



CNMRA

Pocket Bike Machine & Rider Classes

2010

GENERAL CLASSIFICATION OF MACHINERY & RIDERS

DEFINITION OF A POCKET BIKE

- A pocket bike is a miniature motorcycle with a rigid frame powered by a gasoline engine.
- Engines are to be single cylinder with pull starter and auto winding cord.
- Transmission is via a dry centrifugal clutch and single gear to the rear wheel.
- Capacity is a maximum of 53cc, 2-stroke.
- All machines must be fitted with a half or full fairing.
- Footrests must be rigid and of plastic or aluminum material. No steel to be exposed at the outer end.

Dimensions: (A tolerance of +/-5% is allowed)

- Width: 650mm maximum
- Length: 1200mm maximum
- Height: 650mm maximum
- Tire size front: 90/65 – 6.5” only
- Tire size rear: 110/50 – 6.5” or 90/65 – 6.5” only

POCKET BIKE ENGINE CLASSES

- 49cc Air cooled Stock (40cc ~ 49cc allowed)
- 49cc Air cooled Modified (40cc ~ 49cc allowed)
- 50cc Air cooled Open
- 40cc Water cooled Stock (39.8cc ~ 40cc allowed)
- 40cc Water cooled Modified (39.8cc ~ 40cc allowed)
- 50cc Water cooled Open

RIDER COMPETITION CLASSES (Permitted Machines)

- Junior A (AS)
- Junior B (AS/M)
- Production Air (AS/M)
- Production H₂O (WS)
- Senior A (WS/M)
- Senior B (WS/M)
- Euro SS (W/M, EW/M)
- Masters (W/M, 50cc OPEN)



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RIDER COMPETITION CLASSES & RACE GROUPING

GENERAL

Riders are classified according to age and weight. Every effort will be made to keep each class competitive. Grouping classes of similar weight and/or speed is necessary in order to maintain race safety. Regardless of original classification, any rider may, at the discretion of race officials, be moved up or down in the classes in order to maintain competitive classes and/or safe race grouping.

JUNIOR CLASSES

Categories:

- Junior A: 6 - 13 years inclusive. (AS)
- Junior B: 6 - 13 years inclusive. (AS/M)

Juniors will be categorized by age at the start of the season and they will then remain in the allocated class for the remainder of the season.

PRODUCTION CLASSES

Categories:

- Production Air: No age or weight restrictions (AS/M)
- Production H₂O: No age or weight restrictions (WS)

SENIOR CLASSES

Categories:

- Senior A: 14 years and over. (Maximum weight 74.9Kg) (WS/M)
- Senior B: 16 years and over (Minimum weight 75Kg) (WS/M)
- Masters: 16 years and over (W/M & 50cc OPEN)
- Euro Super Sport: 16 years and over (W/M, EW/M)

RACE GROUPING

- Group 1: Junior A and B
- Group 2: Production Air and H₂O
- Group 3: Senior A and B
- Group 4: Euro SS and Masters

Race groupings may be changed at the discretion of race officials.



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AIR COOLED STOCK MACHINE CLASSIFICATION

(Based on the *Blata Minimoto 2.5 / 3.4* replica)

- Machines: Pocket bikes.
- Engines: 40~49cc Air cooled Stock. Original factory finish. No machining allowed. Cleaning must be done using solvents only, not abrasives.
- Cylinder: 3 transfer ports. Must be commercially available and must not be re-plated.
- Cylinder head: OEM, original factory finish.
- Piston: OEM, no modifications.
- Crankshaft: OEM, no stuffing allowed.
- Ignition: Original standard flywheel (OEM) with original fixed timing only. No modifications or offset timing keys allowed.
- Carburetor: 13mm SHA type (or similar OEM of same bore size) only with no modification other than main jet size.
- Induction: Original reed block unmodified. Original single petal metal reeds only. Manifold to be either rubber or alloy (OEM)
- Air boxes: Open
- Exhaust: Original design only.
- Clutch: OEM, no modifications
- Gearing: Open
- Tires & wheels: Open up to 6.5" diameter maximum.
- Brakes: Cable operated disc brakes (No hydraulics)
- Kill switches must be handlebar mounted and effective.
- All parts used must be available for purchase by any other rider. This rule applies to all makes of bikes.
- No performance enhancers. (i.e. oxygen bearing fuel additives, reed block inserts, boost tubes, etc.)
- Fuel: Commercially available pump gasoline only. No race fuels. Oxygen bearing fuel additives are prohibited.

