

# PRO FUEL

## Designation: "PF" followed by bike number.

Reserved for nitro burning, carbureted, high gear dragsters. Built specifically for all out drag racing. Combined weight of motorcycle and rider at the conclusion of a run must equal at least 5.7 pounds per cubic inch including safety gear.

### Requirements and Specifications

#### 1. ENGINE

**Engine:** Must keep design features of Harley-Davidson engines (Pushrod, 45 V-Twin). Carbureted single engine with 122 cu.i. maximum displacement. Pushrod aftermarket heads are legal (including 4 valve). Crankcase and all tanks containing fluids must have vent tubes routed to catch can or have a non-spill breather system on motorcycle. Must have "Bellypan" scatter shield under engine. S.F.I. Specification 46.1 approved engine restraint systems are required. These restraints must be replaced or recertified by the manufacturer every two (2) years. Manufacturers shall only recertify the restraint system one (1) time. Chest protectors are mandatory.

**Fuel:** Fuel to be mononitromethane and/or methyl alcohol only. No propylene oxide or nitrous allowed. Min. 80% nitromethane.

#### 2. DRIVE TRAIN

**Chain Guard:** Chain and belt guards are mandatory. Must cover top run of drive. Guard must be .060-inch steel or 1/8 inch aluminum.

**Transmission:** Not allowed! Single speed drive train only. Any centrifugal and/or RPM controlled clutch may be used. The clutch must be self-contained. No fluid or electrical inputs may control the operation of the clutch. (Clutch must have strong protective covering.) Guard must be .060 steel or 1/8 inch aluminum.

#### 3. SUSPENSION AND BRAKES

**Brakes:** Hydraulic type, front and rear, mandatory. Minimum size is 9-inch diameter, 1/8-inch thickness for rotors.

**Controls:** Handlebar controls must be located in safe, workable position. Foot pegs and foot controls must be located in safe, workable position and must be mounted in a safe, craftsman-like manner. Mandatory fuel shutoff must be accessible by rider from riding position. A secondary shut-off device attached to rider (in the event of premature exit from motorcycle) is recommended but not mandatory. Dual cable push-pull throttle assembly is mandatory. Lanyard for secondary shut-off must be run through eyelet, allowing the lanyard to be pulled in any direction and closing shut-off.

**Suspension:** Front suspension minimum size 32 mm and minimum travel of 2 inches. Fork stops required; must limit the turning arc to 28 degrees. Steering dampeners are mandatory. Rear suspension not necessary.

#### 4. FRAME

**Frame:** Any type permitted. All frames should be heliarc welded and main rails must have a minimum diameter of one inch. All major frame tubing must be chrome moly and have at least .058-inch wall thickness. Rake angle must be at least 35 degrees. Alternative frame materials must be submitted to AHDRA for approval. Ground Clearance: Minimum of 2 inches with rider on motorcycle and 10 p.s.i. in rear tire (includes exhaust and kickstand).

**Wheel Base:** Minimum of 75 inches.

**Wheelie Bars:** Wheelie bars are required. Maximum length from center of rear axle to center of wheelie bar axle must be at least equal the wheelbase but not exceed 120 inches. Must be securely cross-braced.

## 5. WHEELS AND TIRES

**Tires:** Must be specified for racing use by manufacturer. Rear tire tread width is limited to 11 inches as measured by AHDRA template.

**Wheels:** Rear wheel minimum 15 inch, maximum 18 inch. Front wheel minimum 16 inch, maximum 19 inch.

## 6. BODY

**Body:** No body parts are necessary, except rear fender that must cover width of tire and extend past the rear axle.

**Fairing:** Are legal. Must be mounted solidly to frame tubes.

**Seat:** Seat, tail section and rear fender may be incorporated into one unit and must include a step to prevent rider sliding backward.

## 7. ELECTRICAL

**Ignition:** Any ignition system is allowed

**Charging System:** Not necessary.

**Starting System:** Must be electric external starter. Battery top covers are required. No rollers. No push starts. Jackstands are mandatory for starting. No dry hops in pits.

**Control Switches:** Must be mounted and constructed in a safe, craftsman-like manner. Must have an emergency kill switch.

**Computers:** Only data gathering computers are allowed.

**Lights:** Not necessary.

## 8. RIDER

**Credentials:** Valid AHDRA 6.90 competitor license.

**Helmet:** Full coverage helmets only! Must be Snell-2010 or ECE 22.05 approved. Eye protection required.

**Protective Clothing:** Full finger leather gloves with knuckle armor and palm reinforcement, one piece or full circumference zippered leather suit with knee, elbow and shoulder armor or reinforcement, spine/back protector and above the ankle leather boots with toe area reinforcement are required.

**Chest Protection:** Chest protectors are mandatory. "Ballistic chest protection" (meaning bullet proof) is a device worn to protect the rider's chest from puncture of flying debris in case of catastrophic engine explosion.

**Race Team Clothing:** All team crewman that help start, assist in burnout and stage race motorcycle must wear a uniform shirt that relates to their specific team.

## 9. TECH

**Tech:** All motorcycles must be teched in before practice. Motorcycle, rider and his protective gear must be present at tech area. Tech official will have final say on any unclear rule or equipment.