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MEDICAL - APPLIED CURRENT/ENERGY EQUIPMENT
AS TO ELECTRICAL SHOCK, FIRE AND MECHANICAL
HAZARDS ONLY IN ACCORDANCE WITH:
ANSI/AAMI ES60601-1 (2005) + AMD 1 (2012)
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E489148

L300 **Go**[®] 

Functional Electrical Stimulation System

CLINICIAN'S GUIDE

L300 Go Clinician's Guide Copyright

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Service personnel are advised that when changing any part of the L300 Go System, care should be taken to dispose of those parts in the correct manner; where applicable, parts should be recycled. For more detailed information regarding these recommended procedures, please contact Bioness Medical, Inc. Bioness Medical, Inc. is committed to continuously seeking and implementing the best possible manufacturing procedures and servicing routines.

List of Symbols























| | |
|---|---|
|  | Caution |
|  | Warning |
|  | Double Insulated (Equivalent to Class II of IEC 536) |
|  | Type BF Applied Part(s) |
|  | Non-Ionizing Radiation |
|  | Date of Manufacture |
|  | Manufacturer |
|  | This Product Must Not Be Disposed of with Other Household Waste |
|  | Refer to instruction manual/booklet |
|  | Re-Order Number |
|  | Lot Number |
|  | Serial Number |
|  | Single Patient Use - To Prevent Cross Contamination |
|  | Single Patient Multiple Use |
|  | Medical Device |
|  | Storage Temperature |
|  | Humidity Limitation |
|  | Atmospheric Pressure Limitation |
|  | Keep Dry |
| IP22 | Degree of Ingress Protection (for Control Unit) |
| IP42 | Degree of Ingress Protection (for EPG) |
| IP52 | Degree of Ingress Protection (for Foot Sensor) |
|  | Left |
|  | Right |
|  | Underwriters Laboratories (UL) is an independent, globally recognized agency that certifies, validates, tests, inspects and audits corporations and products. |

Table of Contents

| | |
|---|-----------|
| Chapter 1: Introduction | 1 |
| Chapter 2: Safety Information | 3 |
| Indications for Use | 3 |
| Contraindications | 3 |
| Warnings | 3 |
| Precautions | 4 |
| Adverse Reactions | 5 |
| Incident Reporting | 6 |
| Skin Care Guidelines | 6 |
| Chapter 3: Environmental Conditions that Affect Use | 7 |
| Radio Frequency (RF) Communication Information | 7 |
| Conformity Certification | 7 |
| Travel and Airport Security | 7 |
| Electromagnetic Emissions | 8 |
| Warnings | 8 |
| Chapter 4: The L300 Go System | 9 |
| Lower Leg Cuff | 9 |
| Thigh Cuff | 9 |
| Lower Leg EPG and Thigh EPG | 10 |
| Control Unit | 12 |
| L300 Go System Operating Modes | 12 |
| <i>Gait Mode</i> | 12 |
| <i>Cycle Training Mode</i> | 13 |
| <i>Training Mode</i> | 13 |
| <i>Clinician Mode</i> | 13 |
| Foot Sensor | 14 |
| Charging the L300 Go System | 15 |
| Turning the L300 Go System On/Off | 16 |
| Selecting an Operating Mode Using the Control Unit | 16 |
| Adjusting Stimulation Intensity Using the Control Unit | 17 |
| Changing Audio and Vibration Feedback Using the Control Unit | 18 |
| Turning Stimulation Off Using the Control Unit and EPG | 19 |
| Chapter 5: L300 Go Clinician Kit, Components and Accessories, and Programmer | 21 |

| | |
|--|-----------|
| L300 Go Clinician Kit..... | 21 |
| L300 Go Components and Accessories | 22 |
| Bioness Clinician Programmer | 23 |
| Chapter 6: Fitting and Testing Accessories Descriptions | 25 |
| Lower Leg Cuff Straps..... | 25 |
| Personal Strap Cover (Lower Leg Cuff) | 26 |
| Personal Panels (Lower Leg Cuff)..... | 27 |
| Electrode Bases | 28 |
| Electrodes..... | 29 |
| Wire Concealers | 31 |
| Snap Covers..... | 31 |
| Fitting Cable | 32 |
| Personal Strap Covers (Thigh Cuff) | 32 |
| Thigh Cloth Electrodes | 33 |
| Foot Sensor Pads..... | 33 |
| Tester..... | 34 |
| Chapter 7: Bioness Clinician Programmer Application Software Navigation | 35 |
| Login Screen | 35 |
| Patient Database Screen..... | 35 |
| Navigation Bar | 36 |
| Programming Setting Screen | 37 |
| Parameter Screen | 35 |
| Gait Screen | 36 |
| Cycle Training Screen | 36 |
| Training Screen | 36 |
| Patient Dashboard Screen | 40 |
| Reports Screen..... | 40 |
| Ten Meter Walk Test | 39 |
| Logout/Settings Screen | 42 |
| Application Settings Screen..... | 42 |
| EPG Factory Reset..... | 43 |
| Information Screen | 44 |
| Chapter 8: Patient Fitting..... | 45 |
| Skin Preparation | 45 |
| Fitting the Quick Fit Electrodes..... | 45 |

| | |
|---|-----------|
| Attaching the Hydrogel Electrodes and Electrode Bases | 46 |
| Connecting the Fitting Cable | 47 |
| Out-of-Box Settings | 48 |
| Adjusting the Electrode Position While Stimulating: Patient Sitting | 48 |
| Test the Effect of a Positional Change..... | 49 |
| Adjusting the Electrode Position While Stimulating: Patient Standing..... | 49 |
| Transfer the Electrodes to the Lower Leg Cuff | 49 |
| Donning the Lower Leg Cuff..... | 51 |
| Retesting Electrode Placement: Patient Sitting and Standing..... | 52 |
| Fitting the Small Round Cloth Electrodes..... | 52 |
| Fitting the Round Cloth Electrodes..... | 53 |
| Fitting the Steering Electrode | 54 |
| Fitting the Foot Sensor | 55 |
| Doffing the Lower Leg Cuff..... | 56 |
| Fitting the Thigh Cloth Electrodes | 56 |
| Donning the Thigh Cuff..... | 57 |
| Testing the Position of the Thigh Cuff: Patient Sitting and Standing | 59 |
| Pairing the Thigh EPG..... | 59 |
| Doffing the Thigh Cuff..... | 59 |
| Chapter 9: Patient Programming | 61 |
| Pairing the Bioness Clinician Programmer Application to the L300 Go System..... | 61 |
| Creating a New Patient Profile | 62 |
| Uploading a Patient Profile to the L300 Go System | 63 |
| Programming Stimulation Settings | 63 |
| Programming Advanced Stimulation Settings | 58 |
| Programming Advanced Parameters Screen Settings | 58 |
| Programming Gait Settings | 66 |
| Programming Cycle Training Settings | 67 |
| Programming Training Settings | 69 |
| Changing Audio and Vibration Feedback Settings Using the Bioness Clinician Programmer | |
| Application | 71 |
| Chapter 10: Patient Training..... | 73 |
| Chapter 11: Maintenance and Cleaning..... | 75 |
| Charging..... | 75 |
| Replacing the Foot Sensor Battery..... | 75 |

| | |
|--|------------|
| EPG Battery Maintenance | 76 |
| Replacing the Control Unit Battery | 76 |
| Replacing the Quick Fit Electrodes | 77 |
| Replacing the Steering Electrodes | 78 |
| Replacing the Round Cloth Electrodes..... | 79 |
| Replacing the Hydrogel Electrodes | 80 |
| Replacing the Electrode Bases | 81 |
| Replacing the Thigh Cloth Electrodes | 82 |
| Removing the EPG..... | 83 |
| Removing the Thigh Cuff Straps | 83 |
| Cleaning the L300 Go System Components | 84 |
| Cleaning the Lower Leg Cuff | 74 |
| Disinfecting the L300 Go System Components..... | 85 |
| Disinfecting the EPG and Control Unit | 75 |
| Disinfecting the System Kit and Clinician Kit Cases | 75 |
| Chapter 12: Pairing Replacement Part Components | 87 |
| Pairing Setup..... | 87 |
| Pairing a Lower Leg EPG to a Thigh EPG | 87 |
| Pairing a New Control Unit to the EPG..... | 87 |
| Pairing an Existing Control Unit to a Different EPG..... | 88 |
| Pairing a New Foot Sensor to the EPG | 88 |
| Chapter 13: Troubleshooting..... | 89 |
| Using the Tester..... | 89 |
| Error Code Descriptions | 90 |
| Frequently Asked Questions..... | 91 |
| Chapter 14: Technical Specifications | 93 |
| Chapter 15: Wireless Information | 101 |
| System Characteristics..... | 101 |
| Electromagnetic Compatibility (EMC) Information..... | 102 |
| Chapter 16: Network Safety, Security, and Privacy | 105 |

Introduction

Central nervous system (CNS) injuries/diseases often cause a gait disorder called foot drop. People who have foot drop are unable to raise their foot while walking. They often drag their foot, resulting in instability and increased effort during gait. Many people with CNS injuries/diseases and other disabilities also suffer from thigh muscle weakness that is concurrent with or independent of foot drop. Weak thigh muscles can cause considerable difficulties with flexing or extending the knee during ambulation.

The L300 Go System is designed to improve gait in people suffering from foot drop and knee flexion or extension in individuals with thigh muscle weakness. The L300 Go System communicates wirelessly to deliver electrical pulses over the common peroneal nerve and to the motor point of the tibialis anterior muscle, causing ankle dorsiflexion in the swing phase of gait to prevent foot drop. The L300 Go System can also deliver stimulation to the quadriceps or hamstrings, in order to provide knee flexion or extension during gait. The L300 Go System also can deliver stimulation to either or both the muscles in the upper and Lower Leg to facilitate muscle re-education, prevent/retard disuse atrophy, maintain or increase joint range of motion, and/or increase local blood flow .

The L300 Go System consists of a Lower Leg Cuff (available in regular and small sizes) with an External Pulse Generator (EPG), a Thigh Cuff with an EPG, an optional Control Unit, and an optional Foot Sensor. The Lower Leg Cuff and Thigh Cuff can be used either independently or together.

The L300 Go System is designed to be used in a Hospital/Professional Healthcare Facility or Residential/ Home Healthcare environment.



Figure: L300 Go System

This L300 Go Clinician's Guide describes:

- Important safety information about the L300 Go System.
- The components of the L300 Go System.
- How to set up, operate, and maintain the L300 Go System.
- The Bioness Clinician Application software.
- How to fit the L300 Go System.
- How to program the L300 Go System.
- Troubleshooting information.

The L300 Go Clinician Kit includes the components and accessories required for fitting and programming the L300 Go System. This Clinician's Guide describes the Clinician Kit's contents and instructions for use. The L300 Go Clinician Kit is intended to be used by a trained clinician. A brief description of the L300 Go System components is provided for reference. Refer to the L300 Go User's Guide for comprehensive information on the L300 Go System Kit contents and instructions for use.

Be sure to review the User's Guide, including all safety information, with your patients before they use the L300 Go System. If you have any questions contact Bioness Technical Support at 800-211-9136, Option 3 (USA & Canada) or your local distributor. You may also visit BionessMedical.com.

Safety Information

Indications for Use

The L300 Go System is intended to provide ankle dorsiflexion in adult and pediatric individuals with foot drop and/or to assist knee flexion or extension in adult individuals with muscle weakness related to upper motor neuron disease/injury (e.g., stroke, damage to pathways to the spinal cord). The L300 Go System electrically stimulates muscles in the affected leg to provide ankle dorsiflexion of the foot and/or knee flexion or extension; thus, it also may improve the individual's gait.

The L300 Go System may also:

- Facilitate muscle re-education
- Prevent/retard disuse atrophy
- Maintain or increase joint range of motion
- Increase local blood flow

Contraindications

- Patients with a demand-type cardiac pacemaker, defibrillator or any electrical implant should not use the L300 Go System.

Warnings

- The L300 Go System should not be used on a leg where a metallic implant is directly underneath the electrodes.
- The L300 Go System should not be used on a leg where a cancerous lesion is present or suspected.
- The L300 Go System should not be used on a leg with a regional disorder, such as a fracture or dislocation, which could be adversely affected by motion from the stimulation.
- The long-term effects of chronic electrical stimulation beyond 12 months have not been established.
- The Lower Leg Cuff and Thigh Cuff should not be worn over swollen, infected, or inflamed areas or skin eruptions, such as phlebitis, thrombophlebitis, and varicose veins.
- Simultaneous connection of the L300 Go System to the patient and high-frequency surgical equipment may result in skin burns where the stimulator electrodes touch and damage to the EPG.
- Do not use the L300 Go System within three feet of short wave or microwave therapy equipment. Such equipment may produce instability in the EPG output.
- The L300 Go System should only be configured by an authorized clinician.
- In case of any inconvenience, turn off stimulation and remove the Lower Leg Cuff and/or Thigh Cuff. If the stimulation cannot be turned off, remove the cuff to stop stimulation.

Precautions

- Inflammation in the region of the Lower Leg Cuff and Thigh Cuff may be aggravated by motion, muscle activity, or pressure from the cuff. Advise patients to stop using the L300 Go System until any inflammation is gone.
- Use caution when treating patients with suspected or diagnosed heart problems.
- Advise patients to use the cuff with caution:
 - If the patient has a tendency to hemorrhage following acute trauma or fracture.
 - Following recent surgical procedures when muscle contraction may disrupt the healing process.
 - Over areas of the skin that lack normal sensation.
 - If the patient has suspected or diagnosed epilepsy.
- Some patients may experience a skin irritation, an allergic reaction, or hypersensitivity to the electrical stimulation or the electrical conductive medium. Irritation may be avoided by changing the stimulation parameters, type of electrodes, or electrode placement.
- Do not use the L300 Go System without electrodes.
- After removing the Lower Leg Cuff and/or Thigh Cuff, it is normal for the areas under the electrodes to be red and indented. The redness should disappear in approximately one hour. Persistent redness, lesions, or blisters are signs of irritation. Advise patients to stop using their L300 Go System until any inflammation is gone and to alert their clinician.
- Advise patients to stop using their L300 Go System and consult their clinician if stimulation does not start at the correct time during gait.
- Advise patients to turn off the L300 Go System when at a refueling place. Do not use the L300 Go System near flammable fuel, fumes, or chemicals.
- Only a treating clinician should determine electrode placement and stimulation settings.
- Use only the L300 Go System electrodes supplied by Bioness.
- Turn off the L300 Go System before removing or replacing the electrodes.
- Specific physician clearance should be obtained before using the L300 Go System on patients who have an alteration of normal arterial or venous flow in the region of the cuff because of arterial or venous thrombosis, local insufficiency, occlusion, arteriovenous fistula for the purpose of hemodialysis, or a primary disorder of the vasculature.
- Specific physician clearance should be obtained before using the L300 Go System when patients have a structural deformity in the area to be stimulated.
- The safe use of the L300 Go System during pregnancy has not been established.
- Skin problems, on the leg where the Lower Leg Cuff and/or Thigh Cuff is worn, may be aggravated by the L300 Go System.
- Adult supervision and assistance should be provided for anyone needing help while using the L300 Go System.
- The patient is the intended operator of the L300 Go System.

- The Control Unit neck strap is meant to be worn around the neck and if not used properly could cause bodily harm.
- Protect all electronic components from contact with water, such as from sinks, bathtubs, shower stalls, rain, snow, etc.
- Do not leave the L300 Go System stored where temperatures may exceed the acceptable environmental range: -25°C to 55°C (-13°F to 131°F). Temperature extremes can damage the components.
- Do not attempt to repair your L300 Go System. Contact Bioness if you experience a technical problem not covered in this guide.
- The Lower Leg Cuff and Thigh Cuff is to be worn only on the leg of the patient for whom it is fitted. It should not be worn by anyone else or on any other part of the body.
- Turn off the L300 Go System before putting on the Lower Leg Cuff and/or Thigh Cuff. Do not turn on the L300 Go System until the Lower Leg Cuff and/or Thigh Cuff is fastened in place.
- Advise patients to shut off the L300 Go System before operating machinery, or performing any activity in which involuntary muscle contractions could cause injury (e.g. driving a car, riding a bicycle, etc.).
- Protect the L300 Go System electronic components from condensation. When moving the components between hot and cold temperatures, place them in an airtight plastic bag, and let them slowly (for at least two hours) adjust to the temperature change before use.
- Medical electrical equipment needs special precautions for electromagnetic compatibility.
- Advise patients to remove the L300 Go System before undergoing any diagnostic or therapeutic medical procedure such as x-ray examination, ultrasound, MRI, etc.
- While the L300 Go (small lower cuff) is designed to fit and be worn by both pediatric patients and small individuals, the system is intended to be managed and maintained only by adult users, adult caregivers and/or healthcare professionals.

Adverse Reactions

In the unlikely event that any of the following occurs, advise patients to stop using their L300 Go System immediately and consult their physician:

- Signs of significant irritation or pressure sores where the cuff contacts the skin
- A significant increase in muscle spasticity
- A feeling of heart-related stress during stimulation
- Swelling of the leg, knee, ankle, or foot

Skin irritations and burns beneath the electrodes have been reported with the use of powered muscle stimulators.

Incident Reporting

Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established if within the European Union.

Skin Care Guidelines

In the absence of proper skin care, extended use of electrical stimulation may cause skin irritation or a skin reaction to the electrodes or the Lower Leg Cuff and Thigh Cuff. Skin irritation tends to occur after approximately three months of use. To promote healthy skin with long-term use of the L300 Go System, it is important to follow a daily skin-care routine.

- Clean the skin where the electrodes adhere with a wet washcloth. If any oils or lotions are on the skin, then clean with soap and water. Rinse well.
- Always check the skin for redness or a rash when putting on and taking off the Lower Leg Cuff and/or Thigh Cuff.
- Replace the electrodes every two weeks or more frequently, even if they appear to be in good condition.
- Wet cloth based electrodes before use and after every 3-4 hours for optimal performance.
- After taking off the Lower Leg Cuff and/or Thigh Cuff, always re-cover hydrogel electrodes with the protective plastic covers, where applicable.
- Excess body hair where the electrodes adhere may reduce electrode contact with the skin. If necessary, remove excess body hair with an electric shaver or scissors. Do not use a razor. A razor can irritate the skin.
- When positioning the Lower Leg Cuff and/or Thigh Cuff, make sure the electrodes uniformly contact the skin.
- Ventilate the skin by removing the Lower Leg Cuff and Thigh Cuff for at least 15 minutes every three to four hours.

If skin irritation or a skin reaction occurs, patients should stop using their L300 Go System immediately and contact their clinician or dermatologist. They can also contact Bioness Technical Support at 800-211-9136, Option 3 (USA & Canada) or your local distributor. Patients should resume use only when the skin is completely healed, and then follow a skin conditioning protocol per the recommendation of their health-care specialist.

Environmental Conditions that Affect Use

Radio Frequency (RF) Communication Information

Several components of the L300 Go System communicate via radio communication and have been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 (RF Devices) of the FCC (Federal Communications Commission) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate RF energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for assistance.

The antenna for each transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Portable and mobile RF communications equipment can affect the L300 Go System.

Conformity Certification

The L300 Go System complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

Travel and Airport Security

The L300 Go System charger with interchangeable blades is compatible with Australian, U.K., European Union, and U.S. voltages: 100-240V, 50/60 Hz.

Advise patients to turn off their L300 Go System before going through airport security and to wear loose clothing so they can easily show the security person their L300 Go System. The L300 Go System will likely set off the security alarm. Patients should be prepared to remove the L300 Go System so that security can scan it, or ask for the system to be scanned if they do not want to remove it. It is recommended that patients carry a copy of their L300 Go System prescription.

Patients can request a copy of their prescription by contacting Bioness or their physician.

Note: The L300 Go System contains radio transmitters. The Federal Aviation Administration rules require that all radio-transmitting devices be turned off during flight. Consult with your airline about use of Bluetooth Low Energy before turning on your L300 Go system in flight.

Electromagnetic Emissions

The L300 Go System needs special precautions regarding electromagnetic compatibility (EMC). The system needs to be installed and put into service according to the EMC information provided in this manual. See Chapter 15.

The L300 Go System was tested and certified to use the following:

- AC Adapter with interchangeable blades, model number LG4-7200, supplied by Bioness Medical, Inc.
- Charging Cord, model number LG4-7100, supplied by Bioness Medical, Inc.

Warnings

- Do not use the L300 Go System within three feet (1 meter) of shortwave or microwave therapy equipment. Such equipment may produce instability in the output of the EPG.
- Remove the L300 Go System before undergoing any diagnostic or therapeutic medical procedure such as Xray examination, ultrasound, Magnetic Resonance Imaging (MRI), etc.
- The L300 Go System should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the equipment or system should be observed to verify normal operation in the configuration in which it will be used.
- The use of accessories, transducers, and cables other than those specified (with the exception of transducers and cables sold by the manufacturer of the L300 Go System as replacement parts for internal components) may result in increased emissions or decreased immunity of the L300 Go System.
- The L300 Go System may be interfered with by other equipment, even if that other equipment complies with CISPR (International Special Committee on Radio Interference, International Electrotechnical Commission) emission requirements.
- If the audio alert volume level is lower than the ambient levels, the ambient levels can impede user recognition of the alert conditions.

The L300 Go System

The L300 Go System consists of a Lower Leg Cuff with an External Pulse Generator (EPG), a Thigh Cuff with an EPG, an optional Control Unit, and an optional Foot Sensor.

The L300 Go System has two different types of system kits: Lower Leg and Thigh. The components in the Lower Leg System Kit communicate wirelessly to stimulate the common peroneal nerve (normally found posterior and slightly distal to the head of the fibula) to contract the tibialis anterior and peroneal muscles, thus causing balanced dorsiflexion (without excessive inversion or eversion). The components in the Thigh System Kit communicate wirelessly to stimulate the quadriceps or hamstrings in order to provide knee flexion or extension.

Lower Leg Cuff

The Lower Leg Cuff is an orthosis that fits on the leg directly under the patella and is designed to facilitate upward movement of the foot and toes. See Figure 4-1. The Lower Leg Cuff is available in right and left configurations and in two sizes (regular and small). The Lower Leg Cuff houses the EPG cradle, the Lower Leg EPG, and integrated electrodes. It also includes an anatomically designed locator for accurate placement on the leg and a strap that can be fastened with one hand.

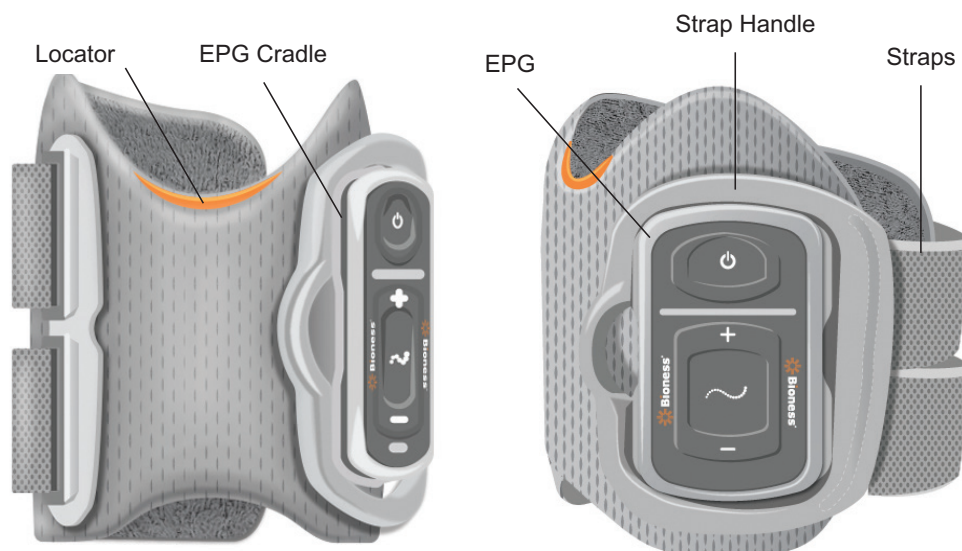


Figure 4-1: Lower Leg Cuff

Thigh Cuff

The Thigh Cuff is a low-profile orthosis that fits above the knee, centered on the back or front of the thigh. It is designed to assist with knee flexion or extension. See Figure 4-2. The Thigh Cuff is available in right and left configurations.

The Thigh Cuff houses the EPG cradle, the thigh EPG, and integrated electrodes. It also features a locator used to accurately place the Thigh Cuff on the leg and to ensure repeatable electrode contact. The Thigh Cuff has adjustable straps that hold the cuff in place on the thigh. The Thigh Cuff can be used either on its own (Thigh Stand-Alone configuration) or in conjunction with the Lower Leg Cuff.

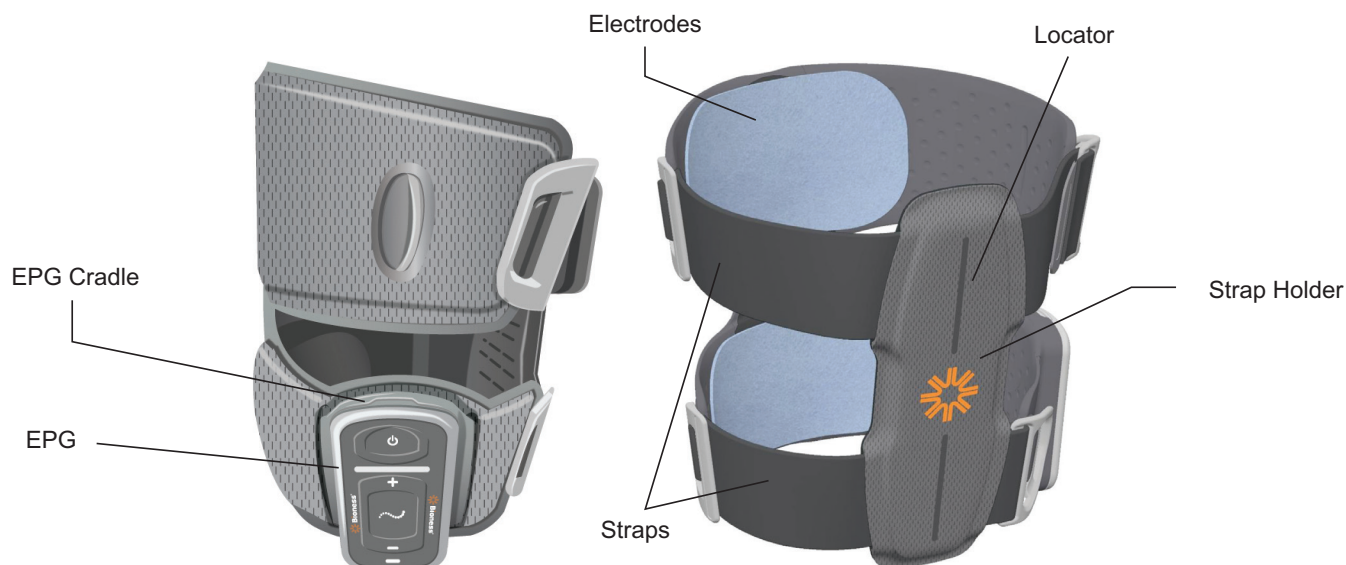


Figure 4-2: Thigh Cuff

The effectiveness of eliciting muscle contraction force in the Thigh Cuff depends on amplitude, duration, frequency, and waveform of the electrical stimulation signal. The clinician can impact the force, efficiency, and timing of the muscle contraction by adjusting stimulation parameters to provide sufficient knee flexion or extension during walking.

Lower Leg EPG and Thigh EPG

The Lower Leg EPG generates the electrical stimulation used to contract the muscles in the leg that lift the foot and toes. The EPG contains an integrated motion sensor and gait detection algorithm to synchronize electrical stimulation with the gait events (heel on and heel off). The Lower Leg EPG also responds to standard Bluetooth® Low Energy (BLE) wireless signals from the optional Control Unit and Foot Sensor. If a patient is wearing both the Lower Leg Cuff and the Thigh Cuff, the Lower Leg EPG will also send wireless signals to the thigh EPG.

The thigh EPG generates the electrical stimulation used to flex or extend the knee. The thigh EPG responds to wireless signals from the Control Unit, Lower Leg EPG (for patients that are using the Lower Leg Cuff with the Thigh Cuff), and the Foot Sensor to turn stimulation on or off.

The effectiveness of eliciting muscle contraction force depends on amplitude, duration, frequency, and waveform of the electrical stimulation signal. The clinician can impact the force, efficiency, and timing of the muscle contraction by adjusting stimulation and gait parameters. The EPG can activate either one or two stimulation channels, depending on type of the cuff and electrode pre-set. Refer to the "Patient Programming" chapter in this guide for more information.

Patients can also adjust the electrical stimulation using control buttons on the EPG, the myBioness App or the Control Unit. The EPG includes four buttons, two indicator lights, and a rechargeable battery (lithium ion 1000 mAh battery). See Figure 4-3, Table 4-1, and Table 4-2. The EPG emits an audio alert when wireless communication fails or the component malfunctions.

The EPG snaps into the cradle on the cuff and should only be removed from the cradle for maintenance and when cleaning the cuff. The battery charging port is located at the bottom of the EPG.

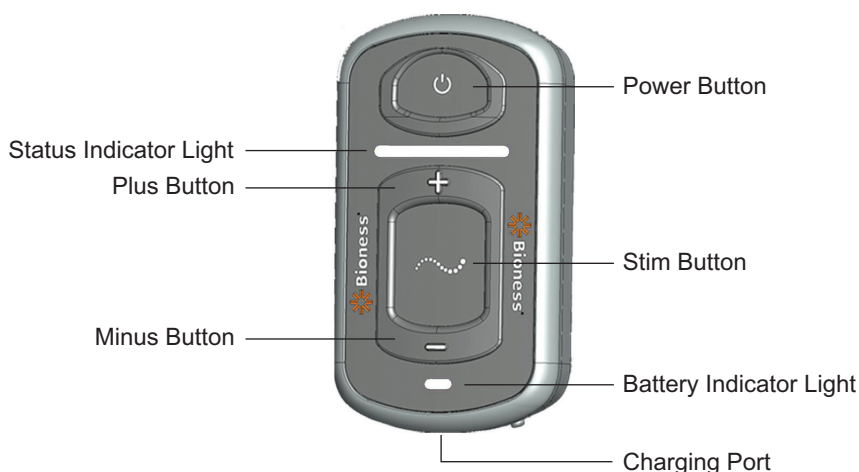


Figure 4-3: EPG

The EPG emits visual (see Table 4-1) and/or audio feedback when: an EPG button is pushed, stimulation is being delivered, an error has been detected, or when the battery level is low. The EPG provides vibration feedback when: an EPG button is pushed, stimulation is being delivered, or when an error is detected.





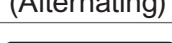



| EPG | Display | Description | Definition |
|--------------------------------|--|--|--|
| Status Indicator Light |  (Flashing) | Flashing Green Light | EPG is On, No Stimulation |
| |  (Flashing) | Flashing Yellow Light | EPG is On and Delivering Stimulation |
| |  (Solid) | Solid Yellow Light | EPG is On and Delivering Manual Stimulation |
| |  (Alternating) | Alternating Green, Yellow, and Red Light | Pairing mode |
| |  (Flashing) | Flashing Red Light | Active Error / EPG Malfunction/ Battery Level-Empty / EPG Charging Fault |
| Battery Indicator Light |  (Flashing) | Flashing Green Light | EPG Battery is Charging |
| |  (Solid) | Solid Green Light Briefly at Power Up | EPG Charging is Complete |
| |  (Flashing) | Flashing Yellow Light | EPG Battery Level is Low |

Table 4-1: EPG Displays





| EPG Button | Description | Function |
|---|--------------|--|
|  | Power button | Turns the System On or Off |
|  | Stim button | Turns Stimulation On or Off in the Current Selected Mode |
|  | Plus button | Increase Stimulation Intensity |
|  | Minus button | Decrease Stimulation Intensity |

Table 4-2: EPG Button Functions

Control Unit

The Control Unit is an optional handheld controller that wirelessly communicates with the L300 Go System. The Control Unit sends and receives wireless communication from the EPG(s) and Foot Sensor. It is used to select an operating mode, turn stimulation on/off, fine-tune stimulation intensity, adjust EPG audio feedback volume, and monitor system performance.

