

2022 Technical Rules Change Summary

To: All Progressive AFT Competitors

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Subject: 2022 Technical Rules Change Summary

The following abridged Rulebook changes identify updates to the 2022 American Flat Track technical rules. These regulations are presented in an overview format and will be included in the official 2022 AFT Rulebook. In addition to these AFT Rulebook Redlines, also reference 2022 AFT Technical Allowances and Limitations. The 2022 season will be a transitional year for Progressive American Flat Track's twin-cylinder classes. AFT will maintain the Production Twins category through 2022 to offer teams, riders and manufactures time to prepare for a combined twin-cylinder class in 2023.

Section 3: General Equipment Standards

Minimum Bike Weight:

- AFT SuperTwins and AFT Production Twins (all displacements) 320 lbs.
- AFT Singles (all displacements) 230 lbs.

Tires:

- Dunlop DT4 racing tires will remain the Spec Tire.
- AFT SuperTwins must run all tires tubeless except for TT events. At all other track configurations, nothing will be permitted inside the tire.
- AFT Production Twins and AFT Singles are strongly advised to *also* run tubeless. Testing has shown use of even a standard tube increases the tire's carcass and tread temperature, degrading performance and endurance. When used, only a single inner tube per tire is allowed. No other devices aside from standard style inner tubes may be run. ~~For 2022, use of an inner tube will only be permitted at TT events. At all other track configurations nothing will be permitted inside the tire.~~

Sound Requirements:

- 2022 sound testing procedure *will remain as 2021 rule - unchanged*. Further evaluation of future sound levels and testing procedures are ongoing.

Section 4: AFT SuperTwins Technical Standards

- AFT SuperTwins motorcycles must meet the following requirements in addition to the applicable requirements in General Equipment Standards. Twin-cylinder motorcycles must maintain the traditional appearance of a flat track twin-cylinder motorcycle. ~~Machines must not be constructed to resemble Motocross or Supercross motorcycles.~~ AMA Pro Racing will make sole determination if any machine does not meet these criteria.

Engine Control System / Electronics / Traction Control

- *Race-Only Engines will be limited to a maximum of 11,500 R.P.M. Multiple methods can be utilized to gather and confirm compliance with R.P.M. limitations, including but not limited to downloading and analyzing a machine's on-board ECM data, downloading and analyzing a machine's on-board data logger's recorded data or distributing an event-specific standalone data logger to be installed by the respective teams and returned at the conclusion of the event. In the event of AFT standalone logger, model specific requirements will be posted via Technical Bulletin.*

Intake Manifolds, Carburetors, Fuel Injection and Restrictors

- Race-Only engines
 - o Race-only engines *may* be required to utilize AMA Pro Racing issued intake restrictors. Issued restrictors or their location cannot be modified in any way. Model specific information will be posted via Technical Bulletin to illustrate restrictor dimensions, location and any additional requirements.

Maximum Wheel Weight

- Race-Only Engines (Rim & Tire Only - See inspection method below)
 - o ST, HM and Miles: 28 lbs.
 - o TTs: **29.5 lbs. only when traditional, laced-up spoked wheels are utilized.**
- AFT SuperTwins utilizing street bike engines and AFT Production Twins: 48 lbs. (Wheel Assembly – see below)

Wheel Weight Inspection Method:

- AFT SuperTwins, Race-Only Engines: Rim and tire only will be weighed. Rear wheels will be weighed after removing the rear rotor, sprocket, rotor and sprocket nuts and axle spacers. The maximum diameter of the rear rotor is **11.75 inches**. Rear brake rotors must be designed to mount to the central hub. Perimeter or rim mounted rotors are not permitted. The rear braking system must be designed and function solely as a rear brake. AMA Pro Racing will make final determination if the rear brake design and function meets these criteria.
- All other machines: Status quo inspection method weighs the rear wheel *assembly*. A wheel assembly consists of a tire, a single standard inner tube, approved rim tape or tube protector (located between rim and tube), rim, spokes, hub, wheel spacers, rotor, sprocket (and associated fasteners), and whatever minimum weight is required to balance the wheel assembly.

Fuel Tanks

- ~~Minimum capacity is 5 liters (1.32 gallons). The same size fuel tank used on a motorcycle in qualifying must be retained for the entire event.~~

Section 5: AFT Production Twins Technical Standards

AFT Production Twins motorcycles must meet the following requirements in addition to the applicable requirements in General Equipment Standards. Twin-cylinder motorcycles must maintain the traditional appearance of a flat track twin-cylinder motorcycle. ~~Machines must not be constructed to resemble Motocross or Supercross motorcycles.~~ AMA Pro Racing will make sole determination if any machine does not meet these criteria.

Engine Displacement

- 649cc – ~~800cc~~ 900cc with the following restrictions:
- Engines may not exceed 900cc. Bore and stroke may be modified to meet this maximum displacement limit.

Engine Control System/Electronics/Traction Control

- *Unless O.E. fitment from the donor motorcycle*, vehicle speed, chassis dynamic or location sensors to include but not limited to wheel, transmission, countershaft speeds, GPS or other sensors that provide information to the ECU to facilitate any means of electronic control of engine output or brake systems are prohibited.

Throttle Body Specifications by Model/Type:

- Carb/Throttle Body Maximum Inner Diameter: ~~40mm~~ 38mm
- *The throttle body type must remain consistent with the design that came on the approved engine. Only an engine that came with electronic or throttle by wire may use that type of throttle system.*
- *If an engine did not come with an electronic throttle control or fly-by-wire, secondary throttle plates or other such induction controlling devices, use of these devices is prohibited. The rider must have uninterrupted mechanical connection via traditional cables from handlebar to the induction components.*

Maximum Wheel Weight

- AFT Production Twins: 48 lbs.

Fuel Tanks:

- ~~Minimum capacity is 5 liters (1.32 gallons). The same size fuel tank used on a motorcycle in qualifying must be retained for the entire event.~~

Section 6: AFT Singles Technical Standards

Carburetors and Fuel Injection:

- *The throttle body type must remain consistent with the design that came on the approved engine. Only an engine that came with electronic throttle by wire or secondary butterflies may use that type of throttle system.*
- *If an engine did not come with an electronic throttle control or fly-by-wire, secondary throttle plates or other such induction controlling devices, use of these devices is prohibited. The rider must have uninterrupted mechanical connection via traditional cables from handlebar to the induction components.*
- *Fuel injection is permitted only if it is standard equipment on the homologated model.*
- *It is permissible to replace fuel injection with a carburetor.*
- *There are no restrictions on carburetor or throttle body bore size.*
- *Although the throttle body bore size may be changed, the casting must remain as homologated.*
- *Boring the stock throttle body is allowed however it MAY NOT be bored to the extent that the stock casting is breeched or eliminated.*
- *Welding, epoxy, or other methods MAY NOT be used to increase the bore diameter above and beyond what the stock casting will facilitate. The final decision will be made by AMA Pro Racing technical staff at the event.*
- *The original throttle body may be replaced with any other homologated throttle body *from the current approved AFT Singles list*. See above for applicable throttle body type over boring *restrictions* and allowances.*
- ~~*If fuel injection is utilized, secondary butterflies must be removed.*~~
- *The original number of fuel injectors must be maintained as homologated. Secondary, showerhead or supplementary injectors cannot be added.*
- ~~*Any type of electronic throttle control or "fly-by-wire," OEM or aftermarket, is prohibited. The rider must have direct mechanical connection with the induction components.*~~

Maximum Wheel Weight

- *AFT Singles 43 lbs. Same as 2021.*