

## **AHDRA**

### ***Pro Modified Class Rules***

Designation PM followed by motorcycle number.

Requirements and specifications:

Minimum weight at conclusion of run including rider must be.

Single cam: 5.4 pounds per cubic inch.

Twin cams: 5.6 pounds per cubic inch.

Four cams: 5.7 pounds per cubic inch

#### ***ENGINE***

Engine: Will consist of 45° 4 cam, twin cam, and single cam V Twin design. Any engine modifications are legal. Maximum engine displacement will be 122CI absolute. Engine must be naturally aspirated and all air and fuel must be delivered through a single carburetor and a traditional V twin manifold. All engines must use knife and fork connecting rods. A crankcase ventilation system (scavenge system) or vacuum pump is allowed. Belt driven or Roto gear oil pumps allowed. Crank case vent tube must be routed to a catch can. Cylinder heads must be of push rod two valve designs with a stock HD valve angle +/- 5 degrees. No Pro Stock heads allowed.

#### ***FUEL***

Any commercially available gasoline may be used as manufactured. No propylene oxide or other additives allowed. All participants will be required to declare the fuel being used and said fuel must have a published evaporation chart and specific gravity rating.

#### ***DRIVE TRAIN***

Chain Guard: Must have chain or belt guard for primary and secondary drive.

Transmission: Must have XL or FX based transmission.

Belt drives are legal. Rear wheel drives may consist of ratios. Air shifters and electric shifting devices must be manually operated. No automatic transmissions. No variable speed belt drives. No slipper clutches. Engine and wheel driven lock up clutches are allowed. Clutch must be manually operated by rider's hand.

#### ***SUSPENSION AND BRAKES***

Brakes: Front and rear mandatory.

Controls: Handlebar controls must be located in a safe workable position. Foot pegs and foot controls must be located in a safe workable position and must be mounted in a safe craftsman like manner. Snap back throttle return mandatory.

Suspension: Front suspension must have a minimum travel of 2 inches. Fork stops required.

#### ***FRAME***

Frame: Stock production, modified production, aftermarket and specialized racing frames allowed.

Chrome Molly or steel frames allowed.

Ground Clearance: A minimum of 2 inches with rider on the motorcycle with 10 psi in rear tire.

Wheel Base: The wheel base will not exceed 70 inches measured axle to axle.

Wheelie Bars: Wheelie bars are required. Maximum length from center of front axle to center of wheelie bar axle cannot exceed 130 inches.

### ***WHEELS AND TIRES***

Tires: All tires must be V rated or specified for racing use by the manufacture. Maximum rear tire width is 7 1/2 inches. Minimum front tire width is 3 inches. Tire width is actual tread or friction surface width.

Wheels: Rear wheel minimum is 17 inches, maximum 18 inches.

### ***BODY***

Body: All motorcycles must have a front and rear fender with gas tank or shell to resemble a street motorcycle in appearance. Must be mounted and constructed in a safe craftsman like manner.

Fairing: Allowed.

Seat: Stock OEM or seat with a step to prevent the rider from sliding backwards.

### ***ELECTRICAL***

**Ignition:** Any ignition allowed.

Charging System: Not necessary.

**Starting System:** must be electric, kick or external starter. Battery top covers are required. No rollers. No push starts. No dry hops in pits.

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

Lights: Not necessary.

### ***RIDER***

**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.

**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.

### ***TECH***

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