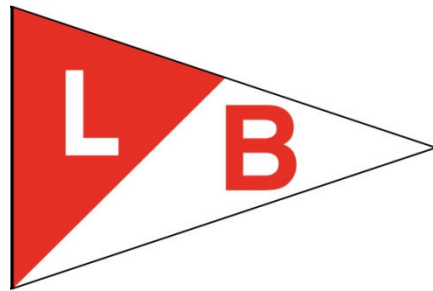


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# LAKE BEULAH YACHT CLUB



## Race Committee Manual

### CHASE BOAT



May 31, 2017

Lake Beulah Yacht Club  
N9229 East Shore Road

East Troy, WI 53120  
[www.lbyc.us](http://www.lbyc.us)

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# Race Committee Manual

Lake Beulah Yacht Club



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## Introduction

### Purpose

This manual is intended to help train LBYC Race Committee (RC) volunteers. The manual provides the strategy and equipment to run high-quality races at LBYC. The guidelines in this manual follow the US Sailing Racing Rules of Sailing 2017-2020 with LBYC Sailing Instructions Prescriptions.

### Goal

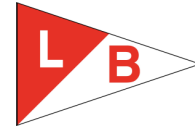
1. Have the Race Committee Boats on the course early enough to be organized & prepared.
2. Set the Race Course with a Windward Leg as close to straight up-wind as possible.
3. Set a Starting Line that is square-to-the-wind direction
4. Provide a safe competitive racing environment. Place Marks in sailable locations.
5. Start the Sequence on-time or as-close-as-possible.
6. Make the best decisions and adjust to changing wind patterns and weather conditions.

### The Manual

This full manual includes Guidelines for the Chase Boat, supplemented by Charts, and Checklists. The attachments include the: Equipment Operation and Inventories; Contact Information. The complete LBYC Race Committee Manual and supporting tutorial videos can be found on the LBYC website: [www.lbyc.us](http://www.lbyc.us)

### Race Committee Roles

- Principal Race Officer (PRO). The PRO is responsible for managing the race, including determining whether to race, setting the course, and judging the start/finish. The PRO may request the Signal Boat and Chase Boat to perform portions of these duties, but the PRO remains responsible and must ensure that delegation does not interfere with the Signal and Chase Boat primary duties.
- Signal Boat. The Signal Boat is responsible for posting the course, administering the starting sequence, and recording finishes. The PRO may request the Signal Boat to perform other duties, such as anchoring to form part of the start/finish line and judging the start/finish.
- Chase Boat. The Chase Boat is responsible for assisting competitors. The PRO may request the Chase Boat to perform other duties, such as setting/moving marks. However, the Chase Boat must not let other duties interfere with its primary responsibility to assist competitors.



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### Chase Boat Guidelines

#### Prior to the Race

- Be on the water at least 45 minutes before the race.
- Bring a cell phone in case of emergency medical assistance is needed.
- **Read the emergency instructions - where to take injured person to meet paramedics. Know yacht club address to send paramedics.**
- Pickup 3 buoys from Signal Boat. (Windward Mark, Offset, & Pin End of Starting Line)
- Pickup CHASE BOAT Bag from Signal Boat (with Wind Indicator (stick) & Hand Bearing Compass).

#### Responsibilities on the Water

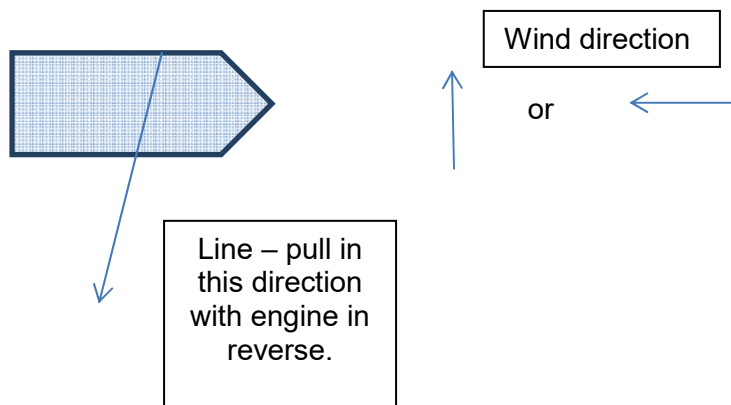
- **Primary responsibility is to assist sailors.** Constantly scan the course for vessels or persons in need of assistance. This is best done from the middle to back of the fleet.
- Communicate with PRO via UHF Channel 72 that you are on the water.
- PRO asks Chase Boat to take wind readings at the likely windward mark location.
- PRO confirms windward mark location and Chase Boat sets windward and offset marks.
- Chase Boat returns to starting area and assists PRO setting Pin End or starting line.
- After the start, the PRO may ask the Chase Boat to assist setting the gates.
- The Chase Boat then proceeds to escort the fleet.
- Other tasks should only be attempted if you can accomplish them while watching the course. Be prepared to abandon these tasks immediately if sailors need assistance. If needed, ask another power boat to help with non-essential tasks, such as the following:
  - Help right a capsized or turtled boat.
  - Pick up or set marks as instructed by the PRO.
- Avoid towing a swamped boat, due to the time required. Ask another boat to help.

