

# **Australian Nostalgia Fuel Association Inc.**

## **Nostalgia Front Engine Dragster**

### **DESIGNATION**

**AA/FD**, preceded by number.

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

Any reference to the ANDRA rules are found in the current ANDRA Rule Book for season 2012/2013.

After a pass, the car with fully equipped driver must weigh a minimum of 1800 pounds (819 kgs).

*(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 470. 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. The device should run from the rear motorplate to a minimum of 1 inch forward of the front seal.

Steel oil pans highly recommended.

#### **EXHAUST SYSTEM**

Exhaust must be directed away from driver.

#### **FUEL**

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

#### **FUEL SYSTEM**

One single cast alloy fuel pump ONLY is acceptable, up to maximum output of 21gpm at 4000 pump rpm (Enderle 1270 is the specified pump allowed). No additional fuel delivery system permitted.

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.

#### **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. 6.7:1 to run 19% overdrive max. 8.7:1 to run 15% overdrive max. Vehicles currently fitted with 8/71 superchargers that competed during 2012 have until 1/1/2017 to change to 6/71. Any replacement superchargers are to be 6/71. All new vehicles restricted to 6/71. 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.  
Manifolds must be cast aluminium, not fabricated.  
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*.

### **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*.

### **DRIVETRAIN: 2**

#### **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. All covers must be securely mounted to frame, either by a suitable crossmember or third member. See *ANDRA regs 4.2.4*.

### **REAR END**

Any rear-end gear ratio permitted.  
Aftermarket full-floating or live axle assembly mandatory.

### **TRANSMISSION**

Direct drive permitted.  
Proprietary planetary transmission (EG; B&J, Lenco) with maximum of two forward speeds permitted and must be fitted with a ballistic blanket that meets ANDRA specifications. Automatic transmissions are not permitted. OEM transmissions not permitted.  
Reverser mandatory.

### **REVERSER SHIELD**

A one-piece 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.

### **SHEET METAL**

All sheet metal within the driver compartment must be aluminium or steel.  
Magnesium prohibited.  
All vehicles in competition are to display a nostalgia themed name for the vehicle. Corporate sponsorship is to be secondary. All names are to be ratified by ANFA which will keep a register of names.

### **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*.

### **AIRFOILS**

Side-mounted canard-type units permitted, securely mounted below the headers and in front of rear tyres. Front wing permitted. Maximum canard wing surface 450 square inches per side. Canards may not extend more than 2 inches outside rear tyre.

### **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 parachute packs and unpacked shroud lines. Refer *ANDRA regs 4.4.6* .

### **ROLL CAGE**

*SFI Spec 2.2B*

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: 170 inches. Maximum: 225 inches on long side.

Maximum wheelbase variation from left to right: 2 inches.

### **TIRES**

M&H & Hoosier N/TF Spec Tyres only.

### **WHEELS**

Minimum width: 10 inches. Maximum width: 12 inches, or as determined by spec tyre requirements. Bead locks or liners mandatory.

### **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 01-01-2013.
- 2) Any Safety Updates can and will be included immediately.
- 3) Injected Nitro (No Blower) Front Engine Dragsters will be eligible, and will use designation A/FD.
  - a. 2 speed planetary reverser (such as Lenco, B&J) permitted. No Powerglides
  - b. After a pass, car and fully equipped driver must weigh a minimum of 1800 pounds.
- 4) 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.

