

# 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

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 NHRA.com. Open-loop systems permitted on production vehicles as equipped with OEM electronic fuel injection. See General Regulations 9:1.

#### 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.

E.T.

**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

## **4.4 Section 4A - Super Pro, Pro, Sportsman**

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 to 7.50 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.

E.T.

### **WHEELBASE (Jan. 6, 2010)**

Minimum 85 inches. 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**

Mandatory in any full-bodied car required by the rules to have a roll cage. 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

## 4.6 Section 4A - Super Pro, Pro, Sportsman

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 bellypan 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 4:1, 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. 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

## 4.8 Section 4A - Super Pro, Pro, Sportsman

---

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 M2000, M2005, M2010, K2005, SA2000, SA2005, 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 M2000, M2005, M2010, K2005, SA2000, SA2005, 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 M2000, M2005, M2010, K2005, SA2000, SA2005, 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 SA2000, SA2005, 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 M2000, M2005, M2010, K2005, SA2000, SA2005, 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.

### PROTECTIVE CLOTHING (March 1, 2010)

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.

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.

## 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.

**REAR END**

Aftermarket full-floating or live axle assembly mandatory on any vehicle that runs 6.50 and quicker, or 210 mph and faster. 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. Roll-cage padding meeting SFI Spec 45.1 mandatory anywhere driver's helmet may come in contact with roll-cage components. See General Regulations 4:1.

## 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.

**E.T.**

## 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.

## 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 (March 1, 2010)

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 front-engine, supercharged alcohol cars 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 M2000, M2005, M2010, K2005, SA2000, SA2005, 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 SA2000, SA2005, 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 M2000, M2005, M2010, K2005, SA2000, SA2005, 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. See General Regulations 10:8.

**PROTECTIVE CLOTHING (March 1, 2010)**

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 - TOP SPORTSMAN**

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

Class is for full-bodied side-steer-type vehicles only. Qualified fields with competition conducted in a dial-in E.T. format. Minimum 6.00-second dial-in; maximum 7.99-second dial-in (eighth-mile, minimum 3.66- to 5.29-second dial-in).

**DESIGNATIONS**

TS followed by car number. Number must be at least 4 inches high.

**MINIMUM WEIGHT:****Small-block combinations**

- Naturally aspirated: 1,900 pounds
- Nitrous assisted: 2,000 pounds
- Supercharged or turbocharged: 2,100 pounds

**Big-block combinations**

- Naturally aspirated: 2,200 pounds
- Nitrous assisted: 2,450 pounds
- Supercharged or turbocharged: 2,600 pounds

**6 Cylinder vehicles**

- Supercharged or turbocharged: 2,100 pounds

**4 Cylinder vehicles**

- Supercharged or turbocharged: 1,900 pounds

### **REQUIREMENTS & SPECIFICATIONS**

#### **ENGINE: 1**

**ENGINE**

Any internal combustion engine allowed with any modification. Only one engine may be used. No cubic-inch limit. Harmonic balancer meeting SFI Spec 18.1 mandatory.

**EXHAUST SYSTEM**

Competition exhaust systems permitted. Exhaust gases must be directed out of the car body, rearward, away from driver and fuel tank. If zoomies are utilized must be turned upward minimum 3 degrees.

**FUEL**

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

**FUEL SYSTEM**

No part of the fuel system may be mounted on firewall or in flywheel/flexplate area. If fuel tank/cell is mounted in rear, it must be vented to the outside of the body and equipped with a flash shield