#### Assistance procedures

- Sailor in the water or in trouble in boat:
  - Ask: are you OK?
  - Use throwable cushion or throwable rescue line if needed.
  - If needed, get the sailor into the Chase Boat:
    - Approach slowly. Turn off engine (not just neutral).
    - Assist sailor into boat with hands. Or use boarding ladder.
  - For medical issues, ask Signal Boat to call for emergency help or call using cell phone. Add this number to your cell phone:
    - **EAST TROY Town Police: 262-642-3700.**
    - 911. Club address is N9220 East Shore Road. For cell phone calls to 911, ensure the dispatcher understands the location.
  - Once the assistance is rendered, your focus should go back to the rest of the fleet for other persons or vessels in need of assistance.

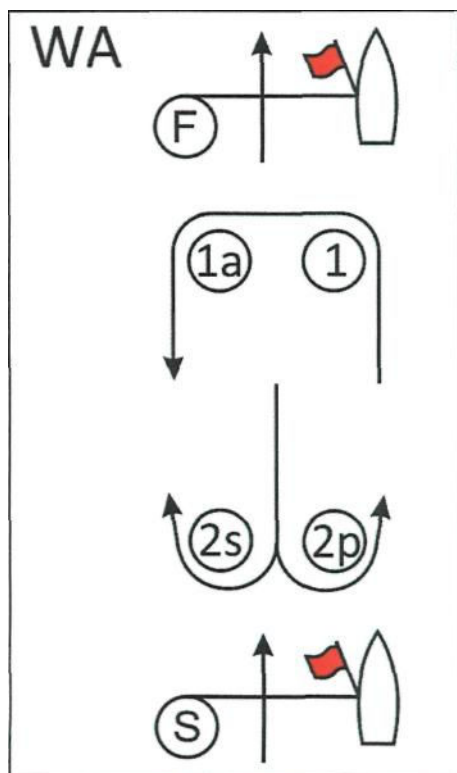


- Righting a capsized boat:
  - Make sure sailors are OK first.
  - Make sure the rest of the fleet is OK.
  - Approach the mast tip carefully with the last several feet in neutral. Avoid the sail.
  - Have a partner hold the mast tip.
  - The boat is more likely to stay up once righted if the bow is into the wind and boom vang is loose. You can tow the mast around so the bow is into the wind.
  - Make sure sailors are clear of boat and that they acknowledge readiness to right the boat.
  - Lift the mast out of the water. In many cases the boat will then right itself. In other cases, you may have to walk the mast up with hand-over-hand motion.
  - Ensure the sailors can get back in the boat. Assist if needed.
  - Once the sailor is safely back on board, your focus needs to be back on the rest of the course for other potential safety issues. Have other boats assist with retrieving lost items from water.
  
- Righting a turtled boat
  - Make sure sailors are OK first.
  - Make sure the rest of the fleet is OK.
  - Secure a line to the side stay attachment point (chain plate) at the deck on the downwind side of the boat. Secure the other end of the line to the cleat on the stainless steel bow rail. Use the engine in reverse to pull the line in the direction shown. Steer in reverse to keep the angle as shown to prevent the boat from simply spinning.
  - Once righted, the sail must be taken down before the boat is towed. Ask another power boat to tow the boat home.





