

**ASRA PRO SERIES CLASSES** – ASRA Pro Series machines are classified for competition in the following classes: SPORTBIKE, SUPERBIKE, THUNDERBIKE AND SUPERSTOCK

**6.8 SPORTBIKE** - Acceptable motorcycles are 4-stroke production machines, sold by the manufacturers and their dealers for street use in North America via normal commercial channels. All machines must have unaltered VIN numbers. These motorcycles must meet the following requirements in addition to the applicable requirements in Section 5.

6.8.1 Production machines not sold by manufacturers and their dealers for street use in North America via normal commercial channels may be approved on an individual basis. ASRA will maintain a list of non-standard approved models and that list will be available at each event from the Race Director/Referee.

A. ASRA reserves the right to re-factor machines at any time. ASRA will notify current licensees 30 days prior to any change. Changes will take effect 30 days from the original date of notification.

6.8.2 All motorcycles must meet the following requirements in addition to the applicable requirements in Section 5.

A. Original equipment wheels, brake calipers, forks, frame, engine, fuel induction system, and swing arm must be used.

(1) 18" wheels may be replaced with 17" wheels of the same width.

(2) 16" wheels may be replaced with 17" wheels of the same width.

(3) Front forks on Buell motorcycles may be modified by using standard O.E.M. parts to facilitate the mounting of O.E.M. dual front brake calipers.

(4) Rear swing arms on Buell motorcycles may be replaced to convert final drive assembly from belt to chain drive.

B. Aftermarket brake rotors may be used but must be the same dimensions as the originals and must be made of a ferrous material. Non-current motorcycles may use brake rotors up to the same size as those that come as original equipment on the current model machine.

(1) Buell motorcycles may convert to a dual front disc brake system provided front brake rotors are made of a ferrous material..

Aftermarket brake pads and lines may be installed. Aftermarket front brake rotors may be used but must be made of a ferrous material.

C. Any fairing may be used provided it is made of plastic, fiberglass or carbon fiber.

D. Original equipment air box must remain as produced. Air filters must be used but may be Aftermarket units. Aftermarket air filters are restricted to units available via normal commercial channels and designed for that specific model machine. Aftermarket air filter units that replace part of the O.E.M. air box are required to maintain the original size and number of air inlet openings as the stock unit.

E. Engine modifications include the following:

(1.) Pistons which are no larger than 1mm over stock size may be used but must be same compression ratio as the OEM pistons.

(2.) Original equipment cylinders must be used.

(3.) Original equipment head, valves, and cams must remain as produced, with the exception of machining the gasket surface of

- the cylinder head.
- (4.) Original equipment cases, crankshaft, and connecting rods must remain as produced.
  - (5.) Original equipment transmission gears must be used.
  - (6.) Carburetor bodies and/or throttle bodies may not be modified, bored, or polished.
- F. Internal engine modifications on all single cylinder machines, 4-stroke twin cylinder machines with less than 4 valves per cylinder produced prior to the 1999 model year., and all twin cylinder machines produced prior to the 1994 model year are unlimited, provided class displacement limits are not exceeded.
  - G. Aftermarket carburetors may be used on single cylinder machines, all 4-stroke twin cylinder machines with less than 4 valves per cylinder, and all twin cylinder 4-stroke machines produced prior to the 1994 model year. 6.8.2.D. is waived for single cylinder and all twin cylinder 4-stroke machines produced prior to the 1999 model year.
  - H. Adjustable ignition or engine management modules or modules with more than one setting must be mounted in such a way that its settings cannot be changed by the rider or a crew member while on course or prior to dyno testing.
  - I. Tires must be DOT approved.
    - (1.) If the Race Director declares a "Wet" event, commercially available rain tires may be used in place of DOT approved tires for the remainder of that race day.

