

UNPACKING OF UNIT AND CHARGING OF BATTERIES

The CS3101 has an internal rechargeable battery pack. Although it is not necessary to recharge the batteries after each use, it is a good habit. Recharging the batteries after each use will insure the CS3101 is in fully charged condition and the highest level of battery power is available for your treatment. Recharging the batteries after each use is also good for the batteries and lengthens their useful life.

To recharge the battery pack, remove the unit and battery charger from the case, then simply insert the plug from the WA1000 wall adapter (included in the carrying case) into the “DC in” jack. Then insert the wall adapter into any standard wall receptacle. The batteries will begin recharging immediately. The LCD will be blank during charging, but if you wish to confirm that the charging operation has started and is progressing, you can turn on the CS3101 by pressing the On button. The screen will display “Plugged In” - “Charging...” Use only the WA1000 wall adapter. The use of any wall adapter or power supply other than the WA1000 could damage the CS3101 and will void the warranty.

The CS3101 cannot dispense therapy while the WA1000 wall adapter is connected to the device. This is for patient safety issues. The robust strength of the batteries in the CS3101 is sufficient to provide the power for the maximum treatment times and amplitude settings available on the device.

It is normal for the CS3101 to “warm up” during the battery recharging sequence. This is entirely normal and the device is designed to withstand the temperatures generated during the recharging sequence. The design of the charging circuitry prevents the batteries from being overcharged.

GETTING TO KNOW YOUR UNIT

The CS3101 user interface consists of 6 pushbuttons. 2 output jacks located at the side of the unit, and 1 power jack also located at the side of the unit. Their functions are as follows:

Power Button [On / Enter] Powers up the device. This button also serves as an Enter button when the unit is powered up.

Off Button [Off] Powers down the device and serves as a safety switch.

[+] Increases the parameter, or selects the next choice for the blinking parameter.

[-] Decreases the parameter, or selects the previous choice for the blinking parameter.

[<] Selects the previous parameter on the display.

[>] Selects the next parameter on the display.

Therapy Output Jack located at the bottom sides of the unit. Insert the Patient Safe therapy cables into the jacks. The opposite end of the therapy cable assembly has the metal electrode connector pins which will connect to the electrodes located on the patient's skin at the injury site.

DC-IN jack located at the top of the unit, to the right of the Therapy Output jack, is the DC input source. Only use the WA1000 AC Wall Adapter when charging your unit.

LCD, located on the front of the unit near the top, is the user interface for selecting/changing menu options and individual parameters.

ELECTRODE PLACEMENT

Once the CS3101 has been charged, you are ready to begin your treatment. You must first begin by attaching the electrodes to the wire leads and then place the electrodes in a criss-cross pattern around the treatment area. This is done as follows:

1. Take the electrodes out of the package (must use 4 electrodes.)
2. Insert pins from wire lead into the receiving end of the electrodes.
3. Insert treatment cables into the therapy output jack located on the side of the unit.
4. Place the electrodes in an "X" pattern with the same colored wire leads diagonally positioned

**ELECTRODE
CONNECTED
TO BLACK LEAD**

**ELECTRODE
CONNECTED
TO RED LEAD**

TREATMENT SITE

**ELECTRODE
CONNECTED
TO RED LEAD**

**ELECTRODE
CONNECTED
TO BLACK LEAD**

NOTE: It is very important to place electrodes in this manner or no beneficial treatment will be received. UNIT SHOULD NOT BE TURNED ON UNTIL THE ELECTRODE PLACEMENT IS COMPLETE.

OPERATING INSTRUCTIONS

- 1. Check to be sure the unit is turned off before use. LCD screen should be blank while you place the electrodes as instructed by your Physician or Therapist firmly onto the skin.**
- 3. Insert the plug on the end opposite the electrodes into the CS3101 therapy output jacks.**
- 4. You are now ready to turn on the CS3101 by pressing the “On” button.**
- 5. After the initial splash screen goes away, you should see the word “Standard” on the display. There are other pre-set therapy modes available and they can be reached by using the [<] or [>] buttons to scroll through the various pre-sets. Once you select the therapy mode you wish to use, push the “<” button once more to activate the amplitude in the selected therapy mode.**

NOTE: You will not feel any therapy current yet; you must increase the amplitude first.