### Course Designations & LBYC Courses

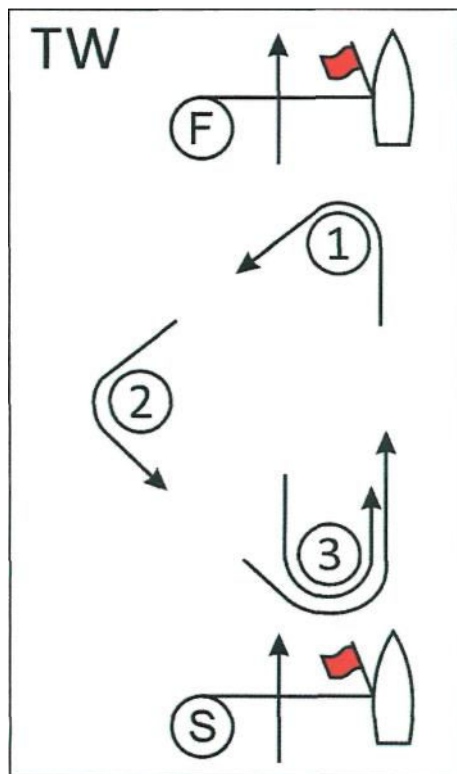
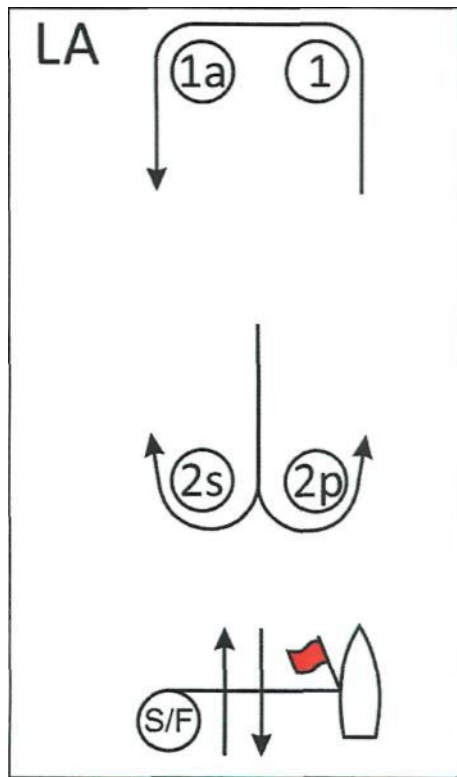


Course WA - Windward/Leeward with Offset Mark, Windward Finish	
<i>Signal</i>	<i>Mark Rounding Order</i>
WA2	Start - 1 - 1 a - 2s/2p - Finish
WA3	Start - 1 - 1a - 2s/2p - 1 - 1a - 2s/2p - Finish
WA4	Start - 1 - 1a - 2s/2p - 1 - 1a - 2s/2p - 1 - 1a - 2s/2p - Finish

Course LA - Windward/Leeward with Offset Mark, Leeward Finish	
<i>Signal</i>	<i>Mark Rounding Order</i>
LA2	Start - 1 - 1a - 2s/2p - 1 - 1a - Finish
LA3	Start - 1 - 1a - 2s/2p - 1 - 1a - 2s/2p - 1 - 1a - Finish
LA4	Start - 1 - 1a - 2s/2p - 1 - 1a - 2s/2p - 1 - 1a - 2s/2p - 1 - 1a - Finish

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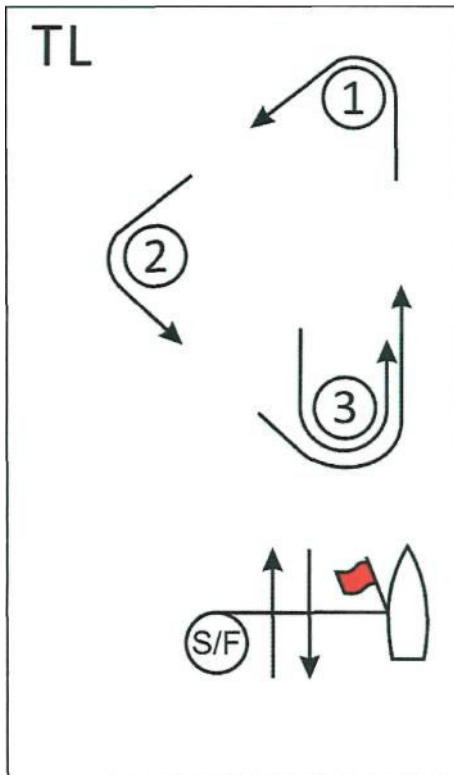
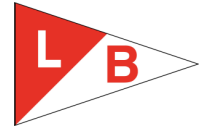


Course TW - Triangle, Windward Finish	
Signal	Mark Rounding Order
TW2	Start-1 -2-3-Finish
TW3	Start - 1 -2 -3 -1 -3 - Finish
TW4	Start -1-2-3-1 -3-1-3- Finish