The Control Unit includes six buttons and an LCD display. See Figure 4-4, Table 4-3, and Table 4-4. It is powered by a single button cell lithium battery (CR2032 battery). The Control Unit LCD Display screen communicates the L300 Go System performance. It displays stimulation intensity level, operating mode, battery charge status, electronic registration status, and error messages. See Table 4-4.

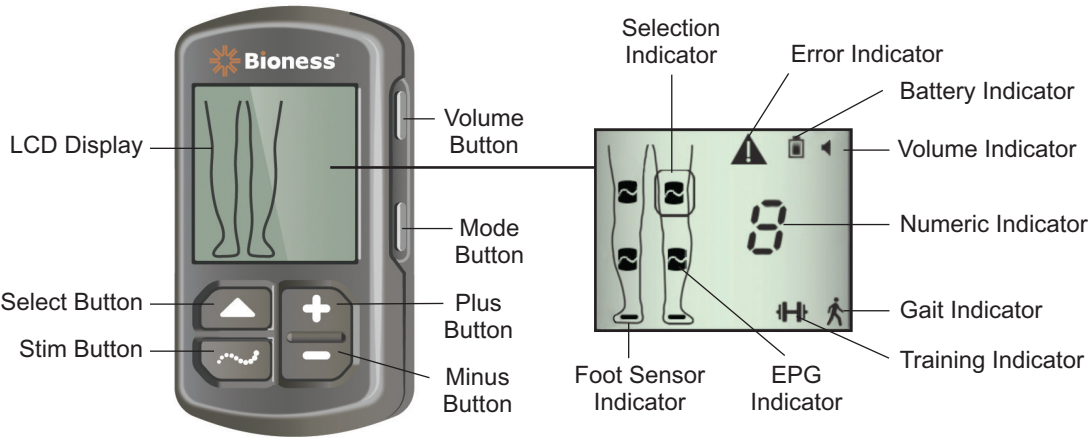


Figure 4-4: Control Unit









| Control Unit Button | Description | Function |
|---|---------------|--|
|  | Select button | Selects an EPG |
|  | Stim button | Turns Stimulation On or Off in the Current Selected Mode |
|  | Plus button | Increase Stimulation Intensity |
|  | Minus button | Decrease Stimulation Intensity |
| Not Applicable | Volume button | Turns the EPG Audio Feedback On or Off |
| Not Applicable | Mode button | Selects Gait or Training mode |

Table 4-3: Control Unit Button Functions

| LCD Display Icons | Description | Function |
|---|-----------------------|--|
|  | EPG- Ready State icon | System is communicating with EPG, but not delivery stimulation |
|  | EPG- Stim State icon | System is communicating with EPG and EPG is delivering stimulation |
|  (flashing) | EPG- Error State icon | Error detected with EPG that is flashing |
|  | Selection icon | Indicates selected EPG |












| LCD Display Icons | Description | Function |
|---|---|---|
|  | Foot Sensor icon | System is communicating with Foot Sensor |
|  (flashing) | Foot Sensor Error icon | Error detected with Foot Sensor |
|  | Gait Mode icon | System is in Gait mode |
|  | Training Mode icon | System is in Training mode |
|  | Battery Level (Normal) icon | Battery is charged for the selected EPG |
|  (flashing) | Battery Level (Low) icon | Battery level is low and needs to be recharged for the selected EPG |
|  (flashing) | Error icon | System has detected an error |
|  | Volume icon | Indicates that audio/tactile feedback is possible |
|  | Numeric Indicator-Stimulation Intensity Level | Displays current stimulation intensity level |
|  | Numeric Indicator-Error | Alternates between "E" and the number of the error |
|  | Numeric Indicator-Pairing | "P" appears indicating that the Control Unit is in Pairing mode |

Table 4-4: Control Unit LCD Display Icon Descriptions

L300 Go System Operating Modes

The L300 Go System has four operating modes: Gait mode, Cycle Training mode, Training mode, and Clinician mode.

Gait Mode

Gait mode is used for walking. In Gait mode, the stimulation is synchronized with gait events, using either the EPG integrated motion sensors or the Foot Sensor, to achieve dorsiflexion and knee extension or flexion when the heel or forefoot leaves the ground and relaxation after the heel or forefoot makes contact with the ground.

During gait, the stimulation of the Lower Leg EPG and/or the thigh EPG is controlled by the same gait event detector: either via the motion sensor in the lower EPG or via the Foot Sensor, at the appropriate phase of gait.

Cycle Training Mode

Cycle Training mode is used to train muscles while the patient is using a stationary bicycle. In Cycle Training mode, the stimulation is synchronized with the cycle of the crank position to achieve dorsiflexion and knee extension or flexion. Stimulation during Cycle Training mode is patient-initiated and requires the patient to engage in the motion of pedaling.

Note: Cycle Training mode is not compatible with the Control Unit.

Training Mode

Training mode is used to train muscles when the patient is not walking (e.g., sitting, standing, or lying down). Training mode works independently of the Foot Sensor and the motion sensors in the Lower Leg EPG. Stimulation is delivered in pre-set cycles.

For Lower Leg Cuff users, Training mode is designed to facilitate muscle re-education, prevent or retard disuse atrophy of the Lower Leg muscles, maintain or improve range of motion of the ankle joint, and improve local blood circulation. For Thigh Cuff users, Training mode is designed to facilitate muscle re-education, prevent or retard disuse atrophy of the thigh muscles, maintain or improve range of motion of the knee joints, and improve local blood circulation.

Clinician Mode

Clinician mode allows the clinician to apply enhanced training. Clinician mode is used to start/pause stimulation in the Lower Leg Cuff and Thigh Cuff independently or simultaneously. For example, the clinician may select Clinician mode to enhance training to include balance training in acute and sub-acute patients. Clinician mode uses the stimulation parameters set for Gait mode. The clinician can enable Clinician mode by pressing and holding the Stim and Minus buttons for five seconds on the Control Unit. Pressing on the Stim button will deliver manual stimulation to the selected Cuffs while the Stim button is pressed. To exit Clinician mode, press the Mode button.

Foot Sensor

The Foot Sensor is an optional component of the L300 Go System. The Foot Sensor uses a dynamic gait tracking algorithm to detect whether the foot is on the ground or in the air and transmits wireless signals to the EPG(s) to synchronize stimulation according to the gait pattern.

Note: The Foot Sensor is not compatible with use of the L300 Go system while using Cycle Training Mode.

The Foot Sensor features a pressure sensor, transmitter, and clip. See Figure 4-5. The pressure sensor fits under the insole of the patient's shoe. The transmitter is worn clipped to the inner rim of the shoe. The Foot Sensor also includes two indicator lights and is powered by a single button cell lithium battery (CR2032 battery). See Figure 4-5 and Table 4-5.

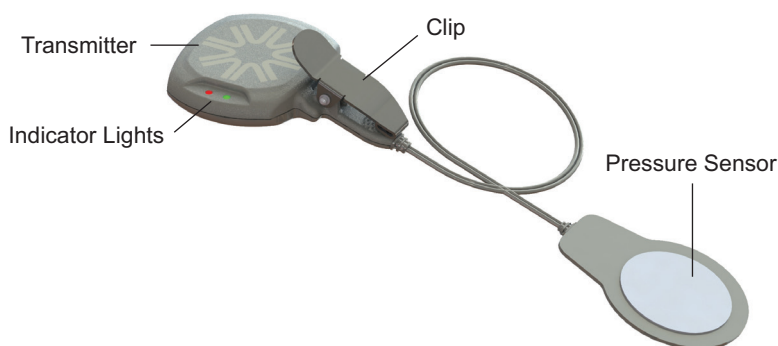


Figure 4-5: Foot Sensor

⚠ Caution: The Foot Sensor has not been validated for use by individuals weighing more than 300 lbs (136 kg).

⚠ Caution: Do not use the Foot Sensor with a rigid insole, such as a custom rigid orthosis or and ankle foot orthosis.





| Foot Sensor | Display | Description | Definition |
|-----------------|--|---------------------------------|-----------------------|
| Indicator Light |  (Flashes Twice) | Green Light Flashes Twice | Foot Sensor is Active |
| |  (Flashing) | Slowly Flashing Green Light | Pairing mode |
| |  (Flashes for 5 Seconds) | Red Light Flashes for 5 Seconds | Low Battery |
| |  (Solid) | Solid Red Light | Error |

Table 4-5: Foot Sensor Displays

Charging the L300 Go System

The Lower Leg EPG and thigh EPG are the only L300 Go System components that can be charged. The EPG(s) must be charged daily and Bioness recommends charging the EPG(s) while attached to the cuff(s).

The EPG(s) will need to be charged with the system charger set that is included in the L300 Go System Kits. The system charger set includes a dual USB AC adapter, charging adapters for U.S. and international outlets, and a USB charging cable.

To charge the L300 Go System:

1. Remove the System Charger Set from the packaging and select the proper adapter for your country or region.
2. Insert the USB end on the charging cable into any of the two available USB ports on the AC adapter. See Figure 4-6.

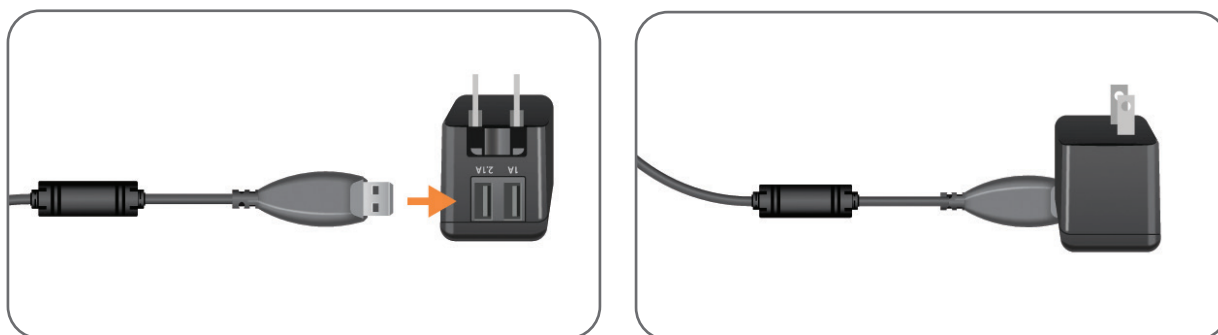


Figure 4-6: Inserting USB Charging Cable into AC Adapter

3. Connect the other end of the charging cable to the charging port on the Lower Leg EPG and/or thigh EPG. The charging port is located at the bottom of the EPG. See Figure 4-7.
4. Plug the AC adapter with connected USB charging cable(s) into a power outlet.
5. The battery indicator light on the EPG(s) will flash green to indicate charging.
6. The battery indicator light on the EPG(s) is a solid green when the system is fully charged.



Figure 4-7: L300 Go System Charging Setup
(Example of a Lower Leg Cuff and Thigh Cuff Configuration)

⚠ Caution: Use only the charger included in the L300 Go System Kit. Use of any other charger could damage the system.

⚠ Caution: To completely disconnect the power input, the AC adapter portion of the System Charger Set must be disconnected from the main power supply.

⚠ Caution: Do not use the L300 Go System while the EPG is charging.

Turning the L300 Go System On/Off

To turn on the L300 Go System, press the Power button once on the Lower Leg EPG and/or thigh EPG. The system will be in a ready state. All indicator lights will light up for a few seconds while the system performs a self-test. The Status Indicator Light on the EPG(s) will flash green to indicate the system is on.

To turn off the L300 Go System, press and hold the Power button for three seconds on the Lower Leg EPG and/or thigh EPG. The EPG will vibrate when turning off.

Selecting an Operating Mode Using the Control Unit

There are two different operating modes (Gait mode and Training mode) that can be selected using the Control Unit.

To select an operating mode using the Control Unit:

1. Turn on the Lower Leg EPG and/or thigh EPG by pressing the power button on the EPG(s).
2. Turn on the Control Unit by pressing any button.
3. The paired EPG(s) will appear in the digital display on the Control Unit with the Selection Indicator icon around the EPG Indicator icon(s). See Figure 7-1. Refer to "Pairing a New Control Unit to the EPG" section for pairing instructions.
4. For patients using both the Lower Leg Cuff and Thigh Cuff the Select button on the Control Unit can

be used to toggle between the Lower Leg EPG and thigh EPG or to select both EPGs. See Figure 4-8.

5. To select Gait mode, press the Mode button on the Control Unit until the Gait Indicator icon appears in the lower right corner of the digital display. See Figure 4-8.
6. To select Training mode, press the Mode button on the Control Unit until the Training Indicator icon appears in the lower right corner of the digital display. See Figure 4-8.

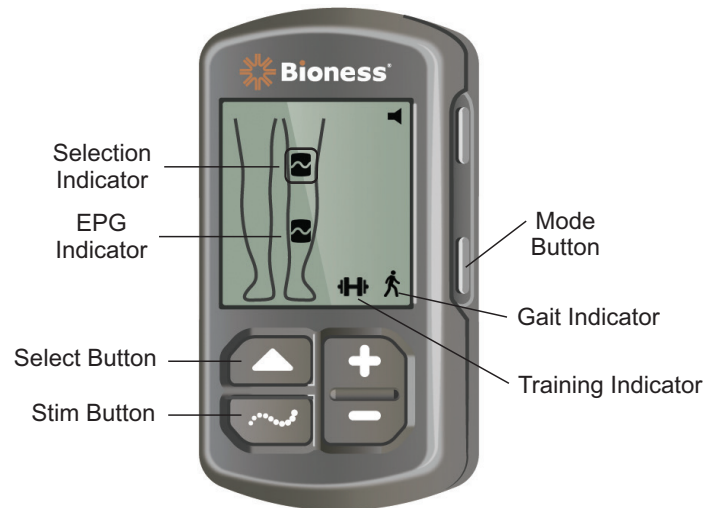


Figure 4-8: Selecting a Operating Mode on the Control Unit

7. To activate Gait or Training mode, press the Stim button on the Control Unit.
8. The Status Indicator Light on the EPG(s) will change to a flashing yellow light.
9. To unpair the Control Unit from an EPG, ensure the Control Unit is in sleep state and simultaneously press Mode and Stim button for five seconds. Selection Indicators will appear without EPG icons confirming unpairing was successful.

To turn on an operating mode using the EPG:

10. Turn on the Lower Leg EPG and/or thigh EPG by pressing the Power button on each of the EPG(s).
11. Press the Stim button on one of the EPG(s) to activate Gait mode.
12. Press and hold the Stim button on the EPG for three seconds to activate Training mode. Press Stim button for an additional three seconds to return to Gait mode.

When the EPG is first turned on and the Stim button is pressed, it will always activate Gait mode, unless it was previously in Training mode and was not powered off. The Control Unit can also be used to switch to Training mode. Once Training mode has been selected on the Control Unit, the Stim button on the EPG can be used to activate the selected operating mode.

Adjusting Stimulation Intensity Using the Control Unit

When Gait or Training mode is first activated, the stimulation intensity level will always be "5". This level is set by the clinician. Normally, the patient will not need to adjust stimulation intensity other than when walking on different surfaces or in different shoes.

Note: An intensity level of “0” equals no stimulation.

To adjust stimulation intensity (for patients using the Lower Leg Cuff or the Thigh Stand-Alone Cuff):

1. Press the Plus or Minus button on the Control Unit or on the EPG to increase or decrease the stimulation intensity. See Figure 4-9.
2. The new level number will appear in the digital display on the Control Unit.



Figure 4-9: Adjusting Stimulation Intensity

To adjust stimulation intensity (for patients using both the Lower Leg Cuff and the Thigh Cuff):

1. The stimulation intensity will need to be adjusted separately for each connected EPG. Press the Select button on the Control Unit to select either the Lower Leg EPG or thigh EPG. See Figure 4-9.
2. Press the Plus or Minus button on the Control Unit to increase or decrease the stimulation intensity. See Figure 4-9.
3. The new level number will appear in the digital display on the Control Unit.
4. Repeat steps one through three for the other connected EPG.

Note: The stimulation intensity can also be adjusted without using the Control Unit, by pressing the Plus or Minus buttons on each of the EPGs.

Changing Audio and Vibration Feedback Using the Control Unit

The EPG has the capability to provide audio and vibration feedback when stimulation is being delivered. The audio and vibration feedback setting is adjusted by the Bioness Clinician Programmer Application. If audio feedback during stimulation is enabled, the patient can turn it off using the Control Unit.

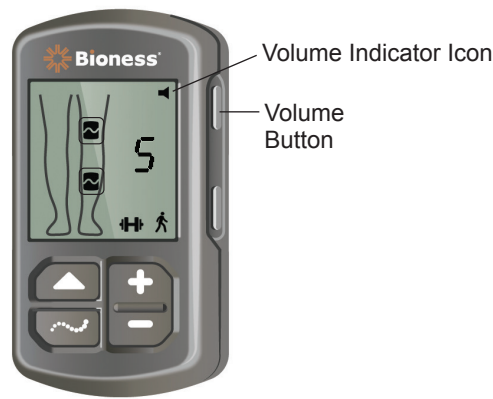


Figure 4-10: Volume Button on Control Unit

To turn off audio feedback during stimulation:

1. Press the Volume button on the Control Unit. See Figure 4-10. The Volume Indicator icon in the upper right corner of the digital display will disappear.

To turn on audio feedback during stimulation:

1. Press the Volume button on the Control Unit. See Figure 4-10. The Volume Indicator icon in the upper right corner of the digital display will appear.

Turning Stimulation Off Using the Control Unit and EPG

To turn stimulation off using the Control Unit:

1. Turn on the Control Unit by pressing any button.
2. The stimulating EPG(s) will appear in the digital display on the Control Unit as an EPG- Stim State icon.
3. To stop stimulation, press the Stim button on the Control Unit. See Figure 4-8.

To turn stimulation off using the EPG:

1. Press the Stim button on the EPG(s) to stop stimulation.
2. The Status Indicator Light on the EPG(s) will change to a flashing green light.

Note: Once the Stim button on the EPG is pressed to turn off stimulation, the EPG(s) will be in a ready state in the last selected operating mode. If the Stimulation button is pressed again, the EPG will activate stimulation in the last operating mode that was selected before stimulation was turned off.

L300 Go Clinician Kit, Components and Accessories, and Programmer

The L300 Go Clinician Kit contains the components and accessories used to fit the L300 Go System on a patient. The Bioness Clinician Programmer tablet is used to program the L300 Go System.

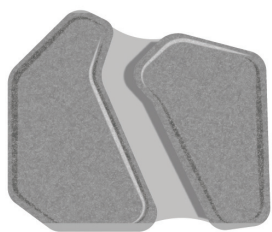
L300 Go Clinician Kit

Please reference the content list provided with the L300 Go Clinician Kit for content quantities.

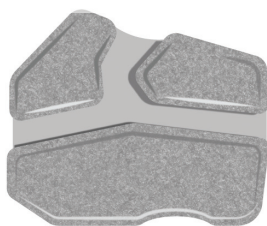


L300 Go Components and Accessories

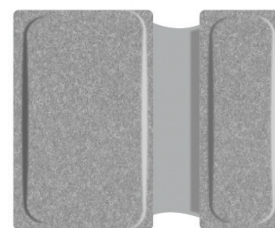
Note: Not all components and accessories listed below are included in the L300 Go Clinician Kit.



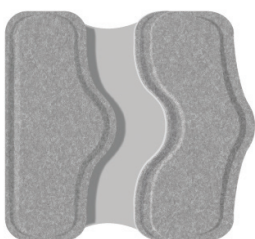
Quick Fit Electrode
(right shown)



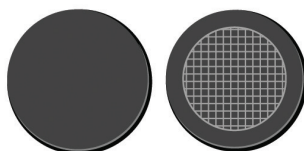
Steering Cloth Electrode
(right shown)



Small Quick Fit
Electrode - A



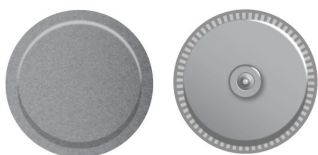
Small Quick Fit
Electrode - B



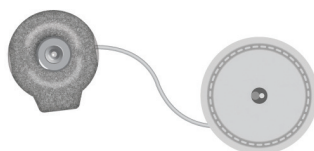
Hydrogel
Electrodes



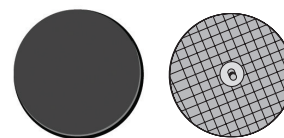
Hydrogel Electrode
Base Set, 45mm



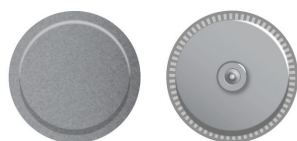
Round Cloth
Electrode, 45mm



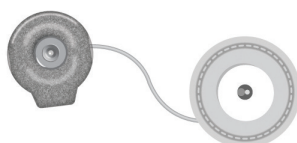
Cloth Electrode
Base Set, 45mm



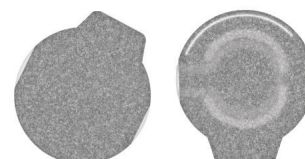
Small Hydrogel
Electrodes



Small Round Cloth
Electrode, 36mm



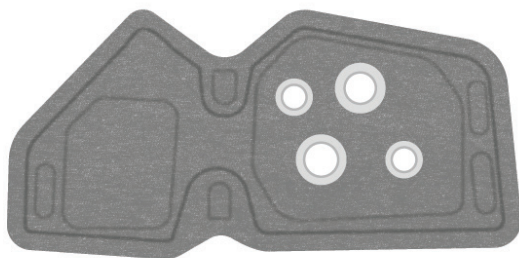
Small Electrode
Base Set, 36mm



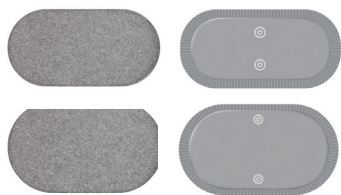
Lower Leg Cuff
Snap Covers



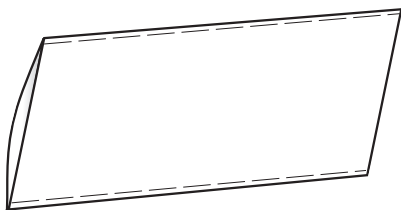
Bioness Clinician Programmer



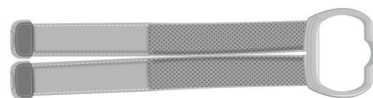
Personal Panels (Regular Shown)



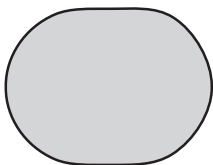
Thigh Cloth Electrodes



Strap Covers



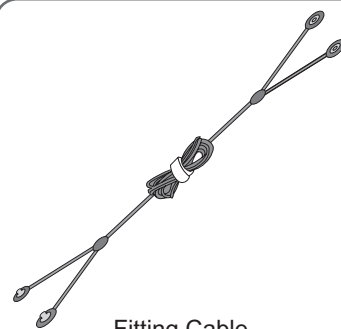
Lower Leg Cuff Straps



Foot Sensor Pads
(optional)



Tester



Fitting Cable

Bioness Clinician Programmer

- Bioness Clinician Programmer tablet with Stylus
- Bioness Clinician Programmer Application
- Bluetooth® Dongle
- Bioness Clinician Programmer Charger

Fitting and Testing Accessories Descriptions

Lower Leg Cuff Straps

The Lower Leg Cuff Strap is used to hold the Lower Leg Cuff in place on the leg. The Lower Leg Cuff Strap is elastic, and fastens around the leg and the EPG Cradle. See Figure 6-1. The cuff strap for the Regular Lower Leg Cuff comes in four sizes: small (S), medium (M), large (L), and universal. The cuff strap for the small Lower Leg Cuff comes in two sizes: extra small (XS) and extra extra small (XXS).

To select an Lower Leg Cuff Strap:

- Measure the circumference of the patient's leg at its broadest point (the gastrocnemius muscle belly) and refer to Table 6-1.

To attach the Lower Leg Cuff Strap to the Lower Leg Cuff:

- Slide the strap through the strap leads and buckles on the Lower Leg Cuff. Make sure the hook and loop fasteners face away from the Lower Leg Cuff. Press on the hook and loop fasteners to secure the strap. See Figure 6-2.

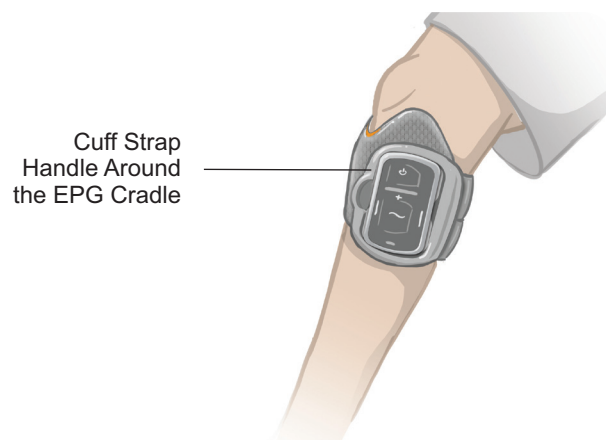


Figure 6-1: Regular Lower Leg Cuff fastened on the right leg.

| Regular Lower Leg Cuff | |
|------------------------|----------------------|
| Cuff Strap Size | Leg Circumference |
| Small (S) | 29–36 cm (11-14 in.) |
| Medium (M) | 36-42 cm (14-16 in.) |
| Large (L) | 42-51 cm (16-20 in.) |
| Universal | 29-40 cm (11-20 in.) |

| Small Lower Leg Cuff | |
|-------------------------|-----------------------|
| Cuff Strap Size | Leg Circumference |
| Extra Extra Small (XXS) | 21-26 cm (8-10 in.) |
| Extra Small (XS) | 25-31 cm (9-12.2 in.) |

Table 6-1: Lower Leg Cuff strap fitting chart.

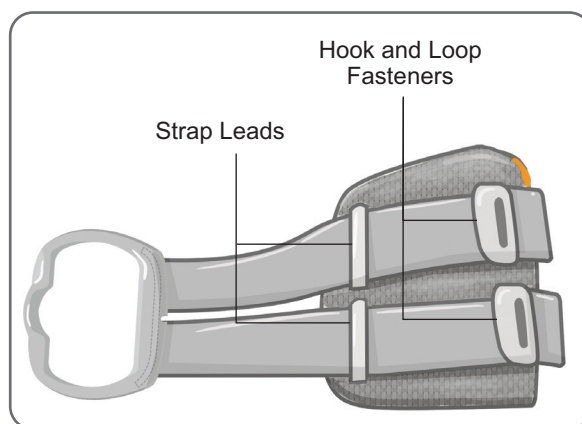


Figure 6-2: Lower Leg Cuff Strap attached to the Regular Lower Leg Cuff

Personal Strap Cover (Lower Leg Cuff)

The Personal Strap Cover slides over the Lower Leg Cuff Strap and is used as an hygienic cover when the Lower Leg Cuff is used by multiple patients.

⚠ Caution: The Personal Strap Cover is for single patient use only to prevent cross contamination.

To attach the Personal Strap Cover:

1. Slide the Personal Strap Cover over the Lower Leg Cuff Strap. See Figure 6-3.
2. If the Personal Strap Cover is too long cut to size.

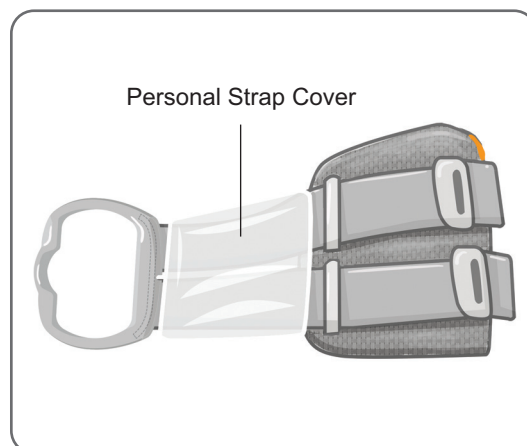



Figure 6-3: Personal Strap Cover on the Lower Leg Cuff

Personal Panels (Lower Leg Cuff)

The Personal Panel is a removable inner lining for the Lower Leg Cuff for use in the clinic when the Lower Leg Cuff is used by multiple patients. The Personal Panel is available in small and regular sizes, as well as in right and left configurations. The Regular Personal Panel is used with the Regular Lower Leg Cuff and features four buttonholes. The Small Personal Panel is used with the small Lower Leg Cuff and features two buttonholes.

 **Caution:** The Personal Panel is for single patient use only to prevent cross contamination.

To attach the Personal Panel to the Lower Leg Cuff for initial fittings:

1. For the Regular Personal Panel, align the panel over the four buttonholes on the Regular Lower Leg Cuff. See Figure 6-4.
2. For the Small Personal Panel, align the position of the panel to the small Lower Leg Cuff and press down to attach the velcro to the cuff's inner liner.

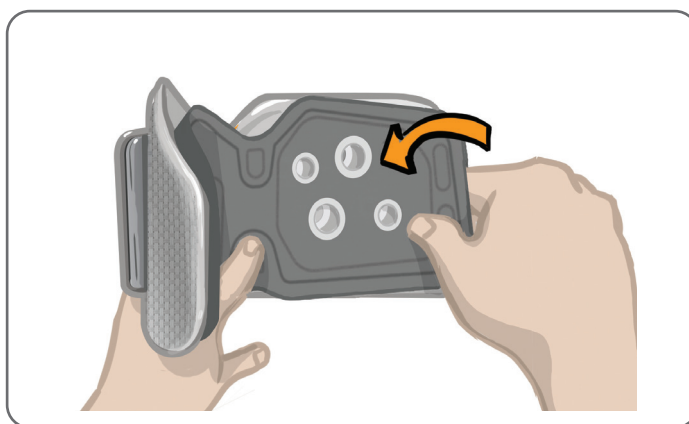


Figure 6-4: Attaching the Personal Panel

To remove the Personal Panel from the Lower Leg Cuff:

1. Remove the Personal Panel from the Lower Leg Cuff. See Figure 6-5.

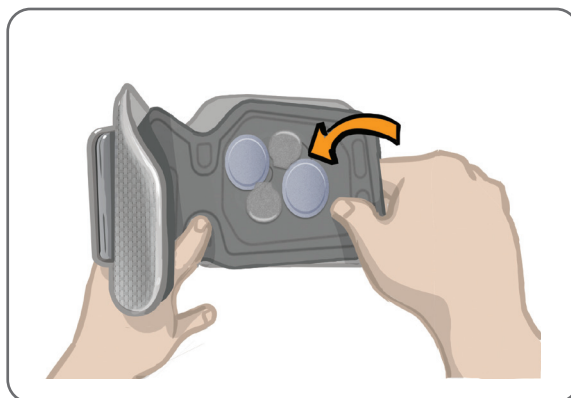


Figure 6-5: Personal Panel Being Removed

2. Write the patient's name and strap size on the Personal Panel label. If using hydrogel electrodes, re-adhere the electrode covers. If using cloth electrodes allow the electrodes to air dry.

3. Store the Personal Panel and electrodes for the patient's next session.

Note: When the patient returns to the clinic for a follow-up visit, attach the Personal Panel (with the electrode bases and electrodes attached) onto the Lower Leg Cuff inner liner.

