s) prohibited.

SUPERCHARGER/TURBOCHARGER

Permitted.

DRIVETRAIN: 2**CHAIN AND/OR BELT GUARDS**

Mandatory. Must have front and rear chain guards to cover the width and at least the top run to the centerline of the sprocket of any chains or belts. The clutch assembly must have at least half of the side surface covered. The guards should be .060-inch steel or 1/8-inch aluminum unless otherwise stock equipped and be securely mounted.

BRAKES & SUSPENSION: 3**BRAKES**

Operational front and rear brakes mandatory. Drilled disc brakes may be used if commercially manufactured or they meet the following requirements:

- A. The original diameter must be maintained.
- B. Minimum thickness: 3/16-inch.
- C. Maximum hole size: 1/2-inch with all holes countersunk.
- D. No two holes closer than 1 1/4 inches, center to center.
- E. Mechanical front disc brakes permitted in all classes.

CONTROLS

Handlebars must measure at least 22 inches overall with the grips removed. Snap-back throttle mandatory. Brake pedals must remain stock. Any shifter that can be operated from the foot-peg location with the foot on the peg will be permitted. Hand operation of the foot shifter prohibited; both hands must remain on the handlebars at all times. After leaving starting line the rider's feet must remain on the pegs. Electronic throttle stops and/or shifters permitted.

SUSPENSION

Front suspension must have a minimum of 1 1/2 inches of travel. Bolt on tie-down permitted on street legal motorcycle, without wheelie bars, only. Steering dampener permitted.

WHEELIE BARS

Optional. Maximum length may be equal to, but may not exceed, the wheelbase of the motorcycle. Wheelie-bar length is measured from center of rear axle to center of wheelie-bar wheel.

FRAME: 4**FRAME**

Must be motorcycle type. Scooters, mopeds, bicycle parts prohibited.

GROUND CLEARANCE

Minimum 2 inches.

TIRES & WHEELS: 5**TIRES**

Automotive tires permitted.

WHEELS

Automotive wheels permitted. Wheel studs on automotive-type wheels must project into hex part of lug nut by at least one diameter of the stud. See General Regulations 5:2.

BODY: 7**REAR FENDER**

Rear fender must cover the full width of the rear tire and extend behind the rear axle and forward below seat position.

ELECTRICAL: 8**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. See General Regulations 8:1, 8:3, 8:4, 8:5.

IGNITION SHUTOFF

Motorcycles 10.99 (*6.99) seconds or quicker must be equipped with a positive ignition cutoff switch attached to the rider with a lanyard. OEM cutoff permitted in place of lanyard. Switch must be on low-voltage side of the ignition circuit. Many stock machines are equipped with a handlebar-mounted thumb switch that can have a lanyard easily attached for the above purpose.

STARTER

All engines must be self-starting; plug-in electric starters permitted. Push or roller starts prohibited.

TAILLIGHT

One functional taillight mandatory. See General Regulations 8:6.

SUPPORT GROUP: 9**COMPUTER/DATA RECORDER**

Prohibited. See General Regulations 9:1, 9:2.

PRESSURIZED BOTTLES

Any pressurized container must be stamped with DOT-1800 pound rating and be securely mounted. Swing arm may be pressurized, maximum pressure 150psi. Gauge must be installed to monitor pressure. See General Regulations 9:8.

RIDER: 10**CREDENTIALS**

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

HELMET

Full-face Snell M2005, M2010, K2005, SA2005, SA2010, SFI 31.2A, or 41.2A helmet mandatory; shield mandatory (goggles prohibited). 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.

SECTION 4D - ADVANCED E.T. MOTORCYCLE

6.00 (*3.66) to 7.49 (*4.49) seconds

*Requirements and specifications for
Advanced E.T. Motorcycle are the same as
those for E.T. Motorcycle - Section 4C -
with the following exceptions:*

DESIGNATION

AD/MC, preceded by competition number.