Course TL - Triangle, Leeward Finish

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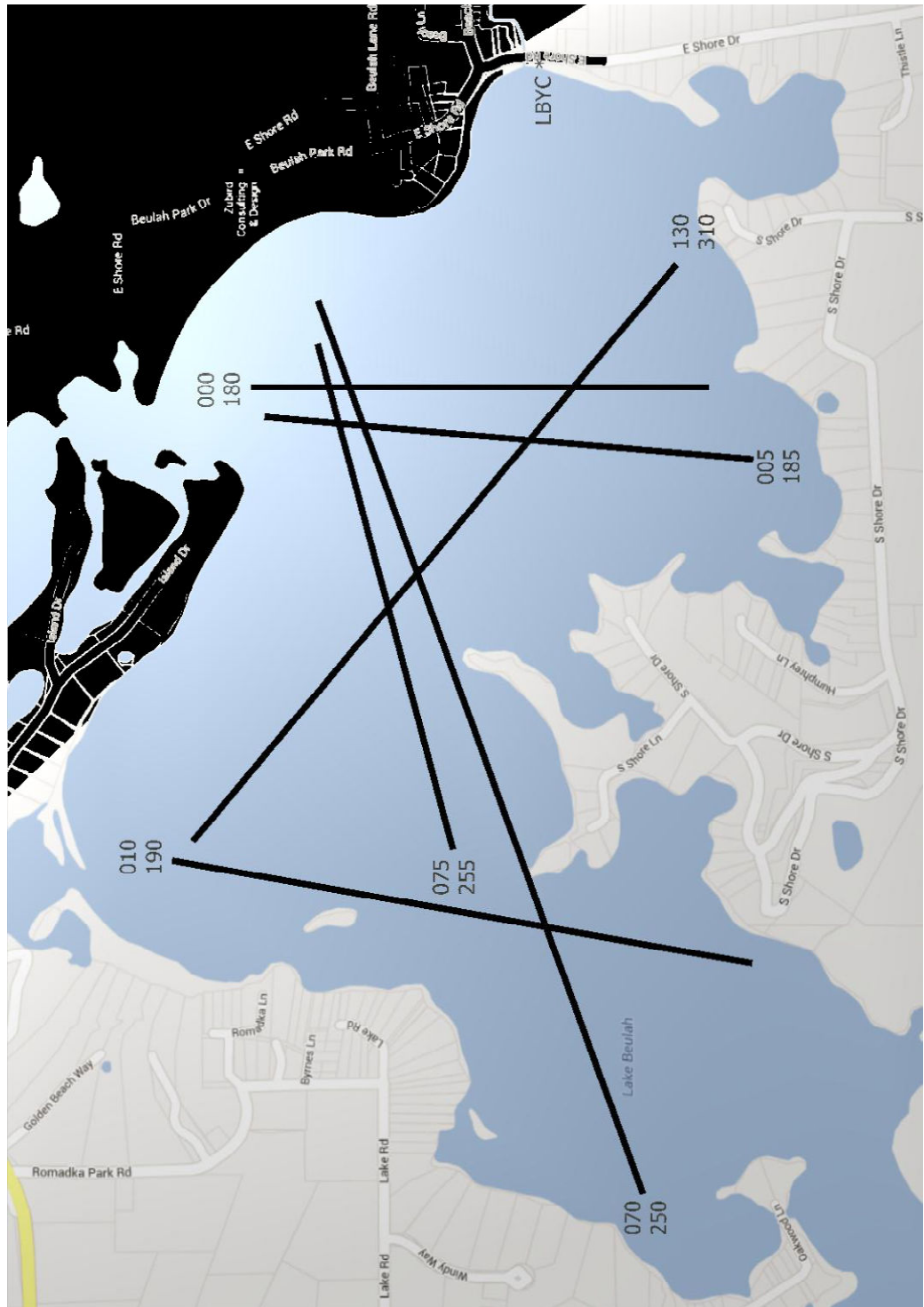
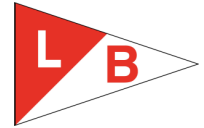
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<i>Signal</i>	<i>Mark Rounding Order</i>
TL2	Start - 1 - 2 - 3 - 1 - Finish
TL3	Start - 1 - 2 - 3 - 1 - 3 - 1 - Finish
TL4	Start - 1 - 2 - 3 - 1 - 3 - 1 - 3 - 1 - Finish