Electrode Bases

The electrode bases are used to:

- Elevate the electrodes from the inner liner of the Lower Leg Cuff to optimize electrode contact.
- Ensure accurate positioning of the electrodes with every application.

The electrode bases feature a snap for attachment to the Lower Leg Cuff plug holes.

The following electrode bases can be used with the Regular Lower Leg Cuff: (See Figure 6-6)

- Regular L300 Cloth Electrode Bases (used with the Regular L300 Cloth Electrodes)
- Hydrogel Electrode Bases (used with the Hydrogel Electrodes)

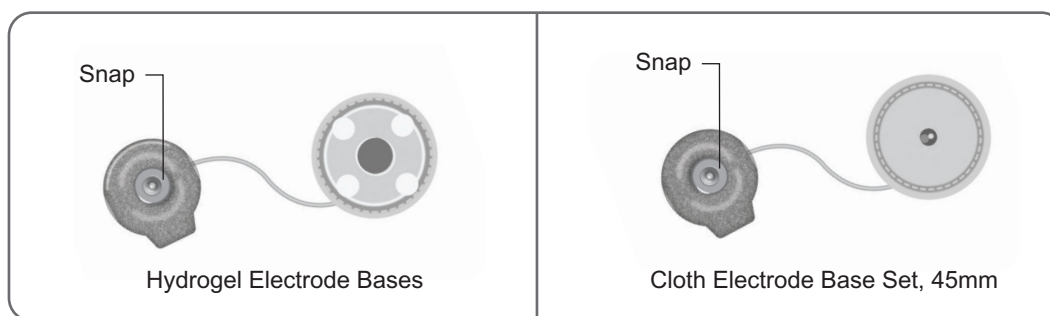


Figure 6-6: Regular Lower Leg Cuff Electrode Base Options

The following electrode base is used with the Small Lower Leg Cuff: (See Figure 6-7)

- Small Electrode Bases (used with both the Small Hydrogel Electrodes and the Small Cloth Electrodes)

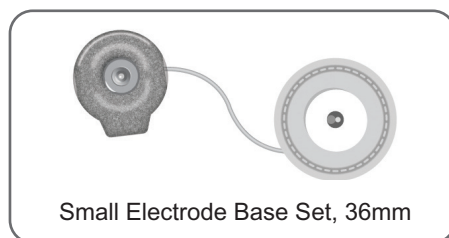


Figure 6-7: Small Lower Leg Cuff Electrode Base Options

Note: The electrode bases are re-usable. Clean the electrode bases with cool water to remove any hydrogel residue, if applicable. Then disinfect the electrode bases with alcohol. See the "Maintenance and Cleaning" chapter in this guide for more information.

⚠ Caution: Only a clinician should replace or reposition the electrode bases.

Electrodes

The electrodes transmit the electrical signal from the EPG to the target nerve and there are four types of electrodes that can be used with the Lower Leg Cuff.

⚠ Caution: The electrodes are to be used by no more than one individual patient. The L300 Go electrodes are for single patient use only to prevent cross contamination. Only the hydrogel electrodes carry an expiration date, therefore verify the expiration date is outside the two week period before use. To re-order all electrodes, contact your local representative or visit BionessMedical.com.

⚠ Caution: Use only the electrodes supplied by Bioness.

⚠ Caution: Do not use the L300 Go System without the electrodes attached to the cuff.

With the Lower Leg Cuff the following electrodes can be used: (See Figure 6-8)

- Quick Fit Electrode, left or right
- Round Cloth Electrodes, 45mm
- Steering Electrode, left or right
- Hydrogel Electrodes

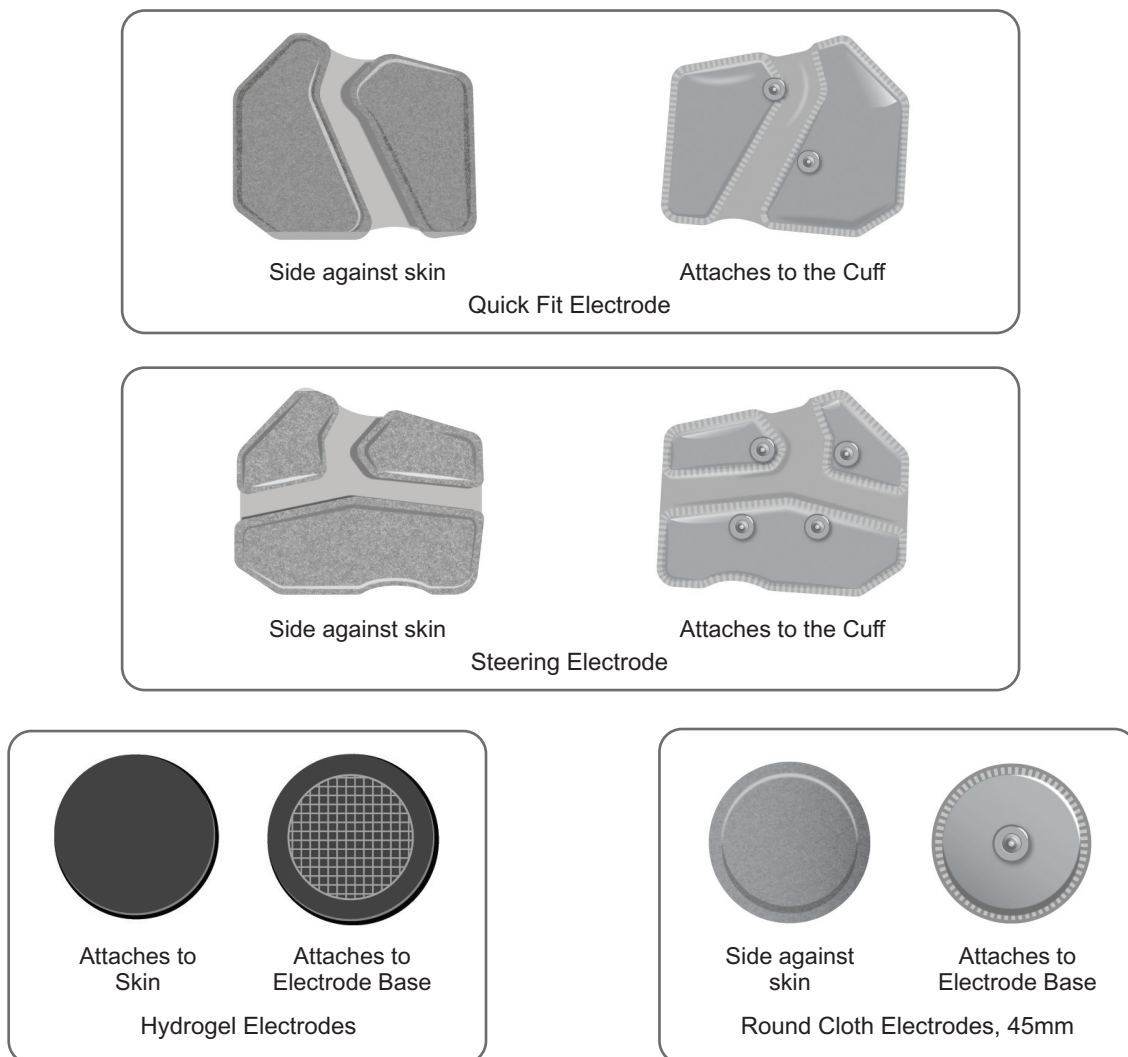


Figure 6-8: Lower Leg Cuff Electrode Options

With the Small Lower Leg Cuff the following electrodes can be used: (See Figure 6-9)

- Small Quick Fit Electrode - A
- Small Quick Fit Electrode - B
- Small Round Cloth Electrode, 36 mm
- Small L300 Hydrogel Electrodes (only used for the fitting process)

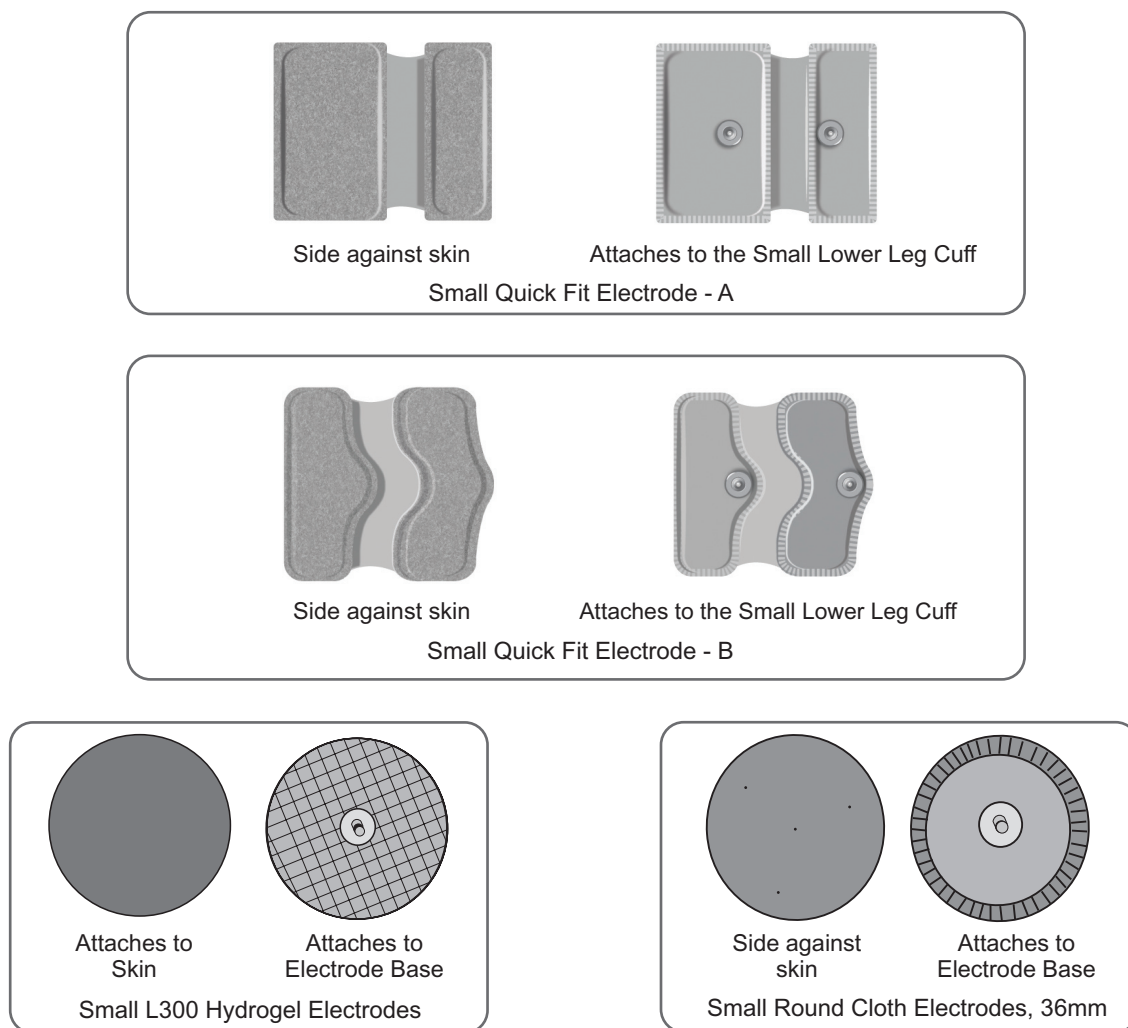


Figure 6-9: Small Lower Leg Cuff Electrode Options

Wire Concealers

The Wire Concealers are used to cover the wires and snaps of the electrode bases when attached to the Lower Leg Cuff. The Wire Concealers are used with patients that are using the Hydrogel Electrodes or Cloth Electrodes. See Figure 6-10.

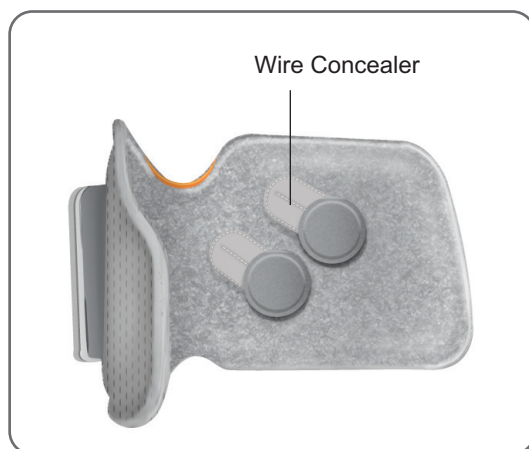


Figure 6-10: Lower Leg Cuff with Wire Concealers

Snap Covers

The Snap Covers are used to close two of the Regular Lower Leg Cuff plug holes when using the Quick Fit Electrode, Hydrogel Electrodes, or Round Cloth Electrodes. See Figure 6-11.

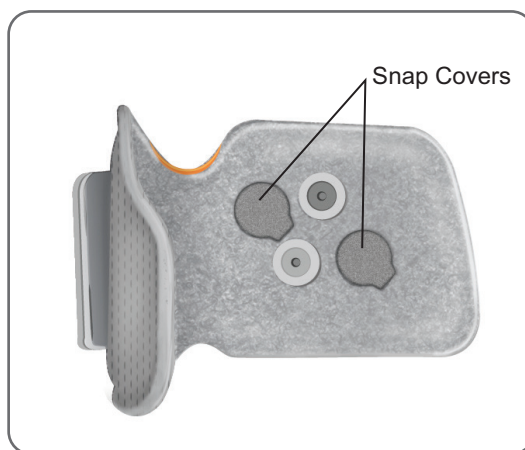


Figure 6-11: Snap Covers Attached to the Lower Leg Cuff

Fitting Cable

The Fitting Cable is used to electrically connect the electrode base snaps to the Lower Leg Cuff plug holes during fitting. See Figure 6-12. The Fitting Cable is used with the Hydrogel or Round Cloth Electrodes during the initial fitting session.

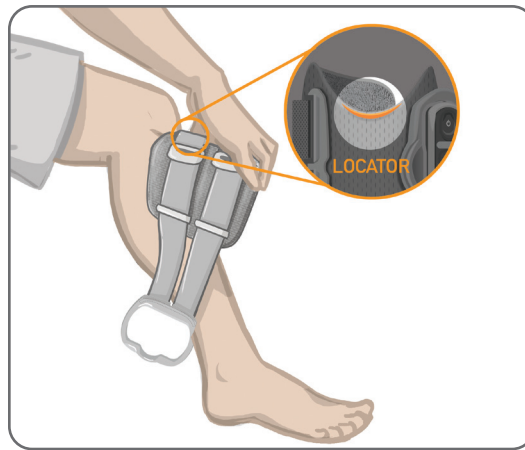


Figure 6-12: Fitting Cable Connected to the Lower Leg Cuff and Electrode Bases

Personal Strap Covers (Thigh Cuff)

The Personal Strap Covers slide over the two Thigh Cuff straps and are used as an hygienic cover when the Thigh Cuff is used by multiple patients.

⚠ Caution: The Personal Strap Covers are for single patient use only to prevent cross contamination.

To attach the Personal Strap Covers:

1. Slide one Personal Strap Cover over each of the straps on the Thigh Cuff. See Figure 6-13.
2. If the Personal Strap Cover is too long, cut to size.



Figure 6-13: Personal Strap Covers on the Thigh Cuff

Thigh Cloth Electrodes

The Thigh Cuff uses two cloth electrodes to provide electrical stimulation to the muscles in the upper leg. See Figure 6-14. The Thigh Cloth Electrodes snap to the Thigh Cuff proximal and distal panels.

⚠ Caution: Use only the electrodes supplied by Bioness.

⚠ Caution: Do not use the L300 Go System without the electrodes attached to the Thigh Cuff.

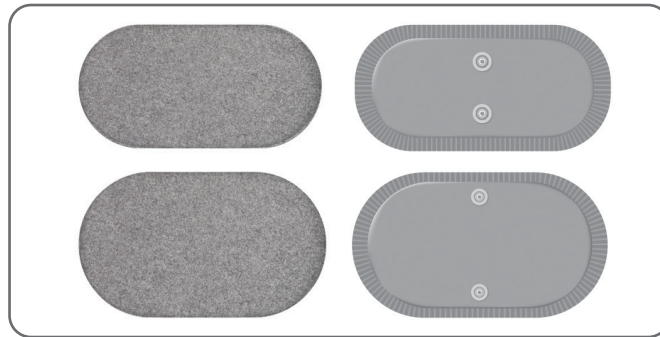


Figure 6-14: Thigh Cloth Electrodes

Foot Sensor Pads

The Foot Sensor Pad is used to secure the Foot Sensor pressure sensor to the inside of the patient's shoe. The Foot Sensor pad is placed under the insole, and the Foot Sensor pressure sensor is placed on top of the Foot Sensor pad. See Figure 6-15.

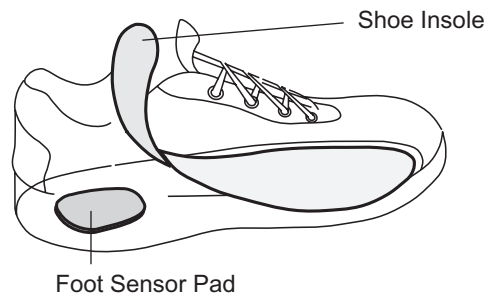


Figure 6-15: Foot Sensor Pad Placement

Tester

The Tester is used for troubleshooting to confirm that stimulation is being delivered. It tests if there is a disconnection in the Lower Leg Cuff, Thigh Cuff, or the EPG. The Tester provides audio feedback when connected to the Lower Leg Cuff, Thigh Cuff, or EPG and stimulation is applied. For more information on the Tester, refer to the "Troubleshooting" chapter in this guide.

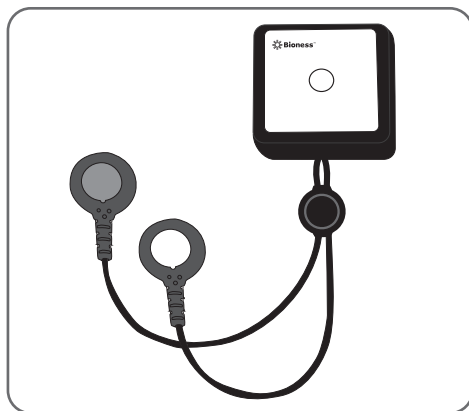


Figure 6-16: Tester

Bioness Clinician Programmer Application Software Navigation

The Bioness Clinician Programmer Application uses proprietary software that enables the clinician to configure stimulation parameters and programs for the patient. The Bioness Clinician Programmer Application uses a Windows® based tablet PC platform and uses standard Bluetooth® Low Energy (BLE) wireless signals to communicate with the L300 Go System. The Bioness Clinician Programmer Application is used in the clinic for patient programming. The Bioness Clinician Programmer Application also enables the clinician to retrieve patient's activity logs.

The Bioness Clinician Programmer Application consists of six main screens the Login, Patient Database, Patient Dashboard, Programming Settings, Reports, and Logout/Settings screens.

Login Screen

The Login Screen is used to login into the Bioness Clinician Programmer Application software. The Login Screen appears after the software has been launched. From this screen, the user must enter their username and password and press the Login button. See Figure 7-1.

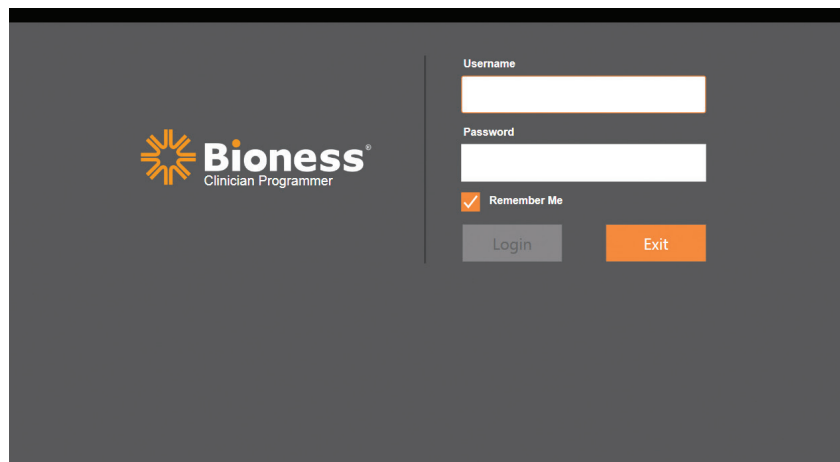


Figure 7-1: Login Screen

Patient Database Screen

After the Login screen, the Bioness Clinician Programmer Application will display the Patient Database Screen. The Patient Database screen lists all patient files that are stored on the Bioness Clinician Programmer Application. From this screen, the clinician can search for a patient file, import or export the patient file, or edit the patient file. This screen is also used to create new patient files.

The Patient Database Screen consists of four icons and a searchable text field. See Figure 7-2.

- Add New Patient icon - used to add a new patient file to the Bioness Clinician Programmer Application.
- Upload Patient icon - used to upload a patient file to a paired EPG.

Note: Upload Patient icon is disabled until the EPG's are connected to the Bioness Clinician Programmer Application.

- Export Patient icon - used to export a patient file and load onto another Bioness Clinician Programmer Application.
- Import Patient icon - used to import a patient file from another Bioness Clinician Programmer Application.

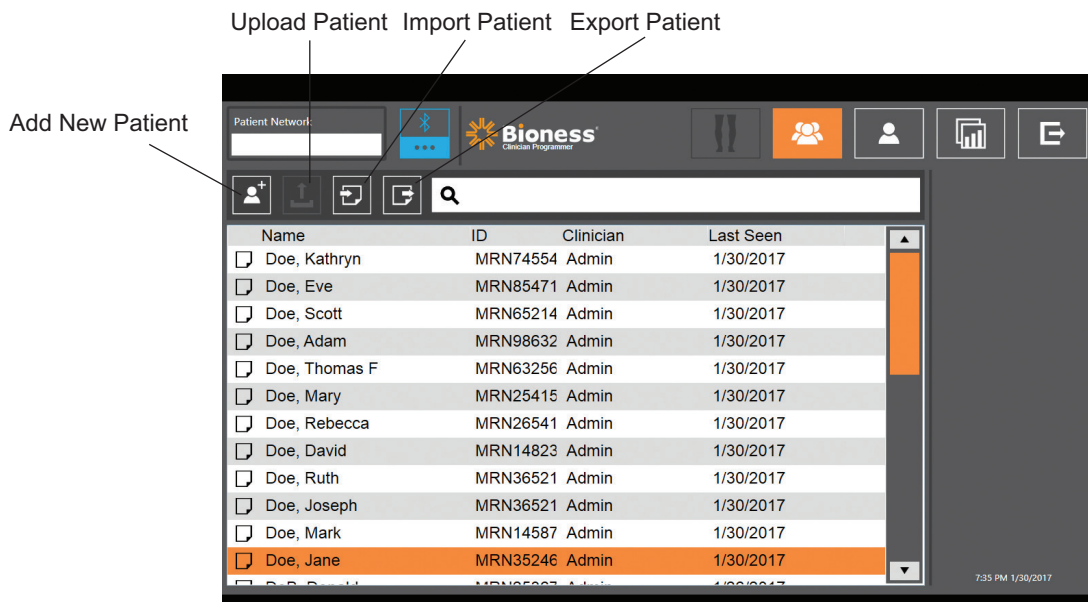


Figure 7-2: Patient Database Screen

Navigation Bar

The navigation bar appears along the top of each screen in the Bioness Clinician Programmer Application software. It consists of five menu icons, patient network field and link state button. See Figure 7-3 and Figure 7-4.

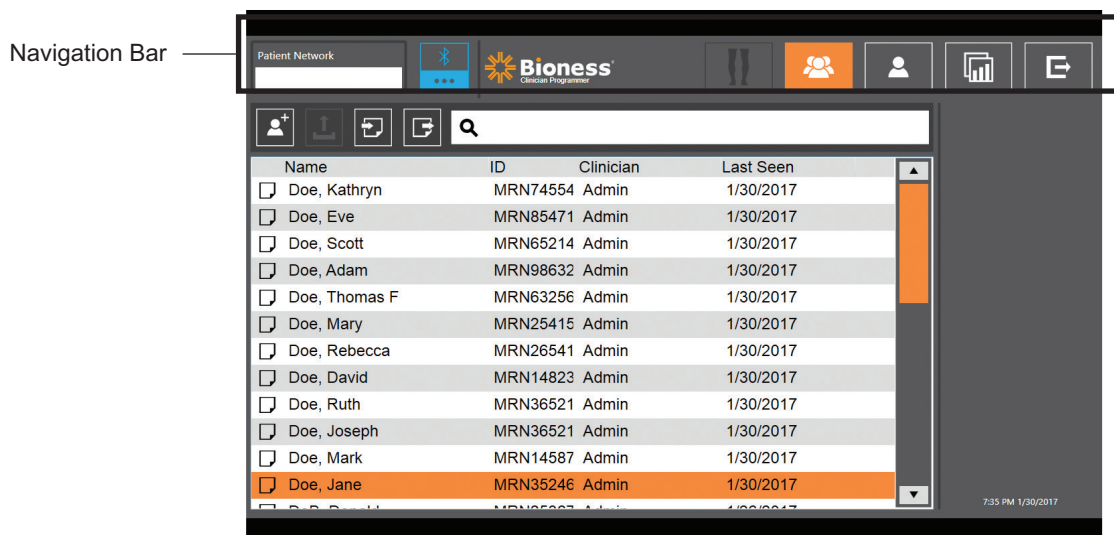


Figure 7-3: Navigation Bar on the Programming Screen

When the Bioness Clinician Programmer Application is paired with a patient's L300 Go System, the patient's name will appear in the patient network field with an orange outline and the active screen's icon will also appear in orange. See Figure 7-4.

When the Bioness Clinician Programmer Application is not paired with a patient's L300 Go System, the patient network field will be empty with a blue outline and the active screen's icon will also appear in blue.

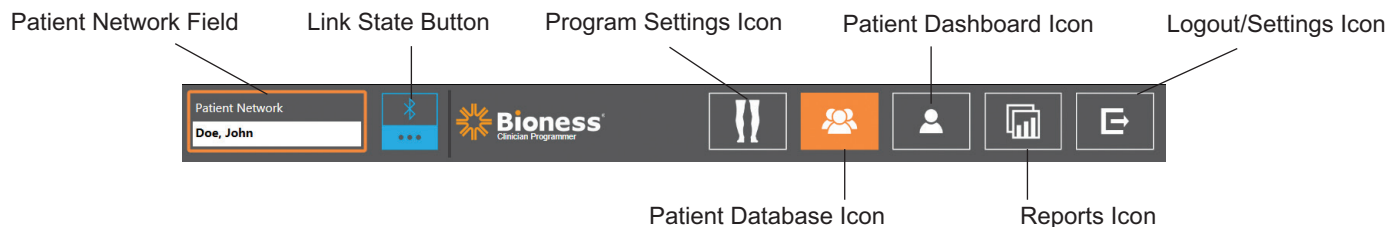


Figure 7-4: Navigation Bar - Linked to a Patient's System

Programming Setting Screen

The Programming Setting screen can only be accessed if the Bioness Clinician Programmer Application is paired with a L300 Go System and a patient file has been uploaded to the patient network. This screen is used by the clinician to program the stimulation parameter settings, programs, and advance settings on a patient's L300 Go System. The Programming Settings Screen consists of four sub-menu screens: Parameter, Gait, Cycle Training, and Training Screens. See Figure 7-5.

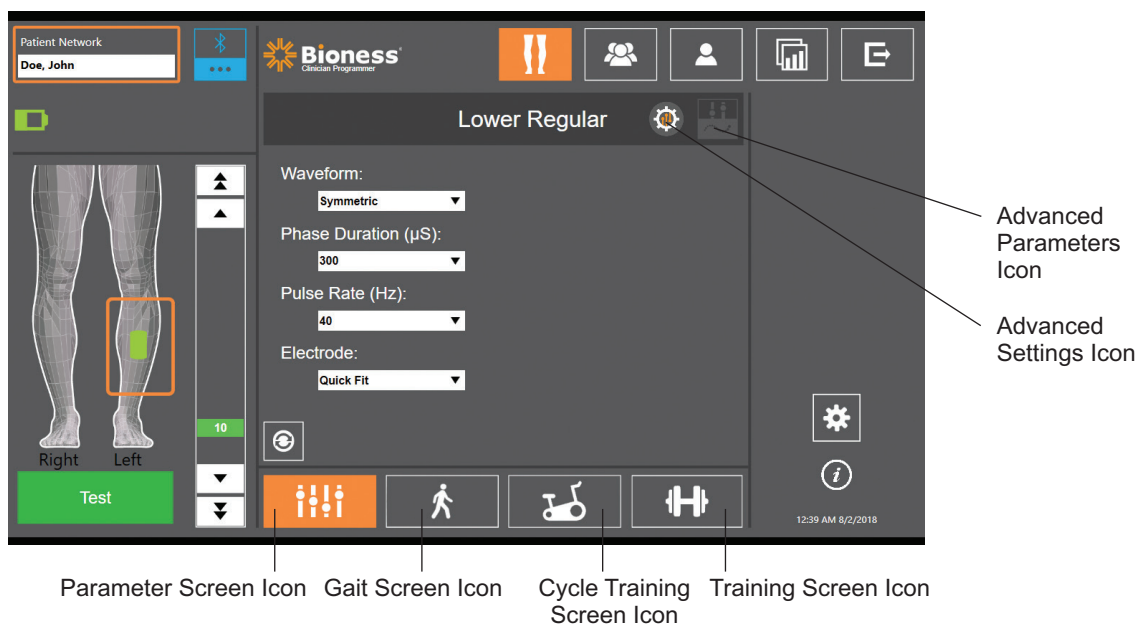


Figure 7-5: Programming Setting Screen (Stim (sub-menu) Screen Displayed)

Parameter Screen

The Parameter Screen is used to program the stimulation settings for the selected EPG. The advanced setting window can also be accessed from this screen by pressing the Advanced Settings icon. See Figure 7-6.

If the patient is using the Steering Electrode make sure the Electrode drop down menu is set to Steering Electrode to enable the Advanced Parameters icon. Press the Advanced Parameter icon to open the Advanced Parameter window. The clinician can then adjust the medial and lateral stimulation intensity. See Figure 7-7.

