

TOP ALCOHOL FUNNY CAR

IHRA Top Alcohol Funny Car (TAFC) Rules Summary Class Overview

- Designation: TAFC (Top Alcohol Funny Car); car number precedes class.
- Reserved for alcohol-burning and injected nitromethane/methanol-burning Funny Cars built solely for drag racing.
- All cars are weighed post-run with the driver included.

Class Weights

IHRA Specifications:

- Roots Supercharged Methanol:
 - Min. weight: 2,200 lbs
 - Max displacement: 565 ci
- Screw Supercharged Methanol:
 - Min. weight: 2,300 lbs
 - Max displacement: 528 ci
- Non-Supercharged Nitromethane:
 - Weight: 5.35 lbs/ci
 - Displacement: 410–456 ci
 - Min. weight: 2,300 lbs

Fuel Regulations

- Altitude ≥ 3,500 ft: 100% nitromethane allowed
- Other Events:
 - Max 95% nitro (rear gear ratio 3.20 or higher)
 - Max 92.5% nitro (rear gear ratio 3.19 or lower)

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Only methanol and nitromethane permitted

Oildown Policy

• Fines and penalties apply per IHRA regulations if a competitor causes an oildown.

Engine Regulations

- Cylinder Heads: Billet allowed; max 2 valves/2 plugs per cylinder. Must meet IHRA specs.
- Engine Specs:
 - Single camshaft, automotive-type I.C. engine
 - Bore spacing: Hemi/Chevy 4.840"; Ford Boss 4.900"
 - Dry-sump and OEM OHC allowed
 - SFI 7.1 ballistic lower-engine device required
 - Must retain OEM-like specs (crank, cam, bolt pattern, etc.)
 - No exotic materials; standard metals only
 - Redesigns require IHRA approval

Fuel System

- No pressurized tanks; vented externally
- Fuel ≥ 50°F at all times
- Max two pumps; no nitrous or propylene oxide
- Driver-area fuel lines: steel or braided only
- Headers & Injector Scoop
 - Headers: Double-pipe, insulated, 32° min. angle, 2.75" max O.D.
 - Scoop: Max 1 sq. ft. opening, 24" wide; height = top of windshield

Oil Systems

- High-pressure oil lines: crimped/tested (750 psi, 30 sec); no plastic lines
- Retention tray required (.050" aluminum or .040" carbon/Kevlar)

Supercharger

- Overdrive Limits: PSI 1.92; Roots 1.50
- Roots: Max 14-71 size, billet allowed, internal airflow mods banned
- Screw: Only PSI 206D allowed; billet banned;
- SFI 23.1 burst panels & 14.2/14.21 restraints mandatory

Throttle & Valve Covers

- Mechanical throttle only; dual springs required
- Valve covers: metal only; SFI 14.4 restraints (non-supercharged nitro)

Breather & Crankcase

- Vent system with 1.25" min hose ID, 1–2 gal. catch-can
- No vacuum crankcase systems

Clutch, Driveline, and Transmission

- Clutch: SFI 1.3/1.4 required; max 3 discs (methanol), 4 (nitromethane)
- Driveline: 360° covers front/rear; anti-blowback required
- Transmission:
 - Prohibited for non-supercharged nitro
 - Max 3-speed auto/planetary for blown combos
 - No lockup converters, OD units, or auto-shift systems
 - Electric-only transbrake allowed if IHRA-accepted
 - Required safety items: SFI shields (6.1/6.2/6.3, 29.1,

4.1)

Brakes & Steering

- Four-wheel carbon-fiber disc brakes; dual master cylinder
- Quick-disconnect steering (SFI 42.1); no plated parts
- Suspension & Wheelie Bars
 - Front suspension optional; wheelie bars required (max 4" off track)
- Chassis & Frame
 - Ballast: Max 250 lbs; see IHRA Gen. Reg. 4:2
 - Helmet Shroud: .075" titanium / .090" steel / IHRA-accepted composite
 - Ground Clearance:

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- 3" front to 12" behind axle
- 2" elsewhere
- Parachutes: Dual, with bright-colored spring chutes
- Roll Cage: Must meet SFI 10.1; external wiring; recert yearly
- Wheelbase: 100"–125"; max 2" side-to-side variation
- Tow Hooks: Required at lower front chassis

Wheels & Tires

- Tires: Max width 18", circumference 108"–118"
- Wheels: Rear SFI 15.3; beadlocks or liners mandatory; no wire/disc covers

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Interior

- Materials: Aluminum or steel only (except carbon scoop)
- Seat: Foam padded, flame-retardant covered

Body Specifications

- Must be IHRA-approved mold (1969+ sports/coupe/sedan, ≥63" wide)
- Max overhang: 40"; rocker panel 18" past rear axle
- Window, grille, bumper, spill plates, and wickers must meet strict specs
- Transparent escape hatch not allowed; size: 18"x17", fronthinged
- Wheelwells must meet min opening specs
- Body must be removable with marked T-handle release
 Electrical & Ignition
 - Allowed: Ignition, data loggers, RPM-based fuel control
 - EFI: Only with blown alcohol, must be IHRA-approved
 - Ignition: Programmable allowed; coil-on-plug only for blown alcohol
 - Banned: Multi-point rev limiters, performance-based
 adjustments

Fire Safety & Shutoff

- Fire System: 20 lb SFI 17.1 system; 15 lbs engine, 5 lbs driver
- Shutoff: Electrimotion TAFC system (SB001TAFC + RF001) required

Driver Requirements

- Must have current IHRA level 2B license for TAFC.
- Arm Restraints & Restraints: SFI 16.1 6-point, flame-resistantcovered
- Helmet: Full-face SA2015+ or FIA equivalent; Eject system or Lid Lifter
- Protective Gear: SFI 3.2A/20 suit, 3.3/20 gloves/boots, fireretardant underlayers
- Fresh Air System: Mandatory; constant-pressure only
- HANS Device: SFI 38.1 required anytime in vehicle