

NITRO Category – Fixed Index

Nitro eliminator combines three classes of nitromethane burning front engined dragsters, funny cars and altereds using a common fixed index. For quarter mile events the fixed index is 6.50 seconds, for eighth mile events the fixed index is 4.00 seconds (refer Note #1 at bottom of page). Heads up, pro start. Chicago-style shootout format.

Class designations: *AA/FD, AA/FC, AA/FA*

Eliminator; *Top Eliminator* (name subject to change).

Nitro Top Fuel (AA/FD).

Reserved for front-engine supercharged, nitro-burning dragsters built specifically for all out drag racing competition.

Class Regulations

- a) **Air Foils:** Side-mounted canard-type units permitted, securely mounted below the headers and in front of rear tires. Front wing permitted. Canards may not extend more than 2 inches outside rear tire. Front wing must be below front tyre. Canards and front wings only aerodynamic surfaces allowed. Maximum overhang limited to 30 inches (760mm).
- b) **Tyres:** Rear tyres are limited to a maximum 14 inches (355mm) width as per tyre manufacturers tyre sidewall displayed measurements.
- c) **Wheelbase:** Minimum: 150 inches (3810mm). Maximum: 225 inches (5725mm) on long side. Maximum wheelbase variation from left to right: 2 inches (50mm).

Nitro Funny Car (AA/FC).

Up to and including 1980 Australian and American bodies, nitro-burning Funny Cars built specifically for all out drag racing competition.

Class Regulations

- a) **Body:** Replica of Australian or American made 1955 to 1980 automobile required. Body must resemble the original manufactured mass produced make and model. Bodies may be made of fiberglass or composite material and must lift off as a one-piece unit. Front fender bubbles allowed, maximum 3 inches (75mm). The body may be shortened or lengthened a maximum of 15% of original dimensions. Injector opening in the windshield cannot exceed 50% of windshield height. ALL bodies for use in this category, refer Note #2 at bottom of page.

- b) **Spoilers:** Rear spoiler size limited to roof height, and no wider than body width. Late model utility bed type spoilers and spill plates prohibited. Front spoiler and overall front overhang limited to 35 inches (890mm), measured from the centerline of the most forward spindle. The front and rear spoilers are the only aero devices allowed, no other wings, spoilers or canards allowed.
- c) **Wheelbase:** Minimum: 115 inches (2920mm). Maximum: 125 inches (3175mm) on long side. Maximum wheelbase variation from left to right: 2 inches (50mm).
- d) **Side Windows:** Must not be enclosed.
- e) **Roof Hatch:** required, see ANDRA Safety Regs.

Nitro Fuel Altered (AA/FA).

Reserved for pre-1949 altered replicas of production automotive bodies, nitro burning Fuel Altered built specifically for all out drag racing competition.

Class Regulations

- a) **Wheelbase:** Minimum: 110 inches (2795mm). Maximum: 125 inches (3175mm) on long side. Maximum wheelbase variation from left to right: 2 inches (50mm)
- b) **Bodies:** These must bear resemblance to original styled bodies used. Later model swoopy styled bodies not permitted, refer #2 at bottom.

All Nitro Eliminator (AA/ **) classes:

Engine:

- a) **Engine:** Any automotive type internal-combustion engine permitted. Billet blocks and heads allowed.
- b) **Fuel:** Nitro methane and methanol fuels permitted. Minimum of 70% Nitro methane required. Fuel additives and/or nitrous oxide system is strictly prohibited. Any other fuels prohibited.
- c) **Fuel System:** One single fuel pump permitted only. Fuel pump output limited to 21 GPM, including any overdrive. See list of approved and recommended fuel pumps below. Pumps other than this, refer Note #2 at bottom of page. All fuel-system changes, other than fuel-pressure-operated check valves, must be by manual control operated by the driver. All cars must have a fuel shut-off functional from the driver's seat. Fuel tanks must be mounted above the lower frame rail. Fuel tank and fuel lines must be within the confines of the frame and be protected from coming in contact with the track surface. Fuel tanks must be equipped with a positive locking screw-on cap. Fuel lines in the driver's compartment prohibited except for a fuel pressure gauge. If used, lines must be steel or steel-braided with steel fittings. A maximum of 24 nozzle jets allowed, 8 in the injector, 16 in the manifold. Y-nozzles (8) may be used in the manifold in lieu of individual nozzles, but are still limited to 16 nozzle jets. Down nozzles prohibited. No composite materials in injector hat and/or scoop (composite

materials include, but are not limited to, carbon fiber, kevlar and weave graphite fiber). Injector hat or scoop must be nostalgic in appearance. Internal modifications allowed. Injectors other than suggested/listed above, refer Note #2 at bottom.

Approved and recommended fuel pumps.

(Any fuel pump not listed, please refer Note #2 at bottom of page).

