Stimulator Technical Specifications

Power Source: (1) 9Volt battery • Dimension: 107 x 62 x 27mm • Weight: Approx.150 grams (battery included)

Program	Max.	Phase Duration	Rate	Function Mode
P1	80mA		15Hz	Constant
P2	80mA		15Hz	Modulated
РЗ	80mA		120Hz	Constant
P4	80mA		2 ~ 100Hz	Modulated
P5	80mA		100Hz	Modulated
P6	80mA		80 <->7 Hz	Modulated
P7	80mA		260Hz	Modulated
P8	80mA	P1 ~P7		Cvcle

Time: 15, 30, 60 minutes, selectable.



Back Pain Relief System



Congratulations!

You have purchased another quality product by Medisana, one of the world's Leading Companies in the Home Health Care industry. To ensure the best results and long term satisfaction with your **MEDISANA® Back Pain Relief System** we recommend that you read the following operating and maintenance instructions carefully before use.

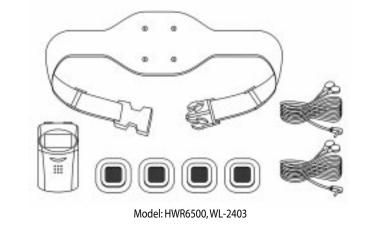
Thank you for your confidence.

Medisana, Inc.

OP-24-0014



Operational Manual



Distributed by: Medisana, Inc. Home Health Care 7005 Cochran Road Glenwillow, OH 44139-2103 www.medisanausa.com Customer Service: 800.928.9366

Warranty

This **MEDISANA® Back Pain Relief System** carries a one-year warranty from the date of purchase. The warranty applies to the **MEDISANA® Back Pain Relief System** and necessary parts and labor relating thereto. The distributor reserves the right to replace or repair the unit at their discretion. The warranty does not apply to damage resulting from failure to follow the operating instructions, accidents, abuse, alterations or disassembly by unauthorized individuals.

Replacement Parts

Contact Medisana, Inc. Customer Service: 800.928.9366 to order replacement parts. Be sure to use only **MEDISANA® Back Pain Relief System** parts. You can check the Medisana website at www.medisanausa.com for additional Product information.

Stimulator – Part # 1-111972-000		
Support Belt – Part #1-111970-000		

Snap Cables – Part # 1-111971-000 Pads – Part # 2-HWR204-001

Conformity to Standards

The Stimulator is in compliance with:

- EN 60601-1: 1990 Safety of medical *MEDISANA® Back Pain Relief System*; Electrical equipment General safety.
- ANSI/AAMI NS 4 1985; Transcutaneous Electrical Nerve Stimulators.

Troubleshooting Guide

If you have a problem using your **MEDISANA® Back Pain Relief System**, review the following table to find a solution.

Problem	Solution	
The stimulator will not turn on.	Check the battery – be sure it is firmly in place. Change the battery if necessary.	
The stimulator turns on and then off quickly.	Replace the battery.	
The stimulator is on, but there is no stimulation.	Check the snap cables for breakage. If broken, replace.	
The stimulator is on, but there is no stimulation.	Make sure the snap cables are securely snapped onto the support belt and into the stimulator socket.	
The display is frozen in P3-mode 15 MIN and the lock icon appears.	The following steps will reset the unit to normal function. 1. With unit off, press and hold down the TIME button. 2. With the TIME button pressed, turn the unit on 3. Press the UP arrow once to turn the "LOCK ICON" off. 4. Turn unit off. 5. Press and hold the UP arrow button while turning the unit on.	
The stimulator has a new 9-volt battery, but will not turn on.	Call Customer Service (1-800-928-9366)	

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How to clean Your MEDISANA® Back Pain Relief System Support Belt

Before washing the belt, remove the pads and put them on the storage liners. Remove the snap cables and the stimulator from the belt. Hand-wash your Support Belt in cool water. Do not wash the belt in the washing machine.

The support belt should be air-dried, lying flat or hanging. Do not put the belt in a clothes dryer. **Snap Cables**

Disconnect the snap cables from the belt and the stimulator. Then snap cables may be wiped with a clean, damp cloth. When re-connecting, take one snap cable, and snap its two connectors onto the metal snaps on one side of the support belt. Repeat for other side of support belt.

Stimulator

The stimulator may be wiped clean with a small amount of soapy water on a clean cloth. Do not submerge the stimulator in liquids or expose it to ANY amount of water.

Maintaining Your MEDISANA® Back Pain Relief System

- Your Stimulator uses a standard 9-volt battery. If stimulation seems to be weak, or the stimulator will not turn on, check the battery. To replace the battery, make sure both amplitude control knobs are turned "OFF". Slide the stimulator cover open by pushing on the raised half moon with both thumbs until the cover slides open. Remove the old battery. Insert a 9-volt battery according to the diagram in the battery compartment. To close the cover, slide from the bottom up.
- Be sure to put the storage liners on the pads when not using your MEDISANA® Back Pain Relief System. You may use the storage liners provided. Replace the pads on your support belt if they no longer stick to your skin or to the belt.
- 3. If your support belt is damp after use, allow it to air-dry before re-applying.
- 4. When connecting and disconnecting a snap cable, hold it by the molded end and pull. Do not pull on the cable itself. Replace the snap cable if worn or broken.

How to Store Your MEDISANA® Back Pain Relief System

 Store your MEDISANA® Back Pain Relief System at room temperature in a dry place, out of the reach of children.

2. If the stimulator will not be used for more than a week, remove the battery from the stimulator.

When To Order New Pads

The electrode pads are disposable and use an adhesive that will dry after prolonged usage or storage. Pads should be replaced when they lose their adhesive quality, or you sense a change in stimulation sensation. If you doubt the integrity of the pads, order new pads.