- 6. The screen that appears after the therapy mode is selected is the therapy status screen. This screen indicates the amplitude, battery power remaining and time remaining to the treatment. From the therapy status screen you can adjust the amplitude (intensity) of the therapy output. Using the [+] and [-] buttons, you can increase or decrease the intensity of your treatment. Make sure to only set the amplitude (intensity) to the level recommended by your health care professional.**
- 7. If the therapy amplitude is uncomfortable for any reason, you can always turn down the amplitude by using the [-] button. However, turning down the amplitude while using Muscle Stim mode may reduce the effectiveness of muscle stimulation. Please discuss this situation with your treating physician or therapist. If no stimulation is felt, please refer to TROUBLESHOOTING YOUR CS3101.**
- 8. Your therapy has begun. and you wish to pause your therapy for any reason, press the “Off” button once. You can resume the therapy by pressing the “<” button. When the therapy resumes the amplitude is reset to zero for safety reasons, but will gradually increase the amplitude again to the last setting level you were using. If you wish to turn the device off during treatment, press the “off” (red) button twice.**

NOTE: If you press and hold down one of the [+] or [-] buttons, the amplitude will speed up rapidly. Remember to keep an eye on the display to see what changes are being made to the amplitude settings.

At the end of your treatment session, follow these quick steps to keep your CS3101 in great shape:

- Make sure the CS3101 is turned off by pressing the “Off” button. The display should go blank indicating the unit is “off ”.**
- Carefully remove the electrodes from the wire leads by firmly grasping each side of the connector and pulling it straight apart, Do not pull on the fragile wires because you may risk damaging them, Place the electrodes on their plastic sheet and return them to their resealable plastic bag. Please refer to the Care and Maintenance section for any additional recommendations**

ADDITIONAL FEATURES

Auto Shut-Off

In order to control the maximum treatment given to a patient, an automatic shut-off feature is incorporated into the CS3101. There are 20 min., 30 min., 60 min., and variable time limits (as prescribed by the physician and programmed by the clinician) that any particular session will last for. After the session timer reaches zero, the output amplitude of both channels is reduced to zero and the unit remains in an idle state. After 5 minutes in an idle state, the unit automatically shuts-off to conserve battery power and prevent inadvertent operation.

Pause / Resume

The CS3101 has a Pause and Resume feature that will allow you to suspend or “Pause” treatment to allow for the readjustment of electrodes or any external interruption. If you wish to Pause treatment, simply press the “Off” button once. The screen will display “Therapy Paused”. When you are ready to resume your therapy, press the “<” button once and the previous therapy will resume where it left off with the exception that the amplitude (intensity) setting has been reset to 000 for safety reasons and will gradually ramp up to the level you were previously on.

CARE AND MAINTENANCE

Your CS3101 is easy to maintain if cared for properly. Follow these steps to ensure long lasting performance:

1. The CS3101 unit may be cleaned by wiping gently with a damp cloth moistened with water, or with a mild soapy solution if the unit is soiled. Never use abrasive cloth on the clear LCD window, as it will reduce the visibility of the LCD. Never immerse your CS3101 or allow it to be splashed with water or other liquids.
2. Wipe the lead wires with a damp cloth, as above, if they become soiled.
3. Always store your CS3101 unit in its carrying case whenever you are not using it. This will prevent inadvertent damage.
4. After repeated uses of the reusable electrodes, they may lose their conductive property and the gel may begin to separate from the electrode. If this happens, they should be replaced. To prolong the life of the electrodes, store them between uses on their plastic sheet and reseal them in their original plastic bag.
5. Do not drop or roughly handle the CS3101.