Manufacturer: Model: Manufacturers GPM rating:

Hilborn F.I.	Dash -4	19 GPM
Enderle F.I.	1100	19 GPM
Enderle F.I.	1200	19 GPM
Enderle F.I.	1270	20 GPM
Waterman R.C.	320950	21 GPM
Waterman R.C.	320950N	21 GPM

- d) **Ignition:** Limited to a single magneto with one coil and one spark box. Max magneto limit: MSD 44. No chips or computer-type ignition allowed. Timing retard must be a function of the driver by mechanical or pneumatic means only (e.g., activate retard/advance system through wide-open throttle switch).
- e) **Lower Engine Containment Device:** Diapers mandatory (refer ANDRA regs), plus must be fitted with an engine oil retention belly pan (EG: Minimum of 100mm high to extend past crank hub and to rear of oil pan).
- f) **Supercharger:** Limited to a single Roots type 6-7:1 or 8-7:1 blower. Rotor helix angle limited to standard 71 series GMC-type rotor (60-degree). Supercharger overdrive limited to 25% max. Blower restraint; SFI Spec 14.3 mandatory. Manifold burst panel; SFI Spec 23.1 and aluminum blower studs mandatory. Supercharger belt guard to protect all fuel, oil and water lines required. Set-back superchargers not permitted in any form. Manifolds are limited to a maximum manifold height of 8 inches as measured from valley gasket surface to blower mounting surface. Supercharger belt guard mandatory. Turbochargers, screw-type superchargers, and centrifugal-type superchargers prohibited.
- g) **Valve covers:** Cast or fabricated metal/alloy valve covers required; all attachment nuts/bolts mandatory. Carbon fiber/composite valve covers prohibited.

Drive Train

- a) **Clutch, Flywheel, Flywheel shield:** Clutch assembly limited to a maximum 3-discs and 6-fingers. Clutch must be manually operated by the driver. No ratchets or staged systems allowed. Clutch management system prohibited. Recognised racing converter drive units (e.g: Lencodrive, Bruno, etc) refer #2 at bottom.

- b) **Rear Axle:** Full floating hubs or live-axle rear end required and must be secured with an anti-rotation device as per ANDRA regs.
- c) **Transmission:** Transmission optional, two forward speeds maximum for any class. Reverser mandatory. Transmission must be a planetary design. Powerglide or OEM stock type transmissions prohibited. SFI Spec 4.1 blanket mandatory for transmission and reverser. Vehicles must employ some positive system to disengage engine from final drive.
- d) **Wheels:** Non bead lock wheels must be used with inner tube and safety liner.

Driver and Safety

- a) **Arm restraints:** Refer ANDRA regs.
- b) **Delay devices:** Not permitted.
- c) **Driver:** Must sit behind engine. Any car which has no cross member above the drivers legs should have a strap or device to prevent the driver's legs from projecting outside the chassis. AA/FD: Centre steer only. Driver must be 'seated' behind rear axle. AA/FC: Centre steer only. Driver's seat must be located within the confines of the cars passenger area, not in the engine compartment or boot. AA/FA: Centre steer only. Drivers body must be completely within the cars body contour and no part of the driver may extend behind the rear axle.
- d) **Fire extinguisher system:** All vehicles with an enclosed alloy, fiberglass or composite body must be fitted with an on board fire extinguisher system as per ANDRA regs. All fire bottles used in on board flooding systems will require inspection and certification by a recognized authority every two years. Refer ANDRA regs.
- e) **Helmet:** Required. Refer ANDRA regs.
- f) **License Requirements:** Must hold a current Group One ANDRA Drag Racing Licence. Refer ANDRA regs. Contact your ANDRA representative regarding licensing in your particular vehicle.
- g) **Neck collar:** Required. Approved Head and Neck restraint system in place of neck collar permitted.
- h) **Night lighting:** Required. Refer ANDRA regs.
- i) **Parachutes:** Dual parachutes mandatory with separate shroud line attachments. Fire-resistant protective covers must be on all parachute packs and exposed shroud lines.
- j) **Protective Clothing:** Required. Refer ANDRA regs.
- k) **Safety Belts:** Required. Refer ANDRA regs.
- l) **Self Starting:** Required. Push starts not permitted.
- m) **Technical Inspection:** Required. Refer ANDRA regs. All vehicles must have a current ANDRA Log Book and Tech Inspection sticker.

Please Note; *You are urged to source the latest version of the SFI Specs before commencing on a chassis for this form of racing. SFI specs will differ greatly from normal racing specs for this form of racing.*

Any rule or item if not listed above must be referred back to the ANDRA Rule Book for clarification. All vehicles must conform to the spirit of the rules and the concept.

Note #1; The fixed indexes listed herein are applicable till car counts and E.T.'s dictate otherwise.

Note #2; With all of the references to Note #2, all these clarifications are to be done by a rules panel made up of the racers and or delegates of this particular bracket. In reference to F/C bodies, please take the time to source the relevant information before starting your project. There is no way that we want to limit the numbers, but more to keep body styles as close as possible to what was replicated during this era.