**6.8.3 Immediately following each qualifying session, heat race or final race, the top five finishers and other motorcycles chosen at random may be impounded, weighed and inspected to verify compliance.**

**A. For the SPORTBIKE class, each machine must weigh no less than 350.0 pounds in the same condition in which they finish the race or qualifying, including all fluids such as oil and fuel. No fluids may be added prior to testing.**

6.8.4 Weight determinations are not protestable. Failure to meet weight requirement shall result in the following penalties:

- A. Weighing between 0.5 to 1.0 pounds less than the posted class limit will result in the loss of three full positions. (I.E. 1st place would then be relegated to 4th place.)
- B. Weighing between 1.5 to 2.0 pounds less than the posted class limit will result in the loss of six full positions. (I.E. 1st place would then be relegated to 7th place.)
- C. Weighing 2.5 or more pounds less than the posted class limit will result in disqualification and the forfeiture of all points and purse money from the event.

6.8.5 Displacement limits are absolute and are set as follows:

**SPORTBIKE (Expert Only)**

- Single cylinder, Unlimited displacement
- Two stroke, liquid cooled, up to 515cc
- Two stroke, air cooled, Unlimited displacement
- Twin cylinder, liquid cooled, up to 850cc
- Twin cylinder, air cooled, Unlimited displacement
- Three cylinder, up to 980cc
- Four cylinder, liquid cooled, up to 640cc

Four cylinder, air cooled, 2 valve, up to 775cc

**6.9 SuperBike** - SuperBikes are based upon production models, sold by manufacturer and their dealers anywhere in the world for street use via normal commercial channels. Proof of compliance rests with the competitor entering the motorcycle. All machines must have unaltered VIN numbers. ASRA reserves the right to declare unusual or limited production machines eligible for SuperBike competition. ASRA reserves the right to re-factor machines at any time. ASRA will notify current licensees 30 days prior to any change. Changes will take effect 30 days from the original date of notification. All machines must meet the standards of Section 5 as well as the following.

6.9.1. All machines must meet the equipment standards of Section 5, as well as the following:

- A. Frame and engine cases must be from the same production, street use motorcycle, except for single cylinder motorcycles, which may use any frame or engine
  - (1.) 250cc Grand Prix machines are exempt from this requirement.
- B. The frame must be as originally supplied by the manufacturer on the approved model. Strengthening gussets or tubes may be added. Only brackets or tubes not supporting suspension, engine, or drive line components may be removed. Swing arms may be modified or replaced and rear shocks may be replaced or relocated.
- C. Reducing engine size of machines from stock displacement to meet lower class displacement limits is not allowed. (i.e. a bike that is 750cc in origin cannot be re-sized for Superbike competition.
- D. Any fairing may be used if it meets the requirements of Section 5.
- E. Liquid cooling is not allowed unless original equipment on the model being used.

6.9.2 Immediately following each qualifying session, heat race or final race, the top five finishers and other motorcycles chosen at random may be impounded, weighed and inspected to verify compliance.

- A. For the SUPERBIKE class, each machine must weigh no less than 330.0 pounds in the same condition in which they finish the race or qualifying, including all fluids such as oil and fuel. No fluids may be added prior to determination of the weight.
  - (1.) 250cc Grand Prix machines are exempt from this requirement.

6.9.3 Weight determinations are not protestable. Failure to meet weight requirement shall result in the following penalties:

- A. Weighing between 0.5 to 1.0 pounds less than the posted class limit will result in the loss of three full positions. (I.E. 1st place would then be relegated to 4th place.)
- B. Weighing between 1.5 to 2.0 pounds less than the posted class limit will result in the loss of six full positions. (I.E. 1st place would then be relegated to 7th place.)
- C. Weighing 2.5 or more pounds less than the posted class limit will result in disqualification and the forfeiture of all points and purse money from the event.
- D. 250cc Grand Prix machines are exempt from this requirement.

6.9.4 SuperBike Class displacement limits are absolute and are set as follows:

**SUPERBIKE (Expert Only )**

Single cylinder, Unlimited displacement

Two stroke, liquid cooled, up to 320cc

Two stroke, air cooled, Unlimited displacement  
 Twin cylinder, air cooled, Unlimited displacement  
 Twin cylinder, less than 4 valves per cylinder, Unlimited displacement  
 Twin cylinder, 4 valve per cylinder, up to 850cc  
 Three cylinder, up to 980cc  
 Four cylinder, liquid cooled, up to 660cc  
 Four cylinder, air cooled, 2 valve, up to 1200cc

**6.10 THUNDERBIKE** - Thunderbike machines, except single cylinder machines, are based upon production models, sold by manufacturers and their dealers in North America for street use. Proof of compliance rests with the competitor entering the motorcycle. Single cylinder machines are exempt from production and street use requirements. Single cylinder 2 stroke GP road race machines are not allowed in this class. All machines must have unaltered VIN numbers.

