Have your NESS H200 checked out every one to two years by an authorized Bioness technician. Contact the NESS H200 Technical and Clinical Support Department at (800) 211-9136, Option 3, for details, or visit the Bioness website: www.bioness.com.

Replacing the Control Unit Battery

The Control Unit battery should last for approximately two years before needing to be replaced. Contact Bioness or your local distributor for battery replacement instructions.

⚠️ **CAUTION: Only Bioness should change the Control Unit battery.**

Low Battery Warning

The Control Unit will emit audio and visual warnings when the battery charge level is low. Depending on the age of the battery, the warnings will start 2 to 10 minutes before the battery is completely discharged. The display screen will show a flashing “L” (low) and the Control Unit will beep, slowly at first and then faster.
Checking the Battery Charge Level

To check the battery charge level:

1. Press and hold the \textit{mode} button.

2. A battery status indicator and a number will appear on the left side of the display screen. The number (0–9) represents the battery charge level. See Figure 29.

\begin{figure}[h]
\centering
\includegraphics[width=0.5\textwidth]{battery_charge_level}
\caption{Battery charge level indicators.}
\end{figure}

\textbf{NOTE!}

As a battery ages, the battery status indicator may become less reliable. It may indicate that the battery is partially charged when it is almost discharged.
Charging the Battery

The Control Unit contains a rechargeable battery. The battery will need to be recharged after approximately 15 hours of use. As the Control Unit battery ages it will hold less charge. It will require charging after fewer hours of use.

To charge the Control Unit battery:

1. Press the CABLE cable release button on the Control Unit to release the Orthosis cable connector.

2. Insert the battery charger cable connector into the cable connector socket until it clicks. See Figure 30.

Figure 30: Connecting the battery charger to the Control Unit.

⚠️ CAUTION: The Control Unit battery cannot be charged when the charge level is "9".
3. Insert the battery charger power supply cable into an electrical socket.

4. Monitor the display screen as the battery charges. The display screen will show a rotating circle and a number (the battery charge level) while the battery charges. See Figure 31.

![Figure 31: Battery charging display: charge level "0".](image)

5. It takes approximately nine hours for the battery to fully charge. When charging is complete, "FULL" and "9" will appear in the display screen. See Figure 32.

![Figure 32: Full battery display while charging: charge level "9".](image)
Charging the Battery After Two Weeks of Non-Use

When the NESS H200 is not used for two weeks or more, the Control Unit battery will need to be fully charged, discharged, and fully re-charged before use.

To fully charge the battery:

1. Insert the battery charger cable connector into the cable connector socket until it clicks. See Figure 33.

2. Insert the battery charger power supply cable into an electrical socket.

Figure 33: Connecting the battery charger to the Control Unit.
3. Monitor the display screen as the battery charges. The display screen will show a rotating circle while the battery charges. The battery charge level will appear next to the circle. See Figure 34.

![Battery charging display: charge level "0".](image)

**Figure 34**: Battery charging display: charge level "0".

4. It takes approximately nine hours for the battery to become fully charged. When charging is complete, "FULL" and "9" will appear on the screen. See Figure 35.

![Battery charging display: charge level "9".](image)

**Figure 35**: Full battery charging display: charge level "9".
NOTE!
The discharge process can be started only when the battery is fully charged and the display screen shows "9".

To fully discharge the battery:

1. When "FULL" appears in the display screen, press and hold the minus button on the Control Unit until "0" flashes in the display screen.
2. Release the minus button on the Control Unit.
3. The battery will begin to discharge. Discharging will take approximately three to four hours. While the battery is discharging, "0" will continue to flash in the display screen.

To fully recharge the battery:

1. Once the battery fully discharges, the battery will recharge automatically. The battery will take approximately nine hours to fully recharge. When recharging is complete, "FULL" and "9" will appear on the screen. See Figure 36.

Figure 36: Full battery charging display: charge level "9".
Changing the Electrode Pads

The five Orthosis electrode pads should be changed every two weeks.

*To change the Orthosis electrode pads:*

1. Turn off the Control Unit
2. Disconnect the Orthosis from the Control Unit.
3. Remove the pads for electrodes #1, 2, 4, and 5. See Figure 37.
4. Unsnap and remove the pad for electrode #3. See Figure 37.
5. Clean the underlying electrodes, if necessary. Use a soft damp cloth and a mild liquid hand soap.
6. Snap a new pad for electrode #3 (round pad) into place.
7. Select the appropriate new pad for electrodes #1, 2, 4, and 5.
8. Hold each electrode pad with the white sticker facing the electrode. Then insert the corners of the pad under the corners of the electrode plastic frame.

⚠️ **CAUTION:** Do not remove the electrodes.

⚠️ **CAUTION:** Do not remove the electrode plastic frames.

⚠️ **CAUTION:** Do not use the NESS H200 without electrode pads.
Figure 37: Location of the five Orthosis electrodes.
Cleaning the Orthosis

You should clean the Orthosis regularly.

To clean the Orthosis:

1. Disconnect the Orthosis cable from the Control Unit.

2. Wipe the inner and outer surfaces of the Orthosis using a soft damp cloth and mild liquid hand soap. Do not wipe the cable connector.

3. Wipe the Orthosis dry with a soft cloth.

⚠️ CAUTION: Do not clean the Orthosis with any cleaning agents other than mild liquid hand soap.

CAUTION: Do not over-wet the Orthosis.

NOTE!
After each use, leave the Orthosis open so that the electrode pads can dry.
Your NESS H200 Control Unit is splash proof only. Always protect it from contact with water and cleaning agents.