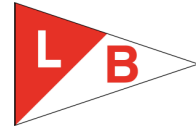
# Race Committee Manual

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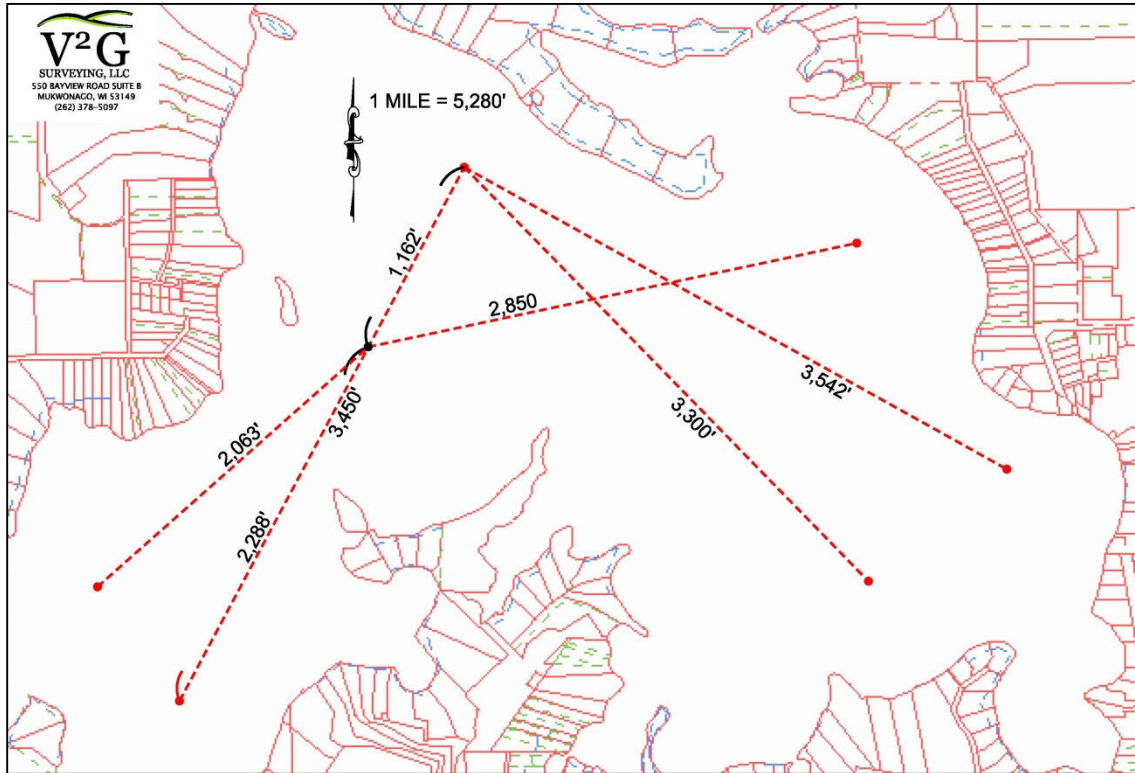


Lake Beulah Racing Area Course Map





### Lake Beulah Racing Area Map



### Recommended Number of Legs

Class	C		MC/X	
	5-8 mph	8-20 mph	5-8 mph	8-20 mph
Recommended Laps	WA4	WA5	WA3	WA4

Note: Recommended number of legs is for a 45-60 minute race using the typical maximum course length on Beulah (~3500 feet) at the higher end of the wind ranges shown. Use fewer legs if Wind Speed is in lower end of range.

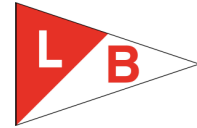
When C Scows race back-to-back, the preferred courses are LA3 and WA4.

### Starting Line Lengths By Fleet and Number of Boats (in yards)

	<u>5</u> boats	<u>10</u> boats	<u>15</u> boats	<u>20</u> boats	<u>25</u> boats	<u>30</u> boats	<u>35</u> boats
<b>C</b>	50	100	150	200	230	260	290
<b>MC/X</b>	40	80	120	160	185	210	230
<b>Opti</b>	20	40	60	80	100	120	140

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## Windward-Leeward Course Headings (Reciprocals)