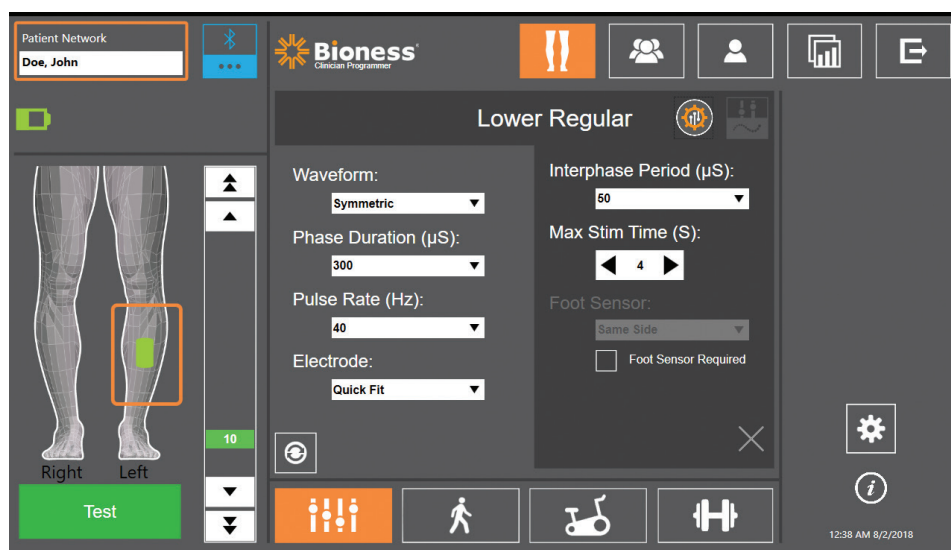


Figure 7-6: Parameter Screen with Advanced Settings Displayed

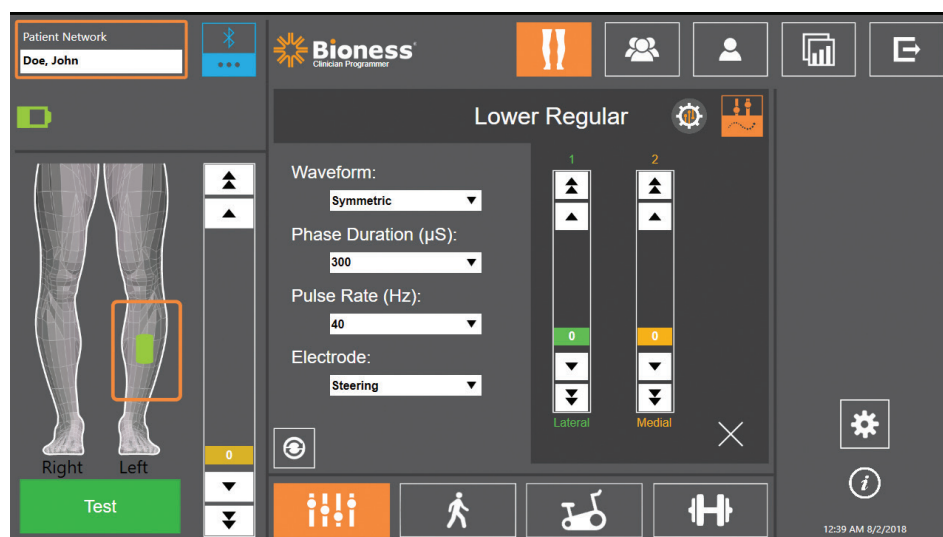


Figure 7-7: Parameter Screen with Advanced Parameters Displayed

Gait Screen

The Gait screen is used to program Gait mode settings. See Figure 7-8. This screen also controls the audio and vibration feedback during stimulation settings. To access this screen press the Gait screen icon. See Figure 7-5.

Cycle Training Screen

The Cycle Training screen is used to program Cycle Training mode settings. See Figure 7-9. The stimulation amplitude settings on this screen are independent of those used for Gait mode. To access this screen, press the Cycle Training screen icon. See Figure 7-5.

Training Screen

The Training screen is used to program the settings that are used in training mode. See Figure 7-10. To access this screen press the Training screen icon. See Figure 7-5.

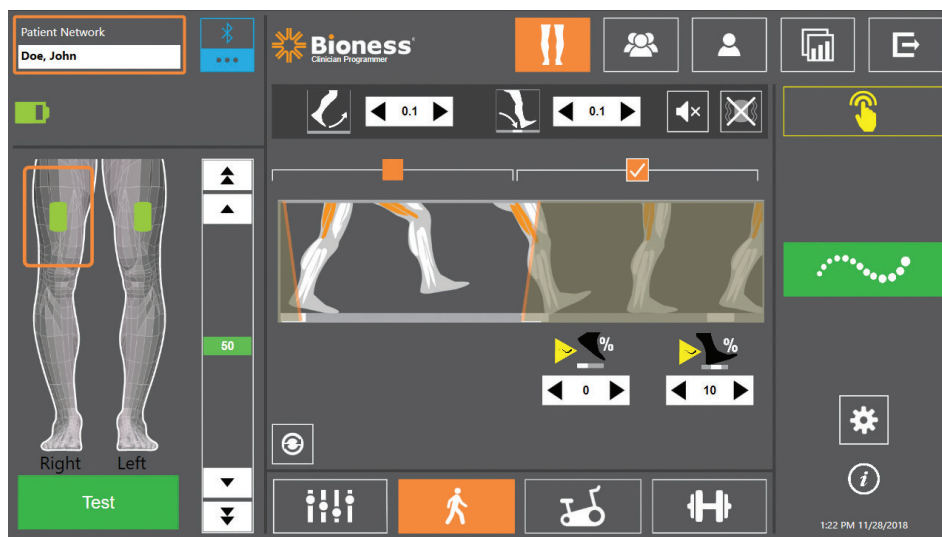


Figure 7-8: Gait Screen

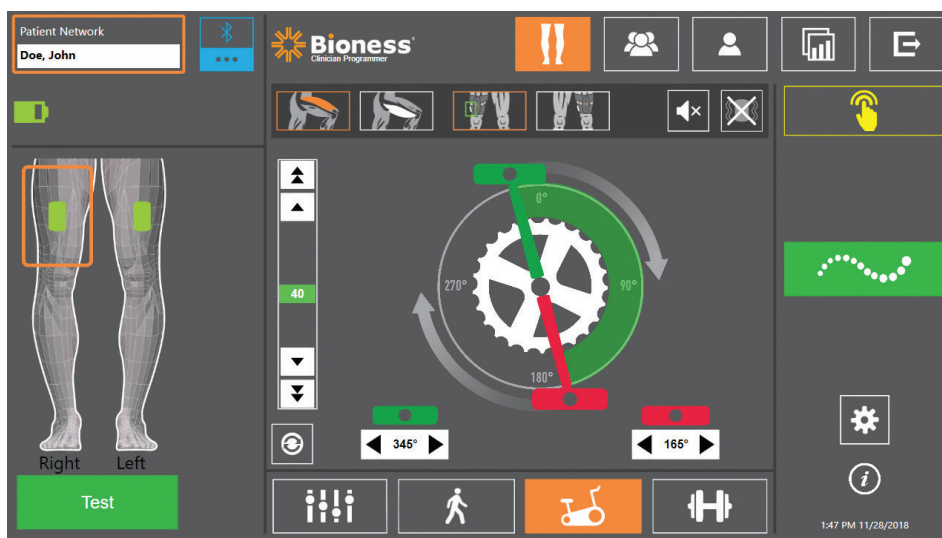


Figure 7-9: Cycle Training Screen

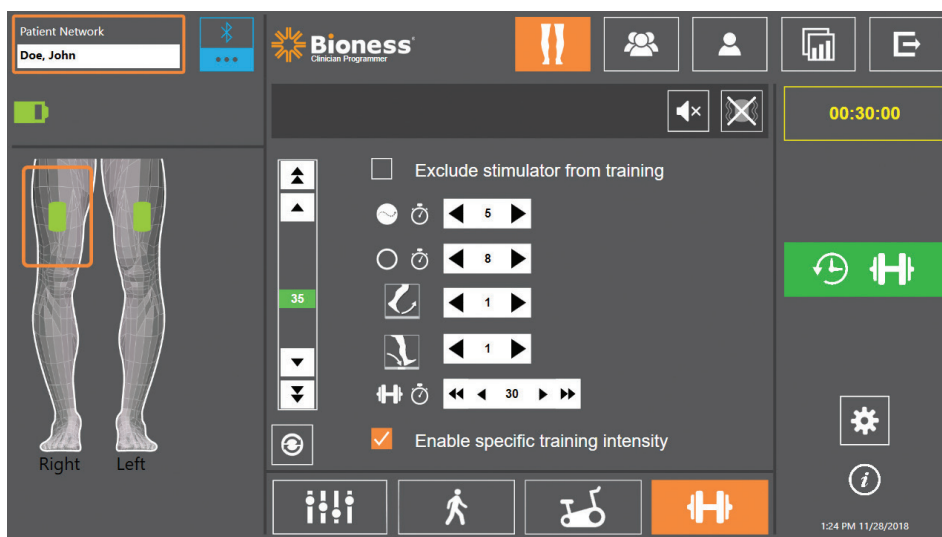


Figure 7-10: Training Screen

Patient Dashboard Screen

The Patient Dashboard Screen allows the clinician to view all relevant information about a specific patient, including session settings history, data logs, and notes. See Figure 7-11. To access the Patient Dashboard Screen press the Patient Dashboard icon located in the navigation bar. See Figure 7-4.

You can review and upload setting from a previous session to use for the current session. Select a previous session from the list and press the Upload icon to load the settings to the patient network.

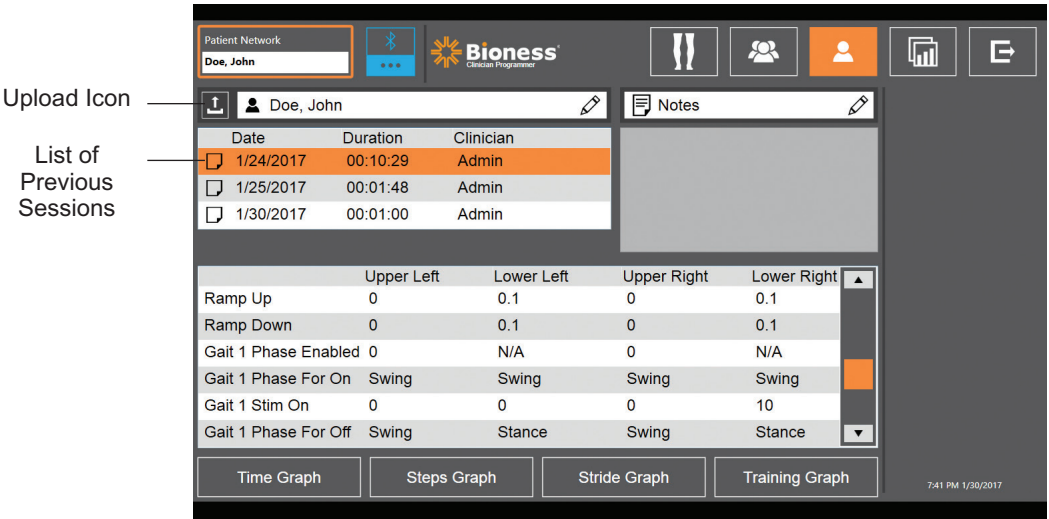


Figure 7-11 Patient Dashboard Screen

Reports Screen

The clinician can access the Reports screen to view previous data and generate new test reports. See Figure 7-12. To access the Reports screen press the Reports icon located in the navigation bar. See Figure 7-4.

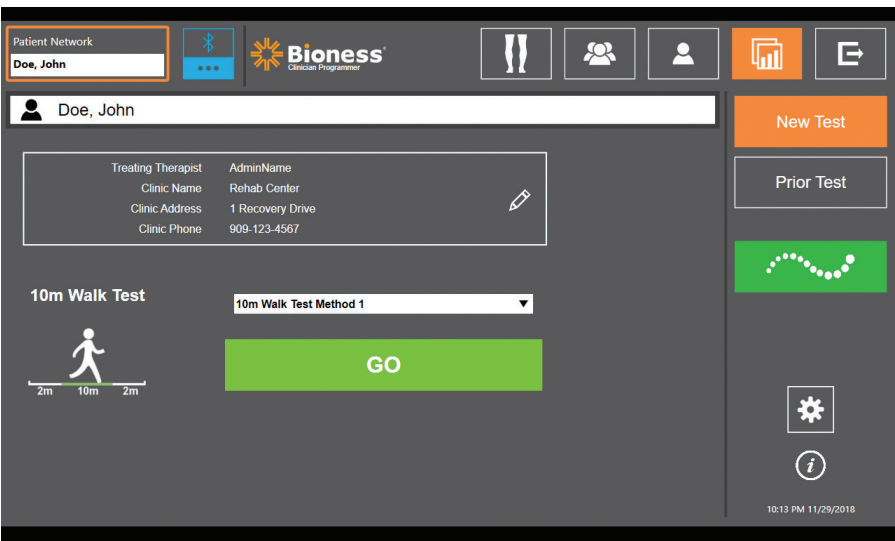


Figure 7-12: Reports Screen

Ten Meter Walk Test

The Bioness Clinician Programmer Application supports the 10 meter Walk Test which assesses patient gait speed in meters per second over a set distance. This test allows a clinician to set ambulatory category and fall risk. There are two common methods for conducting the 10m Walk Test. The software calculates patient gait speed by dividing the distance walked by the patient by the total time taken.

Method 1

Method 1 is the default setting. During this test, the patient walks unassisted for a total of 14 meters. The software calculates gait speed over a distance of ten meters.

1. On the New Test screen, press the Pencil icon to enter therapist name, clinic name, and contact information. Press the Save icon to continue.
2. Press the Stimulation button to turn on Gait mode.
3. Instruct the patient to walk two meters (allowing the patient to accelerate to a normal comfortable walking speed).
4. Press Go to begin the stopwatch.
5. Press Done to stop the stopwatch once the patient has walked ten meters.
6. Allow the patient to decelerate over the remaining two meters.
7. Once the gait speed is determined, the clinician must assign the Perry Ambulatory Category (Household, Community, or Limited Community) and Fall Risk (Low, Moderate, or High) from the drop down menus.
8. Press the Save Results button to save results, or press Redo Test button to discard results and begin a new test.

Note: The saved data includes the therapist name, clinic name, contact information, total time, gait speed, ambulatory category, and fall risk.

9. The result can be exported by pressing the Export button on the Prior Test screen.

Method 2

Method 2 is a second method for conducting the 10m Walk Test. During this test, the patient walks unassisted for a total of 10 meters. The software calculates gait speed over a distance of six meters.

1. On the New Test screen, press the Pencil icon to enter therapist name, clinic name, and contact information. Press the Save icon to continue.
2. Press the Stimulation button to turn on Gait mode.
3. Instruct the patient to walk two meters (allowing the patient to accelerate to a normal comfortable walking speed).
4. Press Go to begin the stopwatch.
5. Press Done to stop the stopwatch once the patient has walked six meters.
6. Allow the patient to decelerate over the remaining two meters.
7. Once the gait speed is determined, the clinician must assign the Perry Ambulatory Category (Household, Community, or Limited Community) and Fall Risk (Low, Moderate, or High) from the

drop down menus.

8. Press the Save Results button to save results, or press Redo Results button to discard results and begin a new test.

Note: The saved data includes the therapist name, clinic name, contact information, total time, gait speed, ambulatory category, and fall risk.

9. The result can be exported by pressing the Export button on the Prior Test screen.

Logout/Settings Screen

The Logout/Settings screen is used to logout of the Bioness Clinician Programmer Application software, and close the application.

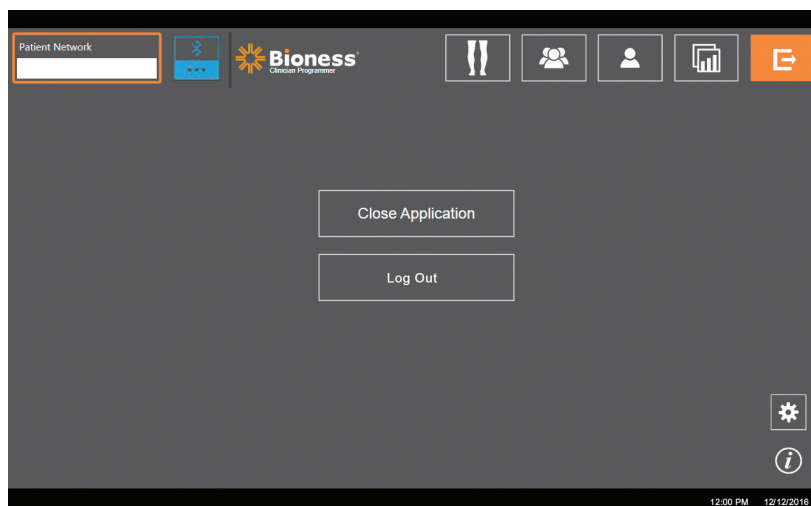



Figure 7-13: Logout/Settings Screen

Application Settings Screen

The Application Settings screen, accessed via the icon  available on each screen on the right lower corner of the screen, is used to adjust language settings, manage user profiles, and manage data. The Application Settings Screen consists of three sub-menu screens. See Figure 7-14.

- Programmer Settings: used to select a language setting, display software versions, and factory reset the EPGs. Press the Software Versions or Change Language button to toggle between the two available screens. See Figure 7-14 and Figure 7-15.
- User Settings: used to manage user (clinician) profiles including adding new user accounts, editing profiles, disabling user accounts, and resetting passwords
- Manage Data: used to load system data and export EPG system logs

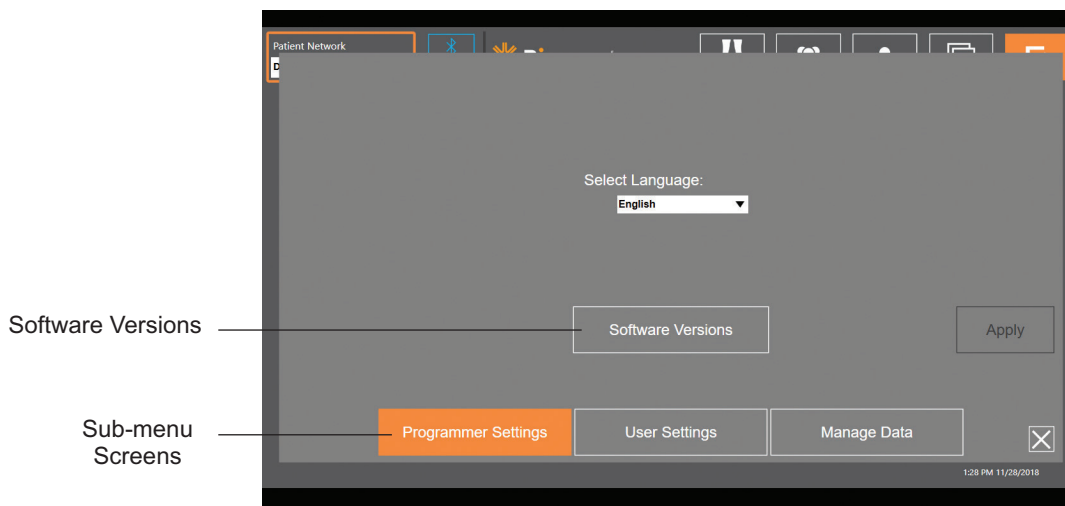


Figure 7-14: Application Settings Screen - Change Languages

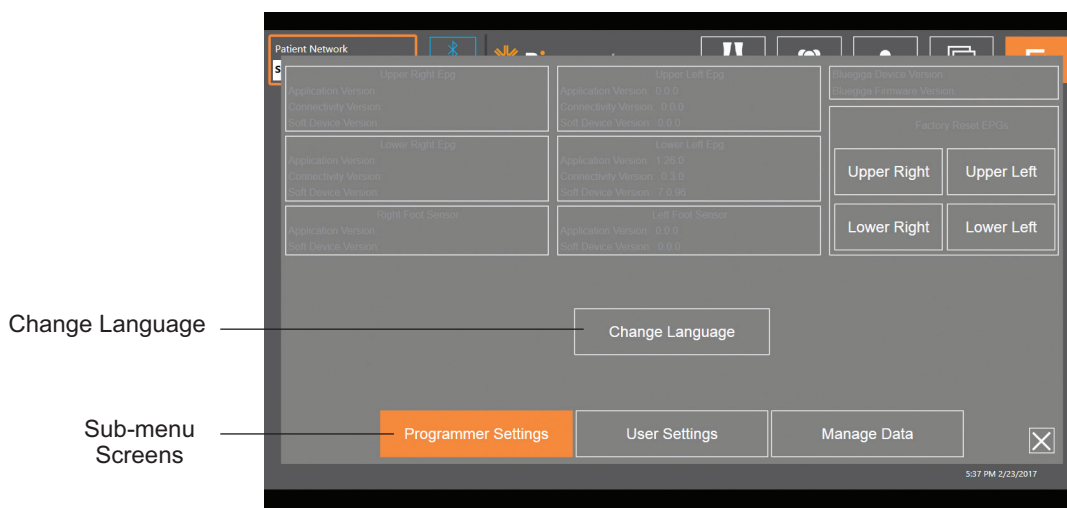



Figure 7-15: Application Settings Screen - Software Versions

EPG Factory Reset

To factory reset an EPG, access the application settings screen then click on Software Versions to view the factory reset buttons. Follow the steps below to factory reset an EPG for use with a different cuff type (e.g. right or left). The example below explains how to reset an EPG from a Left Lower Leg Cuff for use with a Small Right Lower Leg Cuff. A similar process can be followed to reset an EPG for a Thigh Cuff.

To factory reset an EPG:

1. Remove central EPG from previous cuff (e.g. Regular Left Lower Leg Cuff) and place it into desired cuff (e.g. Small Right Lower Leg Cuff).
2. Pair the right Small Right Lower Leg Cuff to Bioness Clinician Programmer Application as if it were a Left Lower Leg Cuff and allow to run through syncing sequence.
3. Click on Application Settings  and select Software Version to view the factory reset options. See Figure 7-14.

4. Under the factory reset section, select the location where the EPG had been previously (e.g. Left Lower Leg). This will initiate the factory reset with red status bar flashing on the EPG. Once done, silence the alarm by pressing the power button. Turn off the EPG and turn it back on and it will recognize it's new location.

Information Screen

The Information screen is accessed via the information icon ⓘ available on each screen on the far right below the Application Settings icon. The Information screen provides information about the features available on the screens of Bioness Clinician Programmer Application. The Information screen is dynamic as the information displayed is dependent on the screen in which it is accessed. See Figure 7-16.

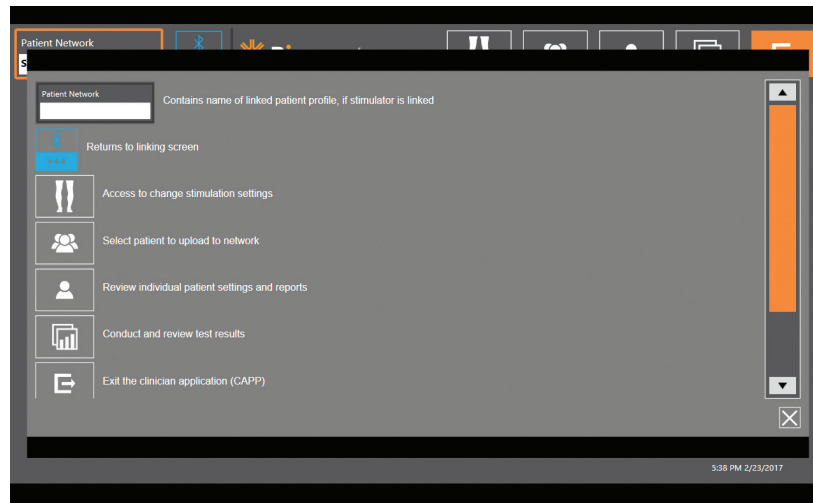


Figure 7-16: Information Screen

Patient Fitting

Skin Preparation

Before fitting the Lower Leg Cuff and/or Thigh Cuff on a patient, always check the patient's skin for signs of irritation. If any irritation is present, wait for complete healing before using the L300 Go System. For optimal stimulation, the skin under the cuff should be clean and healthy.

To prepare the skin:

1. Use a wet cloth to clean the skin where the electrodes will touch. If any oils or lotions are on the skin, clean the skin with soap and water. Rinse well.
2. If necessary, trim excess body hair from the area using scissors. Do not use a razor. A razor can irritate the skin.

Fitting the Quick Fit Electrodes

For first fittings, it is recommended to use quick fit electrodes before using other electrode types.

The Lower Leg Cuff can use one type of Quick Fit Electrode, which is available in left and right configurations. The small Lower Leg Cuff can use two types of Quick Fit Electrodes, the Small Quick Fit Electrode - A or the Small Quick Fit Electrode - B.

To select a Small L300 Quick Fit Electrode:

1. Measure the circumference of the patient's leg at its broadest point (the gastrocnemius muscle belly) and refer to Table 8-1.

Note: Patients with middle range calf circumference (24-25cm) may fit both types of the Small L300 Quick Fit Electrodes.

| Small Quick Fit Electrode | Calf Circumference |
|-------------------------------|--------------------|
| Small Quick Fit Electrode - A | 24-31 cm |
| Small Quick Fit Electrode - B | 22-25 cm |

Table 8-1: Small L300 Quick Fit Electrode Fitting Chart

To fit the Quick Fit Electrode: (See Figure 8-1)

1. Make sure the EPG is turned off and then remove the Lower Leg Cuff from patient's leg.
2. Wet the entire new Quick Fit Electrode with water until saturated.
3. Remove excess water from the Quick Fit Electrode with a cloth.
4. Align the orange and blue snaps on the Quick Fit Electrode with the orange and blue plug holes on the Lower Leg Cuff.

5. Press firmly to snap the Quick Fit Electrode into the Lower Leg Cuff.
6. Don the Lower Leg Cuff.
7. Adjust the stimulation settings to achieve the desired dorsiflexion response.

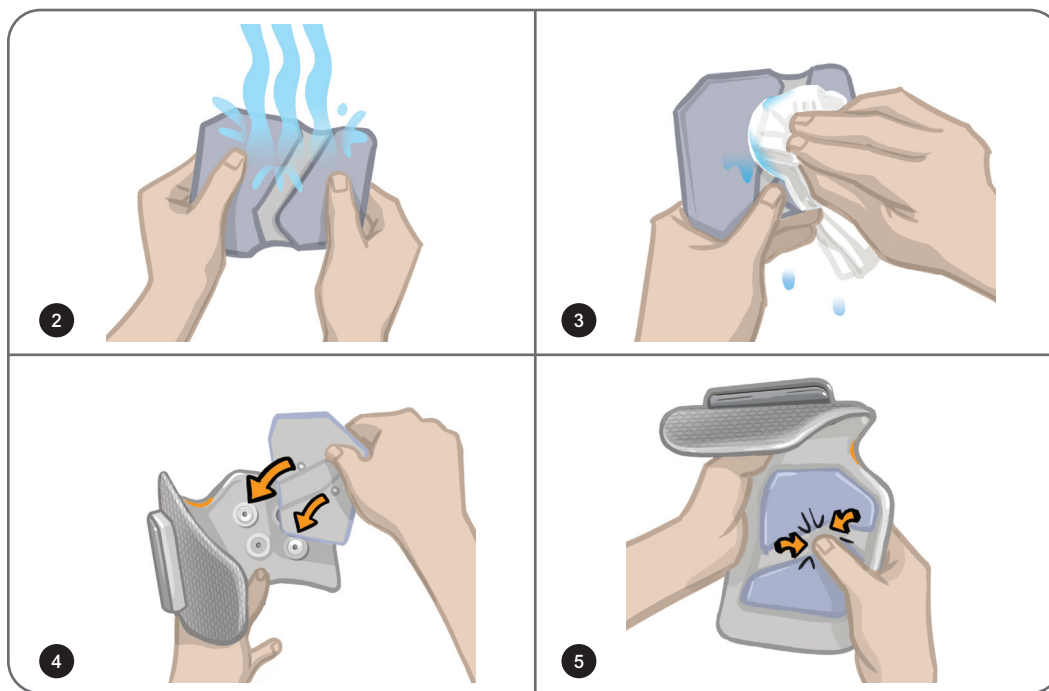


Figure 8-1: Fitting the Quick Fit Electrode
(Quick Fit Electrode and Lower Leg Cuff Shown)

Attaching the Hydrogel Electrodes and Electrode Bases

⚠ Caution: The Hydrogel Electrodes are to be used by no more than one individual patient. The electrodes are for single patient use only to prevent cross contamination.

To attach the Hydrogel Electrodes to the leg:

1. Make sure the Lower Leg EPG is turned off.
2. Separate the two new hydrogel electrodes along the perforation. See Figure 8-2.
3. Remove the covers on each electrode and discard them. See Figure 8-2.

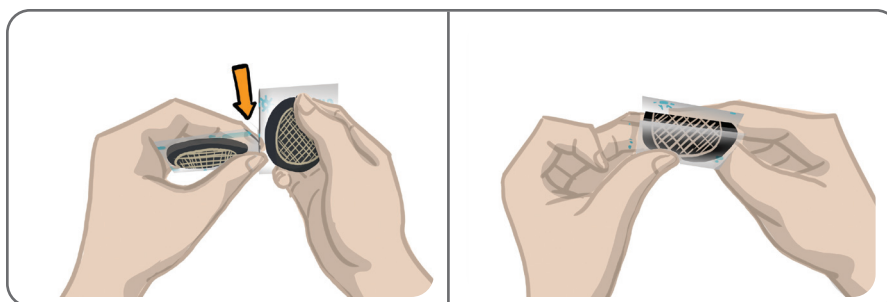


Figure 8-2: Separating the Hydrogel Electrodes and Splitting the Two-Piece Covers

4. For patients using the Lower Leg Cuff, attach the grid side of the electrodes to the Hydrogel Electrode Bases and then press firmly.
5. For patients using the small Lower Leg Cuff, snap the snap side of the electrodes into the Small Electrode Bases.
6. Remove the larger covers (with the Bioness logo) from the electrodes and save them. (Always cover the hydrogel electrodes between uses. Make sure the Bioness logo on the cover faces up.)
7. Have the patient sit and extend the leg to between 15 and 20 degrees of flexion. (The patient should maintain this position throughout the fitting process.) The heel should be elevated, if possible.
8. Position one electrode (the nerve electrode) over the common peroneal nerve, distal and slightly posterior to the fibular head. See Figure 8-3.
9. Position the other electrode (the muscle electrode) approximately 5 cm (2 in.) distal and anterior to the nerve electrode, over the belly of the tibialis anterior muscle.

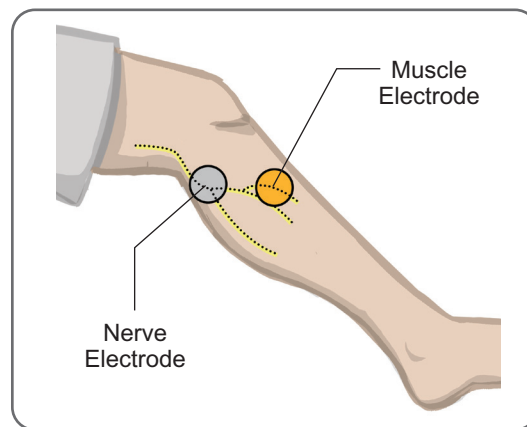


Figure 8-3: Positioning the Electrodes on the Leg

Note: The Small Hydrogel Electrodes are for fitting purposes only and not for patient home use.

Connecting the Fitting Cable

To connect the fitting cable:

1. Make sure the EPG is attached to the EPG cradle on the Lower Leg Cuff.
2. Connect the fitting cable to the electrode bases and to the Lower Leg Cuff plug holes.
3. Connect the orange ends of the fitting cable to the muscle electrode base and the orange cuff plug hole. See Figure 8-4.

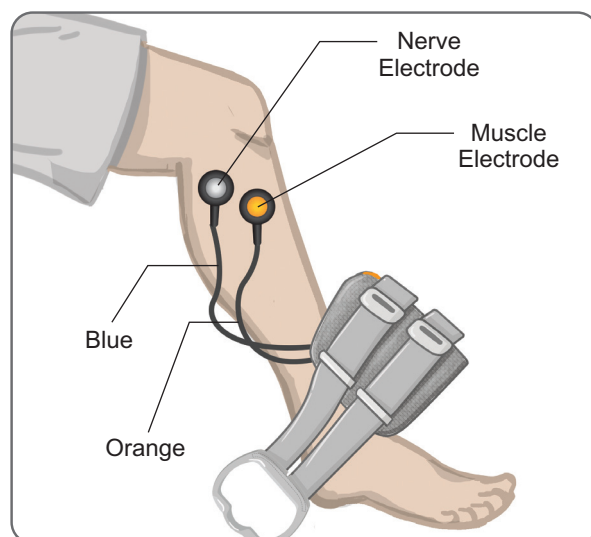


Figure 8-4: Fitting Cable Connected

4. Connect the blue ends of the fitting cable to the nerve electrode base and the blue cuff plug hole. See Figure 8-4.
5. Place the Lower Leg Cuff next to the patient's foot. See Figure 8-4.

