



## XFWD CLASS RULES

As Of: 4/8/2022

- All NHRA Safety Rules Apply
  - 1/4 Mile Race
  - Heads Up
  - Pro Tree
- 16 car field, (if 32 or more cars we will run a 32 car field)  
**Engine Diaper or Catch Pan is REQUIRED**

## VEHICLE RULES

**Minimum Weights:** 2400lbs – 73.9 mm turbo  
+50lbs for automatic transmission equipped entry using nitrous oxide  
+100 for manual transmission equipped entry using nitrous oxide  
-200 lbs. for Volkswagen entry  
-100lbs for Nissan entry  
-100lbs for 2 rotor entries

**Turbocharger:** All turbochargers must be as manufactured from factory with an “as cast” or billet wheel. T4 flange size only, no welding, or adapters permitted to meet this specification. V-band inlets are limited to 3.0” diameter (ID) inlet flange. For “cast or billet wheel turbo”, any inconsistent modifications to compressor or turbine wheel, blades, hubs, cover, or housing, beyond accepted commercially available manufacturing process, is PROHIBITED. Compressor

inducer cannot exceed 73.9 mm. Maximum inlet diameter for compressor housing will not exceed 75.9 mm (2 mm for housing/wheel clearance). Reducers PROHIBITED. Compressor exducer: the backing plate will not exceed 102.9 mm and the tip to tip measurement will not exceed 104.9 mm. Inducer blade tip measurement will take place at the leading edge (must capture .200 of blade tip) where the tip meets the compressor housing and must extend to the final exducer measurement without steps. All compressor wheels must have a bore that runs the entire length of the compressor wheel; shaft must utilize 80% of the compressors wheels bore. The hub must be no less than 19% of the inducer of the compressor wheels inducer measurement. IE...74mm/2.913" inducer would need a minimum hub diameter of 14.1mm/.554". Reducers PROHIBITED. No reduction or milling permitted on the compressor or turbine retention nuts. Map groove will not exceed .250 of an inch and must be maintained throughout the entire circumference of the groove. Adjustable map groove rings prohibited. No aftermarket modifications to the compressor cover will be allowed. Any turbocharger entry may be asked to remove the compressor and/or turbine cover for tech inspection. The turbine wheel will not exceed 86mm x 90mm. Turbine wheels are only allowed to be constructed from high nickel alloy material. The turbine wheel will be required to have a hub diameter of 20% of the turbine wheel. IE...85MM/3.346" turbine will be required to have a minimum hub diameter of 17mm/.669"

**Nitrous Oxide:** Any entry with any nitrous equipment IE: Bottles, lines, nozzles, etc. will incur the nitrous weight penalty. If you are claiming turbocharged entry without nitrous ALL related nitrous items must be removed from the vehicle.

**Transmission:** Automated, timer type, pneumatic, electric, electronic, hydraulic, etc. shifting mechanism prohibited; each individual shift must be a function of the driver and controlled manually. DRIVER MUST PULL THE LEVER. Any type of clutch permitted. Sequential transmissions permitted.

**Fuel:** *All Fuels MUST BE DECLARED in tech inspection before the event. Whatever fuel you declare, you must run the entirety of the event. The cutting or blending of ethanol fuels will be allowed with M1 only. The use of any type of nitroparaffins is not allowed. (No hot fuels)*

**Suspension: Front -** Upper mounting point for strut assemblies must be in the factory location. Adjustable caster/camber pillow-ball mounts are permitted. Lower control arm may be strengthened provided factory mounting points to the chassis are maintained. Lower mounting point for strut assembly may be modified for improved caster or camber. Strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Traction bars/devices permitted; must be bolt on ONLY.

**Suspension: Rear-** Aftermarket lower control arms, strut tower braces, lower tie bars, sway bars, and limit straps are permitted. Rear suspension must maintain minimum shock travel of 1 inch. All rear suspensions must use at least one working shock absorber per wheel. Suspension modifications limited to bolt-on items only. All OEM suspension mounts/attachment points must be utilized.

**Chassis:** OEM chassis, with complete OEM floor pan and firewall are mandatory. Wheel tubs, back-half conversions, tube chassis, etc. prohibited. Must retain FWD configuration; rear-drive conversions prohibited. Engine must be located in the OEM location for the body being used. A front beam tripper is permitted but can only extend 45" forward of the centerline of the front wheel.

**Ground Clearance:** A minimum of 3 inches from the front of the vehicle to 12 inches behind the front spindle centerline is mandatory. A minimum of 2 inches for the rest of the vehicle is mandatory (except for oil pan and exhaust headers). Catch pan or diaper must not interfere with timing equipment and must adhere to ground clearance requirements.

**Engine Containment Device:** Engine diaper or catch pan device to capture oil and debris in event of engine failure is mandatory. Where the exhaust header passes directly under the oil pan, a two piece diaper may be utilized. Vehicles using OEM manual transmission cases must also have such a device for the transmission, to capture oil and debris in event of transmission failure. If a catch pan device is used, the catch pan must employ a minimum of 2 inch high lips on all sides. Lips must be coved or curved inward, so as to contain oil in the pan. Catch pan must cover the entire area below the engine/transmission. In all cases, lips must be adequate enough to contain oil in the catch pan. Should a competitor spill excessive oil from the catch pan and debris onto the track, he or she may be disqualified from further competition at the sole and absolute discretion of the event director until catch pan is upgraded, regardless of height of pan lips or pan design.

**Wheelbase:** Must be within 3" of the factory wheelbase.

**Tires:** DOT or racing slicks permitted with a maximum width of 9.5 inches and maximum height of 25.0 inches. Retreads, space-saver spares, or any other non-DOT-approved tire prohibited. Drive tires will not exceed .79.5" Rollout maximum. In case of a measurement being needed to be taken tires will be inflated to 10lbs and measured.

**Tow Vehicles:** Permitted. Vehicles must get to scales under their own power. If a vehicle is disabled and cannot get to the scales under its own power, the vehicle's crewmember(s) must stop at the scales first to notify the tech officials. A tech official will then escort the crewmember(s) in the retrieval of the vehicle.

**Credentials:** All competitors must have a competition number and membership number. Valid NHRA competition license mandatory for driver of any vehicle running 9.99 or quicker. All drivers running 10.00 seconds or slower must have a valid state- or government-issued driver's license beyond a learner's-permit level or valid NHRA competition license. See NHRA General Regulations 10:4.

**All rules subject to change.  
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