For motorcycles running between 7.49 (*4.49) and 6.00 (*3.66) seconds. Handicapped start utilizing full Tree or Pro start.

REQUIREMENTS & SPECIFICATIONS

BRAKES & SUSPENSION: 3

BRAKES

Hydraulic brakes, front and rear, mandatory. Minimum sizes: front, 9-inch diameter x 1/8-inch width for dual rotors, 11-inch diameter x 3/16-inch width for single rotor. Rear, 10-inch diameter x 3/16-inch width. Steel-braided brake lines mandatory.

RIDER: 10

CREDENTIALS

Valid NHRA competition license mandatory: Class 2, Type D.

SECTION 4E - E.T. SNOWMOBILE

7.50 (*4.50) seconds & slower

DESIGNATION

SM, preceded by competition number.

For snowmobiles running 7.50 (*4.50) and slower. All snowmobiles must be factory-production assembled, showroom available, and in the hands of the general public.

Competition structure will be conducted in an e.t. dial-your-own format. Competition with motorcycles and other types of vehicles permitted.

Data recorders are permitted in Advanced E.T. and Super Pro only. Data recorders (except for "playback"-type tachometers) are prohibited in all other E.T. classes.

Computers (except for OEM) are prohibited in all E.T. brackets.

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

Must be specifically designed and manufactured for production snowmobile or personal watercraft use. Engine modifications permitted. Automobile, motorcycle, or aircraft engines prohibited.

COOLING SYSTEM

Quick-disconnect system permitted.

EXHAUST

Any functionally silenced exhaust permitted. Exhaust-system emission pipe must not protrude more than 3 inches beyond the chassis or hood. Exhaust-gas-temperature gauge permitted; may connect to exhaust system only.

FUEL

Racing gasoline, gasoline, and methanol permitted. Nitromethane prohibited.

NITROUS OXIDE

Commercially available nitrous oxide permitted. Bottles must be stamped with a 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 NHRA-accepted hoses. Commercially available, thermostatically controlled, blanket-type warmer accepted. Any other external heating of bottle(s) prohibited.

SUPERCHARGER/TURBOCHARGER

OEM permitted. Aftermarket prohibited except in eighth-mile.

THROTTLE

Throttle must be located in OEM location and must operate in OEM configuration.

DRIVETRAIN: 2**CLUTCH**

Must be specifically designed and manufactured for snowmobile use.

Chains, pulleys, belts, and exposed moving parts must be isolated from the driver and other competitors by securely mounted shield(s) capable of retaining all accidental explosions and component impacts. No holes may be drilled in protective shields.

OEM clutch covers/guards are permitted only when the unmodified OEM engine (or unmodified factory designated replacement) is used.

Modified engines require a clutch cover/guard that provides 360-degree elliptical coverage in the direction of clutch/belt travel. The clutch cover/guard must be minimum .090-inch 2024T3, 6061T6, or 7075T6 aluminum or .060-inch steel and be covered with securely fastened, 6-inch-wide, industrial-type belt. Belting material must be minimum 1/8-inch thick and minimum two-ply construction, with at least one side rubber-coated. Clutch cover/guard constructed of minimum .125-inch 2024T3, 6061T6, or 7075T6 aluminum or minimum .090-inch steel are exempt from the belting-cover requirement. Snowmobiles with bolted/removable side panels may have clutch cover/guard bolted to side panels. Clutch cover/guard must be separate from the cowl.

DRIVE TRACK

Track must be of a flat-type configuration. Paddles, studs, and/or spikes prohibited. Track must be OEM, OEM replacement, or NHRA-accepted aftermarket specifically designed for asphalt

competition. All snowmobiles 9.99 seconds or quicker must use aftermarket asphalt competition track. Track lubrication systems prohibited. Track must be free of visible signs of excessive wear. Manufacturer's logo and serial number must be retained and appear on left side of aftermarket competition tracks.

SKID FRAME

Skid frame must maintain OEM width. Wheels may be removed.

