

# APPLICATION FOR IMPBA WORLD RECORD

## GAS

### INSTRUCTIONS

(Application Rev. 1/31/2019) (Tech Inspection sheet Rev. Sept 2019)

Please type or print legibly. It is recommended that this application be filled out in duplicate or copied should the original be lost by postal or courier services. It is the responsibility of both the sponsoring club officials and the contestant applying for a record to ensure this application is completely filled out prior to sending to the IMPBA Records Director. Failure to do so will automatically void this application. Review the application upon completion and fill out the following check-off list.

#### SPONSORING CLUB:

All lines have been completed on Page 2.

#### CONTESTANT:

All lines have been completed on Page 2 (additional comments optional).  
Application has been signed.

#### TIMES WITNESSED:

There must be 2 different people to verify the time. Each timer or witness must record  
The time he/she reads, plus sign and print their name and IMPBA membership  
number on page 3.

#### POWER SPECIFICATIONS:

There must be 2 different people inspect the engine(s) for Technical standards. Each  
inspector must sign and print their name and IMPBA membership number on Page 3.

#### HULL SPECIFICATIONS:

There must be 2 different people inspect the hull for technical standards. Section A  
and section B or C must be completed for all applications. Section D through I must  
also be completed if applicable. Each inspector must sign and print their name and  
IMPBA membership number on Page 5.

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### FOR OFFICIAL USE ONLY

Date Postmarked: \_\_\_\_\_

New Record?  Yes  No

If no, give reason: \_\_\_\_\_

Date Record Certificate issued: \_\_\_\_\_

Class: \_\_\_\_\_ Event: \_\_\_\_\_ Time: \_\_\_\_\_ Speed: \_\_\_\_\_

Contestant: \_\_\_\_\_ Date of Record: \_\_\_\_\_

IMPBA Records Director (sign & print name): \_\_\_\_\_

**SPONSORING CLUB**

CLASS (Engine Size & Hull Type): \_\_\_\_\_

EVENT:     1/16 straightaway     1/3 Oval     1/4 Oval

TIME: average to thousandths (drop the fourth digit)    \_\_\_\_\_ . \_\_\_\_\_

SPEED: Use Formula Below (drop the fourth digit)    \_\_\_\_\_ . \_\_\_\_\_

(1/16 Straightaway: 225/sec.) (1/3 Oval: 1200/sec.) (1/4 Oval: 900/sec.)

For Straightaway trials, TIME is the average for 2 consecutive passes in opposite directions.

For Ovals, TIME is the total duration to complete 2 legal laps of the course specified.

DATE RECORD SET: \_\_\_\_\_

DATE OF SANCTION: \_\_\_\_\_ SANCTION #: \_\_\_\_\_

SPONSORING CLUB: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

NAME OF PARK, POND, LAKE: \_\_\_\_\_

CONTEST DIRECTOR: \_\_\_\_\_ IMPBA # \_\_\_\_\_

**CONTESTANT**

NAME: \_\_\_\_\_ IMPBA # \_\_\_\_\_

ADDRESS: \_\_\_\_\_

HULL MANUFACTURED BY \_\_\_\_\_

ENGINE OR MOTOR MANUFACTURED BY \_\_\_\_\_

PROPELLER MANUFACTURED BY \_\_\_\_\_

FUEL OR BATTERIES MANUFACTURED BY \_\_\_\_\_

RADIO MANUFACTURED BY \_\_\_\_\_

(The above information is an attempt to help promote our manufacturers products to the model boating community and will be printed with record listings in the IMPBA Rule Book. If hardware used is of original design, please enter "own design.")

ADDITIONAL COMMENTS \_\_\_\_\_

CONTESTANT'S SIGNATURE \_\_\_\_\_

TIMES WITNESSED

1/3, 1/4, 1/6 Oval or 1/16 Straightaway - 1st Pass

1/16 Straightaway only - 2nd Pass

\_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_

\_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_

DB READINGS

Record reading for EACH lap of an oval & EACH pass for SAW \_\_\_\_\_ dB \_\_\_\_\_ dB

TIMERS OR WITNESS (sign and print name)

IMPBA #

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

POWER SPECIFICATIONS

**The boat shall be impounded by the Contest Director immediately after a record is set.  
The following shall be checked by two (2) inspectors.**

ENGINE POWER (GAS)

1. BORE: \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ in.

BORE AVERAGE: \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ in.  
average to thousandths (drop the fourth digit)

2. BORE: \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ in.

1. STROKE: \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ in.

STROKE AVERAGE: \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ in.  
average to thousandths (drop the fourth digit)

2. STROKE: \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ in.

DISPLACEMENT: \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ cu.in.  
average to thousandths (drop the fourth digit)

NOTE: Displacement = 3.14159 x (Bore Avg/2)<sup>2</sup> x Stroke Avg.