Out-of-Box Settings

The out-of-box settings are default parameter settings that have been programmed into the EPG for patient fitting. For new patients, the clinician can enable the out of box settings by pressing and holding for five seconds the Stim and Mode buttons on the Control Unit for five seconds. If desired, these default parameter settings can be used as the patient's L300 Go System settings. To exit out-of-box mode, press the Select button. If different parameter settings are desired, the clinician will need to access the Bioness Clinician Programmer Application software for programming.

Note: The default stimulation intensity setting is set to 0.

Adjusting the Electrode Position While Stimulating: Patient Sitting

To check the position of the electrodes:

1. For new patients, press and hold for five seconds the Stim and Mode buttons on the Control Unit to enable the default parameter settings.
2. The default stimulation intensity level is set to 0. Press the Stim button on the EPG to enable stimulation.

Note: When applying stimulation, observe the patient's foot for proper dorsiflexion.

1. Press the Plus button on the EPG to gradually increase stimulation intensity to achieve dorsiflexion with a small amount of eversion.
2. **If inversion is excessive:** Move the nerve electrode posterolaterally to increase eversion.
3. **If eversion is excessive:** Move the nerve electrode slightly anteriorly to decrease eversion.

The muscle electrode can also be moved to balance dorsiflexion. Bring the muscle electrode anteriorly to decrease eversion of the foot or posterolaterally to increase eversion. Avoid stimulation directly above the tibial shaft, as it can be uncomfortable and less effective.

Test the Effect of a Positional Change

1. To test the effect of a positional change, gently move the electrode and skin as a unit over the common peroneal nerve area. (Do not leave stimulation on for long. Fatigue may result.)

Note: Press gently on the electrode bases while testing to simulate pressure from the cuff.

Adjusting the Position of the Electrode While Stimulating: Patient Standing

Once proper dorsiflexion is achieved with the patient seated, if possible, retest with the patient standing, the knee extended, and the foot in the air. If necessary, adjust the stimulation or electrode position to achieve proper dorsiflexion in this position.

Transfer the Electrodes to the Lower Leg Cuff

To transfer the electrodes to the Lower Leg Cuff:

1. Press the Stim button on the EPG to stop stimulation.
2. Using a marker, make four small, evenly spaced marks on the patient's leg around the electrode bases for reference.
3. Disconnect the fitting cable from the electrode bases and Lower Leg Cuff, making sure not to move the electrodes.
4. For in-patient use, attach an cuff strap cover and personal panel to the Lower Leg Cuff.
5. Grasp the Lower Leg Cuff on each side to flare the Orthosis slightly open. Then tilt the bottom of the Cuff away from the leg about 30 degrees.
6. Position the locator of the Lower Leg Cuff below the patella, over the tibial plateau. See Figure 8-5. Make sure the cuff does not touch the electrode bases. The locator should fit snugly but comfortably under the inferior pole of the patella.

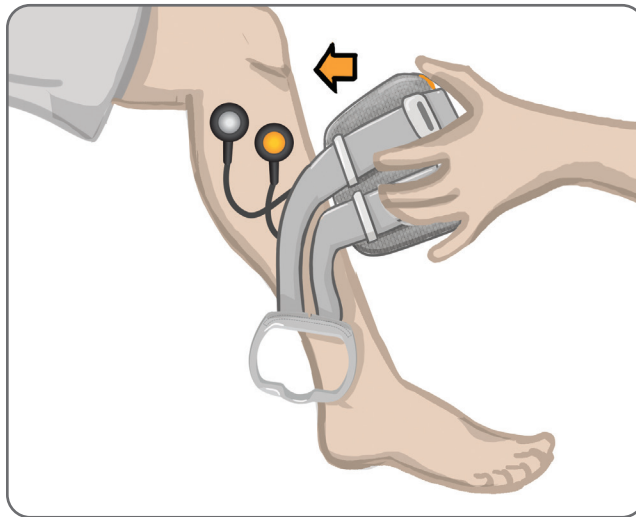


Figure 8-5: Positioning the Locator Below the Patella

7. Keeping the Lower Leg Cuff open, lower the bottom of the cuff, allowing only the front of the cuff to contact the anterior surface of the tibia. Then wrap the ends of the Lower Leg Cuff around the leg to “capture” the electrode bases. See Figure 8-6.
8. Gently remove the Lower Leg Cuff from the leg. See Figure 8-7.
9. Press firmly on the electrode bases to secure them to the Lower Leg Cuff. Plug the electrode base snaps into the cuff plug holes.



Figure 8-6: Capturing the Electrode Bases

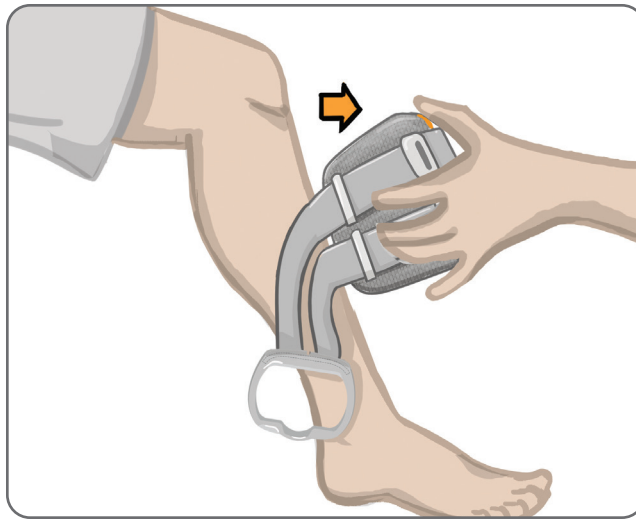


Figure 8-7: Removing the Lower Leg Cuff with Captured Electrode Bases

Donning the Lower Leg Cuff

To don the Lower Leg Cuff:

1. Wipe the leg with lukewarm water.
2. Have the patient sit and extend the knee so that the patella is clearly defined. Use a footrest if needed.
3. Tilt the top of the Lower Leg Cuff toward the leg. Gently slide the locator up to the base of the patella. Lower the bottom of the cuff until it is flush with the leg. The Lower Leg Cuff should gently grip the leg.
4. Pull the strap handle around the leg and the Lower Leg Cuff cradle to fasten it.
5. Make sure the fastened cuff fits comfortably, with the locator below the patella and the strap handle around the cradle, as shown in Figure 8-8.



Figure 8-8: Lower Leg Cuff on the Right Leg

Retesting Electrode Placement: Patient Sitting and Standing

To retest electrode placement:

1. Press the Power button on the Lower Leg EPG. The EPG will give vibration and audio feedback when turned on.
2. Press and hold the Stim button on the Lower Leg EPG for at least ten seconds. The EPG will deliver stimulation until the Stim button is released.
3. If patient response is not accurate or is inconsistent with the original response, reposition the Lower Leg Cuff and assess the response to stimulation. Do not leave stimulation on for long, as fatigue may result.

Fitting the Small Round Cloth Electrodes

Note: The Small Hydrogel Electrodes are used for the initial fitting process only. After the position of the electrodes have been determined, the small hydrogel electrodes will need to be removed and replaced with the Small Round Cloth Electrodes.

To fit the Small Round Cloth Electrodes: (See Figure 8-9)

1. Make sure the EPG is turned off and then remove the Small Lower Leg Cuff from patient's leg.
2. Carefully detach the Small Hydrogel Electrodes from the Small Electrode Bases. Be careful not to detach the electrode bases from the Small Lower Leg Cuff.
3. Remove the Small Round Cloth Electrodes from package.
4. Wet the new Small Round Cloth Electrodes with water until they are saturated.
5. With a soft cloth, gently wipe or blot excess water off the back (side with the snap) of the electrodes.
6. Snap the Small Round Cloth Electrodes into the Small Electrode Bases.
7. Don the Lower Leg Cuff and verify the desired dorsiflexion response. If necessary, adjust the stimulation setting or position of the cloth electrodes.



Figure 8-9: Fitting the Small Round Cloth Electrodes

Fitting the Round Cloth Electrodes

To fit the Round Cloth Electrode Bases: (See Figure 8-10)

1. Make sure the EPG is turned off and then remove the Lower Leg Cuff from patient's leg.
2. Mark the position of the Hydrogel Electrode Bases on the cuff liner.
3. Disconnect the snap on the hydrogel electrode bases from the cuff plug holes.
4. Remove the hydrogel electrode bases.
5. Attach the cloth electrode bases where the hydrogel electrode bases were attached.

Note: The cloth electrode base is 2mm smaller in height than the hydrogel electrode base.

6. Connect the snaps on the cloth electrode bases to the plug holes on the cuff.

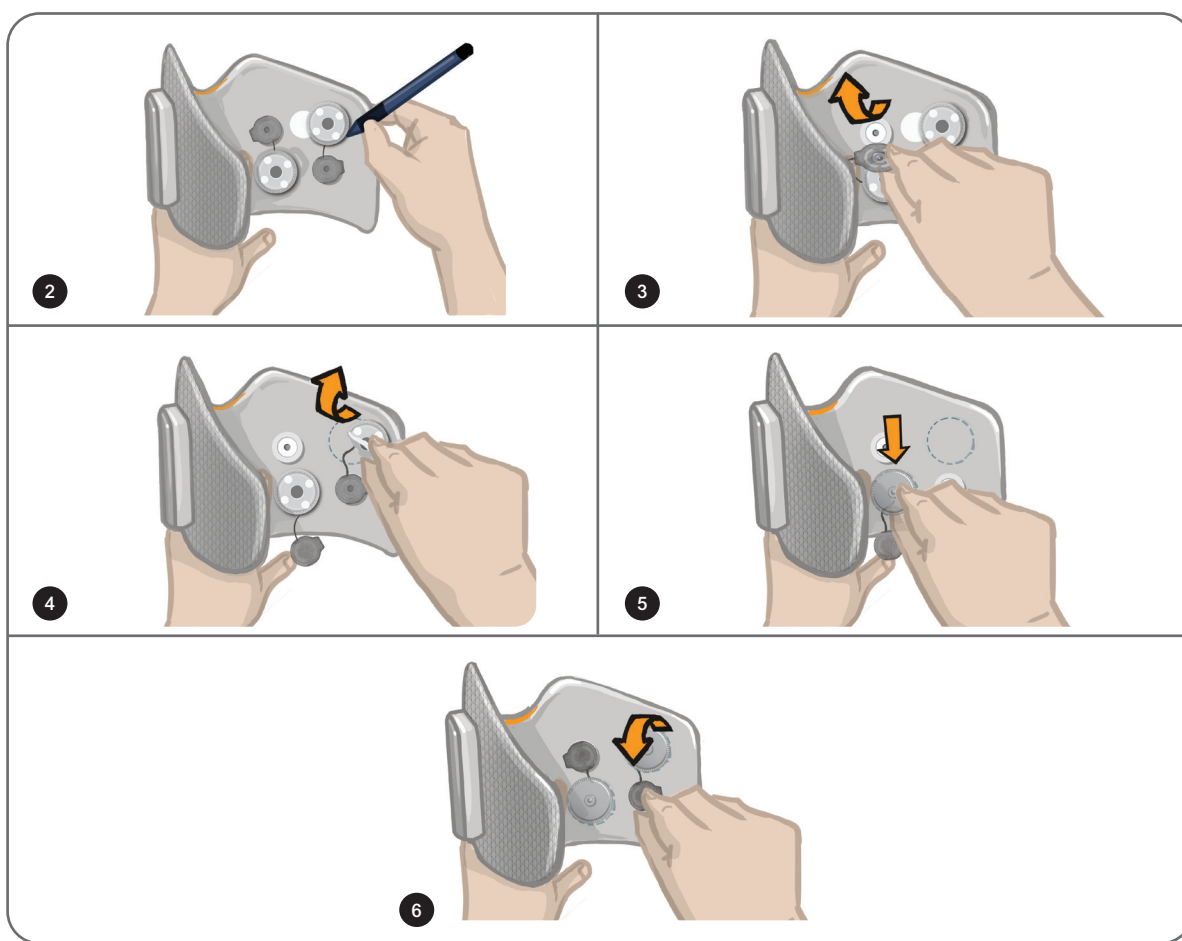


Figure 8-10: Fitting the Round Cloth Electrode Bases

To fit the Round Cloth Electrodes: (See Figure 8-11)

1. Wet the new Round Cloth Electrodes with water until saturated.
2. With a soft cloth, gently wipe or blot excess water from the back (side with the snap) of the cloth electrodes.
3. Attach the cloth electrodes to the cloth electrode bases on the cuff.

4. Don the Lower Leg Cuff and verify that the desired dorsiflexion response. If needed, optimize the stimulation settings and the position of the cloth electrodes.



Figure 8-11: Fitting the Round Cloth Electrode

Fitting the Steering Electrode

The Steering Electrode is used with the Lower Leg Cuff and allows the clinician to adjust the medial and lateral stimulation intensity.

To fit the Steering Electrode: (See Figure 8-12)

1. Remove the cuff from the patient's leg.
2. Make sure the EPG is turned off.
3. Wet the entire Steering Electrode with water until saturated.
4. Remove excess water from the Steering Electrode with a cloth.
5. Align the snaps on the Steering Electrode with the plug holes on the Lower Leg Cuff.
6. Press firmly to snap the Steering Electrode into the Lower Leg Cuff. Make sure to press on the areas above all four snaps.
7. Don the Lower Leg Cuff.
8. Adjust the stimulation settings in order to achieve the desired dorsiflexion response.

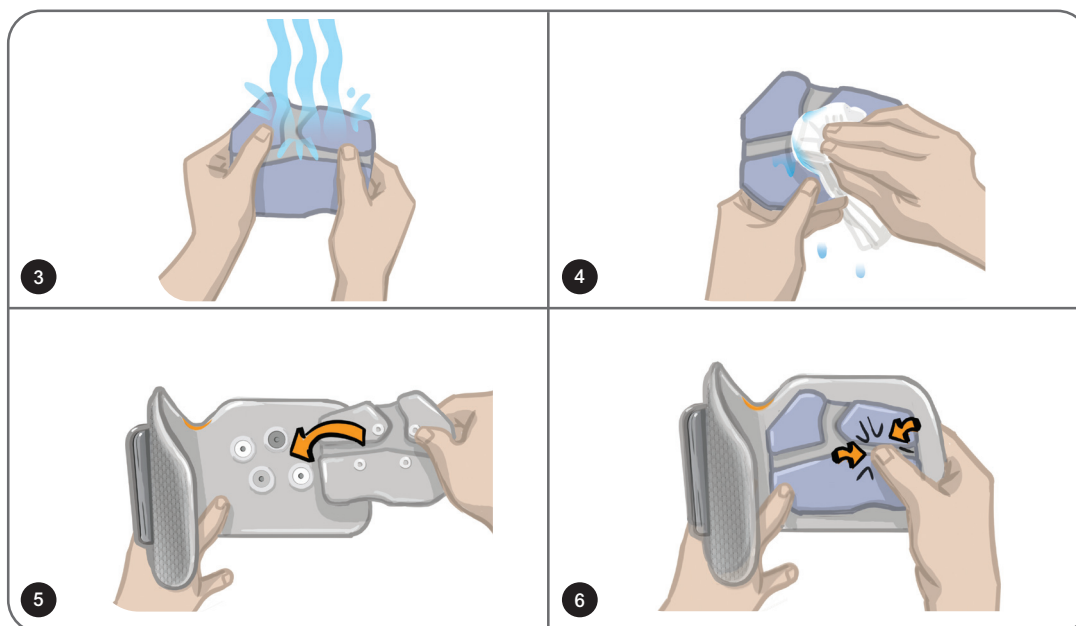


Figure 8-12: Fitting the Steering Electrode

Fitting the Foot Sensor

The Foot Sensor is an optional component of the L300 Go System. The clinician can determine if the Foot Sensor is needed based on patient presentation.

⚠ Caution: The Foot Sensor has not been validated for use by individuals weighing more than 300 lbs (136 kg).

⚠ Caution: Do not use the Foot Sensor with a rigid insole, such as a custom rigid orthosis or ankle foot orthosis.

The placement of the Foot Sensor can be adjusted based on patient's initial contact point. For the majority of patients the Foot Sensor should be placed at the heel. For patients that have initial contact with the ground near the toes, the Foot Sensor may be placed at the forefoot.

Note: The Foot Sensor pad and Foot Sensor pressure sensor should be placed under the insole of the shoe. If the shoe does not have a detachable insole, place the Foot Sensor pad and pressure sensor on top of the insole. Then, place a soft, thin (one layer versus two) generic insole over them.

To place the Foot Sensor in the shoe:

1. For new patients the Foot Sensor will need to be paired with their Lower Leg EPG. For patients who require the use of the optional Foot Sensor when using the L300 Go System, Thigh Stand-Alone, the Foot Sensor must be paired with their thigh EPG. For pairing instructions, please refer to the "Pairing a New Foot Sensor to the EPG" section of this guide.
2. Determine the appropriate placement (heel position or forefoot position) of the Foot Sensor based on patient presentation.
3. Lift the shoe insole, and attach a Foot Sensor pad to the heel or forefoot of the shoe.
4. For heel position placement point the wire of the Foot Sensor toward the toe of the shoe. For forefoot position placement point the wire of the Foot Sensor toward the heel of the shoe. Attach the pressure sensor to the Foot Sensor pad. See Figure 8-13.

Note: The image of the foot on the Foot Sensor will be reverse when in the forefoot position.

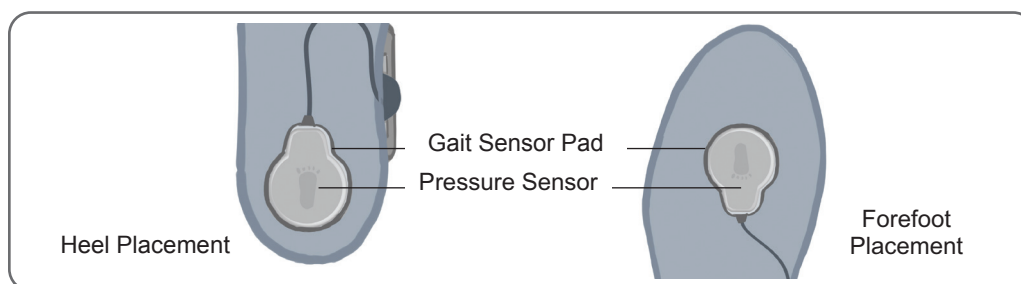


Figure 8-13: Positioning the Foot Sensor in the Shoe

5. Clamp the Foot Sensor transmitter on to the inner rim of the shoe. Face the starburst logo on the transmitter away from the ankle. See Figure 8-14.
6. Cover the pressure sensor with the insole. Tuck any excess wire under the insole. See Figure 8-14.

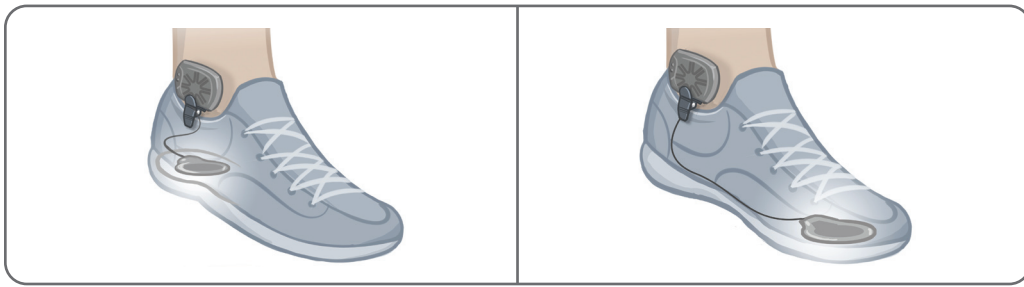


Figure 8-14: Final Position of the Foot Sensor Attached to the Shoe

Doffing the Lower Leg Cuff

To doff the Lower Leg Cuff:

1. Press the Power button on the EPG to turn off the system.
2. With a marker, mark the location of the Lower Leg Cuff locator on the leg for reference.
3. Unhook the cuff strap handle from the EPG Cradle, and slowly lift the Lower Leg Cuff away from the skin.

Note: For patients using the hydrogel electrodes with the Lower Leg Cuff, gently peel the electrodes from the skin, and reapply the electrode covers to the electrodes.

4. With a marker, make small, evenly spaced marks around the electrode bases on the liner of the Lower Leg Cuff (or on the personal panel) for reference.
5. If appropriate, cover the electrode base wires and snaps with the wire concealers. Make sure the wires are tucked under the wire concealers.

Note: Make sure to instruct patients who will be using the L300 Go System at home to ventilate the skin by removing the Lower Leg Cuff for at least 15 minutes every three to four hours..

Fitting the Thigh Cloth Electrodes

The Thigh Cloth Electrodes attach to the snaps on the Thigh Cuff panels. The larger Thigh Cloth Electrode attaches to the proximal panel on the Thigh Cuff. The smaller Thigh Cloth Electrode attaches to the distal panel on the Thigh Cuff. See Figure 8-15.

⚠ Caution: The Thigh Cloth Electrodes are to be used by no more than one individual patient. The Thigh Cloth Electrodes are for single patient use only to prevent cross contamination.

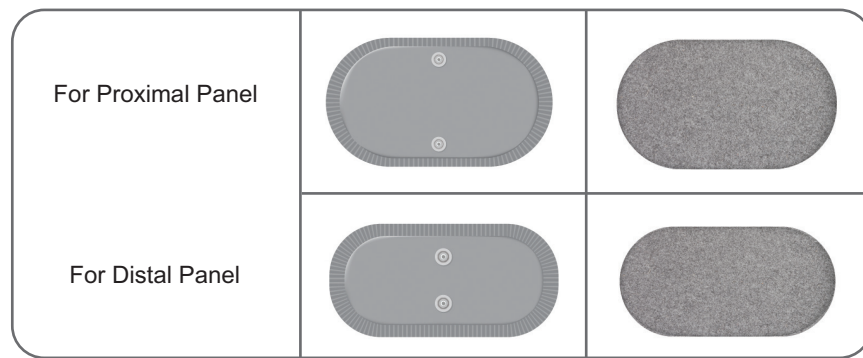


Figure 8-15: Thigh Cloth Electrodes

To fit the Thigh Cloth Electrodes: (See Figure 8-16)

1. Make sure the thigh EPG is turned off.
2. Wet the Thigh Cloth Electrodes with water. Gently squeeze the Thigh Cloth Electrodes together.
3. Remove excess water from the snap side of the Thigh Cloth Electrodes with a cloth.
4. Align the snaps on the Thigh Cloth Electrodes to the plug holes on the Thigh Cuff.
5. Press firmly to snap Thigh Cloth Electrodes to the proximal and distal panels on the Thigh Cuff.

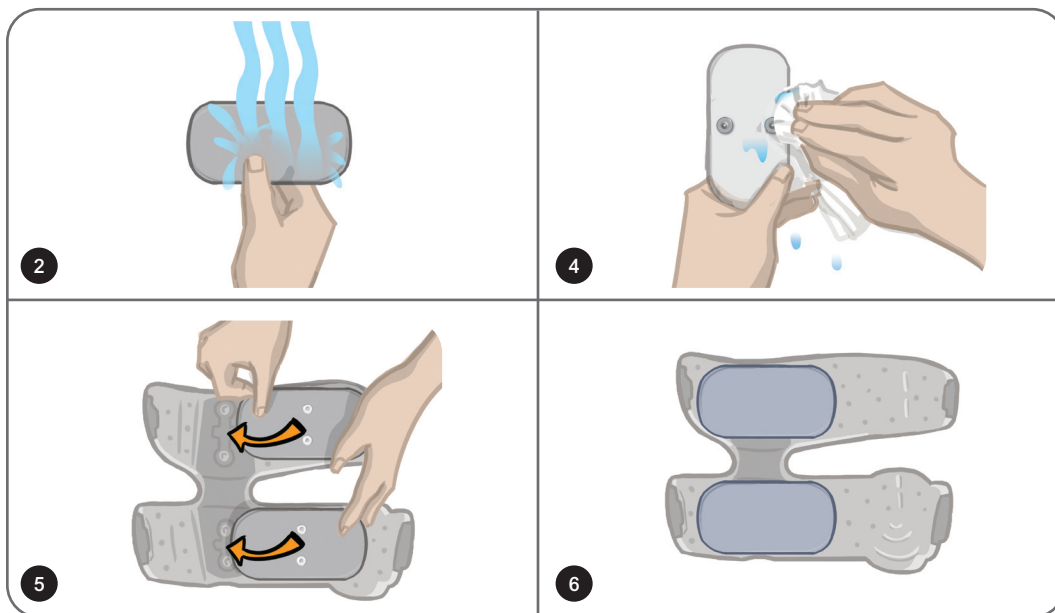


Figure 8-16: Fitting the Thigh Cloth Electrodes

Donning the Thigh Cuff

To don the Thigh Cuff:

1. Have the patient sit in a stable position on the edge of a chair.
2. Make sure the Thigh Cloth Electrodes are securely attached to the Thigh Cuff panels.
3. For in-patient use, attach an cuff strap cover to the Thigh Cuff.

4. Place the Thigh Cuff locator (a tactile finger mark) on the midline of the thigh, approximately three finger widths proximal from the patella if stimulating the quadriceps or from the popliteal fossa if stimulating the hamstrings. See Figure 8-17.

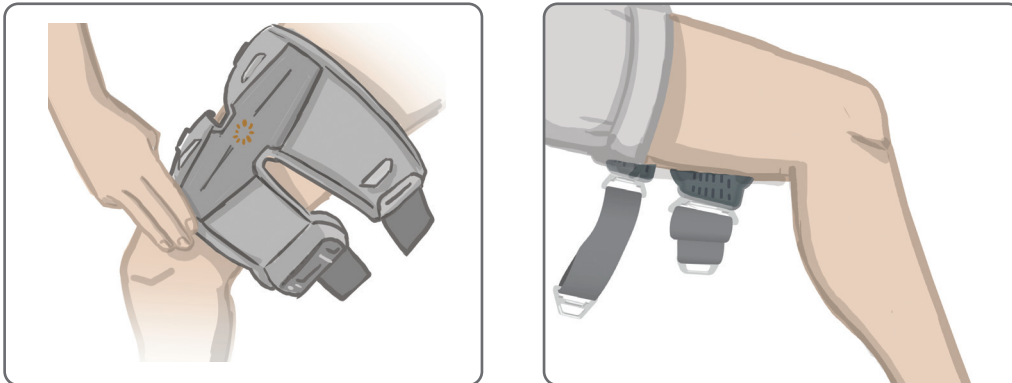


Figure 8-17: Correct Position of the Thigh Cuff Locator
(Left) Quadriceps Position Shown, (Right) Hamstrings Position Shown

5. Center the bridge on the midline of the thigh. See Figure 8-18.
6. Fasten the straps by inserting the strap buckle into the hook attached to the Thigh Cuff panels. See Figure 8-18. If needed, tighten the strap tension by adjusting the strap fasteners.

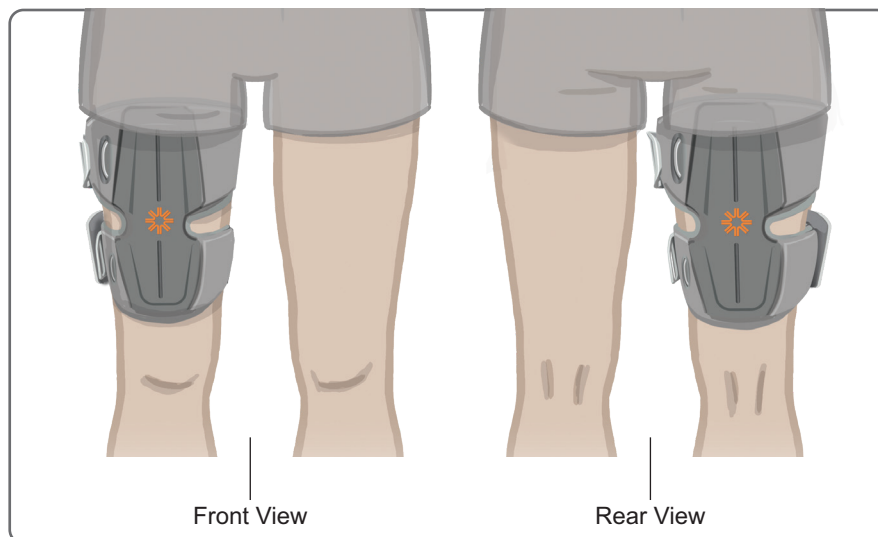


Figure 8-18: Correct Position of the Thigh Cuff
(Left) Quadriceps Fitting Position on Right Leg, (Right) Hamstring Fitting Position on Right Leg

Testing the Position of the Thigh Cuff: Patient Sitting and Standing

To check the position of the Thigh Cuff:

1. Have the patient sit with the Lower Leg dangling unobstructed. Make sure the EPG is turned on and paired to the Control Unit.
2. For new patients, press and hold the Stim and Mode buttons on the Control Unit for five seconds to enable the default parameter settings.

Note: If desired, these default parameter settings can be used as the patient's L300 Go System settings. If different parameter settings are desired, the clinician will need to access the Bioness Clinician Programmer Application software for programming.

3. The default stimulation intensity level is set to 0. Press the Stim button on the EPG to enable stimulation.
4. Press the Plus button on the EPG to gradually increase stimulation intensity to achieve the desired extension or flexion at the knee.
5. After proper extension or flexion is achieved with the patient seated, retest with the patient standing with the knee at an adjustable angle and the foot in the air.
6. If necessary, adjust the stimulation intensity to achieve knee extension or flexion in this position.

Pairing the Thigh EPG

For patients using both the Lower Leg Cuff and Thigh Cuff, the thigh EPG will need to be paired to the Lower Leg EPG. For pairing instructions, refer to the "Pairing a Lower Leg EPG to a thigh EPG" section in this guide.

For patients who require the use of the optional Foot Sensor when using the Thigh Stand-Alone System, the thigh EPG will need to be paired to the Foot Sensor. For pairing instructions, refer to the "Pairing a New Foot Sensor to the EPG" section of this guide. For Foot Sensor fitting instructions refer to the "Fitting the Foot Sensor" section in this chapter.

Doffing the Thigh Cuff

1. Press the Power button on the EPG to turn off the system.
2. Unhook both sets of straps.
3. Slowly lift the Thigh Cuff away from the patient's skin.
4. Remove the Thigh Cloth Electrodes from the Thigh Cuff and store them where they can air dry, to prevent mold.

Note: Make sure to instruct patients who will be using the L300 Go System at home to ventilate the skin by removing the Thigh Cuff for at least 15 minutes every three to four hours.

Patient Programming

Before programming the L300 Go System make sure the electrodes and cuff have been properly fitted on the patient, and the patient is in a seated position. Refer to the "Patient Fitting" chapter in this guide for fitting instructions.

Pairing the Bioness Clinician Programmer Application to the L300 Go System

Before pairing the Bioness Clinician Programmer Application to the L300 Go System, make sure the patient's components (EPG(s), Foot Sensor, and/or Control Unit) have already been paired together. Refer to the "Pairing Replacement Part Components" chapter in this guide for pairing instructions.

When a Lower Leg EPG or Thigh Stand-Alone EPG is paired to the Bioness Clinician Programmer Application, the Bioness Clinician Programmer Application will automatically recognize the other components that are paired to that EPG. For example, a Foot Sensor or thigh EPG (for patients using the Thigh Cuff with the Lower Leg Cuff).

To pair the Bioness Clinician Programmer Application to the L300 Go System:

1. Turn on the Bioness Clinician Programmer tablet, and launch the Bioness Clinician Programmer Application by pressing the Bioness Clinician Programmer Application (CAPP) icon.
2. The Login Screen will appear. Enter a username and password and then press the Login button.
3. The Patient Database Screen will appear. In the navigation, press the Bluetooth® icon. See Figure 9-0.

