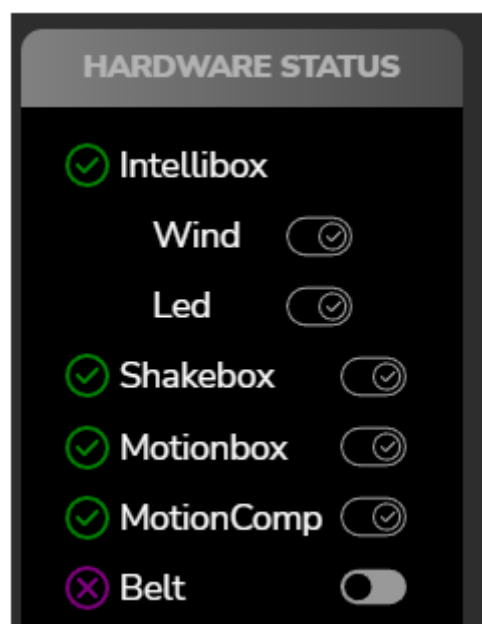


How to Setup the TensionR Active Belt

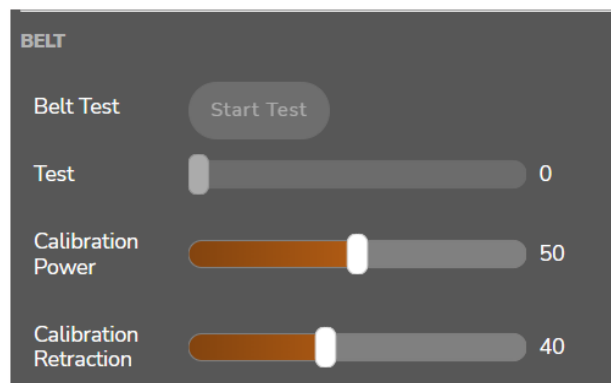
It is strongly recommended to install the latest beta of Sim Racing Studio prior to setting up your TensionR Active Belt.

Download the latest version [here](#).

1. Install the TensionR Active Belt onto your motion platform.
 - a. If you have a multi-level motion platform, please ensure the TensionR Active Belt is at the same level that moves the seat. Not at the bottom/static platform.
2. Connect the TensionR Active Belt USB cord to your PC.
 - a. Note: If possible, avoid USB Hubs and connect directly to your PC to avoid any USB issues.
3. Connect the TensionR Active Belt Power Adapter
4. Open Sim Racing Studio (SRS)
5. When connecting the TensionR Active Belt for the first time, drivers need to be installed. Please follow up on instructions provided in Sim Racing Studio.
6. Close and then Restart SRS
7. In the Hardware Status for SRS, check if the Belt status has a Green Checkmark which can take up to 10 seconds when starting SRS.
 - a. If Red, check the USB connection and drivers (SRS will prompt you to install drivers if you need them)
 - b. If Purple, disconnect the TensionR power, wait 30 seconds and then reconnect the power. This will reset the Belt to allow it to be detected by SRS



8. If Green, go to the SETUP -> HARDWARE page.
 - a. Scroll down to the Belt section.
 - b. Next to Belt Test, click on the 'START TEST' button.
 - i. In the HARDWARE STATUS window, the Belt switch will turn on and a pop-up will appear in SRS asking to CALIBRATE the belt.
 - c. Ensure you are wearing your belt before proceeding to the next step. See the 'TensionR Belt Locking Mechanism and Release' section at the bottom of this guide for guidance on using the belts.
 - i. Note. You do not need to tighten the shoulder part, leave it a little loose on the shoulders with about 3 fingers high of clearance.
 - ii. To loosen the belt, ensure the Belt toggle switch is OFF (button switch is on the left) in the HARDWARE STATUS section.
 1. Note: Once the Belt switch is ON (button switch is on the right), the belt will not move when pulled by hand.
 - iii. When the Belt switch is OFF, you can pull the belt out from the TensionR box in order to have additional length
 1. Note: It will require some force to pull it out even with the Belt switch OFF.
 - d. Click on CALIBRATE.
 - i. The belt will pull up until it presses your shoulders tightly and then retracts a small amount. This will leave the belts in a neutral position which is how they will feel during racing when no effects are occurring. If the belts feel too tight after calibration, start the calibration process again but do not press as tight into the back of the seat.
 - ii. You can control Calibration power and retraction in the SRS Setup -> Hardware page.
 - iii. Ensure the belt stopper, the small buttons in the middle of the belts, are not hitting the plate on the top of the TensionR Active Belt box when retracting. If a belt stopper is hitting the plate, retract the belts out further with the Belt switch OFF and adjust their length at your shoulders - OR - adjust the height of your seat.



