

NAMBA District 7 – Gas Rules

GENERAL RULES

1. Gas Racing Rules are intended as a supplement to the General Power Boat Rules of NAMBA. In the case of a conflict, the Gas Racing Rules shall prevail
2. Designation of classes is determined at the time of compiling these rules. The designation of classes and rules will stay in effect until otherwise noted.

DESIGNATION OF CLASSES

1. G-1 MONO, G-1 CATAMARAN, G-1 SPORT HYDRO
 - a. Any hull that meets NAMBA General rules for each hull style.
 - b. NAMBA G Gas Class rules apply (Limited to G-1 engines only)
2. G-1 CATAMARAN
 - a. Only catamaran style hulls, meaning 2 riding surface boats plus strut.
 - b. NAMBA GX Gas Class rules apply. (G-1 Engines may run in this class.)
3. OPEN CRACKERBOX
 - a. Quarter Scale Crackerbox rules apply.
 - b. Open Crackerbox Hull Specifications apply.
4. OPEN GAS
 - a. Open to any hull available
 - b. Open to any gasoline powered engine size or classification.

CLASS SPECIFICATIONS

G CLASS RULES

1. General Engine Specifications
 - a. Engines running in this class shall be industrial, lawn maintenance engines. Only industrial motors will be allowed in this class. Examples of such engines are Zenoah, Kawasaki, Homelite and U.S. Engines.
 - b. Secondary parts such as water jackets, nose cones, drive components, shim plates, inake manifolds, carburetors, headers, pipes, etc. do not come under the "industrial" rule. Major components such as cranks, pistons, cases, and cylinder heads do fall under the rule and must be parts of the original motor manufacturer
 - c. Modifications are allowed to major and minor components to the extent that the part is still recognizable as a manufactured part. However, major components may only be modified by removing material. Adding material or parts to modify an engine's major components will be illegal. The only exception to this rule is that a cylinder may be modified to accept (add-on) a water jacket.
 - d. Induction systems must be piston-ported. Modifications incorporating induction systems other than piston-ported systems are illegal. An example of this would be a Homelite engine manufactured as a piston-port induction engine modified to incorporate a rotor-valve induction system.
 - e. Engines in this class must employ spark-induced combustion. Glow plug or compression-induced combustion is illegal.
 - f. Recoil starters must be included on the original engine and must be retained on engines in this class. The recoil must be used as the primary means of starting the engine.

g. Displacement is the swept volume of the engine, which is the cross sectional area of the cylinder multiplied by the stroke of the engine and two displacement ranges will be offered within this class:

1. G-1 will include engines from 15 to 25.99 cubic centimeters.
2. G-2 will include engines from 26 to 35.99 cubic centimeters.

2. Fuel Specifications

a. Gasoline having an octane rating no higher than 100 must be used in this class.

b. To enforce this rule, a protest may be made to the contest director anytime during the contest. Protests must be accompanied by a \$10.00 protest fee that will be awarded to the sponsoring club. The offending racer will be made to use the protesting racer's fuel for the duration of the contest. If the fuel is unacceptable to the offending racer, fuel from a neutral party must then be used by both the offending racer and the protesting racer. In this situation, the neutral party would be awarded the protest fee in payment for the fuel.

3. Hull Specifications

a. Differing hull types may be offered in this class. Examples might include, but would not be limited to, Mono, Sport Hydro, Outrigger, Mono and Crackerbox.

GX CLASS RULES

1. General Engine Specifications

a. Engines running in this class will not be required to fall under the "industrial" rule. Displacement is the swept volume of the engine, which is the cross sectional area of the cylinder multiplied by the stroke of the engine and two displacement ranges will be offered within this class:

1. GX-1 will include engines from 15 to 25.99 cubic centimeters.
2. GX-2 will include engines from 26 to 35.99 cubic centimeters

b. Engines in this class must employ spark-induced combustion. Glow plug or compression-induced combustion is illegal.

c. Induction systems may include piston port induction, reed valve induction, rotor-valve induction and drum valve induction.