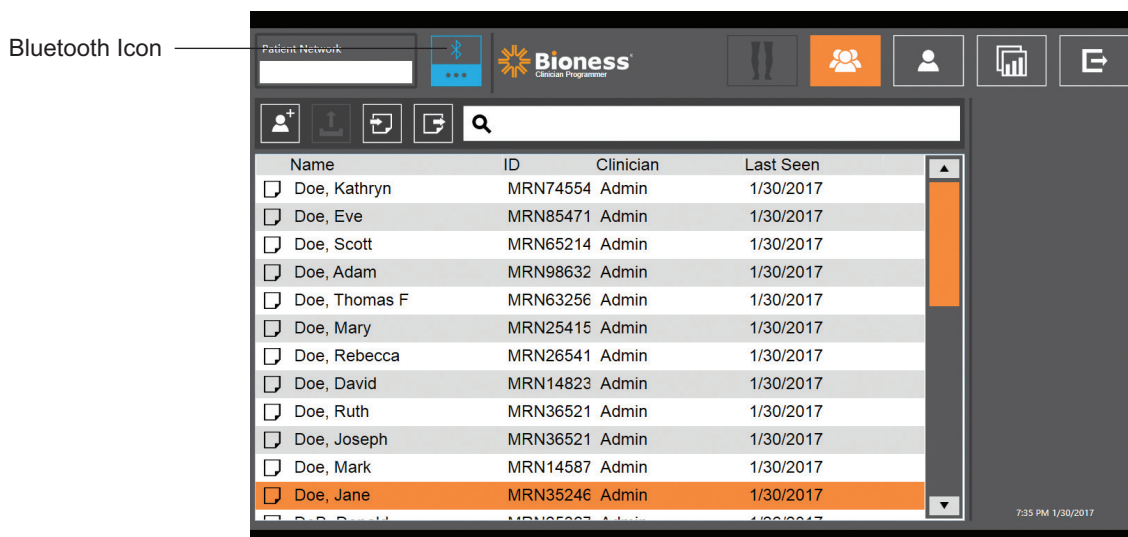


Figure 9-0: Bluetooth® Icon

4. Click on the Linking icon located above the desired leg. See Figure 9-1.
5. Place the desired EPG into Pairing mode by simultaneously pressing the plus (+) and minus (-) buttons on the EPG.

- When paired, the Linking icon will change to an orange Unlinked icon  .



Figure 9-1: Linking Screen

- Exit the linking screen by clicking on the Bluetooth Exit Icon.
- Once pairing has been completed, a window will be displayed prompting the user to create a new patient profile, select and upload an existing patient profile from the Patient List, or work with a patient profile already loaded onto the EPG.

Creating a New Patient Profile

To create a new patient profile:

- Make sure a L300 Go System is paired with the Bioness Clinician Programmer Application.
- From the Patient Database Screen, press the Add New Patient icon. See Figure 9-2.

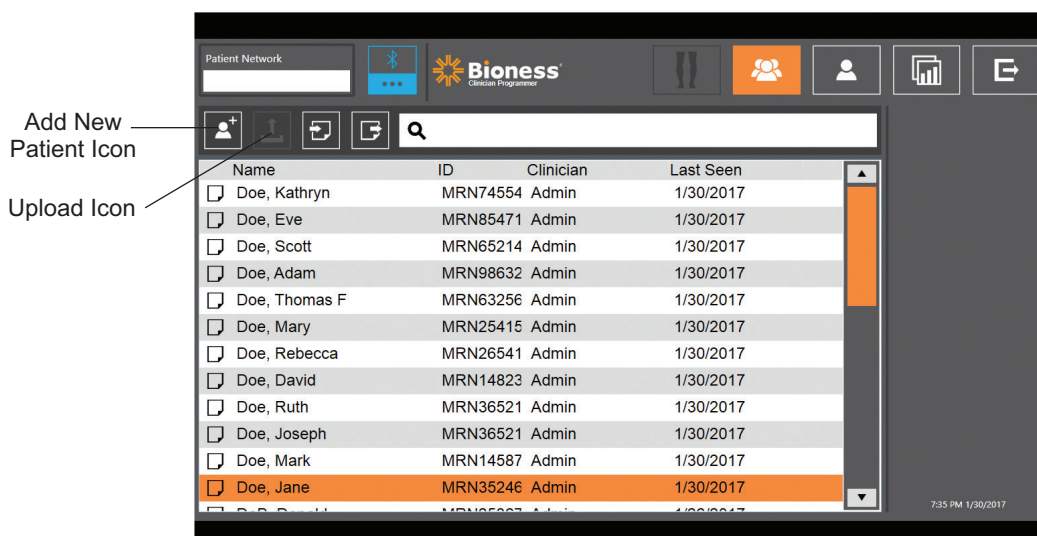


Figure 9-2: Add New Patient Icon

- Enter in the patient demographic information (Patient ID, Legal Name, Date of Birth [MM/DD/YYYY], and Gender.
- Press the Save button to save the new patient profile.

Uploading a Patient Profile to the L300 Go System

An existing patient profile can be uploaded to the patient network and onto the paired EPG.


To upload an existing patient profile:

1. Make sure a L300 Go System is paired with the Bioness Clinician Programmer Application.
2. Open the Patient Database Screen and highlight the patient from the Patient List. See Figure 9-2.
3. Press the Upload icon. See Figure 9-2. A window will appear stating "Program all stimulators with patient: X,X". Press the Continue button.
4. The Bioness Clinician Programmer Application will upload patient demographics to the patient network and paired EPG.
5. A window will appear stating: "X,X has been loaded onto the Programmer". Press the OK button.

Programming Stimulation Settings

Once the Bioness Clinician Programmer Application has been paired to a L300 Go System and a patient has been uploaded to the patient network the clinician then can program the stimulation settings.

To program stimulation settings:

1. Make sure the patient is in seated position.
2. Press the Program Settings icon  in the navigation bar to open the Parameter Screen.
3. The screen will show the linked EPG(s) as a green icon on the diagram located on the left side of the Parameter Screen. See Figure 9-3.
4. The selected EPG will have an orange box outline around it.
5. Use the drop down lists to adjust the Waveform, Phase Duration, Pulse Rate, and Electrode parameter settings. Refer to Table 9-1 for parameter setting definitions.
6. For new patients, make sure the Stimulation Intensity Bar is set to 0. See Figure 9-3.

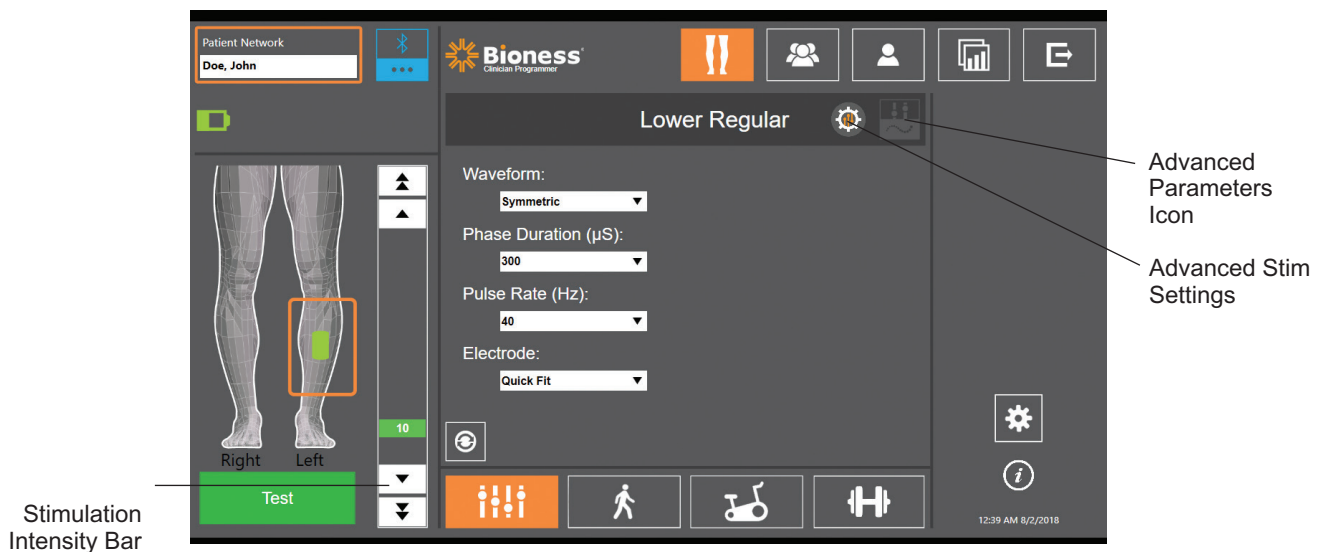


Figure 9-3: Programming Stimulation, Parameter Screen

- Press the Test button to turn on stimulation. Gradually increase the stimulation intensity to the desired level using the arrows on the Stimulation Intensity Bar. Stimulation will start with a ramp up time (time it takes for the stimulation to increase from zero to the maximum level set) equal to the ramp up time set on the Gait Screen. Do not leave stimulation on for long. Fatigue may result.

Note: When stimulation is being delivered, the Test button will appear red and the EPG icon will turn yellow with a stimulation wave.

- If the patient is using more than one EPG, the settings will also have to be programmed to the additional EPG. Select the desired EPG icon from the Parameter Screen and repeat steps 5-7.

Any changes made to the Bioness Clinician Programmer Application settings will not be implemented and saved until the Test button has been pressed. This activates the settings and saves the information to the paired EPG.

| Stim Parameter | Definition |
|----------------|---|
| Intensity | Strength of Stimulation: 0 mA to 100 mA, in 1mA Steps |
| Waveform | Type of Stimulation: Symmetric or Asymmetric |
| Phase Duration | Length of Time of the Pulse: 100 μ sec to 300 μ sec, in 50 μ sec Steps. |
| Pulse Rate | Frequency of Stimulation: 10 Hz to 45 Hz, in 5Hz Steps |
| Electrode | Type of Electrode: Quickfit (default), Round Cloth, Hydrogel, Steering |

Table 9-1: Stim Parameter Setting Definitions

Programming Advanced Stimulation Settings

- From the Parameter Screen, press the Advanced Stim Setting icon to open the Advanced Stim Settings Window. See Figure 9-3 and Figure 9-4.
- Adjust the Interphase Period, Max Stim Time, and Foot Sensor advanced settings.

| Advanced Stim Parameter | Definition |
|-------------------------|--|
| Interphase Period | This setting defaults to 50 to increase force production, providing the strongest contraction with minimal discomfort. Ranges vary from 20, 50, 100 and 200. Symmetric waveform default is 50, Asymmetric waveform default is 20. |
| Max Stim Time | To avoid excessive fatigue of the muscles that activate dorsiflexion, the L300 Go System is designed to automatically stop stimulation after a set number of seconds (the maximum duration of stimulation). This safety feature is useful when a patient sits or lies down, and the leg wearing the L300 Go System is in the air and the system is in Gait mode. It limits the duration of stimulation. To adjust the maximum duration of stimulation, press the arrows to change the duration. For fast and stable users: This setting can be relatively low (default setting is 4 seconds). The lowest setting should be the maximum time it takes the patient to lift the leg to climb a stair or avoid an obstacle. For slow walkers or patients who are just beginning rehabilitation: This setting may need to be higher than 4 seconds for a patient that requires more time to advance their leg during the swing phase of gait. |

| Advanced Stim Parameter | Definition |
|-------------------------|---|
| Foot Sensor | When the Bioness Clinician Programmer Application is connected to a system that uses a Foot Sensor. The Foot Sensor setting will be enabled. Use the drop down list to select: Contrallateral vs. Same Side. Foot Sensor Required Box - when the box is unchecked this turns on the motion sensing backup feature. If the Foot Sensor is not communicating with the EPG, the EPG will use the integrated motion sensors for gait detection. |

Table 9-2: Advanced Stim Parameter Setting Definitions



Figure 9-4: Programming Stimulation, Parameter Screen with Advanced Settings Window

Programming Advanced Parameters Screen Settings

If the patient is using the Steering Electrode make sure the Electrode drop down menu is set to Steering Electrode, this will enable the Advanced Parameters icon. Press the Advanced Parameter icon to open the advanced parameter window. See Figure 9-3. The clinician can then adjust the medial and lateral stimulation intensity for the Lower Leg EPG. See Figure 9-5.

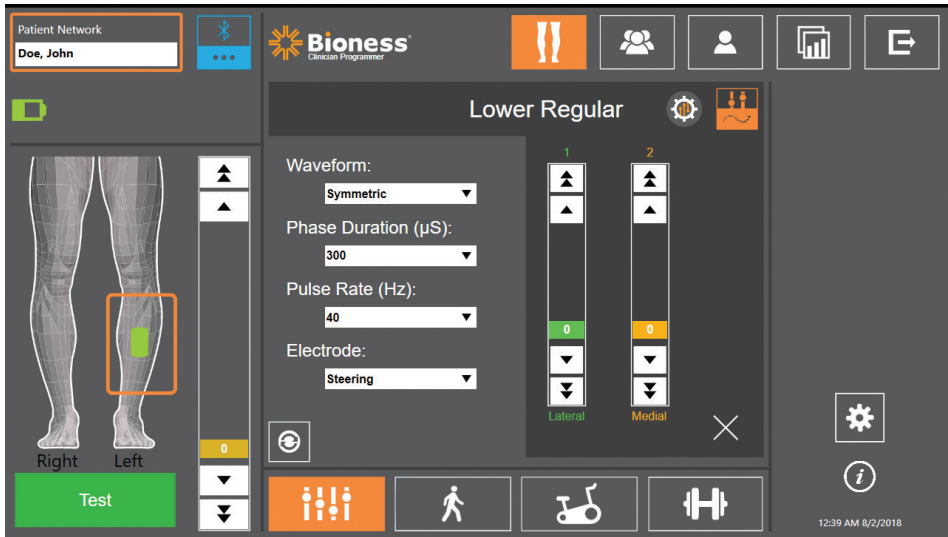


Figure 9-5: Programming Stimulation, Parameter Screen with Advanced Parameter Window

Programming Gait Settings

To program gait settings:






1. Make sure the patient is in a standing position.
2. From the Parameter Screen, press the Gait Screen icon .
3. The Gait Settings Screen will open. See Figure 9-6.



Figure 9-6: Programming Stimulation, Gait Settings Screen

4. Adjust the Ramp Up, Ramp Down, Extended, Delayed, and Intensity Settings. See Table 9.3.

| Gait Parameter | Definition |
|---|--|
|  Ramp Up | The time, in seconds, that it takes for the stimulation to increase from zero to the maximum level set. A gradual buildup of the current makes the stimulation more comfortable, helps avoid stretch reflexes, and delays the start of muscle contraction. Values are from 0 to 0.5 seconds in 0.1-second increments. |
|  Ramp Down | The time, in seconds, that it takes for the stimulation to decrease from the maximum level set to zero. The current is reduced slowly to gradually reduce the muscle contraction. Increase this setting to prevent foot slap. Values are from 0 to 0.5 seconds in 0.1-second increments. |
|  Extended | The percentage of total time from heel on to heel off that the stimulation continues after heel contact with the ground. This parameter determines the length of time before the stimulation starts to ramp down. Increase this setting to prevent foot slap and genu recurvatum (knee hyperextension/knee snapping) or to increase ankle stability during stance. |
|  Delayed | The percent of total time that the stimulation is delayed after a gait event is detected. Used to prevent premature lifting of the foot. This parameter determines the length of time before the stimulation starts to ramp up. (The delay % is calculated from total time of "heel off" to "heel on".) |

| Gait Parameter | Definition |
|----------------|--|
| Intensity | The strength of the electrical stimulation. Values are from 0 to 100 mA. The initial value appearing on the intensity bar will be the level established when configuring the stimulation settings. Changes can be made to the intensity level while in Gait mode and will be maintained in Training mode unless you have activated the “Enable specific intensity level” for Training mode on the Training Screen. |

Table 9-3: Gait Parameter Definitions

Note: To minimize genu recurvatum (knee hyperextension/knee snapping) and foot slap, use the Extended option to create an eccentric contraction of the dorsiflexors after heel contact.

5. Press the Stimulation button to test and save the settings. Stimulation will respond to gait activity input from either the Foot Sensor (if applicable), or from the EPG integrated motion sensor.
6. Fine-tune settings while the patient is walking.
7. Press the Stimulation button again to stop stimulation.

Programming Cycle Training Settings

To program cycle training settings:


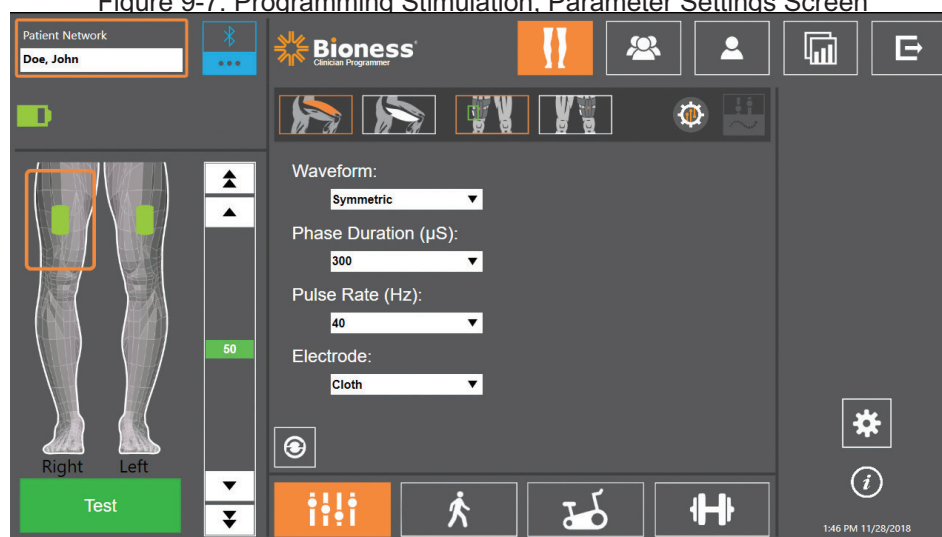



1. Seat the patient in a chair or on a therapy mat.
2. Press the Program Settings icon  in the navigation bar to open the Parameter Screen. See Figure 9-7.

Figure 9-7: Programming Stimulation, Parameter Settings Screen



3. The screen will show the linked EPG(s) as a green icon on the leg diagram located on the left side of the Parameter Screen. See Figure 9-7. The selected EPG will have an orange box outline around it.

Note: For the Thigh Stand-Alone Cuff, the location of the green EPG icon may or may not correspond to the physical location of the EPG on the patient. The green EPG icon is used to denote the use of a "left" or "right" cuff type. However, a "left" or "right" cuff type may be used on the either leg.

4. Use the drop down list to adjust the Electrode parameter settings on the Parameter Screen. Refer to Table 9-1 for parameter setting definitions.
5. Press the Cycle Training Screen icon . See Figure 9-8.
6. For the Thigh Stand-Alone Cuff, select the appropriate muscle group (quadricep or hamstring) by pressing the appropriate Muscle Selection button  . The selection will be highlighted in orange. See Figure 9-8.

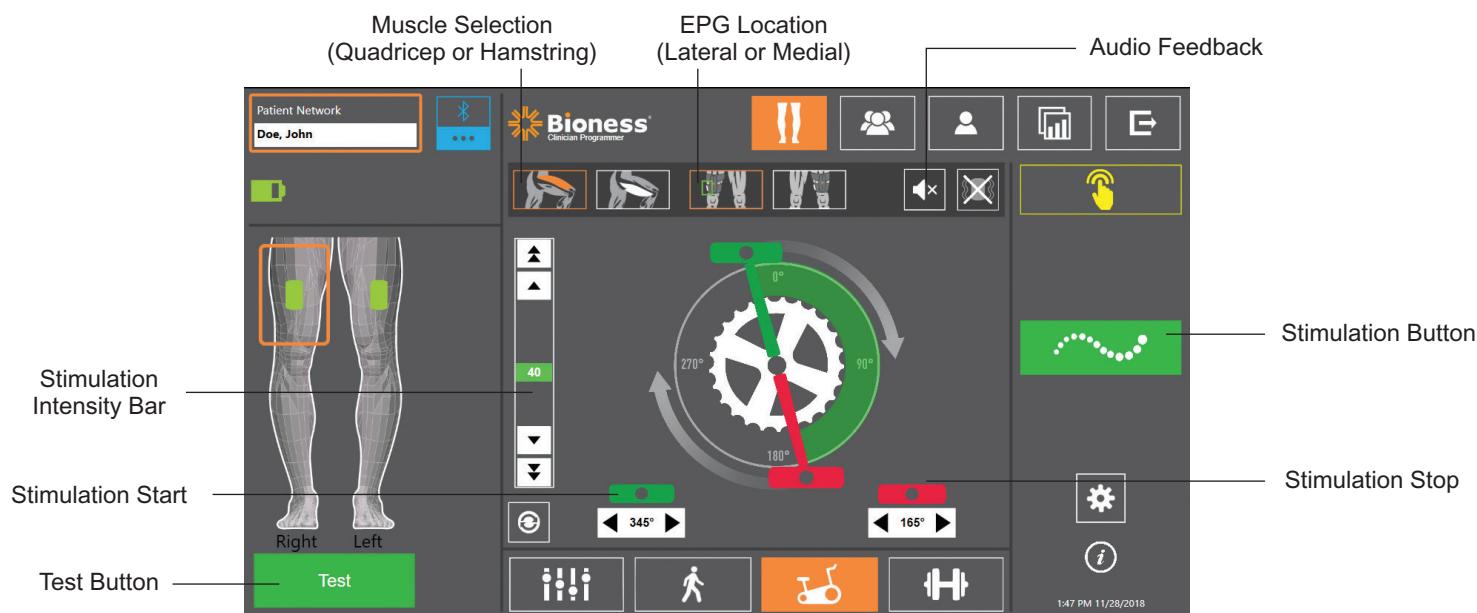




Figure 9-8: Programming Stimulation, Cycle Training Settings Screen

7. For the Thigh Stand-Alone Cuff, select the physical location (lateral or medial) of the EPG by pressing the EPG Location icon  . The selection will be boxed in green. See Figure 9-8.

Note: Muscle Selection and EPG Location options are only applicable to the Thigh Stand-Alone Cuff and do not appear for other cuffs.

8. For new patients, make sure the stimulation intensity is set to 0 using the arrows on the Stimulation Intensity Bar.. See Figure 9-8.
9. Press the Test button to save setting and turn on stimulation. Gradually increase the stimulation intensity to the desired level using the arrows on the Stimulation Intensity Bar. See Figure 9-8.

Note: Cycle Training mode stimulation intensity is independent of intensity settings on the Parameter, Gait, and Training Screens. When stimulation is being delivered, the Test button will appear red and the EPG icon will turn yellow with stimulation wave. Do not leave stimulation on for long because fatigue may result.

10. If the patient is using more than one EPG, program the settings for each additional EPG. Select the desired EPG icon from the Parameter Screen and repeat steps 4-9.
11. Seat the patient on a stationary bicycle.
12. Instruct the patient to begin with feet on the pedals with the foot of the affected side positioned at the top of the crank or in the 12 o'clock position.
13. If the patient is using the L300 Go system bilaterally, position the pedals at the top and bottom of the crank.

Note: Depending on the starting position of the patient's foot while using Cycle Training mode, the L300 Go motion detection algorithm may delay stimulation for up to 3 rotations of the crank before initiating stimulation.

- Press the Stimulation button to save settings and turn on stimulation. Stimulation will respond to cycling activity input from the EPG integrated motion sensor.
- Fine-tune the Stimulation Intensity while the patient is cycling. See Figure 9-8.
- Fine-tune the Stimulation Start and Stop settings while the patient is cycling. See Table 9-4.

Note: Enabling the Audio Feedback indicator may assist in optimizing the Stimulation Start and Stop settings. See Figure 9-8. Palpating the muscle may assist in determining when muscle contraction occurs.

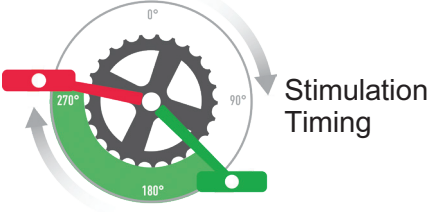
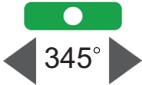


| Cycle Training Parameter | Definition |
|---|--|
|  | <p>Allows for adjustment of the stimulation timing while in Cycle Training mode. The green pedal indicates where stimulation starts in the cycle, and the red pedal indicates where stimulation stops.</p> <p>When stimulation is inactive, pressing and dragging the pedals allows gross control of stimulation start and stop timing. Gross control of stimulation start and stop timing is not available when stimulation is active to ensure patient safety. The clockwise rotation of the controls will always represent rotation toward the front of the stationary bicycle. Advancing the pedal clockwise will result in the stimulation event occurring later in the cycle, and moving the pedal counterclockwise will result in the event occurring sooner.</p> |
|  | <p>Stimulation Start</p> <p>Allows for fine control of stimulation start timing while Cycle Training mode stimulation is active. The arrows advance or delay the start of stimulation by 5 degrees.</p> |
|  | <p>Stimulation Stop</p> <p>Allows for fine control of stimulation stop timing while Cycle Training mode stimulation is active. The arrows advance or delay the stop of stimulation by 5 degrees.</p> |

Table 9-4: Cycle Training Mode Parameter Definitions

- If the patient is using more than one EPG, select each EPG and repeat steps 14-16 to fine-tune the settings.
- Press the Stimulation button again to stop stimulation.

Programming Training Settings

To program training settings:

- From the Parameter Screen, press the Training Screen icon .
- The Training Settings Screen will open. See Figure 9-9.

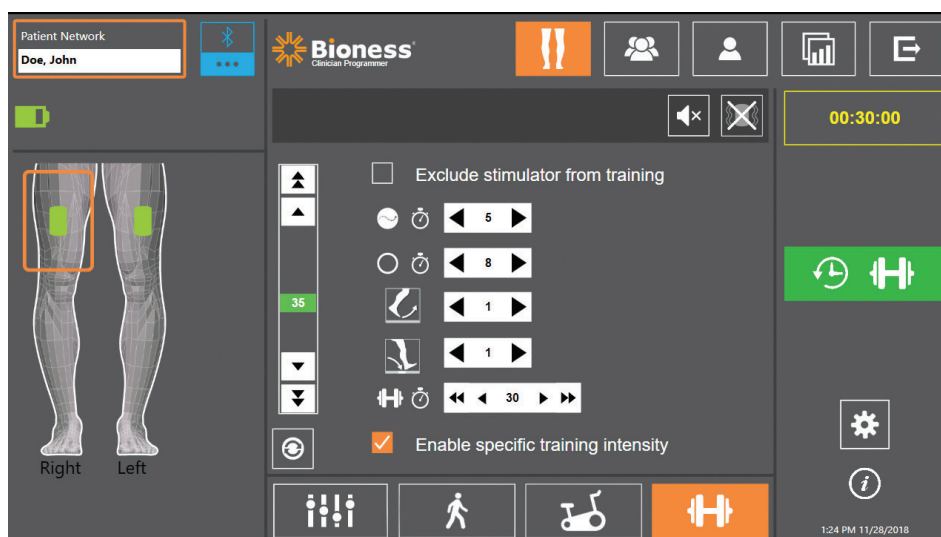


Figure 9-9: Programming Stimulation, Training Settings Screen

3. Adjust On Time, Off Time, Ramp Up, Ramp Down, and Total time settings. See Table 9-5.
4. If a stimulation intensity different than the one set for the gait intensity is desired, check the box next to "Enable Specific Training Intensity". Then adjust the stimulation intensity level.
5. Press the Training Stimulation button to start stimulation in Training mode.
6. Press the Training Stimulation button again to turn off stimulation or let the program run its allotted time.










| Training Parameter | Definition |
|--|---|
|  On Time | The amount of time that stimulation is applied. |
|  Off Time | The amount of rest time between stimulations |
|  Ramp Up | The time, in seconds, that it takes for the stimulation to increase from zero to the maximum level set. A gradual buildup of the current makes the stimulation more comfortable, helps avoid stretch reflexes, and delays the start of muscle contraction. Values are from 0 to 2 seconds in 0.5-second increments. |
|  Ramp Down | The time, in seconds, that it takes for the stimulation to decrease from the maximum level set to zero. The current is reduced slowly to gradually reduce the muscle contraction. Increase this setting to prevent foot slap. Values are from 0 to 2 seconds in 0.5-second increments. |
|  Total Time | The total amount of time for the training period. The training period consists of repeated cycles of the Ramp Up, On Time, Ramp Down, and Off Time parameters, until the total session time expires. |

Table 9-5: Training Parameter Definitions

Changing Audio and Vibration Feedback Settings Using the Bioness Clinician Programmer Application

The Programming Stimulation Gait Settings, Cycle Training Settings, and Training Settings Screens feature an Audio Feedback icon and a Vibration Feedback icon. These icons enable or disable audio and vibration feedback during stimulation. The icons on the Gait Settings Screen control audio and vibration feedback when the EPG is in Gait mode. The icons on the Cycle Training Settings Screen control audio and vibration feedback when the EPG is in Cycle Training mode. The icons on the Training Settings Screen control audio and vibration feedback when the EPG is in Training mode.

| Icon | Definition |
|---|--------------------------------|
|  | Audio Feedback is Enabled |
|  | Audio Feedback is Disabled |
|  | Vibration Feedback is Enabled |
|  | Vibration Feedback is Disabled |

Patient Training

Clinicians and patients should know the limitations, warnings, and precautions associated with the L300 Go System. Clinicians should review the safety information with patients, and train patients on system set-up, operation, and maintenance. Patients should understand the system displays and indicators, and the troubleshooting solutions. Clinicians and patients should know whom to contact for clinical and technical support.

A training program should cover the following topics, which are described in this guide and in the L300 Go User Guide:

- General safety information, including the Skin Care Guidelines
- An overview of the L300 Go System
- Donning and doffing the cuff
- Replacing the electrodes and electrode bases
- Placing the Foot Sensor in a shoe (for patients using this option)
- Operating the Control Unit or myBioness™ app
- The system component buttons, displays, and audio alerts: their definitions and functions
- Using Gait, Cycle Training, and Training modes
- Maintenance and cleaning instructions
- Review of basic troubleshooting
- How to contact Technical Support

Maintenance and Cleaning

Charging

Charge the Bioness Clinician Programmer tablet daily. The Lower Leg EPG and thigh EPG batteries should also be charged daily. EPG charging instructions can be found in the "Charging the L300 Go System" section of this guide.

Replacing the Foot Sensor Battery

The battery in the Foot Sensor is not rechargeable and should be replaced approximately every six months. The Foot Sensor is powered by a single button cell lithium battery (CR2032 battery).

The red indicator light on the Foot Sensor will flash for five seconds when a low battery is detected. The Foot Sensor Indicator icon on the Control Unit will also be flashing.

⚠ Warning: For battery replacement only use a lithium coin battery, CR2032. Use of an incorrect battery may result in damage to the L300 Go System.

