

## 3.15 TOP ALCOHOL

- ◇ **NOTE:** Except where permitted by Class Regulations, any competitor found to be employing reactive traction systems or devices by any means will be subject to a twelve (12) month suspension and a fine of \$15,000.
- ◇ **NOTE:** Competitors wishing to avoid having their engines inspected at events are encouraged to have their engines verified and sealed prior to the event by an ANDRA Official.
- ◇ **NOTE:** ANDRA will continue to review current SFI specification levels required of Group 1 categories to ensure that levels are improved through consultation and advance warning given to competitors of any changes.

### CLASS DESIGNATIONS: TA/FC, TA/D, TA/A HEADS UP - PRO-TREE START

**ELIMINATOR:**

**TOP ALCOHOL**

#### Class Description;

Top Alcohol combines Supercharged Ethanol or Methanol fuelled vehicles from the Dragster, Funny Car and Altered classes, running Heads Up. At events where a Top Alcohol bracket is not posted, these vehicles will be eligible for Competition Eliminator, using their respective ANDRA National Class Index.

#### Class Details;

#### Weightbreaks/ Supercharger Overdrive Limits;

In order to maintain parity among the different vehicle types, ANDRA has developed a range of weight and Supercharger limits. These can be subject to amendment with 28 days notice to current competitors, if deemed necessary by ANDRA. Apart from the following items, relevant requirements of the Dragster, Funny Car and Altered Class Regulations, the General Regulations apply. The rounding up of Supercharger Overdrive calculations is not be permitted.

#### 3.15.1 TOP ALCOHOL FUNNY CAR - TA/FC

##### Screw Supercharged Vehicles

Minimum Weight:	1043.26 kg (2300 lbs) including driver.
Weightbreak:	110.72 kg/litre (4.00 lbs/cube).
Rotor Diameter:	No greater than 215.9 mm (8.5 inches).
Overdrive Limit:	125% maximum.
Rotor Diameter:	Greater than 215.9 mm (8.5 inches).
Overdrive Limit:	60% maximum.

##### Rootes Supercharged Vehicles

Minimum Weight:	1043.26 kg (2300 lbs) including driver.
Weightbreak:	110.72 kg/litre (4.00 lbs/cube).
Rotor Length:	Maximum 508 mm (20 inches).
Case Width:	Maximum 286 mm (11.25 inches).
Overdrive:	70% maximum.

- ◇ **NOTE:** Maximum permitted bore spacing is 4.900 inches.

### 3.15.2 TOP ALCOHOL DRAGSTER - TA/D

All Hemi, canted valve and all engines with more than two valves per cylinder and all engines over 400.00 cubic inch.

#### Screw Supercharged Vehicles

Minimum Weight:	771.10 kg (1700 lbs) including driver.
Weightbreak:	121.80 kg/litre (4.40 lbs/cube).
Rotor Diameter:	No greater than 215.9 mm (8.5 inches)
Overdrive Limit:	0.00400 x Ci displacement, 125% maximum.
Rotor Diameter:	Greater than 215.9 mm (8.5 inches).
Overdrive Limit:	0.00284 x Ci displacement, 60% maximum.

#### Rootes Supercharged Vehicles

Minimum Weight:	771.10 kg (1700 lbs) including driver.
Weightbreak:	121.80 kg/litre (4.40 lbs/cube).
Rotor Length:	Maximum 508 mm (20 inches).
Case Width:	Maximum 286 mm (11.25 inches).
Overdrive:	Maximum 70%.

Engines up to 400.00 cubic inch using "in line" wedge cylinder or canted valve heads, be limited to 121.80 kg/litre (4.40 lbs/cube) or more, minimum weight 771.1kg (1700 lbs) including driver.

#### Screw Supercharged Vehicles

Minimum Weight:	771.10 kg (1700 lbs) including driver.
Weightbreak:	121.80 kg/litre (4.40 lbs/cube).
Rotor Diameter:	Maximum 215.9 mm (8.5 inches).
Overdrive Limit:	0.00434 x Ci displacement, 125% maximum.
Rotor Diameter:	Greater than 215.9 mm (8.5 inches).
Overdrive Limit:	0.00309 x Ci displacement, 60% maximum.

#### Rootes Supercharged Vehicles

Minimum Weight:	771.10 kg (1700 lbs) including driver.
Weightbreak:	121.80 kg/litre (4.40 lbs/cube).
Rotor Length:	Maximum 508 mm (20 inches).
Case Width:	Maximum 286 mm (11.25 inches).
Overdrive:	Maximum 70%.

◇ **NOTE: Maximum permitted bore spacing is 4.900 inches.**

### 3.15.3 TOP ALCOHOL ALTERED - TA/A

#### Screw Supercharged Vehicles

Minimum Weight:	771.10 kg (1700 lbs) including driver.
Weightbreak:	107.95 kg/litre (3.90 lbs/cube).
Rotor Diameter:	Maximum 215.9 mm (8.5 inches).
Overdrive Limit:	125%.
Rotor Diameter:	Greater than 215.9 mm (8.5 inches).
Overdrive Limit:	Maximum 60%.

#### Rootes Supercharged Vehicles

Minimum Weight:	771.10 kg (1700 lbs) including driver.
Weightbreak:	107.95 kg/litre (3.90 lbs/cube).
Rotor Length:	Maximum 508 mm (20 inches).
Case Width:	Maximum 286 mm (11.25 inches).
Overdrive:	Maximum 70%.

#### All Top Alcohol Classes - Class Regulations;

**Clutch:** The use of two-stage clutch systems incorporating a lock-up function is permitted where a maximum of six pressure plate fingers are used with no more than two finger heights. Activation may be applied manually by switch or air button by the driver or by the use of a pre-set timer (electronic or pneumatic) connected by a switch from the clutch pedal, throttle pedal or gear shift. The lock-up mechanism must be a visible externally mounted pneumatic servo or "rat-trap" system which engages the second stage by releasing the clutch pedal to its fully engaged position in one immediate action. The use of any other form of switching is not permitted and activation of the clutch system must otherwise be by the driver's foot. All pneumatic lines and fittings must be a minimum orifice size of .060 inch (1.5 mm). The use of computer assisted (reactive) activation in any way is considered employment of a reactive traction system and as such is prohibited. Refer Drivetrain, Clutch.

**Ignition:** All Top Alcohol vehicles must have the ability to record ignition timing data during a run and all recorded information on the device may be viewed, and/or downloaded, by ANDRA Officials at any time at their discretion. The use of any programmable multi-point rev limiter and/or a rate of acceleration rpm limiter, either by themselves or integrated into the ignition system are prohibited.

**Transmission:** Aftermarket or production automobile transmissions of any year, make, model or ratio are permitted. Operative reverse gear is required. Transmission must remain in conventional location determined by engine used. Automated shifting devices are prohibited. All shifts must be a direct function of the driver. Refer Drivetrain.

**Staging Devices:** Two step staging devices only permitted with converter driven transmissions.

**Engine:** Maximum permitted bore spacing is 4.900 inches.

**Helmet:** Environmental 'Air Breathing' helmet systems permitted. Refer Driver and Rider Protection, Helmets.

**Wheelie Bar:** Must be functional. Steel and titanium wheelie bars permitted, carbon fiber prohibited. Wheels must be non-metallic. Pressure sensors and parachute net attachment permitted.

**Licence Requirement:** Endorsed GOL as a minimum. Refer ANDRA Racing Credentials, Group One Licence (GOL).

**Technical Inspection and Vehicle Logbook:** Required.