

# APPLICATION FOR IMPBA WORLD RECORD

## GAS

### INSTRUCTIONS

(Application, Rev. MARCH 2025) (LSG Super Sport Spec Engine Inspection checklist, Rev. Apr. 2023)

**Please type or print legibly.** It is recommended that the host club keep a copy of this completed application in case the original is 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.  
To set a new record: Either TIME or MPH must exceed previous by .250 sec OR .250 mph

#### POWER SPECIFICATIONS:

There must be 2 different people inspect the engine(s) for technical standards.  
Complete the Super Sport Spec Engine 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.

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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): \_\_\_\_\_

**SPONSORING CLUB**

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

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

**Please circle TIME or SPEED** (whichever record is based on).

**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 will be printed with the record listings to help promote our manufacturers products to the model boating community. 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 Super Sport Spec Engine, check box . Complete Super Sport Spec Engine Inspection checklist.

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

**Record two readings & determine average**

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

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

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

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

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

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

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

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

**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.

**POWER INSPECTORS** (sign and print name)

**IMPBA #**

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

\_\_\_\_\_

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

\_\_\_\_\_

**HULL SPECIFICATIONS**

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

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) JERSEY SKIFF**

1. Meets all requirements for Super Boat Offshore (IMPBA Rule Book Sec. I (V) (E) ).....  Pass     Fail

**E) 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 Super Sport Spec Engine Inspection .....  Pass     Fail  
 4. Hull meets all dimensional & drive train requirements for Crackerbox (IMPBA Rule Book Sec. I (V) (E) ) .....  Pass     Fail

**F) 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 Super Sport Spec Engine 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

**G) JERSEY SKIFF**

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

**H) GAS SCALE UNLIMITED (1/6 Scale)**

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

**I) 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**

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**ADDITIONAL INSTRUCTIONS**

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

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

**JASON O'BRIEN – RECORDS  
5750 BAXTER LANE  
HAHIRA, GA 31632**

Please consider scanning and submitting as attachment via email to:

**records@impba.net**

Questions? Contact Jason (229) 740-0156

# LSG Super Sport Spec Engine 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 an unmodified 257, 1027, or 644 with choke carburetor.** No internal modifications allowed. Replacement parts must be Original Equipment Manufacturer (OEM) and for 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.

### Inspection to include all parts of engine:

PASS	FAIL		<u>If "Fail", please document item measurement</u>
<input type="checkbox"/>	<input type="checkbox"/>	a) Fasteners: OEM 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: OEM	
<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 OEM	
		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 .....	_____