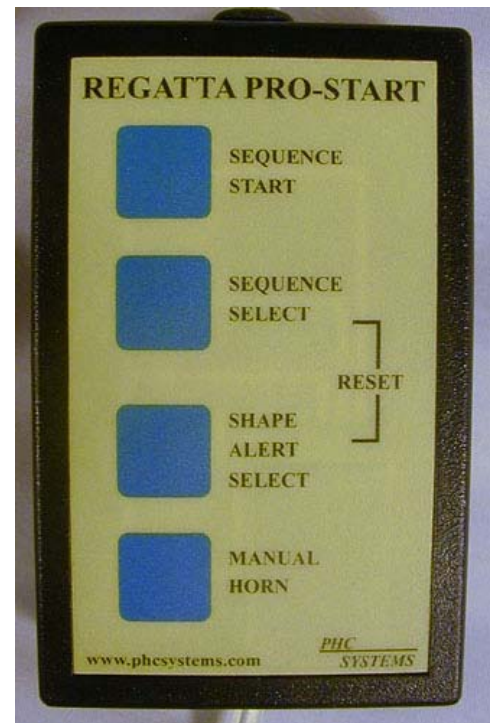
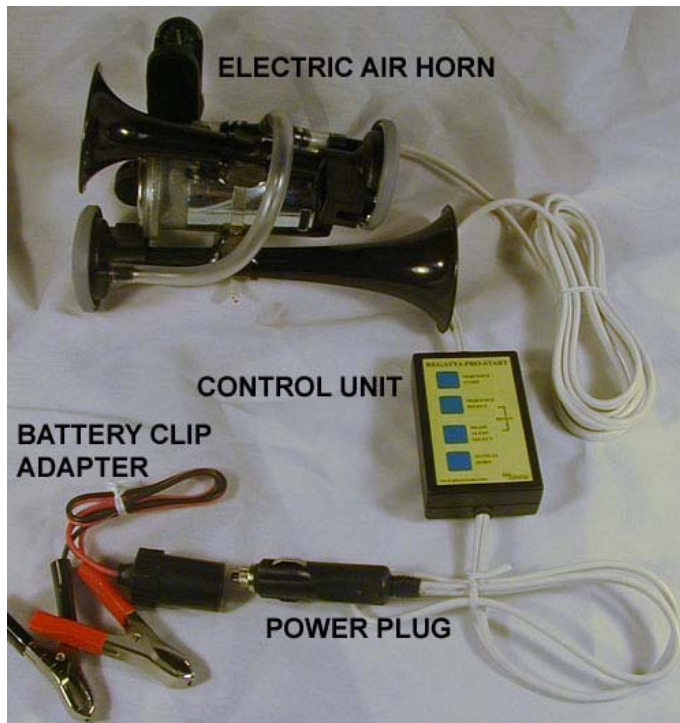


# Lansing Sailing Club

## Regatta Pro-Start Instructions

**Regatta Pro-Start** is an automatic starting horn that relieves the Race Committee of the demanding task of keeping time for blowing horns or whistles. **NOTE: Bring your stop watch anyway as a back up.** It is easy to use, once you know how. However, Race Committee members will want to familiarize themselves with it before race day. Using Pro-Start is a simple four step process:

1. Connect Pro-Start
2. Select the Starting Sequence
3. Select the Alert Time
4. Start the Sequence



### Connect Pro-Start

The Pro-Start is stored in a box under the bench on the Race Committee Boat.

Connecting Pro-Start is very easy. The Battery Clip Adapter comes with alligator clamps. Connect the **red** alligator clamp to the positive (+) terminal of the battery. Connect the **black** alligator clamp to the negative (-) terminal of the battery.

The Power Plug end of the Control Unit then connects into the black receptacle of the Battery Clip Adapter.

When Pro-Start is properly connected to the battery, it will sound a short “beep”.

Clip the horn to the top of the Committee Boat canopy near the mast. **NOTE:** be sure to remove the horn from the canopy when moving the Committee Boat to avoid having the horn fall in the water or into the boat and become damaged.

## Resetting Pro-Start

After a starting sequence, Pro-Start will continue with another sequence unless reset. To reset Pro-Start, press the Sequence Start and Shape Alert Select buttons at the same time. Another example of when you might want to reset is to restart a sequence.

