

# **Australian Nostalgia Fuel Association Inc.**

## **Nostalgia Fuel Funny Car**

### **DESIGNATION**

AA/FC preceded by number.

Reserved for 1955 up to and including 1980 bodies, Nitro-burning Funny Cars built specifically for all-out drag racing competition.

Any reference to the ANDRA rules are found in the current ANDRA Rule Book for season 2015-2016.

*(Rules will be constantly reviewed subject to performance and safety).*

### **REQUIREMENTS & SPECIFICATIONS:**

#### **CYLINDER HEADS**

Alloy and billet heads allowed. Accepted billet heads and block must remain as manufactured. Machining of billet heads or billet blocks to reduce weight is prohibited.

Chrysler 426 is limited to stock valve angle heads only (eg; No FAT heads etc).

#### **ENGINE**

Any internal-combustion, Only American-made automotive Big Block type V8 Pushrod-type engines permitted; Chrysler 392 based/Chrysler 426 based/Big Block Ford based and Big Block Chevy (incl Arias).

Any other engines will be considered by submission.

Maximum cubic inches 500. Blocks and cylinder heads must retain all physical characteristics of stock-production components. Billet blocks allowed. Machining of billet blocks to reduce weight is prohibited.

#### **IGNITION**

Any type of points magneto and associated coil allowed. Single magneto & coil only. No mechanical, pneumatic or electronic ignition advance or retard devices are permitted. Fixed position magnetos only.

A positive ignition shutoff within the reach of the driver is mandatory.

#### **LOWER CONTAINMENT**

Engine must be equipped with an *SFI Spec 7.1* or equivalent lower-engine-ballistic/restraint device.

In addition, a fabricated metal oil containment device, designed to hold oil within the frame rails without spilling oil on the racing surface is required. The device should run from the rear motorplate to a minimum of 1 inch forward of the front seal.

Steel oil pans highly recommended.

Dry sump system required after 1/1/2013

#### **EXHAUST SYSTEM**

Exhaust must be directed away from driver.

Double pipe insulated exhaust headers mandatory. Double exhaust tube must extend to start of bend at bottom of body.

#### **FUEL**

Nitromethane (70% minimum) and methanol permitted. All other fuels prohibited (NO Nitrous Oxide).

#### **FUEL SYSTEM**

There are 2 fuel pumps available for this class. The Enderle 1270 cast alloy pump (21 gpm) and the Waterman billet pump part no; 32100N (1.200" gear case x 1.000" gear set maximum which will equal 22.8 gpm).

No additional fuel delivery system allowed.

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 lines as per *ANDRA regs. 4.1.8.2*.

Must have fuel shutoff operable from the driver's seat.

Fuel tank must be equipped with a positive locking screw-on cap.

Maximum number of nozzles 24 (maximum 8 in injector hat, 16 in manifold).

Y-nozzles may be used in lieu of individual nozzles in the manifold; limited to 16 nozzle jets.

Down nozzles prohibited.

Air intake limited to 50 square inches including shafts. No Buzzard or Big Ugly injectors. No composite materials (i.e., carbon fiber/Kevlar, graphite, etc.) can be used in injector hat and/or scoop. Hat/scoop must be nostalgic in appearance, internal modifications allowed.

High speed leanout system allowed.

#### **MINIMUM WEIGHT**

After a pass, the car with fully equipped driver must weigh a minimum of 2300 pounds (1046 kgs).

## **SUPERCHARGER**

Restricted to Roots-type supercharger; rotor helix angle not to exceed that of standard 71-series GM-type rotor. High-helix blowers and/or billet case blowers prohibited. 6/71 to run 19% overdrive max. 8/71 to run 15% overdrive max. All vehicles to use 6/71 superchargers after 1/1/2013. Set back blowers prohibited. Manifolds must be cast not fabricated. Maximum movement from front stud location on any manufacturer's "standard style" manifold is 1.5 inches from the centre of the stud. Supercharger restraint system meeting *SFI 14.3*.