SKIS AND WHEELS

All drive and steering wheels must be of a rubber specifically designed for snowmobile use on a dry surface and installed so as to keep skis from coming in contact with racing surface. Maximum four wheels per ski permitted. Carbides prohibited. All skis must be OEM steel or aftermarket aluminum or steel. Aftermarket skis must be constructed according to the following minimum standards. Square angles on the side plate at the front of the ski are prohibited; must have beveled edge. See illustration.

E.T.

BRAKES & SUSPENSION: 3

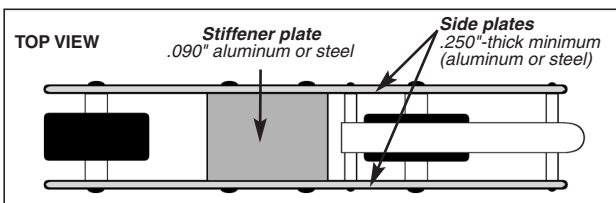
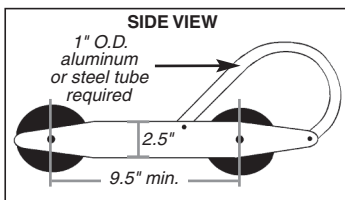
BRAKES

Must be OEM type. Any additional assembly must be added onto the drive axle shaft. Axle shaft may be lengthened to accommodate the additional brake.

SUSPENSION

All snowmobiles must have a minimum 1 inch of travel in the track suspension. Only steel springs will be permitted. Externally activated suspension systems prohibited.

Hyfax must be removed. Bogie wheels must be used on each side of the rear suspension to prohibit the slide rails from coming in contact with the rubber track surface. Use of any external slide-rail lubrication system prohibited. Steel coilover or leaf spring permitted.



CHASSIS: 4

CHASSIS

Chassis must be OEM stock qualified. Any modifications that alter the stock appearance of the tunnel are prohibited.

FUEL TANK

Aftermarket fuel tank may replace OEM fuel tank. Oil injection tank may be used as fuel tank. OEM appearance of snowmobile must be retained. Pressurized fuel tank prohibited.

SNOW FLAP

All snowmobiles must be equipped with an OEM rear snow flap for the specific model, fastened to the tunnel in a manner that prohibits the snow flap from being drawn into the rear tunnel enclosure (a simple W-shaped bracket fixed to the upper portion of the rear tunnel stops this).

BODY: 7**AIR DAMS, AIR FOILS, WINGS**

Frontal air dam permitted, vertical or rounded. Air dams or air foils may not extend forward of or outside of OEM body or engine cover. Must maintain 3 inches ground clearance. Fins or other forward protrusions prohibited.

WINDSHIELD

OEM-style windshield required.

WINGS

Prohibited.

ELECTRICAL: 8**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 downtrack rpm controller, prohibited. See General Regulations 8:2, 8:3, 8:5.

IGNITION SHUTOFF

Must be equipped with a positive ignition-cutoff switch, capable of de-energizing entire ignition system, attached to rider with a lanyard.

TAILLIGHT

One functional taillight mandatory. See General Regulations 8:6.

SUPPORT GROUP: 9**PARACHUTE**

Prohibited.

PRESSURIZED CONTAINERS

Prohibited.

BACKSTANDS

A clean-out procedure may be performed only on an accepted backstand. Backstand may not have any brushing or cleaning attachment that is used to brush or clean a rotating track. Track may be cleaned only by manual rotation. Cutoff lanyard must be attached to rider and machine anytime snowmobile is started and/or running.

RIDER: 10**CREDENTIALS**

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

HELMET

Full-face Snell M2005, M2010, K2005, SA2005, SA2010, SFI 31.2A, or 41.2A helmet mandatory; shield mandatory (goggles prohibited). See General Regulations 10:7.

PROTECTIVE CLOTHING

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

SECTION 4F - ALL-TERRAIN VEHICLE

7.50 (*4.50) seconds & slower

DESIGNATION

ATV, preceded by competition number.