CID divided by .061 = CC \_\_\_\_\_ . \_\_\_\_\_ . \_\_\_\_\_ cc

INSPECTORS (sign and print name)

IMPBA #

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

**HULL SPECIFICATIONS**

Hull Type:     Outrigger     Mono     Sport Hydro     Catamaran     Crackerbox  
                   Thunderboat     Jersey Skiff     Gas Unlimited Scale

Answer A and B or C

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**A. General questions:**

- 1. Is hull 60" or less in length? .....  Yes     No
- 2. Total weight is 30 lbs. or less (with GAS race ready)? .....  Yes     No
- 3. Boat has only one engine? .....  Yes     No
- 4. Engine has gasoline spark ignition (not a glow plug)? .....  Yes     No
- 5. Engine was started with a recoil pull or belt/pulley starter? .....  Yes     No
- 6. Engine was stopped via transmitter? .....  Yes     No
- 7. Fuel is pump gasoline/oil mix? .....  Yes     No

**B. If Outrigger:**

- 1. Do the sponsons attach to hull via tubes, brackets, or other methods. ....  Yes     No

**C. If Mono:**

- 1. Is hull one continuous wetted surface at racing speed? .....  Yes     No
- 2. Any discontinuities of wetted surface, including strakes,  
are 15 degrees or less angel to the keel? .....  Yes     No
- 3. Is keel deeper than any point on hull cross section? .....  Yes     No
- 4. If strakes used, at least one on each side of keel? .....  Yes     No
- 5. Strakes parallel with keel in aft half of hull length? .....  Yes     No
- 6. Strakes terminated ahead of transom have faired ends? .....  Yes     No
- 7. Keel is lower than strakes? .....  Yes     No
- 8. Hull is without steps? .....  Yes     No

Answer the following where applicable

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**D. If Sport Hydro:**

- 1. Is boat inboard powered? .....  Yes     No
- 2. Is the hull a 3-point suspension hull? .....  Yes     No
- 3. Hull is not an outrigger or tunnel ? .....  Yes     No
- 4. Does boat have name, logo and/or racing number? .....  Yes     No
- 5. Boat has driver and/or simulated enclosed cockpit? .....  Yes     No
- 6. If the bow is recessed behind the tips of the sponsons, that recess  
shall be no larger than 25% of the overall length of the boat? .....  Yes     No
- 7. Does engine meet LSG 27 or LSG 36 engine specifications? .....  Yes     No
- 8. Does hull meet all the dimensional requirements of Section I,  
Figure 1 of the IMPBA Rule Book? .....  Yes     No

**E. If Crackerbox:**

- 1. Do the basic hull lines conform to the lines of the  
Crackerbox racing runabout?.....  Yes     No
- 2. Does the length fall between 42" and 49"? .....  Yes     No
- 3. Is the width of the hull wider than 15"? .....  Yes     No
- 4. Hull is in compliance with "no ride plates" rule? .....  Yes     No
- 5. The Vee bottom measure no more than 5 degrees at the transom? .....  Yes     No
- 6. Does boat have racing number preceded by "P"  
with letter size at least 2" minimum? .....  Yes     No
- 7. Does boat have 2 scale drivers with helmets and  
life jackets in the driver/rider compartment? .....  Yes     No

- 8. Does boat have a canister muffler or tuned pipe? .....  Yes  No
- 9. Are propeller, rudder, and all parts of the drive train  
4" or less beyond transom? .....  Yes  No
- 10. Does engine meet Super Sport rules? (see checklist attached) .....  Yes  No

**F. If Thunderboat:**

- 1. Does engine meet Super Sport rules? (see checklist attached) .....  Yes  No
- 2. Does the boat meet all requirements in Large Scale Gas,  
V-Specialty Classes, item G of the rule book? .....  Yes  No