Aluminium studs required. Manifold burst panel meeting *SFI Spec 23.1* mandatory. Turbochargers, screw-type superchargers, and centrifugal-type superchargers prohibited.

## **THROTTLE**

Throttle control must be manually operated by driver's foot; electronics, pneumatics, hydraulics or any other device may in no way affect the throttle operation. Throttle must incorporate a positive-action return system. Refer *ANDRA regs 4.1.15*. (Also see attached throttle specifics in 'Body' listed below).

## **VALVE COVERS**

Cast or fabricated metal valve covers using all attachment bolts mandatory. Carbon fibre/composite valve covers prohibited.

## **VENT-TUBE BREATHERS**

Vent tubes must be double clamped at each connection. Minimum diameter, 1 1/4 inches for all breather tubes. All quick connections in the system must have a secondary locking system (tape, wire ties, etc. not allowed). Minimum catch-can(s) capacity is an 8-quart sump. Catch can(s) must be mounted behind driver and have adequate internal baffling to prevent oil from being deposited on racing surface. Refer *ANDRA regs 4.1.9*. Dry sumps currently highly recommended on funny cars. (Mandatory as of 01 Jan 2012).

## **CLUTCH, FLYWHEEL, FLYWHEEL SHIELD**

Flywheel and clutch meeting *SFI Spec 1.3 or 1.4* and flywheel shield meeting *SFI Spec 6.2* mandatory. Clutch management system prohibited. Maximum number of discs three, maximum number of fingers six. All clutches must incorporate a clutch pedal. Release of clutch must be the result of a manual operation by the driver's foot. No staged systems allowed. Engine plate to be minimum of 6061-7075 aluminium or 4130 chrome moly.

## **DRIVELINE COVER**

Driveline must be covered in .062 chrome moly steel or .125-inch 6061 aluminium 360-degree full cover. Couplers mandatory. Rear cover must surround the coupler. Front cover must surround the driveshaft from the back of the reverser to behind the front edge of the seat, through the bulkhead panel. Protective shield required beneath driver's seat. (All covers must be securely mounted to frame, either by a suitable cross member or third member, refer *ANDRA specs 4.2.4* as minimum).

## **REAR END**

Rear-end gear ratio limited to 3.89:1 or numerically higher (eg; 4.1 or 4.3). Aftermarket full-floating or live axle assembly mandatory.

## **TRANSMISSION**

A maximum of 2 speed (one planetary) optional, reverser required. Transmission must be planetary-type Design (Lenco or B&J). OEM or Powerglide-type units prohibited. A ballistic shield covering all units mandatory; must meet *SFI Spec 4.1*.

## **BRAKES**

11" x 4 piston aftermarket rear wheel brakes mandatory - refer *ANDRA regs 4.3.1*. Application and release of brakes must be a function of the driver. Electronics, pneumatics, or any other device may in no way affect or assist brake operation. Hand brake, if used, must be located inside body or driver compartment. Steel brake lines mandatory. Front brakes mandatory on vehicles using rigid or A arm style fronts ends. Front brakes may be unsuitable on true Nostalgia style front ends due to mechanical strength and handling characteristics associated with

Nostalgic front axle designs, therefore if using rear wheel brakes only it is highly recommended to use a carbon fibre discs brake assembly.

### **SHEET METAL**

All sheet metal within the driver compartment must be aluminium or steel.  
Magnesium prohibited.

### **STEERING**

Conventional automotive-type rod ends (moly or hi-tensile) must be a minimum of 3/8-inch shank diameter and must be installed with washers to prevent bearing pullout.  
Removable steering wheel, if used, must meet *SFI Spec 42.1*.

### **BALLAST**

Permitted. All as per *ANDRA Specs 4.4.2*.