For All-Terrain Vehicles (ATVs) running directly on the track surface. All ATVs must be of the four-wheel variety, factory-production assembled, showroom available, and in the hands of the general public. No three-wheel vehicles allowed.

Competition structure will be conducted on an E.T. dial-your-own format. Competition with motorcycles and snowmobiles permitted. Competition with any other type of vehicle prohibited.

Data recorders are permitted in Advanced E.T. and Super Pro only. Data recorders (except for "playback"-type tachometers) are prohibited in all other E.T. classes.

Computers (except for OEM) are prohibited in all E.T. brackets.

REQUIREMENTS & SPECIFICATIONS

ENGINE: 1

ENGINE

Must be OEM produced and built for ATV use. Automotive or aircraft engines prohibited.

EXHAUST

Any functionally silenced exhaust permitted. Exhaust must be directed away from rider when in riding position.

FUEL

Gasoline, methanol, or racing gasoline only. Nitromethane and/or nitrous oxide prohibited.

THROTTLE

Throttle must be located in OEM location and must operate in OEM configuration.

DRIVETRAIN: 2

CHAIN AND/OR BELT GUARDS

Modified engines require a clutch guard that provides coverage in the direction of chain travel. Must have front and rear chain guards to cover the width and at least the top run to the centerline of the sprocket of any chains or belts. The clutch assembly must have at least half of the side surface covered. The guards should be .060-inch steel or 1/8-inch aluminum unless otherwise stock equipped and be securely mounted.

BRAKES & SUSPENSION: 3

BRAKES

Must be OEM type. Any additional assembly must be added onto the drive axle shaft. Axle shaft may be lengthened to accommodate the additional brake.

SUSPENSION

Shocks and spring may be changed, must maintain OEM configuration.

WHEELIE BARS

Optional. Maximum length may be equal to, but may not exceed, the wheelbase of the All-Terrain Vehicle. Wheelie-bar length is measured from center of rear axle to center of wheelie-bar wheel.

CHASSIS: 4**CHASSIS**

Chassis/frame must be OEM stock qualified. Maximum wheelbase 60 inches, measured from centerline of front hub to centerline of rear hub. Any modifications that alter the stock appearance of the tunnel are prohibited.

FUEL TANK

Aftermarket fuel tank may replace OEM fuel tank. OEM appearance of All-Terrain Vehicle must be retained. Pressurized fuel tank prohibited.

TIRES & WHEELS: 5**TIRES**

Stock off-road tires permitted for eighth-mile competition only. Stiff sidewall street tires must be installed for quarter-mile application.

WHEELS

Automotive wheels permitted.

BODY: 7**AIR DAMS, AIR FOILS**

Air dams, streamlining equipment, spoilers, fairings, or frontal projections prohibited.

WINGS

Prohibited.

ELECTRICAL: 8**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. See General Regulations 8:2, 8:3, 8:5.

IGNITION SHUTOFF

Must be equipped with a positive ignition-cutoff switch, capable of de-energizing entire ignition system, attached to rider with a lanyard.

TAILLIGHT

One functional taillight mandatory. See General Regulations 8:6.

SUPPORT GROUP: 9**PARACHUTE**

Prohibited.

RIDER: 10**CREDENTIALS**

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

HELMET

Full-face Snell M2005, M2010, K2005, SA2005, SA2010, SFI 31.2A, or 41.2A helmet mandatory; shield mandatory (goggles prohibited). See General Regulations 10:7.

PROTECTIVE CLOTHING

Full all-leather or SFI Spec 40.1/2 suit mandatory for All-Terrain Vehicles running 120 mph or faster. Two-piece suits must be joined

at the waist with a metal 360-degree zipper. Jacket and pants or suit meeting SFI Spec 40.1/1 or 40.1/2 (or leather jacket), leather boots/shoes above the ankle, and leather gloves mandatory. Gloves must be Kevlar-lined or equipped with slide buttons. See General Regulations 10:10.