**G. If Jersey Skiff**

Does the boat meet all requirements of the rule book in Large Scale Gas,  
V-Specialty Classes, item H ? .....  Yes  No

**H. If Tunnel**

Does the boat meet all requirements of the rule book in Large Scale Gas,  
V-Specialty Classes, item I ? .....  Yes  No

**I. If Gas Scale Unlimited**

Does the boat meet all requirements of the rule book in Large Scale Gas,  
VI-Gas Scale Unlimited? .....  Yes  No

**J. If "SLS" Sport Engine was used answer the following:**

- 1. Does engine have a cantilever crankshaft? .....  Yes  No
- 2. Does engine have a recoil starter? .....  Yes  No
- 3. Is cylinder and head a single unit? .....  Yes  No
- 4. Is carburetor bore .500 inches or less? .....  Yes  No
- 5. Does engine have a canister type muffler? .....  Yes  No
  - Single hole or pipe 3/4" or less? .....  Yes  No
  - Dual hole or pipes 1/2" or less each? .....  Yes  No
- 6. Does engine meet all other restrictions in section I of the rule book? .....  Yes  No

**INSPECTORS (sign and print name**

**IMPBA #**

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

**ADDITIONAL INSTRUCTIONS**

This form must be completed and mailed to the IMPBA Records Director within 2 days of the conclusion of the event. (Be sure to use proper postage)

**Brad Schafer  
620 Summer Grass Ln.  
Roswell, GA 30075**

# LSG Stock Motor Inspection

Refer to Rule Book Sec. I - Large Scale Gas, V- Specialty Classes, F- Super Sport Class

Paragraph I(V)(F)(3) summary:

**Engines will be Zenoah G260 PUM only. The engine may run a stock unmodified 257, 1027, or 644 with choke carburetor.** No internal modifications allowed. Replacement parts must be from the original manufacturer and same type engine. No part swapping from other manufacturers permitted. The engine coil may be moved to another location on the engine or hull. Recoil pull start must be primary method of starting.

## Stock Motor Inspection to include all parts of motor:

**YES    NO – if no record measurement**

- |                          |                          |   |       |
|--------------------------|--------------------------|---|-------|
| <input type="checkbox"/> | <input type="checkbox"/> | a) Fasteners: Stock or Stainless  |       |
|                          |                          | b) Gasket Thickness:  |       |
| <input type="checkbox"/> | <input type="checkbox"/> | Carburetor .017 to 0.023 .....  | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Manifold .017 to .023 .....   | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Case .017 to .019 .....   | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Base/Barrel .014 to .018<br><i>may be copper or fiber</i> .....   | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | c) Seal: Springs  |       |
| <input type="checkbox"/> | <input type="checkbox"/> | d) Bearings: Stock  |       |
| <input type="checkbox"/> | <input type="checkbox"/> | e) Flywheel:  |       |
|                          |                          | Thickness .800 to .810 .....  | _____ |
|                          |                          | Diameter 2.358 to 2.362 .....   | _____ |
|                          |                          | Keyway .118 to .123 .....   | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | f) Crank Rod, Piston and Ring must be stock   |       |
|                          |                          | Piston diameter above ring compared to piston diameter<br>below wristpin = max. diameter difference of 0.0015 |       |
|                          |                          | Crank Keyway .118 to .123.....  | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | g) Intake Manifold Thickness .680 to .702 .....   | _____ |
|                          |                          | <i>(May sand gasket sealing area to make flat)</i>  |       |
| <input type="checkbox"/> | <input type="checkbox"/> | h) Ignition Parts – original red & gray color and slotted holes   |       |
| <input type="checkbox"/> | <input type="checkbox"/> | i) Case to Crank Shaft Top .908 to .912 .....   | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | j) Barrel (Cylinder) Depth 1.9650 to 2.000.....   | _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | k) Must have original round cooling cap –<br>painting, anodizing, and etching allowed.                        |       |
| <input type="checkbox"/> | <input type="checkbox"/> | l) Bore and Stroke  |       |
|                          |                          | 34mm (1.338 inch) bore.....   | _____ |
|                          |                          | 28mm (1.102 inch) stroke .....  | _____ |