

APPLICATION FOR IMPBA WORLD RECORD

GAS

INSTRUCTIONS

(Application Rev. Sep. 2021) (LSG Stock Motor Inspection sheet Rev. Sep. 2022)

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 by contestant.

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 & print their name and IMPBA # on page 3.

POWER SPECIFICATIONS:

There must be 2 different people inspect the engine(s) for technical standards.
Complete the Stock Motor Inspection Checklist where applicable.
Each inspector must sign & print their name and IMPBA # on Page 3.

HULL SPECIFICATIONS:

There must be 2 different people inspect the hull for technical standards. Complete top
section on page, and any other applicable sections. Each inspector must sign & print their
name and IMPBA #. If any items "fail", indicate reason in pass/fail comments on page 5.

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): _____

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) _____ . _____

For SAW 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.

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

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

DATE RECORD SET: _____ SANCTION# _____

SPONSORING CLUB: _____

NAME OF PARK, POND, LAKE: _____

ADDRESS: _____

CONTEST DIRECTOR: _____ IMPBA # _____

CONTESTANT

NAME: _____ IMPBA # _____

ADDRESS: _____

EMAIL and/or PHONE#: _____

The following information is an attempt to help promote our manufacturer's products to the model boating community and will be printed with the record listings. If hardware used is of original design, please enter "own design".

HULL MANUFACTURED BY _____

ENGINE MANUFACTURED BY _____

LOWER END (Tunnel Classes) MANUFACTURED BY: _____

PROPELLER MANUFACTURED BY _____

FUEL MANUFACTURED BY _____

RADIO MANUFACTURED BY _____

ADDITIONAL COMMENTS (optional):

CONTESTANT'S SIGNATURE _____

TIMES WITNESSED

1/3 Oval, 1/4 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.

If Stock Engine, check box . Complete Stock Motor Inspection Checklist.

If SLS Sport engine, check box . See SLS Mono class rules for inspection details.

Record two readings & determine average

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.
Displacement = $3.14159 \times (\text{Bore Avg}/2)^2 \times \text{Stroke Avg}$.
Average to thousandths (drop the fourth digit)

NOTE For TLSG records: Measure bore and stroke of each cylinder as above.
 Second set of readings on back of sheet.
 Displacement is total of both cylinders.

CID divided by .061 = CC _____ . _____ cc

POWER INSPECTORS (sign and print name)

IMPBA #

1. _____

2. _____

HULL SPECIFICATIONS

- Mono Catamaran Outrigger Sport Hydro Crackerbox
 Classic Thunderboat Jersey Skiff Gas Unlimited Scale Tunnel

Hull Length: _____ inches (conforms to rules for class min./max.) Pass Fail
 Hull Weight is 30# or less (with gas race ready)..... Pass Fail

Answer the following where applicable - indicate pass or fail. If fail, note reason in comments

A) MONO & CATAMARAN

1. Meets all criteria for hull type per Sec. K -Tech Standards Pass Fail

B) OUTRIGGER

1. Sponsons attach to hull via boom tubes, or brackets, and hull is a 3- or 4-point hydro hull Pass Fail

C) SPORT HYDRO

1. Hull is a 3-point suspension or canard (No outrigger, or tunnel) Pass Fail
2. Boat has name, logo and/or racing number, and driver and/or simulated enclosed cockpit Pass Fail
3. Engine meets LSG 27 or LSG 36 general engine specifications Pass Fail
4. Hull meets all the dimensional requirements for Sport Hydro (IMPBA Rule Book Sec. I (V) (B), also see Figure 1.) Pass Fail

D) CRACKERBOX

1. Deck or hatch resembles the deck of a full-scale racing Crackerbox Pass Fail
2. Boat has "P" number, and two scale-like appearance drivers Pass Fail
3. Engine is Zenoah G260 PUM & passed LSG Stock Motor Inspection Pass Fail
4. Hull meets all dimensional & drive train requirements for Crackerbox (IMPBA Rule Book Sec. I (V) (E)) Pass Fail

E) CLASSIC THUNDERBOAT

1. Exhaust meets requirements and exits from rear, side or bottom Pass Fail
2. Sponsor name and/or logo, and 50s - 70s era driver (no cartoon/animal) Pass Fail
3. Engine is Zenoah G260 PUM & passed LSG Stock Motor Inspection Pass Fail
4. Hull meets all dimensional requirements for Classic Thunderboat (IMPBA Rule Book Sec. I (V) (G), also see Figure 2) Pass Fail

F) JERSEY SKIFF

1. Meets all requirements for Jersey Skiff (IMPBA Rule Book Sec. I (V) (H)) Pass Fail

G) GAS SCALE UNLIMITED (1/6 Scale)

1. Boat meets all requirements for Gas Scale Unlimited, is registered with Scale Director, and registered owner is driver. (IMPBA Rule Book Sec. I (VI)) Pass Fail

H) LSG OUTBOARD TUNNEL

1. Boat meets all requirements of the rule book for LSG Outboard Tunnel (IMPBA Rule Book Sec. I (V) I) Pass Fail

HULL INSPECTORS (sign and print name)

IMPBA #

1. _____

2. _____

PASS/FAIL COMMENTS

ADDITIONAL INSTRUCTIONS

Super Sport Mono, Crackerbox, and Classic Thunderboat must complete the **LSG Stock Motor Inspection** checklist attached to this document.

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)

**RON DRAKE - RECORDS
PO BOX 3544
PLANT CITY FL 33563**

LSG Stock Motor Inspection

Refer to Rule Book Sec. I - Large Scale Gas, IV- ENGINE CLASSIFICATION, A - Super Sport Engine Specifications

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:

PASS	FAIL		<u>If "Fail", please document item measurement</u>
<input type="checkbox"/>	<input type="checkbox"/>	a) Fasteners: Stock or Stainless	
<input type="checkbox"/>	<input type="checkbox"/>	b) Gasket Thickness:	
		Carburetor gasket .017 to 0.023	_____
		Manifold gasket .017 to .023	_____
		Case gasket .017 to .019.....	_____
		Base/Barrel gasket .014 to .018 <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 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 – painting, anodizing, & etching allowed	
<input type="checkbox"/>	<input type="checkbox"/>	l) Bore and Stroke	
		34mm (1.338 inch) bore.....	_____
		28mm (1.102 inch) stroke	_____