SECTION 4G - ELECTRIC-POWERED VEHICLE

7.50 (*4.50) seconds & slower

E.T.

*Requirements and specifications for
Electric-Powered Vehicle are the same as
those for E.T. bracket vehicles - Section 4A -
with the following exceptions:*

REQUIREMENTS & SPECIFICATIONS

MOTOR: 1

MOTOR

Electric motor(s) only permitted. Maximum height of electric-motor output-shaft centerline: 36 inches on OEM trucks, 24 inches on all others. Vehicles with exposed motors must have a shield of .024-inch steel, .032-inch aluminum, or .120-inch Lexan.

FUEL SYSTEM

All conversion vehicles must remove fuel tanks and fuel system, including vapor storage equipment, from vehicle.

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. Exposed-motor electric-powered vehicles with open-frame, vented, or brush replacement window motors must install a motor shield, minimum .024-inch steel or .032-inch aluminum, 360 degrees to provide protection from flying commutator bars, molten copper, plasma, etc. in event of motor overload. A motor plate, minimum 1/4-inch steel or 1/2-inch aluminum, may be used to adapt traction motor to conventional transmission.

DRIVELINE

Driveline loop mandatory on any non-OEM vehicle running 16.00 seconds or quicker. See General Regulations 2:4, 2:11.

REAR END

Chain-drive vehicles must be equipped with a chain guard constructed with minimum .125-inch steel or .250-inch aluminum, covering width and top run of chain to centerline of sprockets.

BRAKES & SUSPENSION: 3

SUSPENSION, STOCK-BODIED VEHICLES

OEM three-wheeled vehicles permitted.

FRAME: 4

DEFLECTOR PLATE, OPEN-BODIED VEHICLES

Each vehicle must have protection for driver from traction motor overload. Must protect driver from motor plasma, flying

commutator bars, molten copper, bursting batteries, and spraying electrolyte.

WHEELBASE

Minimum 90 inches, unless car has original motor or is a conversion electric-powered vehicle with motor in original (internal-combustion) location. For vehicles with a wheelbase shorter than 90 inches but greater than 40 inches, vehicle cannot exceed 50 mph at any point on the racetrack.

ELECTRICAL: 8

BATTERIES

Must be securely mounted and outside driver compartment. Batteries must be installed so as to withstand a force four times (vertical) and eight times (horizontal) the weight of the battery pack, and each battery or battery pack must be secured with bolts and straps commensurate with the size and weight of the battery. (Contact NHRA for requirements.) Battery may not be located above the top of rear or drive tires in open-wheeled cars, nor outside body lines in bodied car, except for OEM-production-line electric-powered vehicles. Battery(s) must be completely sealed from driver compartment. All open-bodied vehicles must use ABSORBED GLASS MAT, STARVED ELECTROLYTE, or SEALED VENTED NICAD batteries for power source. Traction-motor and/or high-current wiring may not be located in driver's compartment. Instrumentation wiring permitted. All traction-motor wiring must be isolated from vehicle chassis.

Battery on flat plate with strap only		Battery in rack/box or with cleats	
Bolt size	Battery weight	Bolt size	Battery weight
#8	6	#8	15
#10	7.5	#10	19
1/4	14	1/4	35
5/16	23	5/16	57
3/8	34	3/8	83
7/16	46	7/16	114
1/2	61	1/2	152
9/16	78	9/16	195
5/8	96	5/8	243

FUSING OF BATTERIES

All battery packs must have over-current protection. Circuit breaker(s) or fuse(s) permitted. Such protection devices must have a DC voltage rating equal to or greater than the nominal pack voltage. Current rating must be lower than a short-circuit current that pack can produce without damage. Battery sub-packs must be individually fused.

RECHARGING

Batteries may be recharged in pits or other designated areas only. All vehicles must be connected to AC power-supply (earth) ground when charging. All battery chargers must be equipped with an output fuse rated for 600 volts and a current capacity at least 125 percent of maximum charger DC output.