This machine is permitted in classes: Junior A, Junior B and Production Air.



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AIR COOLED MODIFIED MACHINE CLASSIFICATION

- Machines: Pocket bikes.
- Engines: 40~49cc Air cooled Modified. Intake and exhaust port matching is permitted provided that one component of each matched port remains unmodified.
- Cylinder: 3 ~ 5 transfer ports. Must be commercially available and must not be re-plated.
- Cylinder head: Alternate domes permitted.
- Piston: Ported pistons permitted.
- Crankshaft: OEM, no stuffing allowed.
- Ignition: Original standard flywheel (OEM). Offset timing keys are permitted. No modification to ignition coil allowed.
- Carburetor: Any, up to 17.5mm bore with no other modifications. Jet size is free.
- Induction: Performance reed block permitted. Only metal or glass petal reeds permitted. Manifold to be either rubber or alloy (OEM).
- Air boxes: Open
- Exhaust: Alternate OEM pipes allowed.
- Clutch: Any centrifugal type clutch
- Gearing: Open
- Tires & wheels: Open up to 6.5" diameter maximum.
- Brakes: Cable operated disc brakes (No hydraulics)
- Kill switches must be handlebar mounted and effective.
- All parts used must be available for purchase by any other rider. This rule applies to all makes of bikes.
- Fuel: Commercially available pump gasoline only. No race fuels. Oxygen bearing fuel additives are prohibited.

This machine is permitted in class: Junior B, Production Air.



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WATER COOLED STOCK MACHINE CLASSIFICATION

(Based on the *Blata B1 Origami* replica)

- Machines: Pocket bikes.
- Engines: 40cc Water cooled Stock. Original factory finish. No machining allowed. Cleaning must be done using solvents only, not abrasives.
- Cylinder: 3 transfer ports. Must be commercially available and must not be re-plated.
- Cylinder head: OEM, original factory finish.
- Piston: OEM, no modifications.
- Crankshaft: OEM, no stuffing allowed.
- Ignition: Original standard flywheel (OEM) with original fixed timing only. No modifications or offset timing keys allowed.
- Carburetor: 17.5mm PHVA type (or similar OEM of same bore size) only with no modification other than main jet size.
- Induction: Original reed block unmodified. Original two petal metal reeds only. Manifold to be either rubber or alloy (OEM)
- Air boxes: Open
- Exhaust: Original OEM design only. (Constant diameter front pipe, minimum length 280mm, outside diameter - min. 24mm / max 25mm, tube wall thickness of 1.1mm)
- Clutch: OEM, no modifications other than spring tension.
- Gearing: Open
- Tires & wheels: Open up to 6.5" diameter maximum.
- Brakes: Cable operated disc brakes (No hydraulics)
- Kill switches must be handlebar mounted and effective.
- All parts used must be available for purchase by any other rider. This rule applies to all makes of bikes.
- No performance enhancers. (i.e. oxygen bearing fuel additives, reed block inserts, boost tubes, etc.)
- Fuel: Commercially available pump gasoline only. No race fuels. Oxygen bearing fuel additives are prohibited.
- Coolant: Tap or distilled water only, no glycol. "Water Wetter" or equivalent additives allowed.

This machine is permitted in classes: Senior A, Senior B and Production H₂O.