**NOTE: BMW HP2 and Buell XBRR machines are excluded from this class.**

6.10.1 Production machines not sold by manufacturers and their dealers for street use in North America via normal commercial channels may be approved on an individual basis. ASRA will maintain a list of non-standard approved models and that list will be available at each event from the Race Director/Referee.

A. ASRA reserves the right to re-factor machines at any time. ASRA will notify current licensees 30 days prior to any change. Changes will take effect 30 days from the original date of notification.

6.10.2. All machines must meet the equipment standards of Section 5, as well as the following:

A. Frame, cylinder head(s), and engine cases must be from the same production model motorcycle. Single cylinder motorcycles may use any frame and engine.

B. The frame must be as originally supplied by the manufacturer on the approved model. Strengthening gussets or tubes may be added. Only brackets or tubes not supporting suspension, engine, or drive line components may be removed. Swing arms may be modified or replaced and rear shocks may be replaced or relocated. Single cylinder motorcycles are excluded from this restriction.

C. Reducing engine size of machines from stock displacement to meet Thunderbike class displacement limits is not allowed.

D. Fairings that meet the requirements of Section 5 may be used.

E. Liquid cooling is not allowed unless original equipment on the model being used.

F. Original type of induction system must be retained. If a machine originally was sold with fuel injection, then it must remain fuel injected. If the machine originally came with carburetors, then it must use carburetors, however they need not be the original type or size.

**G. Thunderbike machines are required to meet the following weight limits. The limits are set by tested weight of machine including rider in leathers and boots during post race inspection. Penalties for failure to meet this requirement will follow Sportbike parameters. Machines must be tested in same condition in which they finish the race or qualifying, including all fluids such as oil and fuel. No fluids may be added prior to testing.**

**(1.) Twin cylinder machines up to 700cc are required to meet a weight limit of 470 lbs. (Tested weight of machine including rider**

in leathers and boots during post race inspection.) Penalties for failure to meet this requirement will follow Sportbike parameters.

(2.) Twin cylinder machines over 700cc are required to meet a weight limit of 570 lbs (Tested weight of machine including rider in leathers and boots during post race inspection.) Penalties for failure to meet this requirement will follow Sportbike parameters.

(3.) Four cylinder liquid cooled machines are required to meet a weight limit of 650 lbs (Tested weight of machine including rider in leathers and boots during post race inspection.)

H. ASRA reserves the right to re-factor the weight ratio on any machine. ASRA will give all competitors 30 days notice before the change takes effect.

6.10.3- Thunderbike Class displacement limits are absolute and are set as follows:

### **THUNDERBIKE**

Single cylinder, Unlimited displacement

Two stroke, Unlimited displacement

Twin cylinder, air cooled, Unlimited displacement

Twin cylinder, liquid cooled, 3 or less valves per cylinder,  
Unlimited displacement

Twin cylinder, liquid cooled, 4 valve per cylinder, up to 750cc

Twin cylinder, liquid cooled, non-desmodromic valves, 4 valve per  
cylinder, up to 800cc

Three cylinder, air cooled, non-fuel injected, up to 1200cc

Four cylinder, air-cooled, up to 1200cc

Four cylinder, liquid cooled, 1990 to 1992 model year, up to 650cc

Four cylinder, liquid cooled (oil or water), pre-1990 model year, up to 860cc

All air-cooled, 2-valve, unlimited displacement.

**6.12 SUPERSTOCK** - Acceptable motorcycles are 4-stroke production machines, sold by the manufacturers and their dealers for street use in North America via normal commercial channels. All machines must have unaltered VIN numbers. These motor cycles must meet the following requirements in addition to the applicable requirements in Section 5.

6.12.1 Production machines not sold by manufacturers and their dealers for street use in North America via normal commercial channels may be approved on an individual basis. ASRA will maintain a list of non-standard approved models and that list will be available at each event from the Race Director/Referee.