## Select the Starting Sequence

Pro-Start comes with six different starting sequences built into it. Press the **Sequence Select** button once and Pro-Start will beep to tell you what sequence is currently selected. Here are the different starting sequences and the beep code that is sounded for each one.

1 Minute Dinghy Start	– (one beep)
3 Minute Dinghy Start	– – – (three beeps)
5 Minute 2001 Start	– – – – – (five beeps)
2 Minute rolling Start	– – – – (two beeps followed by two more beeps)
3 Minute rolling Start	– – – – – (three beeps followed by three more beeps)
5 Minute rolling Start	– – – – – – – – – – (five beeps followed by five more beeps)

For Laser and Sunfish racing, we use the **3 Minute Dinghy Start**. For Lightning racing, we use the **5 Minute 2001 Start**.

If the starting sequence that is currently selected is not the one you want, press and hold the Sequence Start button to cycle through the sequences. Release the button just after you hear the sequence you want.

## Select the Alert Time

When you press the **Sequence Start** button, Pro-Start sounds the horn a few times to alert sailors that the sequence is about to start. The amount of time between these horn sounds and the start of the sequence is called the **Alert Time**.

Press the **Shape Alert Select** button once and Pro-Start will beep to tell you the amount of alert time that is currently selected. Here are the different alert times and the beep code that is sounded for each one.

No Alert Time	– (one beep)
20 Second Alert Time	– – (two beeps)
30 Second Alert Time	– – – (three beeps)
40 Second Alert Time	– – – – (four beeps)
50 Second Alert Time	– – – – – (five beeps)
60 Second Alert Time	– – – – – – (six beeps)

For all racing at the Lansing Sailing Club (Lightnings, Lasers and Sunfish), we use the **20 Second Alert Time**.

If the alert time that is currently selected is not the one you want, press and hold the Shape Alert Select button to cycle through the alert times. Release the button just after you hear the alert time you want.

## Start the Sequence

Start the sequence by pressing the **Sequence Start** button. If you select “No Alert Time”, there will be a fifteen second wait before the first horn sounds.

## Manual Horn

You can press the **Manual Horn** button at any time to sound the horn. An example of when you would want to do this is to signal recalls. Using the Manual Horn in the middle of a sequence does not affect the sequence.

## Individual and General Recalls

Use the **Manual Horn** button to sound the horn once (and display Flag X) for an individual recall. Sound the horn twice for a general recall (and display the First Substitute Flag).

## Horn Sounds in the 5 Minute 2001 Start Sequence

A complete sequence of horn and beep sounds for the 5 Minute 2001 Start Sequence is found in Appendix A. Horn sounds are:

- Four short horn blasts when the Sequence Start button is pressed to alert sailors that the sequence will be starting in 20 seconds (assuming the Alert Time is set for 20 seconds).
- One horn blast at 5 minutes before the start. Raise the Class Flag at this time.
- One horn blast at 4 minutes before the start. Raise the Preparatory Flag at this time.
- One long horn blast at 1 minute before the start. Lower the Preparatory Flag at this time.
- One horn blast at the start. Lower the Class Flag at this time.

If Pro-Start continues to beep, press the Reset Buttons.

## Beeper Sounds to Help the Race Committee

There will be a short beep every ten seconds (at 10, 20, 30, 40, and 50 seconds) during all sequences – except when the horn is sounding. For example, at the 30 second mark of a 3 Minute Dinghy Start the horn will sound three times – so there will be no beep.

Between horn sounds, Pro-Start emits beeper sounds at various times to help the Race Committee know when a horn sound is coming. There will be a long beep 15 seconds before every horn sounding. There will also be a 5-4-3-2-1 beep countdown before every horn sounding. These beeps help the Race Committee time the raising and lowering of flags.

During the 5 Minute 2001 Start Sequence, between horn sounds, the Pro-Start beeper will sound at the minute marks where there is no horn. At three minutes before the start, there will be three medium length beeps. At two minutes before the start, there will be two medium length beeps.

Appendix A contains the complete sequence of horn and beep sounds for the 5 Minute 2001 Start Sequence.

## Controlling Volume

Horn blasts are loud. They can be muted somewhat by putting a bag over the horn or putting the horn inside a box – particularly if the box contains some insulating material. Muting the horn blasts will be desirable on light air days.

# Appendix A