IGNITION

All vehicles must have a visible indication of a "live" car, except OEM. An externally activated switch or switch control must be installed on the outside of the vehicle and clearly marked to indicate OFF position. A RED triangle must be clearly visible whenever power system is turned ON. This may be a light or a mechanical indicator. Traction battery pack must be physically disconnected when switch is in the OFF position.

MASTER CUTOFF

All vehicles except OEM must incorporate a master electrical disconnect switch that must disable all electrical functions. Switch must disconnect traction-motor battery-pack section of the circuit, and if the switch is a push-pull design, push motion must be “off” function.

WIRING

All high-voltage wiring must be located and secured to prevent contact by driver and/or spectators. Any wiring with voltage higher than 24 volts must be completely covered.

E.T.

SECTION 4H - ELECTRIC-POWERED MOTORCYCLE

7.50 (*4.50) seconds & slower

*Requirements and specifications for
Electric-Powered Motorcycle are the same as
those for E.T. Motorcycle - Section 4C -
and Electric-Powered Vehicle - Section 4G -
with the following exceptions:*

REQUIREMENTS & SPECIFICATIONS

MOTOR: 1

MOTOR

Electric motor(s) only permitted.

ELECTRICAL: 8

BATTERIES

Wet (free-liquid) battery prohibited.

MASTER CUTOFF

All electric motorcycles must be equipped with a switch, attached to rider with a lanyard, capable of shutting off all power to electric traction motor.

SECTION 4I - LEGEND CARS

DESIGNATION

LC, preceded by competition number.

All Legend Cars must be manufactured by U.S. Legend Cars International (formerly 600 Racing Inc.) as “Stock” or “Original Equipment Manufacturer/OEM” or “Aftermarket” produced by INEX-approved manufacturer other than Original Equipment Manufacturer. Refer to U.S. Legend Cars International, 5245 NC Highway 49 South, Harrisburg, NC 28025.

The minimum car weight is 1,100 pounds. The minimum weight of the car with the driver is 1,300 pounds.

Any competitor running quicker than 12.50 e.t. in the quarter-mile or 7.99 e.t. in the eighth-mile or faster than 110 mph at any time will be disqualified from the event.

See additional rule requirements at the end of the Legend Cars section for the state of New Jersey.

Competition structure will be conducted in an E.T. dial-your-own format. Competition permitted with E.T. Motorcycles, E.T. Snowmobiles, All-Terrain Vehicles, or Legend Cars only. Competition with standard full-sized closed- or open-bodied vehicles, Jr. Dragsters, or Jr. Comp Dragsters is prohibited.

REQUIREMENTS & SPECIFICATIONS

ENGINE: 1

ENGINE SERIAL NUMBERS

The engine must remain a factory-stock Yamaha FJ1200/XJR1200 or a sealed Yamaha XJR1250 as currently delivered through 600 Racing Inc. A Yamaha FJ1200/XJR1200 from other countries (Canada, England, etc.) or an FJ1100 may only be used if it meets all the specifications of the U.S. model as delivered through 600 Racing Inc.

EXHAUST SYSTEM

The header and gasket must remain within the stock dimensions. Only INEX-approved S&S or Borla mufflers are MANDATORY. Mufflers must remain stock and may not be internally modified in any way (turning tip away from car is permitted).

CARBURETORS

The carburetors and components of the carburetors must remain as stock Yamaha.

OIL CATCH CANS

An oil catch can (maximum 1-quart capacity) may be used.

OIL COOLERS & LINE

Oil coolers must be cooled by air only. Aftermarket oil coolers are permitted.

FUEL

Only petroleum-based unleaded or leaded gasoline.

FUEL CELL

Approved fuel cells (plastic or metal) must be stock as delivered by 600 Racing.

FUEL FILTER

Aftermarket fuel filters may be used. No glass fuel filters will be permitted.

FUEL LINES

Fuel lines may not be located in or run through the driver's compartment of the frame. Steel-braided fuel lines are mandatory.