### **GROUND CLEARANCE**

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

### **PARACHUTES**

Dual parachutes mandatory. Fire-resistant protective covers must be on all parachutes packs and unpacked shroud lines. Refer *ANDRA regs 4.4.6*.

### **ROLL CAGE**

*SFI Spec 10.1E*

Chassis and roll cage built to these specifications are suitable for Nostalgia racing classes only

### **SUSPENSION**

Rigid rear suspension mandatory. Front suspension optional.

### **WHEELBASE**

Minimum: 118 inches. Maximum: 125 inches on long side.  
Maximum wheelbase variation from left to right: 2 inches.

### **TYRES**

Race-only spec tyres on front mandatory. Size of rear tyres limited to a maximum of 34.5-inch diameter x 17-inch wide.

### **WHEELS**

Must be either beadlock design or use of a liner mandatory on non-beadlock wheels.

### **UPHOLSTERY**

Optional. If used, must be of a suitable fireproof material. Refer *ANDRA regs 4.6.1*.

### **BODY**

FC Bodies limited to Automotive style from 1955 up to and including 1980.

Bodies must resemble the original mass-produced make and model. Bodies may be made of fibreglass or carbon fibre (Car and fully equipped driver must weigh a minimum of 2300 pounds after a pass). Body must lift off as a one-piece unit. Minimum body width is 60 inches, measured at the centreline of the front and rear axle. Maximum lowering of roof height 2 inches. Front fender bubbles allowed, maximum 2 1/2 inches. The body may be shortened or lengthened a maximum of 15 percent of original dimensions.

Injector box in windshield cannot exceed 50 percent of windshield height.

A protective means is required to prevent accidental operation of throttle when opening or lowering body (eg a shield over throttle linkage or adequate clearance to body)

Fireproof body undercoat required, with manufacturer's sticker required on the body.

Any modifications to body not described are prohibited.

All vehicles in competition are to display a nostalgia themed name for the vehicle. Corporate sponsorship is to be secondary. All names will be ratified by ANFA which will keep a register of names.

(The ANFA welcome submissions on any other body styles. Bodies **MUST** retain nostalgic overall appearance-period correct bodies should be used).

### **ESCAPE HATCH**

A working escape hatch must be installed in top of body to permit easy driver exit, see-through types prohibited. Minimum size, 18 inches x 17 inches. Roof hatch must be permanently attached and hinged at front.

### **FIREWALL & FLOORS**

Engine plate to be minimum of 6061-7075 aluminium or 4130 chrome moly. Firewall must completely seal driver from engine compartment. Magnesium prohibited.

### **SPOILER**

Allowed front and rear. Rear spoiler limited to roof height and body width (no modern-type spoilers or spill pates permitted). Front spoiler limited to overall overhang measurement of 40 inches overhang when measured from the centre line of the forward-most spindle. No splitters or other extension devices allowed. The front and rear spoilers are the only aerodynamic devices permitted. Period correct appearance is required for F/C.

### **COMPUTERS**

Computers prohibited.

### **DATA RECORDERS**

Data recorders permitted. Cannot perform any function in fuel, clutch, or driver management.

### **FIRE EXTINGUISHER SYSTEM**

Refer *ANDRA regs 4.9.4.1* .

### **DRIVER RESTRAINT SYSTEM**

Refer *ANDRA regs 4.10.11*.

### **HEAD AND NECK RESTRAINT DEVICE/SYSTEM**

Refer *ANDRA regs 4.10.7.2*.

### **HEAD PROTECTOR**

Refer *ANDRA regs 4.10.7.1* .

### **PROTECTIVE CLOTHING**

Refer *ANDRA regs 4.10.10* .

*NB; Please read and note the following conditions.*

- 1) All rules listed above come into operation on 01-01-2016.
- 2) Any Safety Updates can and will be included immediately.
- 3) It is highly recommended that during the start up and licensing procedure that a person with Nitromethane experience accompany your team every step of the way. This will only progress your path to full competition status in a timely manner.