A. ASRA reserves the right to re-factor machines at any time. ASRA will notify current licensees 30 days prior to any change. Changes will take effect 30 days from the original date of notification.

6.12.2 All motorcycles must meet the following requirements in addition to the applicable requirements in Section 5.

A. Original equipment wheels, brake calipers, forks, frame, engine, fuel induction system, and swing arm must be used.

(1) 18" wheels may be replaced with 17" wheels of the same width.

(2) 16" wheels may be replaced with 17" wheels of the same width.

(3). Front forks on Buell motorcycles may be modified by using standard O.E.M. parts to facilitate the mounting of O.E.M. dual front brake calipers.

(4). Rear swing arms on Buell motorcycles may be replaced to

convert final drive assembly from belt to chain drive.

- B. Aftermarket brake rotors may be used but must be the same dimensions as the originals and must be made of a ferrous material. Non-current motorcycles may use brake rotors up to the same size as those that come as original equipment on the current model machine.
  - (1). Buell motorcycles may convert to a dual front disc brake system provided front brake rotors are made of a ferrous material.. Aftermarket brake pads and lines may be installed. Aftermarket front brake rotors may be used but must be made of a ferrous material.
- C. Any fairing may be used provided it is made of plastic, fiberglass or carbon fiber.
- D. Original equipment air box must remain as produced. Air filters must be used but may be Aftermarket units. Aftermarket air filters are restricted to units available via normal commercial channels and designed for that specific model machine. Aftermarket air filter units that replace part of the O.E.M. air box are required to maintain the original size and number of air inlet openings as the stock unit.
- E. Engine modifications include the following:
  - (1.) Pistons which are no larger than 1mm over stock size may be used but must be same compression ratio as the OEM pistons.
  - (2.) Original equipment cylinders must be used.
  - (3.) Original equipment head, valves, and cams must remain as produced, with the exception of machining the gasket surface of the cylinder head.
  - (4.) Original equipment cases, crankshaft, and connecting rods must remain as produced.
  - (5.) Original equipment transmission gears must be used.
  - (6.) Carburetor bodies and/or throttle bodies may not be modified, bored, or polished.
- F. Internal engine modifications on all single cylinder machines, 4-stroke twin cylinder machines with less than 4 valves per cylinder produced prior to the 1999 model year., and all twin cylinder machines produced prior to the 1994 model year are unlimited, provided class displacement limits are not exceeded.
- G. Aftermarket carburetors may be used on single cylinder machines, all 4-stroke twin cylinder machines with less than 4 valves per cylinder, and all twin cylinder 4-stroke machines produced prior to the 1994 model year. 6.12.2. D. is waived for single cylinder and all twin cylinder 4-stroke machines produced prior to the 1999 model year.
- H. Adjustable ignition or engine management modules or modules with more than one setting must be mounted in such a way that its settings cannot be changed by the rider or a crew member while on course or prior to ~~dyno testing~~.
- I. Tire choice is open to the competitor.

**6.12.3 Immediately following each qualifying session, heat race or final race, the top five finishers and other motorcycles chosen at random may be impounded, weighed and inspected to verify compliance. –**

**A. For the SUPERSTOCK class, each machine must weigh no less than 370.0 pounds in the same condition in which they finish the race or**

**qualifying, including all fluids such as oil and fuel. No fluids may be added prior to testing.**

6.12.4 Weight determinations are not protestable. Failure to meet weight requirement shall result in the following penalties:

- A. Weighing between 0.5 to 1.0 pounds less than the posted class limit will result in the loss of three full positions. (I.E. 1st place would then be relegated to 4th place.)
- B. Weighing between 1.5 to 2.0 pounds less than the posted class limit will result in the loss of six full positions. (I.E. 1st place would then be relegated to 7th place.)
- C. Weighing 2.5 or more pounds less than the posted class limit will result in disqualification and the forfeiture of all points and purse money from the event.

6.12.5 Displacement limits are absolute and are set as follows:

**SUPERSTOCK (Expert Only)**

4-cylinders, Liquid cooled, Up to 1000cc

**3-cylinders, Liquid cooled, Up to 1000cc**

Twin cylinder, liquid cooled, up to 1200cc

Twin cylinder, air cooled, Unlimited displacement

**SECTION 7 Deleted**