FUEL SHUTOFF VALVE OR FUEL REGULATOR

Aftermarket fuel shutoff valves and fuel regulators are permitted.

DRIVETRAIN: 2

CLUTCH

The clutch (plates and springs) may be replaced with any aftermarket type of the same design (no aluminum clutch plates).

TRANSMISSIONS

The transmission and transmission gears must remain stock Yamaha FJ1200/XJR1200/XJR1250 (sealed) as delivered by 600 Racing Inc.

REAR AXLES

The long and the short rear axles must remain stock. If one-piece axles are used, they must be stamped INEX and be as delivered by 600 Racing Inc.

REAR ENDS

Only 10-bolt pattern/wide flange (5/8-inch) Toyota, locked-steel rear ends are permitted.

DRIVESHAFT

The driveshaft, flanges, and U-joints must remain within the stock dimensions, steel thickness, location, and configurations as currently delivered by 600 Racing Inc.

DRIVESHAFT RETAINERS

An INEX-approved driveshaft retainer strap is permitted. A maximum of three (3) retainers of 1/4-inch thickness and 3/4-inch width are permitted.

E.I.

BRAKES & SUSPENSION: 3**BRAKES**

Any of the brake parts that are attached to the rear end or the spindles must remain stock, within the stock dimensions, steel thickness, location, and configurations as currently delivered by 600 Racing Inc.

BRAKE ROTORS

Only steel rotors (not drilled or reduced in diameter) are permitted on the front. The minimum permitted thickness of the brake rotor is 8mm wide.

BRAKE DRUMS

Only steel drums (not drilled or lightened) are permitted on the rear.

BRAKE & CLUTCH LINES

Rubber, hard-line or steel-braided brake and clutch lines are permitted.

STEERING WHEELS

Larger or smaller steel steering wheels are allowed, aluminum steering wheels are allowed. Racing-style, quick-release steering hubs are mandatory.

RACK & PINION STEERING

Only the rack and pinion steering box as currently delivered and stamped 600 Racing Inc. (or Mid-State Machine) is permitted.

FRAME: 4**FRAME**

Absolutely no modifications of the frame (including roll cage) will be permitted. All frames must have 600 Racing Inc. ID plate secured on the frame, inside left main framerail.

ROLL BAR PADDING

Roll bar padding SFI 45.1 on all bars within 12 inches of driver's helmet is required.

FIREWALL

A metal firewall is mandatory. Firewall must be installed as currently delivered by 600 Racing. Using a "thicker than stock" metal firewall is permitted.

WHEELBASE

All cars must compete with OEM wheelbase.

TIRES & WHEELS: 5**TIRES**

The tire must be a Legends Edition 205/60R13 BFGoodrich T/A Comp HR4. Tire may not be soaked, softened, siped (razor cuts), grooved, or recapped. The raised white letters of the BFGoodrich Tires logo must face toward the outside of the car and be visible at all times.

WHEELS

Any type of automotive steel wheel (no bead lock) as delivered by 600 Racing that has a 13-inch diameter and a 7-inch width and the offset of 3 inches to 3 1/4 inches from back rim edge to back of wheel center is permitted. The minimum weight of a tire and wheel must be at least 36.0 pounds without additional weights. All wheel weights must be covered with duct tape. Bleeder or relief valves are not permitted in the wheels.

INTERIOR: 6**SEATS**

Only INEX-approved factory-manufactured metal seats may be used.

BODY: 7**AERODYNAMICS**

Spoilers, air dams, or other aerodynamic devices are not permitted.

FIBERGLASS COMPONENTS

All fiberglass components must remain within the stock dimensions, thickness, location, and configurations as currently delivered by 600 Racing Inc.

HOOD

Hood louvers are permitted. Replacing the self-locking fasteners on the hood with pins permitted.

SHEET METAL

The minimum thickness of sheet metal is .036-inch. The rear-deck sheet metal (including the package tray behind the driver) may not be removed or altered in any way unless a fuel-cell access hole is used. The fuel-cell access hole must be covered with a sheet-metal plate and secured at all times when the car is on the track.