To replace the Foot Sensor battery:

1. Use the recess area on the back of the Foot Sensor to pop out the battery lid cover. See Figure 11-1.

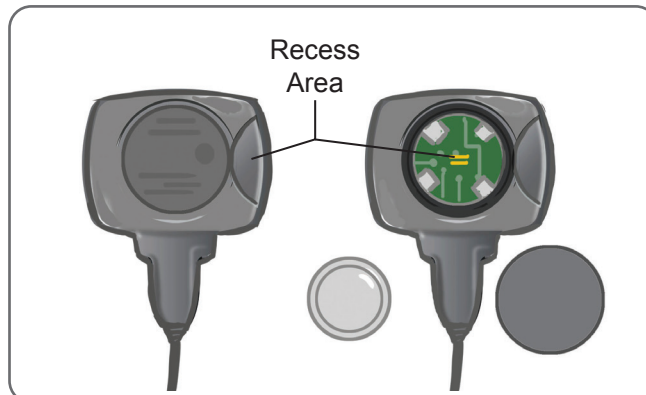


Figure 11-1: Replacing the Foot Sensor Battery

2. Note the "+" orientation of the old battery.
3. Remove the old battery.
4. Wait for at least 120 seconds (2 minutes) and then insert the new battery. The "+" should face up.
5. Reattach the battery lid cover to the back of the Foot Sensor by pressing firmly to snap the cover back on.
6. Press the Foot Sensor pressure sensor to activate the sensor.
7. If this does not power on the foot sensor, short the battery connector by placing a coin or the battery itself between the positive and the negative terminal of the foot sensor. Repeat steps 5-6.



Remove the old battery and properly dispose of it according to your local environmental regulations.

EPG Battery Maintenance

The Lower Leg EPG and thigh EPG have a rechargeable battery that is not removable. Do not attempt to replace the EPG battery. Maintain a routine of daily charging if using the system regularly, and at minimum, once monthly if your system is in storage. Avoid leaving your EPG uncharged indefinitely to minimize the risk of decreased battery longevity. Refer to the technical specifications section in this manual for appropriate operating and storage conditions. An EPG battery can be expected to last several years when maintained accordingly. For support with your device, contact the Bioness Client Support Department, at 800-211-9136, Option 3 (USA & Canada) or your local distributor.

Replacing the Control Unit Battery

The battery in the Control Unit is not rechargeable and depending on use will need to be replaced approximately every six months. The Control Unit is powered by a single button cell lithium battery (CR2032 battery).

The Battery Indicator icon on the Control Unit will flash for five seconds at startup when the Control Unit battery is low.

⚠ Warning: For battery replacement only use a lithium coin battery, CR2032. Use of an incorrect battery may result in damage to the L300 Go System.

To replace the Control Unit battery:

1. Use the recess area on the back of the Control Unit to pop out the battery lid cover. If you find it difficult to remove the cover a coin (quarter) may be used to open the cover. See Figure 11-2.

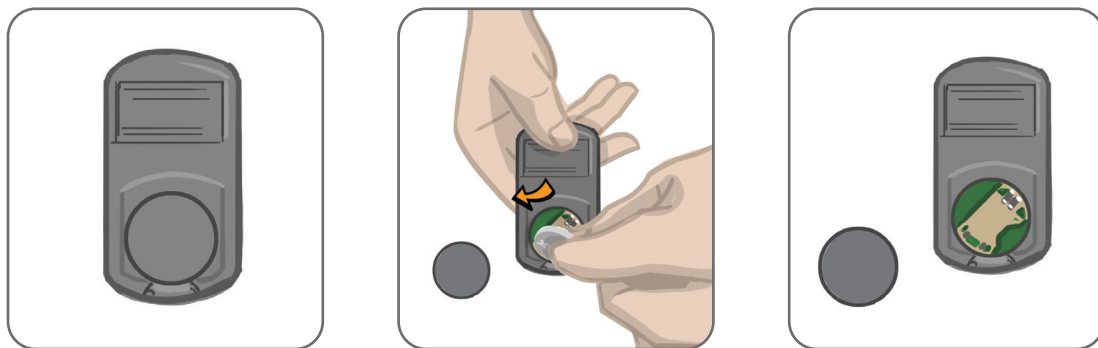


Figure 11-2: Replacing the Control Unit Battery

2. Note the “+” orientation of the old battery.
3. Remove the old battery.
4. Insert the new battery by inserting the battery toward the back first and then carefully pressing down on the battery. The “+” should face up.
5. Reattach the battery lid cover to the back of the Control Unit by pressing firmly to snap the cover back on.



Remove the old battery and properly dispose of it according to your local environmental regulations.

Replacing the Quick Fit Electrodes

The Quick Fit Electrodes will need to be replaced at least every two weeks or sooner if they become worn.

⚠ Caution: Use only the electrodes supplied by Bioness.

⚠ Caution: Do not use the L300 Go System without electrodes.

⚠ Caution: Do not fold or twist the Quick Fit Electrode.

To replace the Quick Fit Electrodes: (See Figure 11-3)

1. Make sure the Lower Leg EPG is turned off.
2. Gently remove the used Quick Fit Electrode from the Lower Leg Cuff.
3. Wet the Quick Fit Electrodes with water until they are saturated.
4. With a cloth, gently wipe or blot excess water off the electrode.
5. Align the orange and blue snaps on the Quick Fit Electrode with the orange and blue plug holes on the Lower Leg Cuff.
6. Press firmly to snap the Quick Fit Electrode into the Lower Leg Cuff.



Figure 11-3: Replacing the Quick Fit Electrode

Instruct the patient to remove and re-wet the entire Quick Fit Electrode every time they remove the Lower Leg Cuff from their leg for more than one hour, and after every three to four hours of use. When wetting the Quick Fit Electrode, always remove it from the Lower Leg Cuff.

If the Quick Fit Electrode dries out, the response to the stimulation may change. If the patient needs to adjust stimulation intensity more often than usual, try re-wetting or replacing the electrode.

Note: Store the Quick Fit Electrode where it can air dry, when not in use.

Replacing the Steering Electrodes

The Steering Electrodes will need to be replaced at least every two weeks or sooner if they become worn.

⚠ **Caution:** Use only the electrodes supplied by Bioness.

⚠ **Caution:** Do not use the L300 Go System without electrodes.

⚠ **Caution:** Do not fold or twist the Steering Electrode.

To replace the Steering Electrodes: (See Figure 11-4)

1. Make sure the Lower Leg EPG is turned off.
2. Gently remove the used Steering Electrode from the Lower Leg Cuff.
3. Wet the electrode with water until they are saturated.
4. With a cloth, gently wipe or blot excess water off the electrode.
5. Align the four snaps on the Steering Electrode with the four plug holes on the Lower Leg Cuff.
6. Press firmly to snap the Steering Electrode into the Lower Leg Cuff.

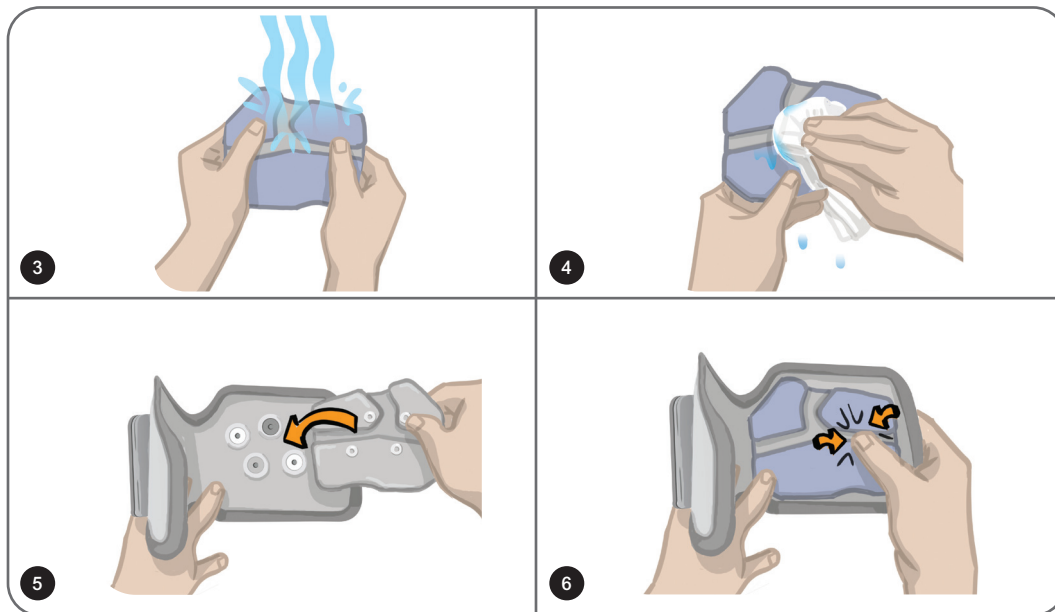


Figure 11-4: Replacing the Steering Electrode

Instruct the patient to remove and re-wet the entire Steering Electrode every time they remove the Lower Leg Cuff from their leg for more than one hour, and after every three to four hours of use. When wetting the Steering Electrode, always remove it from the Lower Leg Cuff.


If the Steering Electrode dries out, response to the stimulation may change. If the patient needs to adjust stimulation intensity more often than usual, try re-wetting or replacing the electrode.

Note: Store the Steering Electrode where it can air dry, when not in use.

Replacing the Round Cloth Electrodes

The Cloth Electrodes will need to be replaced at least every two weeks or sooner if they become worn.

 **Caution:** Use only cloth electrodes supplied by Bioness.

 **Caution:** Do not use your L300 Go System without electrodes.

To replace the Round Cloth Electrodes:

1. Make sure the Lower Leg EPG is turned off.
2. Gently pull the used Round Cloth Electrodes from the cloth electrode bases. Be careful not to detach the electrode bases from the Lower Leg Cuff.
3. If necessary, clean the electrode bases with a damp cloth. The electrode bases may be cleaned and low-level disinfected using 70% isopropyl alcohol (IPA).
4. Wet the Round Cloth Electrodes with water until they are saturated. See Figure 11-5.
5. With a cloth, gently wipe or blot excess water off the back (side with the snap) of the electrodes. See Figure 11-5.

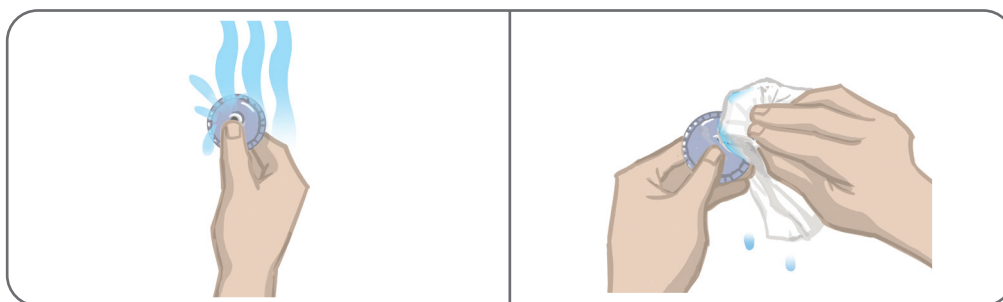


Figure 11-5: Wetting and Removing Excess Water

6. Attach the Round Cloth Electrodes to the electrode bases. See Figure 11-6.

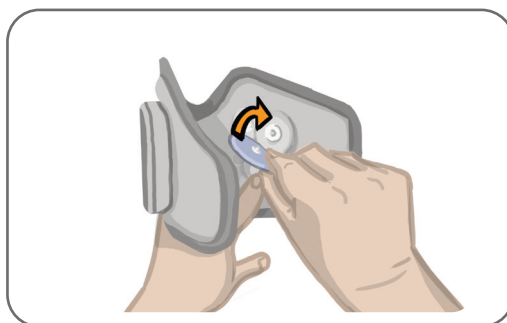


Figure 11-6: Attaching the Round Cloth Electrodes

Instruct the patient to remove and re-wet the Round Cloth Electrodes every time they remove the Lower Leg Cuff from their leg for more than one hour, and after every three to four hours of use. When wetting the electrodes, always remove them from the Lower Leg Cuff.

If the Round Cloth Electrodes dry out, response to the stimulation may change. If the patient needs to adjust stimulation intensity more often than usual, try re-wetting or replacing the electrode. When not in use, store the Cloth Electrodes where they can air dry.

Replacing the Hydrogel Electrodes

The hydrogel electrodes will need to be replaced at least every two weeks.

⚠ Caution: Use only Hydrogel Electrodes supplied by Bioness.

⚠ Caution: Do not use your L300 Go System without electrodes.

To replace the L300 Hydrogel Electrodes: (See Figure 11-7)

1. Make sure the Lower Leg EPG is turned off.
2. Gently pull the used Hydrogel Electrodes from the electrode bases. Be careful not to detach the electrode bases from the Lower Leg Cuff.
3. If necessary, clean the electrode bases with a damp cloth. The electrode bases may be cleaned and low-level disinfected using 70% isopropyl alcohol (IPA).
4. Separate the two new electrodes along the perforation.
5. Split the two-piece covers on each new electrode and discard them.
6. Attach the grid side of the electrodes to the electrode bases, and then press firmly.
7. Remove the covers from the electrodes.

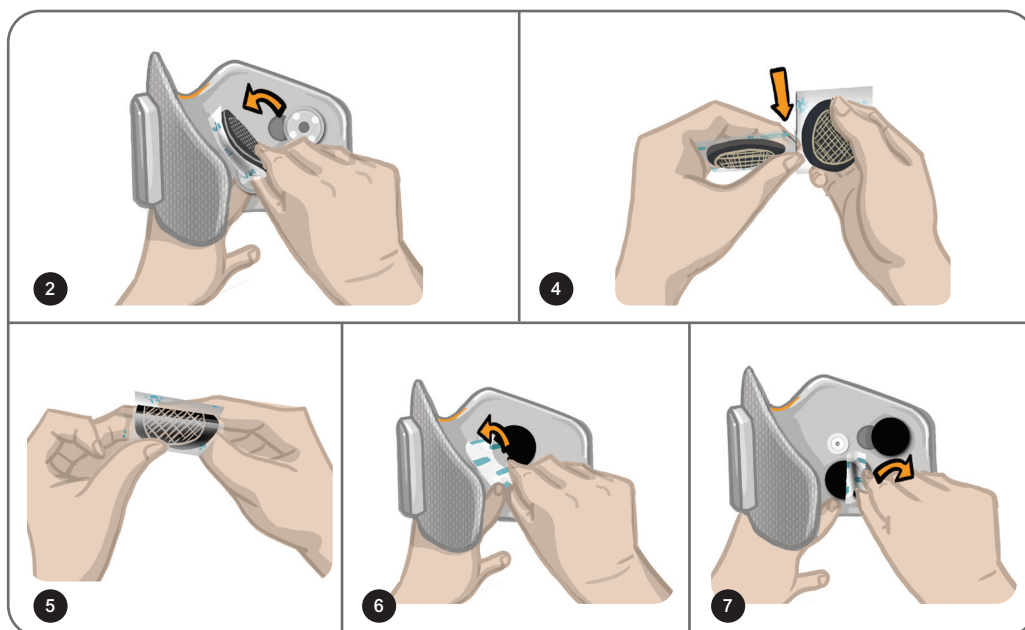


Figure 11-7: Replacing the Hydrogel Electrodes

Save the covers to protect the electrodes between uses. When reapplying the covers, make sure the logo faces up. If the electrode gel becomes dry, replace with a new electrode set.

Replacing the Electrode Bases

Depending on use it may be necessary to need to replace the electrode bases after one year of use.

To replace the electrode bases:

1. Remove the wire concealers and mark the position of the used electrode bases on the cuff liner with a permanent marker. See Figure 11-8.
2. Disconnect the electrode base snaps from the plug holes. See Figure 11-8.

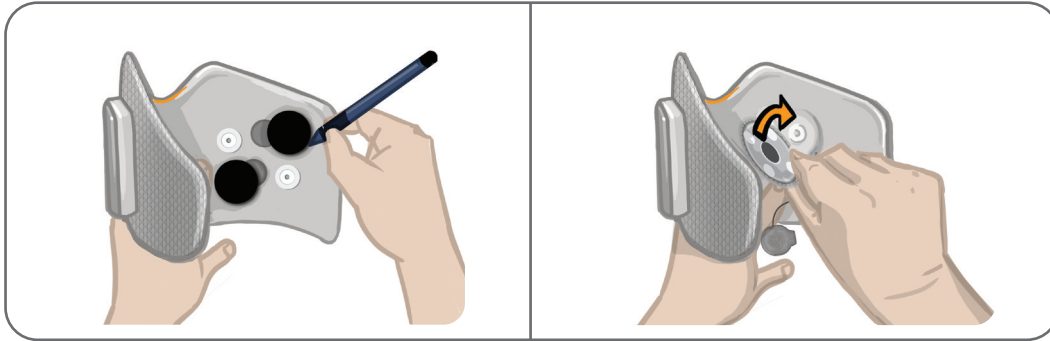


Figure 11-8: Mark Position of Electrode Base (Left)
Disconnect Electrode Base Snaps (Right)

3. Remove the used electrode bases from the cuff. See Figure 11-9.
4. Attach the new electrode bases where the previous bases were attached. See Figure 11-10.
5. Connect the electrode base snaps to the plug holes. See Figure 11-10.
6. Recover the wires and snaps with the wire concealers, if desired.

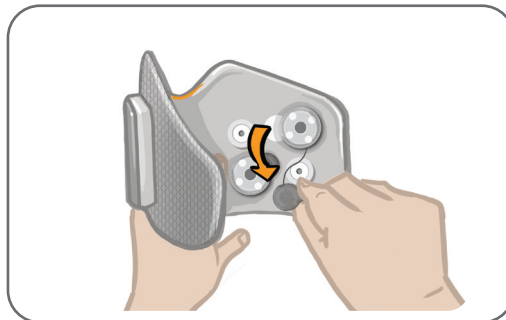


Figure 11-9: Removing the Used Electrode Bases

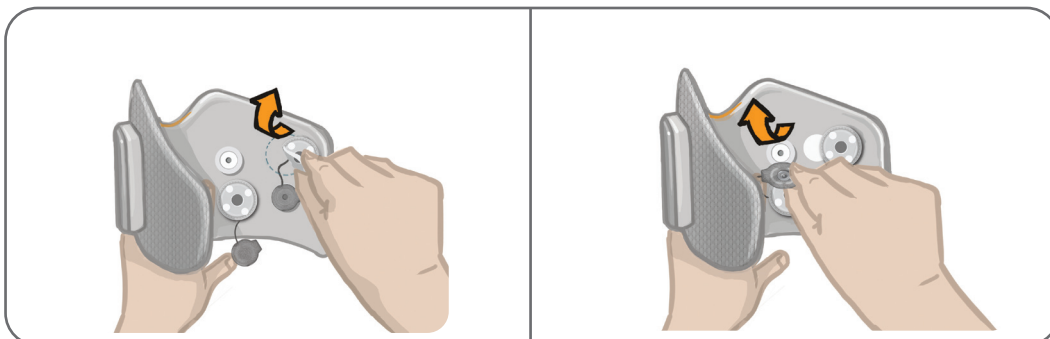


Figure 11-10: Attaching New Electrode Bases (Left)
Connecting Electrode Base Snaps (Right)

Replacing the Thigh Cloth Electrodes

The Thigh Cloth Electrodes will need to be replaced at least every two weeks or sooner if they become damaged.

⚠ Caution: Use only the electrodes supplied by Bioness.

⚠ Caution: Do not use your L300 Go System without the electrodes attached.

To replace the Thigh Cloth Electrodes: (See Figure 11-11)

1. Make sure the thigh EPG is turned off.
2. Gently remove the Thigh Cloth Electrodes from the Thigh Cuff.
3. Wet the Thigh Cloth Electrodes with water. Gently squeeze the Thigh Cloth Electrodes together.
4. Remove excess water from the snap side of the Thigh Cloth Electrodes with a cloth.
5. Align the snaps on the Thigh Cloth Electrodes to the plug holes on the Thigh Cuff.
6. Press firmly to snap the small Thigh Cloth Electrode to the Thigh Cuff bottom panel. Press firmly to snap the large Thigh Cloth Electrode to the Thigh Cuff top panel.

Advise patients to remove and re-wet the Thigh Cloth Electrodes every time they remove the Thigh Cuff from their leg for more than one hour, and after every three to four hours of use. When wetting the Thigh Cloth Electrodes, always remove them from the Thigh Cuff.

If the Thigh Cloth Electrodes dry out, response to the stimulation may change. If the patient needs to adjust stimulation intensity more often than usual, try re-wetting or replacing the electrode. Store the Thigh Cloth Electrodes where they can air dry, when not in use.

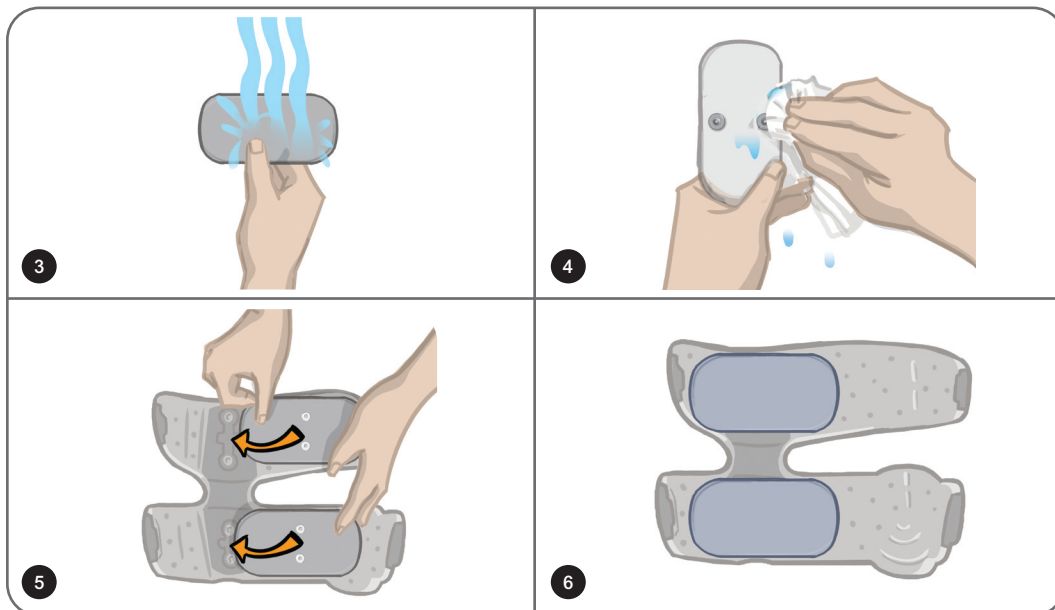


Figure 11-11: Replacing the Thigh Cloth Electrodes

Removing the EPG

The Lower Leg EPG and the thigh EPG should only be removed for maintenance and to clean the Lower Leg Cuff and/or Thigh Cuff.

To remove the EPG:

1. Make sure the EPG is turned off.
2. Pull the top of the EPG away from the cradle.
3. Remove the bottom of the EPG from the cradle.

To re-insert the EPG:

1. Insert the bottom of the EPG into the cradle. Then, gently push the top of the EPG until it snaps into the cradle.

Removing the Thigh Cuff Straps

The thigh straps can be removed from the Thigh Cuff for cleaning or for strap replacement.

To remove the thigh straps:

1. Push the attached thigh strap buckle toward the Thigh Cuff while making a twisting motion. See Figure 11-12.
2. Slide the thigh strap out away from the Thigh Cuff to detach.

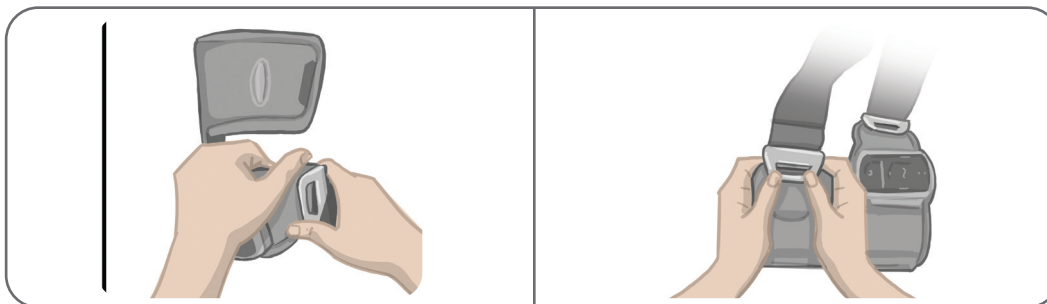


Figure 11-12: Removing the Thigh Straps

To reattach the thigh straps:

1. Align the strap buckle to the hook attached to the Thigh Cuff panels.
2. Push the strap buckle with your thumbs toward the strap (direction away from the Thigh Cuff). See Figure 11-13. The strap buckle will snap into the Thigh Cuff panel hook.

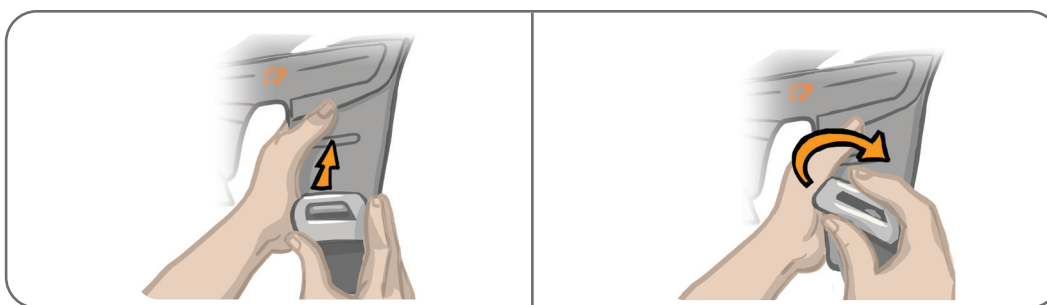


Figure 11-13: Reattaching the Thigh Straps

The system consists of mechanical and electronic components. Inadequate handling of those components may cause health hazards. Disposal of the system must comply with local regulations.

Cleaning the L300 Go System Components

All L300 Go System components may be cleaned by carefully wiping them with a damp cloth. The electrical components are not waterproof. **Do not immerse them in water.**

Cleaning the Lower Leg Cuff

The Lower Leg Cuff is the only component that can be immersed in water to clean. Bioness recommends cleaning the Lower Leg Cuff when replacing the electrodes.

To clean the Lower Leg Cuff:

1. Remove the lower leg EPG from the cradle.
2. Gently remove the electrodes from the electrode bases. Leave the electrode bases and snap covers attached to the Lower Leg Cuff. For hydrogel electrodes, re-apply the electrode covers.

Note: For individuals using the Steering Electrode or Quick Fit Electrode, remove the electrode directly from the Lower Leg Cuff plug holes.

3. Immerse the Lower Leg Cuff for 30 minutes in lukewarm water and mild detergent. Do not use a washing machine.
4. Rinse the Lower Leg Cuff thoroughly under running water.
5. Immerse the Lower Leg Cuff in clean, lukewarm water for an additional 15 minutes.
6. Rinse the Lower Leg Cuff again under running water.
7. Gently blot excess moisture from the Lower Leg Cuff with a towel. Do not wring the cuff. Lay the cuff flat in the shade to air dry. (Do not hang dry.) Drying time will vary from 4 to 12 hours depending on climate and humidity. For faster drying, place the cuff in front of a circulating cold-air fan. Do not use a hot-air dryer or other heat source to dry.
8. When the Lower Leg Cuff is completely dry, insert the Lower Leg EPG into the cradle and attach the electrodes.

Cleaning the Thigh Straps

1. Make sure the thigh straps are removed from the Thigh Cuff.
2. Immerse the thigh straps for 30 minutes in lukewarm water and mild detergent. Do not use a washing machine.
3. Rinse the straps thoroughly under running water.
4. Immerse the straps for an additional 15 minutes in clean, lukewarm water.
5. Rinse the straps again under running water.
6. Lay the straps in the shade to dry. If desired, place the items in front of a circulating cold-air fan. Do not use a hot-air dryer or other heat source to dry.

Disinfecting the L300 Go System Components

Disinfecting the Thigh Cuff

The plastic parts of the Thigh Cuff may be disinfected using a combination of CaviWipes™, per the manufacturer's instructions, and 70% ethanol wipes.

To disinfect the Thigh Cuff:

1. Remove the thigh EPG from the EPG cradle.
2. Wipe the plastic surface of the Thigh Cuff (the side that faces the skin) with a wet CaviWipes disinfection wipes. Make sure to use a new CaviWipes for each of the Thigh Cuff panels.

Note: Read the manufacturer's instructions for use, and follow standard precautions for personal protection as appropriate.

3. Using one or more new CaviWipes, wipe the entire surface again for 1 minute. The surface should be visibly wet. Repeat this process again three times, using a new wipe each time.
4. Place a wipe saturated with 70% ethanol over each of the Thigh Cuff panels (on the side that faces the skin). Cover the entire surface and leave the saturated wipes on the Thigh Cuff for at least five minutes.
5. After five minutes, wipe the Thigh Cuff panels with the 70% ethanol wipes and remove them to allow the plastic surface to dry.

Disinfecting the EPG and Control Unit

The Lower Leg EPG, thigh EPG, and Control Unit may be cleaned and low-level disinfected using wipes or cloths saturated (but not dripping) with 70% isopropyl alcohol (IPA) per the instructions below:

1. Use one saturated disinfectant wipe or cloth to thoroughly wet the component surface.
2. Use a second saturated disinfectant wipe or cloth to remove any surface contaminants. If not removed, soil will impede the disinfectant's effectiveness.
3. As needed, use additional saturated disinfectant wipes or cloths to keep the components surface wet for three minutes.

Note: Follow the Bioness instructions for the specified contact time to ensure an effective bacteria kill.

Disinfecting the System Kit and Clinician Kit Cases

The L300 Go System Kit (optional item, sold separately) and Clinician Kit cases may be cleaned and low-level disinfected using 70% isopropyl alcohol (IPA) per the following instructions:

1. Wipe the entire surface of the kit case with a cloth or wipe saturated with 70% IPA.
2. Use a new cloth or wipe saturated with 70% IPA to remove any surface contaminants. Soil will impede the disinfectant's effectiveness, if not removed.
3. Wipe the entire surface of the kit case again with a new cloth or wipe saturated with 70% IPA.
4. Use additional new cloths or wipes saturated with 70% IPA as needed to keep the entire surface of the case wet for 10 minutes.

Note: Follow the Bioness instructions for the specified contact time to ensure an effective bacteria kill.

Do not use other cleaning/disinfecting agents such as a diluted bleach mixture, or other disinfecting wipes. Bioness has not tested these products' effectiveness on the L300 Go System components.

Pairing Replacement Part Components

The L300 Go System components must be paired to each other to communicate wirelessly. The EPG and Control Unit in the System Kit are already paired. The Foot Sensor will need to be paired to the other components during a fitting session for patients that are using the optional Foot Sensor. When a Control Unit, EPG, or Foot Sensor is replaced, the new replacement component must be paired to the existing components.

Note: When pairing make sure the components are within a few inches of each other.

Pairing Setup

1. If the replacement component is an EPG, make sure the new EPG is fully charged. See the "Charging the L300 Go System" section in this guide for more information.
2. Make sure the EPG is attached to the EPG Cradle on the cuff.
3. Turn on the EPG by pressing the Power button on the EPG.

Pairing a Lower Leg EPG to a Thigh EPG

1. Make sure both EPGs are turned on.
2. Place the Lower Leg Cuff and Thigh Cuff, with EPGs attached, within a few inches of each other.
3. Simultaneously press and hold the Plus and Minus buttons on the Lower Leg EPG. The EPG will go into Pairing mode and the EPG State Indicator Light will display an alternating green, yellow, and red light.
4. Immediately simultaneously press and hold the Plus and Minus buttons on the thigh EPG. The EPG will go into Pairing mode and the EPG State Indicator Light will display an alternating green, yellow, and red light.
5. Once paired the EPG State Indicator Light will flash green on both EPGs.