Windward	Windward	Start / Finish Line
000 (180)	180 (000)	090 - 270
005 (185)	185 (005)	095 - 275
<b>010 (190)</b>	<b>190 (010)</b>	<b>100 - 280</b>
015 (195)	195 (015)	105 - 285
020 (200)	200 (020)	110 - 290
<b>025 (205)</b>	<b>205 (025)</b>	<b>115 - 295</b>
030 (210)	210 (030)	120 - 300
035 (215)	215 (035)	125 - 305
<b>040 (220)</b>	<b>220 (040)</b>	<b>130 - 310</b>
045 (225)	225 (045)	135 - 315
050 (230)	230 (050)	140 - 320
<b>055 (235)</b>	<b>235 (055)</b>	<b>145 - 325</b>
060 (240)	240 (060)	150 - 330
065 (245)	245 (065)	155 - 335
<b>070 (250)</b>	<b>250 (070)</b>	<b>160 - 340</b>
075 (255)	255 (075)	165 - 345
080 (260)	260 (080)	170 - 350
<b>085 (265)</b>	<b>265 (085)</b>	<b>175 - 355</b>
090 (270)	270 (090)	180 - 000
095 (275)	275 (095)	185 - 005
<b>100 (280)</b>	<b>280 (100)</b>	<b>190 - 010</b>
105 (285)	285 (105)	195 - 015
110 (290)	290 (110)	200 - 020
<b>115 (295)</b>	<b>295 (115)</b>	<b>205 - 025</b>
120 (300)	300 (120)	210 - 030
125 (305)	305 (125)	215 - 035
<b>130 (310)</b>	<b>310 (130)</b>	<b>220 - 040</b>
135 (315)	315 (135)	225 - 045
140 (320)	320 (140)	230 - 050
<b>145 (325)</b>	<b>325 (145)</b>	<b>235 - 055</b>
150 (330)	330 (150)	240 - 060
155 (335)	335 (155)	245 - 065
<b>160 (340)</b>	<b>340 (160)</b>	<b>250 - 070</b>
165 (345)	345 (165)	255 - 075
170 (350)	350 (170)	260 - 080
<b>175 (355)</b>	<b>355 (175)</b>	<b>265 - 085</b>
180 (000)	000 (180)	270 - 090

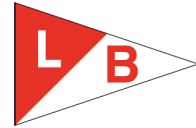


### Attachment 7. Chase Boat Operation and Inventory

- Keys for boat and lift are in a lock box on the Chase Boat lift. The box opens with a crane key.
- To activate the lift, flip the save/run button on the panel to the run position (right).
- To raise and lower the lift, use the remote on the key fob or insert the small black key into the lift panel. An extra lift key is in the clubhouse in the drawer with the keys.
- Check the equipment in the Chase Boat:
  - Lifejackets (under seat in front)
  - Throwable cushion
  - Throwable rescue line (in seat on front of console)
  - Boarding ladder
  - Boat hook
  - Paddle
  - Whistle (hanging on console)
  - Long line for righting turtled boats (in seat in front of console)
  - Console radio: Should be off; turn on with volume control knob. If needed, get a portable radio from the Signal Boat.
  - Fuel. The boat should have been fueled prior to each weekend. To check fuel, look at the bubble gauge under the small circular hatch cover in the center of the floor in front of the console.
- Before starting the boat, check the tubes and make sure they are stiff. If needed, use the foot pump under the seat in front of the console to inflate. **Operation of the boat with under-inflated tubes seriously degrades tube life.**
- To start the boat, check gear in neutral, raise the fast idle lever, turn key (push key in to choke). Lower fast idle lever when engine running smoothly.
- Troubleshooting:
  - No electric power: Check master switch under driver's seat – should be in position 1.
  - Engine won't turn over: Remove engine cover and check main fuse. Instructions on back of page.
  - Call House and Grounds Chair – see contact numbers – (Attachment 7).
- When finished with boat ensure the following:
  - Radio off
  - Place buoys, flags, etc. in Signal Boat
  - Remove debris
  - Raise lift so bottom of boat is out of water
  - Place lift save/run switch in save position
  - Replace keys in Signal Boat lockbox

# Race Committee Manual

## Lake Beulah Yacht Club



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### Attachment 8. Contact Information

Lake Beulah Yacht Club	262-642-4468	Club address is: N9220 East Shore Road East Troy, WI 53120  For 911 calls from cell phone, ensure dispatcher understands location of caller.
Emergency Numbers	911	
	262-642-3700 (ET Police)	
Sailing Commodore (Steve Barth)	847-274-3480 (cell)	
House and Grounds Chair (John Porter)	262-975-0097 (cell)	