2. Fuel Specifications

a. Gasoline having an octane rating no higher than 117 must be used in this class.

b. To enforce this rule, a protest may be made to the contest director any time during the contest. Protests must be accompanied by a \$10.00 protest fee that will be awarded to the sponsoring club. At this point the offending racer will be made to use the protesting racer's fuel for the duration of the contest. If the fuel is unacceptable to the offending racer, fuel from a neutral party must then be used by both the offending racer and the protesting racer. In this situation, the neutral party would be awarded the protest fee in payment for the fuel.

3. Hull Specifications

a. Differing hull types may be offered in this class. Examples might include, but would not be limited to, GX Mono, GX Sport Hydro, GX Outrigger, GX Mono and GX Crackerbox.

SPECIALTY CLASSES



QUARTER SCALE CRACKERBOX

1. General Rules

- a. The intent of Quarter Scale Crackerbox is to duplicate the full-sized Crackerbox class as closely as possible.
- b. Quarter Scale Crackerbox rules are intended as a supplement to general Power Boat Rules and the Gas Competition Rules of NAMBA. In the case of a conflict, the Quarter Scale Crackerbox racing rules shall apply.

2. Engine Specifications

- a. Any commercially available gasoline engine with a displacement of 30 cubic centimeters or less is permitted.
- b. Any commercially available carburetor is permitted.
- c. Any type of exhaust system, muffler, or tuned pipe is permitted

1. No part of an exhaust system may extend beyond the transom with the exception of a small pipe muffler or transom exhaust flange.

2. The exhaust system must be enclosed by the hull.

3. Drive Train

- a. Direct drives using straight or flex-shaft drives are permitted.
- b. No part of the drive train or runner may extend more than four inches in back of the transom.

3. Hull Specifications

(OPEN CRACKERBOX)

- a. All boats shall be models of the full-sized Crackerbox Class.
- b. The minimum length shall be 45 inches with the maximum not to exceed 49 inches.
- c. The minimum beam shall be 16 ½ inches.
- d. The bottom of the boat shall be flat with no riding pads or steps.
- e. The deck and hatch must resemble that of a full-sized C-Box.
- f. The hull may be constructed of any material as long as it conforms to the specifications listed in Section 3 above
- g. Two drivers of scale appearance must be used. Instrument panel, steering wheel, and other detailing is encouraged.
- h. For hull reference, see *R/C Boat Modeler* plans FSPB-07931.
- i. The letter "P" must precede or follow your NAMBA number on each side of the hull.

(CLASSIC WOOD CRACKERBOX)

j. All Open Class specifications apply with the following exceptions:

1. The hull must be made completely of wood. Glass, cloth, and resin may be added.
2. The hull length must be 48 inches, plus or minus one inch.
3. The minimum ready-to-run weight must be 15 pounds.
4. Classic Wood Crackerbox boats cannot run in the Open Crackerbox class and the Classic Wood Crackerbox class at the same event. The entrant must choose one class only, and run the boat in that class.



CLASSIC THUNDERBOAT

1. Boat maybe of wood or fiberglass construction.
2. 48-56 inches in length and a minimum of 24 inches in width. The transom shall be a minimum of 10" in width.
3. Hull designs: Round Nose, Step Deck, Chisel Nose ONLY.
4. ENGINES will be a PUM 26cc Zenoah. Engine may run a stock 257 carburetor. No internal modification allowed. All replacement parts must be from the original manufacturer, and the same type engine (Zenoah 260 to Zenoah 260) no parts swapping.
5. Any pipe combo may be used. The pipe and muffler must be inside the boat and exit through the transom.
6. Nothing may be further than 5 1/4" behind the transom.
7. Boat must have a sponsored paint scheme with sponsored IDs and U numbers on the boat.
8. Boat must have a driver in a front or rear cockpit. Driver scale of 1/8 to 1/6 in relationship to the size of the boat.
9. Boat must run with an engine cowling or dummy engine to cover as much of the boats engine as possible.