

## SmartWinch Setup Procedure

### Failsafe Receivers Push/Pull Method

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#### *Before starting*

*Winch is off and winch servo lead plug disconnected from rx*

*Winch battery pack fully charged (if battery testing to be enabled)*

*Leave tx on for the entire procedure.*

1. With tx turned on, move tx stick (and trim) to the end for sails close hauled.

*When the winch is turned on it will give the startup signal then will countdown by sounding a short single beep tone once per second for the first 9 seconds. At 10 seconds, it will give a 3 beep signal. This is the signal to push the winch servo lead into the rx. It's best to have the plug very close or slightly inserted into the rx (without making electrical contact) because it is critical to get the plug into the rx within 3 seconds of the 3 quick beeps. This only applies to the first time the plug is inserted. All subsequent insertions during the procedure are at your leisure.*

2. Turn the winch on and wait 10 seconds till the 3 beep signal then push the winch servo lead plug into the rx socket immediately (within 3 seconds).

*If a single long beep is heard, then setup mode has been entered and the tx close hauled position has been sampled. Continue on to step 3.*

*If three rising tones are heard then setup mode was not entered. Return to start.*

3. Pull the plug out of rx.
4. Move tx stick (**not** trim) to opposite end for sails fully out then push the plug back into rx.

*At this point another long beep will have sounded indicating that the sails full out tx position has been sampled.*

5. Pull the plug out of rx

*At this point another 3 beep signal will sound to indicate that the two samples of tx position just taken have now been stored. If you don't need to go into travel or battery monitoring sections of setup, then simply turn the winch off. If the only purpose for doing setup this time was to change tx then travel setting is not necessary and so the winch should be turned off. Otherwise continue on to the next step.*

6. Detach the sheet lines or remove the drum.

*This step is only recommended for first time setup. Any subsequent execution of the setup procedure in the same boat may be done with sheets attached even if changing tx or travel length. When the winch servo lead is next inserted into the rx, the winch will drive itself to the travel starting point (close hauled). The winch must be free to drive to this position. If not sure then remove the drum or disconnect the sheets.*

7. Move tx stick back to close hauled then push the plug back into the rx.

*Once travel starting point is reached, 2 quick beeps will sound. Once this 2 beep signal is heard you drive the winch in the normal manner using the tx. If not done already, install the drum and setup the sheets so that the main boom is at close hauled when tx stick is at close hauled. Take care when running the winch with sheets attached as it is set for maximum travel at this time and it would be easy to overrun. The winch will drive at 1/3rd normal speed during this travel setting phase of setup.*

8. Using the tx, drive the winch out till the main boom is at the desired fully sheeted out position. With the boom in position for sails full out, pause for at least one second without moving the winch, then pull the plug out of the rx.

*At this point another three beep signal will sound indicating that the new travel setting is stored. If you do not wish to make any changes to your battery monitoring settings, turn winch off now.*

*Or if you wish to change the existing battery monitoring settings then perform either step 9a or 9b.*

- 9a To select the battery monitoring option and have the winch determine the battery pack size then push the plug into the rx and wait till you hear either 1, 2 or 3 quick beeps.
- 9b To turn off battery monitoring push the plug into the rx, pause no longer than one second then pull it back out again.

*If three rising tones have sounded, 9b was performed and battery monitoring is now off. If 1, 2 or 3 quick beeps were heard then step 9a was performed and battery monitoring is turned on. The number of beeps corresponds to the battery monitoring level set.*

Setup is now complete. Happy sailing.

Note: This procedure can be performed as often as you like. There are no special requirements for deleting old settings before performing the procedure. Old settings are automatically replaced when new settings are made.