WINDSHIELDS/SCREENS

All cars must have either a screen or Lexan windshield.

ELECTRICAL: 8**BATTERY**

The battery must remain in its stock location and securely mounted. A battery shutoff switch is mandatory.

DELAY BOX/DEVICE

Prohibited. The use of throttle stops, delay devices, timed vehicle-control devices (counters, time displays, etc.) is prohibited. Data recorders prohibited.

IGNITION SYSTEM

The complete ignition/engine control system must be the original OEM parts for the Yamaha FJ1200/XJR1200/XJR1250. Electronic throttle (traction) controls are not permitted. In-line fuses only are permitted (no fuse blocks are permitted). Ignition pickup coil wires must run directly to the ignition box and may not be taped or tie-wrapped to other wires. No open wires or unused connectors allowed within reach of the driver.

Ignition Control Box: The stock FJ1200/XJR1200/XJR1250 ignition control box (black box) and the red ignition box (marked INEX-Approved and delivered by 600 Racing Inc.) are the only boxes permitted to be used, and they may not be altered or relocated in any way. Only one ignition box is permitted on a car (multiple boxes are illegal). The original stock FJ1200/XJR1200/XJR1250 rev-limiting system must be in proper working condition and may not exceed 10,500 rpm.

SUPPORT GROUP: 9**FIRE EXTINGUISHERS**

Onboard fire extinguisher required.

DRIVER: 10**CREDENTIALS**

Valid state, government-issued driver's license beyond a learner's-permit level, or NHRA competition licenses mandatory. Drivers must be at least 16 years of age. See General Regulations 10:4.

HELMET

Full-face Snell SA2005, or SFI 31.2A helmet mandatory.

FIRE-RETARDANT GLOVES

Fire-retardant gloves are mandatory. Gloves must have SFI 3.3/1.

FIRESUIT

All drivers must wear a fire-retardant suit or jacket and pant with SFI 3.2A/5.

SAFETY HARNESS

Three-inch driver restraint system meeting SFI Spec 16.1 mandatory. Must be updated at two-year intervals from date of manufacture.

RACING SHOES

Drivers must wear shoes SFI 3.3/1.

NECK RESTRAINT SYSTEM

Neck collar meeting SFI Spec 3.3 mandatory. An SFI-approved head and neck restraint device/system is permitted. When using a head and neck restraint device/system, at all times that the driver is in the race vehicle, from the ready line until the vehicle is on the return road, driver must properly utilize the SFI-approved head and neck restraint device/system, including connecting the helmet as required for full functionality of the device. The device/system must meet SFI Spec 38.1 and must display a valid SFI label. The head and neck restraint device/system, when connected, must conform to the manufacturer's mounting instructions, and it must be configured, maintained, and used in accordance with the manufacturer's instructions. A head and neck restraint device can be used with or without, a neck collar; when a neck collar is not used, an SFI 3.3 head sock or SFI Spec. 3.3 skirted helmet is required.

NEW JERSEY STATE REQUIREMENTS

The following modifications to a Legend Car are required to race in New Jersey:

- 1.) Steel plates welded onto existing passenger-side door.
- 2.) Nomex boot attached to seat back covering the existing safety harness hole.
- 3.) Fuel shutoff switch must be located on the top horizontal shelf behind driver's right shoulder on flat sheet metal. Switch must be clearly marked with red tape, ON - OFF.
- 4.) Plastic battery box.
- 5.) Pad on steering wheel.
- 6.) Remove threaded rods on existing fuel-cell bars and replace with 5/16-inch bolts through fuel-cell bar. Bushings must be installed in holes drilled for new bolts passing through fuel-cell bars.
- 7.) Add to the door strike plates with 3/16-inch-thick, 1 1/2-inch x 1 1/2-inch angle iron that is 5 inches in length. Weld the angle iron on each door strike plate so that the angle iron prevents the door from closing in toward the driver.