Pairing a New Control Unit to the EPG

1. For individuals using the Lower Leg Cuff, make sure the Lower Leg EPG is turned on. For individuals using the Thigh Stand-Alone Cuff, make sure the thigh EPG is turned on.
2. Place the cuff, with EPG attached, and the Control Unit within a few inches of each other.
3. Turn on the Control Unit by pressing any button. A flashing "P" will appear in the display screen, if not, press the Plus and Minus buttons simultaneously until a flashing "P" appears.
4. For individuals using the Lower Leg Cuff, simultaneously press the Plus and Minus buttons on the Lower Leg EPG. The EPG will go into Pairing mode and the EPG State Indicator Light will display an alternating green, yellow, and red light.

5. For individuals using the Thigh Stand-Alone Cuff, simultaneously press and hold the Plus and Minus buttons on the thigh EPG. The EPG will go into Pairing mode and the EPG State Indicator Light will display an alternating green, yellow, and red light.
6. Once paired, the EPG State Indicator Light on the EPG will flash green. The connected EPG/s will appear on the display screen on the Control Unit.

Pairing an Existing Control Unit to a Different EPG

Note: If pairing to an EPG with different patient parameters, be sure to unpair the Control Unit first otherwise the previous patient's information will save onto the new EPG.

1. For individuals using the Lower Leg Cuff, make sure the Lower Leg EPG is turned on. For individuals using the Thigh Stand-Alone Cuff, make sure the thigh EPG is turned on.
2. Place the cuff, with EPG attached, and the Control Unit within a few inches of each other.
3. Turn on the Control Unit by pressing any button. Simultaneously press and hold the Plus and Minus buttons on the Control Unit.
4. Immediately simultaneously press the Plus and Minus buttons on either the Lower Leg EPG or Thigh Stand-Alone EPG. The EPG will go into Pairing mode and the EPG State Indicator Light will display an alternating green, yellow, and red light.
5. Once paired the EPG State Indicator Light on the EPG will flash green. The connected EPG will appear on the display screen on the Control Unit.
6. The patient's parameters stored on the Control Unit will carry over onto the new EPG unless the Control Unit was unpaired.

Pairing a New Foot Sensor to the EPG

1. For individuals using the Lower Leg Cuff, make sure the Lower Leg EPG is turned on. For individuals using the Thigh Stand-Alone Cuff, make sure the thigh EPG is turned on.
2. Place the cuff, with EPG attached, and the Foot Sensor within a few inches of each other.
3. Remove the battery from the Foot Sensor, wait 120 seconds, and then insert the battery back into the Foot Sensor. Make sure to press firmly on the battery cover to snap back into place.
4. Press the Foot Sensor pressure sensor to activate the sensor.
5. For individuals using the Lower Leg Cuff, simultaneously press the Plus and Minus buttons on the Lower Leg EPG. The EPG will go into Pairing mode and the EPG State Indicator Light will display an alternating green, yellow, and red light.
6. For individuals using the Thigh Stand-Alone Cuff, simultaneously press and hold the Plus and Minus buttons on the thigh EPG. The EPG will go into Pairing mode and the EPG State Indicator Light will display an alternating green, yellow, and red light.
7. Once paired the EPG State Indicator Light on the EPG will flash green and the indicator light on the Foot Sensor will flash green.

Note: Once the new Foot Sensor has been paired to the existing EPG, the Control Unit will automatically recognize the paired Foot Sensor.

Troubleshooting

Using the Tester

The Tester is used in place of the electrodes and can help to troubleshoot if there is a disconnection in the Lower Leg Cuff, Thigh Cuff, and the EPG. The Tester provides audio feedback when connected to the Lower Leg Cuff and/or Thigh Cuff. Audio feedback is delivered when stimulation is applied using the Bioness Clinician Programmer application, EPG, Foot Sensor, or Control Unit. See Figure 13-1 and Figure 13-2 for tester placement.



Figure 13-1: Tester Connected to Lower Leg Cuff

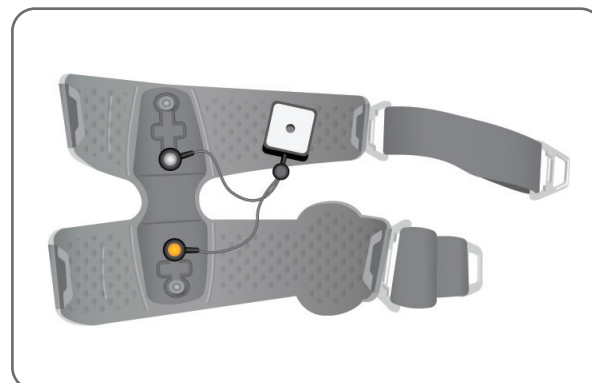


Figure 13-2: Tester Connected to Thigh Cuff

Error Code Descriptions

When an error occurs with the L300 Go System the EPG will emit an audio alert and the Status Indicator Light on the EPG will display a flashing red light. The Control Unit LCD display will show a flashing Error Indicator icon and a flashing Numeric Indicator communicating the error code. Refer to Table 13-1 for the error code descriptions and solutions.

| Control Unit and Bioness Clinician Programmer Application Error Codes | | |
|---|-------------------------|--|
| Error Code | Description of Error | Solution |
| E1 | Overstimulation Fault | Stimulation is being delivered at a higher intensity than expected. This is a possible hardware issue. Stop using the L300 Go System and contact Bioness. |
| E2 | Overstimulation Fault | Stimulation is being delivered at a higher frequency than expected. This is a possible hardware issue. Stop using the L300 Go System and contact Bioness. |
| E3 | Understimulation Fault | Stimulation is being delivered at a lower intensity than expected. This is a possible hardware issue. Stop using the L300 Go System and contact Bioness. |
| E4 | Understimulation Fault | Stimulation is being delivered at a lower frequency than expected. This is a possible hardware issue. Stop using the L300 Go System and contact Bioness. |
| E5 | Charge Imbalance | This is a possible hardware issue. Stop using the L300 Go System and contact Bioness. |
| E6 | Communication Fault | The Foot Sensor and Lower Leg EPG are not communicating. Press the Foot Sensor pressure sensor to activate the Foot Sensor. |
| E7, E8, E9 | Software Fault | Reset the EPG. If error persists, stop using the L300 Go System and contact Bioness. |
| E10 | Parameter Corrupted | The L300 Go System needs to be reprogrammed. Stop using the L300 Go System and contact Bioness. |
| E11, E22 | Incorrect Cuff Fault | Make sure EPG is correctly inserted into the EPG cradle on the cuff. For users with both the Lower Leg Cuff and thigh Cuff, make sure the correct EPG is inserted into the EPG cradle. The Lower Leg EPG must be in the Lower Leg Cuff and the thigh EPG must be in the Thigh Cuff for the system to function. |
| E12 | Shorted Electrode Fault | Electrodes are shorted, cuff has an electrical short, or the hardware is not functioning correctly. Stop using the L300 Go System and contact Bioness. |
| E13 | Bad Electrode Fault | Electrodes are worn or damaged. Replace any worn or damaged electrodes or electrode bases. Refer to the "Maintenance and Cleaning" chapter of this guide for instructions. |
| E14 | Open Electrode Fault | Turn the EPG off by pressing the Power button on the EPG. Make sure the electrodes and/or electrode bases are snapped into the plug holes of the cuff. |
| E15 | EPG Battery Empty | Charge the EPG. Refer to the "Charging the L300 Go System" section in this guide. |

| Control Unit and Bioness Clinician Programmer Application Error Codes | | |
|---|-------------------------------|---|
| Error Code | Description of Error | Solution |
| E17 | EPG Battery Temperature Fault | Battery temperature is too high. Disconnect the charger from the EPG. Place the EPG in a room within the operating conditions temperature range (5°C to 40°C/41°F to 104°F) for 30 minutes. After 30 minutes reconnect the EPG to the charger to continue charging. |

Table 13-1: Control Unit and Bioness Clinician Programmer Application Error Codes

Frequently Asked Questions

If you have any questions or concerns, please contact Bioness Technical Support at 800-211-9136, Option 3 (USA & Canada) or your local distributor. You may also visit BionessMedical.com.

When charging the EPG, how will I know when the batteries are fully charged?

The Battery Indicator Light on the EPG will display a solid green light, briefly at power up, when the EPG battery is fully charged. Charging takes approximately three hours. If the EPG is completely discharged it can take up to six hours for the EPG battery to charge.

If I charge the EPG every day, will I harm the batteries?

No, daily charging will not affect the lifespan or functionality of the EPG battery. Daily charging of the EPG is recommended.

How will I know when the EPG battery charge level is low?

The Battery Indicator Light on the EPG will display a solid yellow light and the Status Indicator Light will flash red. When the battery is near empty the EPG will emit an audible alarm in addition to the low battery lights until it is completely discharged or connected to a power source..

How will I know when the Foot Sensor battery charge level is low?

A Foot Sensor battery will last for approximately six months, and then it will need to be replaced. When the Foot Sensor battery charge level is low, the red Indicator Light on the Foot Sensor will flash for five seconds.

What do I do if the electrodes or electrode bases are frayed, peeling, damaged, or falling off the cuff?

Replace any worn or damaged electrodes or electrode bases. Refer to the "Maintenance and Cleaning" chapter in this guide.

What if the patient's ankle is not moving (or the foot does not lift satisfactorily), and the L300 Go System is not indicating any errors?

- Make sure the EPG(s) is turned off.
- Reposition the cuff.
- Make sure the strap is snug and the Lower Leg Cuff is secure.

- Turn on the Lower Leg EPG by pressing the Power button on the EPG.
- Test the placement of the Lower Leg Cuff by pressing and holding the Stim button on the EPG for at least five seconds. The EPG will deliver stimulation until the Stim button is released.

How come the patient's knee is not moving satisfactorily, and the L300 Go System is not indicating any errors?

- Make sure the EPG(s) is turned off.
- Reposition the Thigh Cuff.
- Make sure the straps are snug.
- Turn on the thigh EPG by pressing the Power button on the EPG.
- Test the placement of the Thigh Cuff by pressing and holding the Stim button on the EPG for at least five seconds. The EPG will deliver stimulation until the Stim button is released.

Why is the stimulation inconsistent when the patient is walking, but the L300 Go System is not indicating any errors?

Have the patient stop walking and shift their weight from side to side.

For patients using the Foot Sensor:

- Check for proper placement of the pressure sensor, reposition the pressure sensor slightly forward in their shoe, or loosen the shoelace.
- Check the Foot Sensor wire for wear or fraying, and check the transmitter and pressure sensor for damage.
- If damaged contact Bioness for a replacement part.

What should I do if the patient's skin is irritated or has a skin reaction where the electrodes or cuff adheres?

Have the patient stop using the L300 Go System immediately and contact Bioness. The patient should resume use only when the skin is completely healed. Give patients the L300 Go Skin Care Guidelines and a skin conditioning protocol.

How can I verify that current is flowing through the L300 Go System?

Connect the Tester to the cuff. The Tester will buzz when stimulation intensity is at least 10 mA.

What else can I use the Tester for?

The Tester can be used as an educational tool, to demonstrate when stimulation is on in the various stimulation modes.

Technical Specifications

| Control Unit Specifications | |
|----------------------------------|--|
| Classification | Internally powered, continuous operation with type BF applied part(s) |
| Operation Modes | Gait, Training, and Clinician |
| Battery Type | Button cell lithium battery, CR2032, 3V, 240 mAh |
| Controls | <ul style="list-style-type: none"> •Select button- to select an EPG •Mode button- to select an operating mode •Stim button- to turn stimulation on/off •Minus and Plus buttons- to decrease or increase stimulation intensity level •Volume button- turns the EPG audio feedback on/off |
| Indications | <ul style="list-style-type: none"> •EPG icon (Ready, Stim, and Error State), Foot Sensor icon, Operating Mode icon, Battery Level icon, Error icon, and Volume (mute) icon •Numerical display for stimulation intensity and error code display |
| Carrying Options | In pocket or neck strap |
| Dimensions | <ul style="list-style-type: none"> •Length: 75 mm (2.9 in.) •Width: 40 mm (1.6 in.) •Height: 17 mm (0.7 in.) |
| Weight | 60 grams |
| Environmental Ranges | <p>Transport and Storage Conditions:</p> <ul style="list-style-type: none"> •Temperature: -25°C to +55°C •Relative humidity: 5% to 90% •Pressure: 20 kPa to 106 kPa <p>Operating Conditions:</p> <ul style="list-style-type: none"> •Temperature: 5°C to 40°C •Relative humidity: 5% to 75% •Operating pressure: 80 kPa to 106 kPa |
| Ingress Protection Rating | <p>IP22</p> <p>Protection Against:</p> <ul style="list-style-type: none"> •Object Sized >12.5mm •Dripping Water When Tilted up to 15° <p>Effective Against:</p> <ul style="list-style-type: none"> •Fingers or Similar Objects •Vertical dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position. |
| FCC ID Number | RYYEYSGJN |

| EPG Specifications | |
|--|--|
| Classification | Internally powered, continuous operation with type BF applied part(s) |
| Battery Type | Rechargeable lithium ion battery, 3.7V, 1000 mAh |
| Controls | <ul style="list-style-type: none"> •Power button - turns system on/off •Stim button- to turn stimulation on/off •Minus and Plus buttons- to decrease or increase stimulation intensity level |
| Indications | <ul style="list-style-type: none"> •Status Indicator Light and Battery Indicator Light •Audio and vibration feedback •“Beeps” for audio alerts |
| Dimensions | Length: 82 mm, Width: 47 mm, Height: 15 mm |
| Weight | 60 grams |
| Environmental Ranges | <p>Transport and Storage Conditions:</p> <ul style="list-style-type: none"> •Temperature: -25°C to +55°C •Relative humidity: 5% to 90% •Pressure: 20 kPa to 106 kPa <p>Operating Conditions:</p> <ul style="list-style-type: none"> •Temperature: 5°C to 40°C •Relative humidity: 5% to 75% •Operating pressure: 80 kPa to 106 kPa |
| Ingress Protection Rating | <p>IP42</p> <p>Protection Against:</p> <ul style="list-style-type: none"> • >1mm Solids Ingress •Dripping Water When Tilted up to 15° <p>Effective Against:</p> <ul style="list-style-type: none"> •Most wires, screws, etc. •Vertical dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position. |
| Product Lifetime (Given Intended Use) | 2 Years |
| Rechargeable Battery Lifetime | 3 Years |
| FCC ID Number | RYYEYSGJN |
| Pulse Parameters | |
| Pulse | Balanced Biphasic |
| Waveform | Symmetric or Asymmetric |
| Intensity (Peak) | 0–100 mA, 1-mA resolution (positive phase) |
| Maximum Intensity (rms) | 16.5 mA (rms) |
| Max Voltage | 130 V |

| | | | | | |
|---|--|-----|-----|------|------|
| | Symmetric | | | | |
| Positive Pulse Duration (μsec) | 100 | 150 | 200 | 250 | 300 |
| Negative Pulse Duration (μsec) | 100 | 150 | 200 | 250 | 300 |
| Interphase Interval (μsec) | 50, 100, 200 | | | | |
| Total Pulse Duration for Inter-Phase Interval of 50 μsec | 250 | 350 | 450 | 550 | 650 |
| | Asymmetric | | | | |
| Positive Pulse Duration (μsec) | 100 | 150 | 200 | 250 | 300 |
| Negative Pulse Duration (μsec) | 300 | 450 | 600 | 750 | 900 |
| Interphase Interval (μsec) | 20, 50, 100, 200 | | | | |
| Total Pulse Duration for Inter-Phase Interval of 50 μsec | 450 | 650 | 850 | 1050 | 1250 |
| Max. Load | 80000 ohm (Subject to max. voltage limitation) | | | | |
| Min. Load | 100 ohm | | | | |
| Pulse Repetition Rate | 10–45 Hz, 5 Hz resolution | | | | |

| Gait Parameters | |
|---------------------------------|--------------------------------------|
| Swing Control Delay (%) | 0–100% of phase* time, 5% resolution |
| Swing Control End (%) | 0–100% of phase* time, 5% resolution |
| Stance Control Delay (%) | 0–100% of phase* time, 5% resolution |
| Stance Control End (%) | 0–100% of phase* time, 5% resolution |
| Ramp Up | 0–0.5 seconds, 0.1-second resolution |
| Ramp Down | 0–0.5 seconds, 0.1-second resolution |
| Extend (%) | 0–100% of stance time, 5% resolution |

| | |
|--|-----------------------------------|
| Max. Duration of Stimulation | 1–10 seconds, 1-second resolution |
| * Stimulation burst can start either on swing or stance phase. | |

| Cycle Training Parameters | |
|-------------------------------------|--------------------------------------|
| Ramp Up | Not adjustable. Preset to 0 seconds. |
| Ramp Down | Not adjustable. Preset to 0 seconds. |
| Max. Duration of Stimulation | Not adjustable. Preset to 2 seconds. |

| EPG Alert Onset Time | |
|---|--|
| Incorrect Stimulation | Delay to Alert < 5 sec |
| Communication Failure | Delay to Alert < 1 sec |
| Corrupted Memory | Delay to Alert < 100 ms |
| EPG is in the Incorrect Cuff | Delay to Alert (after stimulation is enabled) < 100 ms |
| Electrode Condition Alert (short / bad contact / open) | Delay to Alert < 2.5 sec |
| Battery Empty | Delay to Alert < 1 sec |

Note: The alert signal range is from 39-51 dBA.

All logs are stored in EEPROM when the alert is generated. The logs are maintained as long as the EPG has power for at least a few seconds after an alert is activated. Once the contents of the logs reach maximum storage capacity, logs rollover and the oldest entries are overwritten.

| Foot Sensor Specifications | |
|--------------------------------------|--|
| Classification | Internally powered, continuous operation with type BF applied part(s) |
| Battery Type | Button cell lithium battery, CR2032, 3V, 240 mAh |
| Dimensions of the Transmitter | <ul style="list-style-type: none"> •Length: 65 mm (2.6 in.) •Width: 50 mm (2 in.) •Height: 10 mm (0.4 in.) |
| Weight | 25 grams |
| Environmental Ranges | Transport and Storage Conditions: <ul style="list-style-type: none"> •Temperature: -25°C to +55°C •Relative humidity: 5% to 90% •Pressure: 20 kPa to 106 kPa Operating Conditions: <ul style="list-style-type: none"> •Temperature: 5°C to 40°C •Relative humidity: 5% to 75% •Operating pressure: 80 kPa to 106 kPa |

| | |
|----------------------------------|---|
| Ingress Protection Rating | <p>IP52</p> <p>Protection Against:</p> <ul style="list-style-type: none"> •Dust •Dripping water when tilted up to 15° <p>Effective Against:</p> <ul style="list-style-type: none"> •Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with satisfactory operation of the equipment. •Vertical dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position. |
| FCC ID Number | RYYEYSGJN |

| Lower Leg Cuff Specifications | | |
|--------------------------------|---|--|
| | Regular Lower Leg Cuff | Small Lower Leg Cuff |
| Material | Fabric-Polymer | Fabric-Polymer |
| Fits Limb Circumference | 29–51 cm (11–20 in.) | 22–31 cm (8-12.2 in.) |
| Dimensions | <ul style="list-style-type: none"> •Height: 160 mm (6.3 in.) •Width: 100 mm (3.9 in.) •Depth: 125 mm (4.9 in.) | <ul style="list-style-type: none"> •Height: 110.5 mm (4.5 in.) •Width: 80 mm (3 in.) •Depth: 100 mm (4 in.) |
| Weight | Approximately 150 grams (4.8 oz) | Approximately 104 grams (3.6 oz.) |

| Thigh Cuff Specifications | |
|--------------------------------|---|
| Material | Fabric-Polymer |
| Fits Limb Circumference | <ul style="list-style-type: none"> •Upper thigh circumference: 53 cm–85 cm •Lower Thigh circumference: 33 cm–50 cm •Thigh length: 24 cm–35 cm |
| Dimensions | <p>Length: 200 mm</p> <p>Circumference (minimal):</p> <ul style="list-style-type: none"> •Proximal panel: 270 mm •Distal panel, regular: 310 mm •Distal panel, large: 510 mm |
| Weight | Approximately 300 grams |

| System Charger Specifications | |
|--|-----------|
| Use the medical Class II safety approved power supply provided/approved by Bioness with the following ratings: | |
| Input | |
| Voltage | 100–240 V |
| Current | 0.5 A |
| Frequency | 50–60 Hz |
| Output | |
| Voltage | 5.0 V |
| Current | 3.0 A |

Note: Do not use the L300 Go System while charging. Do not wear the Lower Leg Cuff or Thigh Cuff while charging.

| Electrode and Electrode Base Specifications - Lower Leg Cuff | |
|--|--|
| Hydrogel Electrodes | <ul style="list-style-type: none"> •Two, 45-mm (1.77-in.) diameter, surface area 15.8 cm² hydrogel electrodes •Transport and storage temperature: 5°C to 27°C (41.0°F to 80.6°F) •Relative humidity: 35% to 50% <p>Note: Use only electrodes provided by Bioness Medical, Inc</p> |
| Hydrogel Electrode Bases, 45mm | <ul style="list-style-type: none"> •Two, 45-mm (1.77-in.) diameter, relocatable polymer electrode bases for individual fitting |
| Cloth Electrode Bases, 45mm | <ul style="list-style-type: none"> •Two, 45-mm (1.77-in.) diameter, relocatable Thermoplastic elastomer (TPE) electrode bases |
| Round Cloth Electrodes, 45mm | <ul style="list-style-type: none"> •Two, 45-mm (1.77-in.) diameter, relocatable non-woven polymer fabric (80% viscose, 20% polypropylene); conductive layer, stainless steel •Male snap connector •Low Density Polyethylene (LDPE) 10% + Ethylene Vinyl acetate (EVA) •Surface Area: 15.8 cm² |
| Quick Fit Electrode (right - A and left - A) | <ul style="list-style-type: none"> •Non-woven polymer fabric (80% viscose, 20% polypropylene); conductive layer, stainless steel •Male snap connector •Low Density Polyethylene (LDPE) 10% + Ethylene Vinyl acetate (EVA) •Surface area: 43.2 cm² \ 55.3 cm² |
| Steering Electrode (right and left) | <ul style="list-style-type: none"> •Non-woven polymer fabric (80% viscose, 20% polypropylene); conductive layer, stainless steel •Male snap connector •Low Density Polyethylene (LDPE) 10% + Ethylene Vinyl acetate (EVA) •Surface area: 21.2 cm² (proximal cathode) \ 19.5 cm² (distal cathode) \ 56.9 cm² (anode) |

| | |
|---|--|
| Small Round Cloth Electrodes, 36mm | <ul style="list-style-type: none"> •Two, 36-mm (1.41-in.) diameter, relocatable non-woven polymer fabric (80% viscose, 20% polypropylene); conductive layer, stainless steel •Male Snap Connector •Low Density Polyethylene (LDPE) 10% + Ethylene Vinyl acetate (EVA) •Surface area: 10.1 cm² |
| Small Cloth Electrode Bases, 36mm | <ul style="list-style-type: none"> •Two, 36-mm (1.41-in.) diameter, relocatable Thermoplastic elastomer (TPE) electrode bases |
| L300 Quick Fit Electrode, Small A | <ul style="list-style-type: none"> •Non-woven polymer fabric (80% viscose, 20% polypropylene); conductive layer, stainless steel •Male snap connector •Low Density Polyethylene (LDPE) 10% + Ethylene Vinyl acetate (EVA) •Surface area: 31.1 cm² \ 20.6 cm² |
| L300 Quick Fit Electrode, Small B | <ul style="list-style-type: none"> •Non-woven polymer fabric (80% viscose, 20% polypropylene); conductive layer, stainless steel •Male snap connector •Low Density Polyethylene (LDPE) 10% + Ethylene Vinyl acetate (EVA) •Surface area: 19.9 cm² \ 28.2 cm² |

| Thigh Cuff Cloth Electrode Specifications | |
|--|--|
| Material | Non-woven cloth Note: Use only electrodes provided by Bioness Medical, Inc. |
| Dimensions | <ul style="list-style-type: none"> •Proximal Oval: 130 mm x 75 mm •Distal Oval: 120 mm x 63 mm |

Wireless Information


System Characteristics


The L300 Go System communicates wirelessly between components.

| | |
|---|---|
| Description | Industry-standard Bluetooth® Low Energy (BLE) 4.1 communication protocol |
| Operating Frequency Band | 2.4 Ghz, ISM band (2402-2480 MHz) |
| Type of Modulation | FSK |
| Type of Modulating Signal | Binary data message |
| Data Rate [=Frequency of Modulating Signal] | 250 Kbps |
| Effective Isotropoc Radiated Power | 4 dBm |
| Receiver Bandwidth | 812 kHz around a selected frequency |
| EMC Testing | Complies with FCC 15.2473 (for U.S.) regulations Complies with IEC 60601-1-2 Complies with IEC 60601-2-10 |

- **Quality of Service (QOS):** The L300 Go System was designed and tested to have a response rate of 10-100ms latency depending on system configuration after the detection of a heel event.
- **Wireless Interference:** The L300 Go System was designed and tested to not have interference from other RF devices (including other L300 Go systems, WiFi networks, Cellular Devices, Microwaves and other Bluetooth® devices).

L300 Go System is not susceptible to the wide range of expected EMI emitters, such as Electronic Article Surveillance Systems (EAS), Radio Frequency Identification Systems (RFID), Tag Deactivators, and Metal Detectors. However, there is no guarantee that interference will not occur in a particular situation.

 **Caution:** If performance of the L300 Go System is affected by other equipment, the user should turn the L300 Go system off, and move away from the interfering equipment.

 **Caution:** When controlling the L300 Go System on a patient using Bioness Clinician Programmer Application, make sure there is always line of site between the Bioness Clinician Programmer Application and the patient. In case of communication failure between the Bioness Clinician Programmer Application and the patient's L300 Go System, move Bioness Clinician Programmer Application closer to the patient's L300 Go System.

Electromagnetic compatibility (EMC) Information

| Guidance and Manufacturer's Declaration—Electromagnetic Emissions | | |
|---|------------|---|
| The L300 Go System is intended for use in the electromagnetic environment specified below. The customer or the user of the L300 Go System should assure that it is used in such an environment. | | |
| Emissions Test | Compliance | Electromagnetic Environment — Guidance |
| RF emissions CISPR 11 | Group 1 | The L300 Go System uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. |
| RF emissions CISPR 11 | Class B | |
| Harmonic emissions IEC 61000-3-2 | Class A | |
| Voltage fluctuations/flicker emissions IEC 61000-3-3 | Complies | The L300 Go System is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes. |

| Guidance and Manufacturer's Declaration— Electromagnetic Immunity for All Equipment and Systems | | | |
|---|--|--|--|
| The L300 Go System is intended for use in the electromagnetic environment specified below. The customer or the user of the L300 Go System should assure that it is used in such an environment. | | | |
| Immunity Test | IEC 60601 Test Level | Compliance Level | Electromagnetic Environment—Guidance |
| Electrostatic discharge (ESD) IEC 61000-4-2 | +/- 8 kV contact +/- 15 kV air | +/- 8 kV contact +/- 15 kV air | Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%. |
| Electrical fast transient/burst IEC 61000-4-4 | +/-2 kV for power supply lines +/- 1 kV for Input/ output lines | +/- 2 kV for power supply lines | Mains power quality should be that of a typical commercial or hospital environment. |
| Surge IEC 61000-4-5 | +/-1 kV line to line +/-2 kV line to earth | +/-1 kV line to line +/-2 kV line to earth | Mains power quality should be that of a typical commercial or hospital environment. |

**Guidance and Manufacturer's Declaration—
Electromagnetic Immunity for All Equipment and Systems**

The L300 Go System is intended for use in the electromagnetic environment specified below. The customer or the user of the L300 Go System should assure that it is used in such an environment.

| Immunity Test | IEC 60601 Test Level | Compliance Level | Electromagnetic Environment—Guidance |
|--|---|---|---|
| Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11 | $<5\% U_T$ ($>95\%$ dip in U_T) for 0.5 cycle $40\% U_T$ (60% dip in U_T) for 5 cycles $70\% U_T$ (30% dip in U_T) for 25 cycles $<5\% U_T$ ($>95\%$ dip in U_T) for 5 sec | $<5\% U_T$ ($>95\%$ dip in U_T) for 0.5 cycle $40\% U_T$ (60% dip in U_T) for 5 cycles $70\% U_T$ (30% dip in U_T) for 25 cycles $<5\% U_T$ ($>95\%$ dip in U_T) for 5 sec | Mains power quality should be that of a typical commercial or hospital environment. If the user of the L300 Go System requires continued operation during power mains interruptions, it is recommended that the equipment be powered from an uninterruptible power supply or a battery. |
| Power frequency (50/60 Hz) magnetic field IEC 61000-4-8 | 30 Aa/m | 30 A/m | Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. |

Note: U_T is the AC mains voltage prior to application of the test level.

Guidance and Manufacturer's Declaration—Electromagnetic Immunity

The L300 Go System is intended for use in the electromagnetic environment specified below. The customer or the user of the L300 Go System should assure that it is used in such an environment.

| Immunity Test | IEC 60601 Test Level | Compliance Level | Electromagnetic Environment—Guidance |
|---------------|----------------------|------------------|---|
| | | | Portable and mobile RF communications equipment should be used no closer to any part of the L300 Go System, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. |


| Guidance and Manufacturer's Declaration—Electromagnetic Immunity | | | |
|---|---|--|---|
| The L300 Go System is intended for use in the electromagnetic environment specified below. The customer or the user of the L300 Go System should assure that it is used in such an environment. | | | |
| Immunity Test | IEC 60601 Test Level | Compliance Level | Electromagnetic Environment—Guidance |
| Conducted RF IEC 61000-4-6 | 3 Vrms 150 kHz to 80 MHz 6 Vrms ISM and Amateur Radio Bands | 3 Vrms 150 kHz to 80 MHz 6 Vrms ISM and Amateur Radio Bands | Recommended separation distance: $d = 1.2\sqrt{P}$ |
| Radiated RF IEC 61000-4-3 | 10 V/m 80 MHz to 2.7 GHz Proximity Fields per 60601-1-2 4th edition | $[E_1] = 10 \text{ V/m}$ in 26 MHz to 2.7 GHz Proximity Fields per 60601-1-2 4th edition | Recommended separation distance: $d = 0.4\sqrt{P}$, 80–800 MHz range $d = 0.7\sqrt{P}$, 800-2700 MHz range |

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

NOTE 3: P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).

NOTE 4: Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^a should be less than the compliance level in each frequency range.^b

NOTE 5: Interference may occur in the vicinity of equipment marked with the following symbol: 

^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the L300 Go System is used exceeds the applicable RF compliance level above, the L300 Go System should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the L300 Go System.

^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Network Safety, Security, and Privacy

The security of Bioness products is an important factor in protecting information and systems from external and internal threats. Therefore, customers must take responsibility for maintaining a secure IT environment that is compliant with general IT standards. Bioness encourages customers to implement the following industry-standard practices:

- Physical Security (e.g. do not allow unauthorized individuals to use the Bioness Clinician Programmer tablet and application)
- Operational Security (e.g. do not leave sensitive information, such as exported files, on the Bioness Clinician Programmer tablet, and do not leave a logged-in tablet unattended, do not connect the tablet to the Internet and be careful inserting flash drives to the tablet, do not alter the tablet software and install unauthorized software on it including Virus scan software)
- Procedural Security (e.g. create awareness of the dangers of social engineering, create separate login credentials for each user for the Bioness Clinician Programmer application, and disable unused accounts)
- Risk Management
- Security Policies
- Contingency Planning

The implementation of security practices may vary by site and include many other technologies, such as firewalls, virus scanning, and anti-spyware software, etc. Although online functionality is disabled on the Bioness Clinician Programmer tablet, a remote possibility remains that the system can be hacked or altered. If such an occurrence is suspected, contact Bioness Technical Support at 800-211-9136, Option 3 (USA & Canada) or your local distributor. Additional information related to security, privacy, and available software upgrade to the system can also be requested from this department.