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WATER COOLED MODIFIED MACHINE CLASSIFICATION

- Machines: Pocket bikes.
- Engines: 40cc Water cooled Modified. Intake and exhaust port matching is permitted provided that one component of each matched port remains unmodified.
- Cylinder: 3 ~ 5 transfer port cylinder. Must be commercially available and must not be re-plated.
- Cylinder head: Alternate domes permitted.
- Piston: Flat top and/or ported pistons permitted.
- Crankshaft: OEM, no stuffing allowed.
- Ignition: Original standard flywheel (OEM). Offset timing keys are permitted. No modification to ignition coil allowed.
- Carburetor: Any, up to 19mm bore. Jet size is free.
- Induction: Performance reed block permitted. Only metal or glass petal reeds permitted. Manifold type is free.
- Air boxes: Open
- Exhaust: Alternate OEM pipes allowed.
- Clutch: Any centrifugal type clutch
- Gearing: Open
- Tires & wheels: Open up to 6.5" diameter maximum.
- Brakes: Cable operated disc brakes (No hydraulics)
- Kill switches must be handlebar mounted and effective.
- All parts used must be available for purchase by any other rider. This rule applies to all makes of bikes.
- Fuel: Commercially available pump gasoline only. No race fuels. Oxygen bearing fuel additives are prohibited.
- Coolant: Tap or distilled water only, no glycol. "Water Wetter" or equivalent additives allowed.

This machine is permitted in classes: Senior A, Senior B and Masters.



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50cc OPEN MACHINE CLASSIFICATION

- Machines: Pocket bikes.
- Engines: 50cc Air cooled Open or 50cc Water cooled Open. Machining of engine casings is permitted. 50cc "big bore" kits permitted.
- Cylinder: Number and type of porting is free.
- Cylinder head: Any.
- Piston: Any.
- Crankshaft: Any.
- Ignition: Any flywheel permitted. Offset timing keys are permitted. Any type of ignition coil allowed.
- Carburetor: Any, no bore size restriction. Jet size is free.
- Induction: Any reed block permitted. Any type and number of reeds permitted. Manifold type is free.
- Air Boxes: Open
- Exhaust: Any.
- Clutch: Any centrifugal type clutch
- Gearing: Open
- Tires & Wheels: Open up to 6.5" diameter maximum.
- Brakes: Cable operated or hydraulic disc brakes permitted.
- Kill switches must be handlebar mounted and effective.
- Fuel: Any commercially available gasoline, ethanol, race fuel. Liquid fuel additive(s) are permitted. Nitrous oxide and other gaseous oxidizers are prohibited.
- Coolant: Tap or distilled water only. "Water Wetter" or equivalent additives allowed.

This machine is permitted in class: Masters.



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EUROPEAN WATER COOLED MODIFIED MACHINE CLASSIFICATION

- Machines: Pocket bikes.
- Engines: 40cc Water cooled Modified. Intake and exhaust port matching is permitted provided that one component of each matched port remains unmodified.
- Cylinder: 3 ~ 5 transfer port cylinder. Must be commercially available and must not be re-plated.
- Cylinder head: Alternate domes permitted.
- Piston: Flat top and/or ported pistons permitted.
- Crankshaft: OEM, stuffing permitted.
- Ignition: Original standard flywheel (OEM). Offset timing keys are permitted. Modified 2 or 3 coil ignition permitted.
- Carburetor: Any, up to 19mm bore. Jet size is free.
- Induction: Performance reed block permitted. Only metal or glass petal reeds permitted. Manifold type is free.
- Air boxes: Open
- Exhaust: Alternate OEM pipes allowed.
- Clutch: Any centrifugal type clutch
- Gearing: Open
- Tires & wheels: Open up to 6.5" diameter maximum.
- Brakes: Cable operated or hydraulic disc brakes permitted.
- Kill switches must be handlebar mounted and effective.
- All parts used must be available for purchase by any other rider. This rule applies to all makes of bikes.
- Fuel: Any commercially available gasoline, ethanol, race fuel. Liquid fuel additive(s) are permitted. Nitrous oxide and other gaseous oxidizers are prohibited.
- Coolant: Tap or distilled water only, no glycol. "Water Wetter" or equivalent additives permitted.

This machine is permitted in class: Euro SS.



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2007 - Polini Motori S.p.A.
2009 - DM Telai SRL

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