- iv. **Note: To ensure safety and optimal immersion, SRS requires you to CALIBRATE the belt system every time you enter a game. It is**

strongly suggested you program keyboard/button box SHORTCUTS to turn ON/OFF and CALIBRATE your belt (see the 'How to Create Belt ON/OFF and Calibration Shortcuts' at the bottom of this guide.

- v. If you feel the Calibration process is too weak or too strong, you can adjust the "Calibration Power" slider accordingly to increase or reduce the strength of the belts as they calibrate. Once the Calibration Power is set, restart the Calibration process at step #8.
 - e. Once the TensionR Active Belt has finished calibration, the belts will stop moving. You can test the TensionR Active Belt movement via the Test slider which will retract the belts.
9. Once finished, click STOP TEST
 10. Click SAVE in the upper right section of SRS in the PROFILE IN USE window.
 11. Your TensionR Active Belt is now ready for racing!
 12. You can find more information on tuning your TensionR Active Belt from the TensionR Active Belt Tuning Guide [here](#).

If there are mechanical issues or the TensionR Active Belt system will not turn on, please contact PT Actuator [here](#).

If the TensionR Active Belt system appears on in SRS, please review the Troubleshooting section at the bottom of the TensionR Active Belt Tuning Guide [here](#) or contact SRS [here](#) for assistance.

TensionR Belt Locking Mechanism and Release

The TensionR Active Belt uses a 5-point harness. One of the lap belts will have the belt locking mechanism permanently attached. The other 4 belts (crotch, lap, and left and right shoulder belts) are connected to the belt locking mechanism after you are seated on the platform. Once all belts are connected, proceed with the SRS calibration process.

- When connecting the belts, ensure the locking mechanism lever is pointed up or down (depending on how you installed the locking mechanism belt). This will ensure it is reset and ready to accept the belts.
- When releasing the belts, rotate the locking mechanism all the way towards the side of the seat that has the belt with the belt locking mechanism. There will be a click sound/feeling and all 4 belts will disconnect leaving the locking mechanism lap belt still connected.
- Remember to reset the locking mechanism by moving the lever to be pointed up or down (depending on installation) so it will be ready to lock the belts into place the next time you use the TensionR Active Belt.

How to Create Belt ON/OFF and Calibration Shortcuts

1. In Sim Racing Studio, go to the TUNING -> ACTIVE BELT page
2. Click on the Keyboard icon on the top right of the screen
3. Select Type = Belt Switch to program On/Off shortcut and type = Belt Calibrate for the calibrate shortcut
4. Program the Keyboard and/or ButtonBox you want for that function
5. Click Confirm
6. Click Save
7. Repeat from step 2 to program the other shortcuts

Troubleshooting Steps:

Try latest drivers from manufacturer site

https://www.silabs.com/documents/public/software/CP210x_Universal_Windows_Driver.zip

One or both belts did not calibrate correctly (feeling loose)

1. Try to calibrate again using the keyboard/joy shortcut. If that does not solve, go to step 2
2. Turn off belt toggle (hardware status) using the keyboard/joy shortcut or your mouse.
3. Pull belt about 2 inches (5 cm) from your shoulder
4. Turn back on
5. Press calibrate or use a keyboard/joy shortcut to calibrate again.
6. Repeat until calibration is done
7. If that fails to resolve the issue, try the following steps:
 - a. Close SRS
 - b. Remove the belt from power for 1 minute (Warning: Do NOT unplug the unit from the 12V-DC connection port on the unit. Unplug it from the electrical socket.).
 - c. Reconnect the power to the TensionR Active Belt
 - d. Re-open SRS.
 - e. Try the calibration process again.