To order new pads, see Replacement Parts on page 15.

Before using your **MEDISANA® Back Pain Relief System** always check all of the parts to be sure they are in good working order. Make sure of the following:

- 1. The battery still has power and it is not corroded.
- 2. All four pads are in the proper place on the support belt, covering the metal snaps.
- 3. Both snap cables are in good condition.
- 4. Both snap cables are properly connected to the belt and the stimulator.



Back Pain Relief System

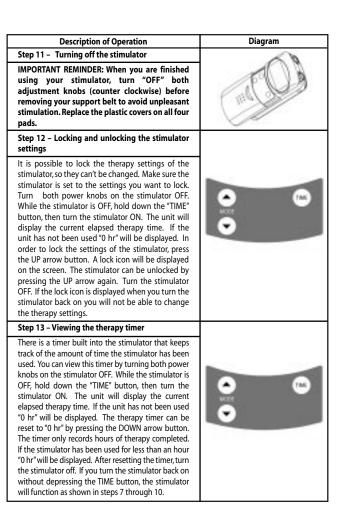
Intended Use

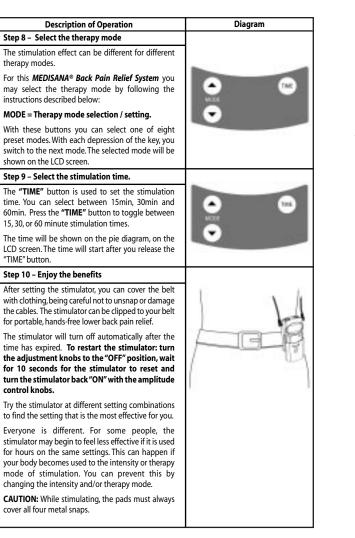
The *MEDISANA®* Back Pain Relief System is intended for temporary relief of pain associated with sore and aching muscles in the lower back due to strain form exercise or normal household and work activities.

About TENS Technology

Transcutaneous Electrical Nerve Stimulation is an approved non-invasive drugfree method of lower back pain management. It relieves pain by sending small electrical impulses through electrodes placed on the skin to underlying fibers. TENS is believed to work by two different mechanisms. First, electrical stimulation of the nerve fibers can block a pain signal from being carried to the brain. If the signal is blocked, pain is not perceived. Secondly, the body has its own mechanism for suppressing pain. It does this by releasing natural chemicals called endorphins in the brain which act as analgesics. TENS may activate this mechanism. By effectively managing pain without drugs, TENS allows many people with lower back pain conditions to resume daily activity.

Table of Contents





READ AND SAVE THESE INSTRUCTIONS: IMPORTANT SAFETY INFORMATION:

Read instruction manual before operation. Be sure to comply with all **"CAUTIONS"** and **"WARNINGS"** in the manual. Failure to follow instructions can cause harm to user or device.

CAUTION: Indicates matters in which bodily harm or material damage can occur.

WARNING: Indicates what you cannot do with device.

Please read the following information carefully before using the *MEDISANA® Back Pain Relief System.*

MARNING: DO NOT USE THIS SYSTEM IF ANY OF THE FOLLOWING CONDITIONS ARE PRESENT.

- Do not use this System if you have a cardiac pacemaker, implanted defibrillators or any other implanted metallic or electronic device.
- Do not use this System if you have undiagnosed chronic pain.
- If you are under the care of a physician, consult with your physician before using this System.
- · Do not use during pregnancy.
- Do not place the pads on or close to your heart.
- Do not place the pads around or close to your neck. Do not apply stimulation over the neck. Severe spasm of the muscles may occur and the contractions may be strong enough to close the airway or cause difficulty in breathing. Stimulation over the neck could also have adverse effect hearing or blood pressure.
- Do not apply stimulation across the chest because the introduction of electrical current into the chest may cause rhythm disturbances to the heart.
- Do not place the pads on or around your head. The effects of stimulation of the brain are unknown.
- · Do not use this System while sleeping.
- · Do not use if you feel numbness.
- · Do not use this System in or close to water.
- Use the pads only on normal, healthy, clean and dry skin. Do not use the pads on open wounds
 or rashes, or over swollen, red, infected or inflamed skin.
- If you have ever had back surgery, consult your physician before using this System.
- If you have had medical or physical treatment for your muscle pain, consult with your treatment provider before using this System. You should contact your physician prior to using the System following recent surgical procedures. Stimulation may disrupt the healing process.

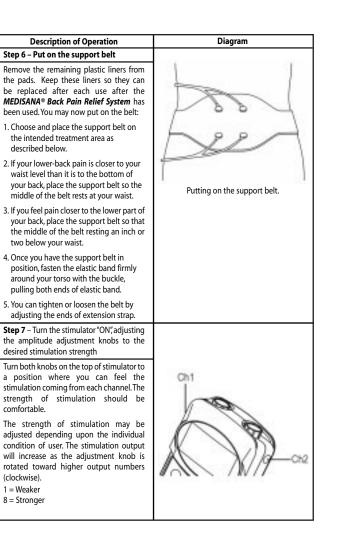
CAUTION: DISCONTINUE USE AND CONSULT YOUR PHYSICIAN IF ANY OF THE FOLLOWING CONDITIONS APPLY TO YOU.

- If you have suspected or diagnosed heart problem.
- · If you have suspected or diagnosed epilepsy.
- If you have a tendency to bleed internally following an injury.
- · If areas of skin lack normal sensations, such as skin that tingles or is numb.
- During menstruation.
- · The long-term effects of this System are not known.

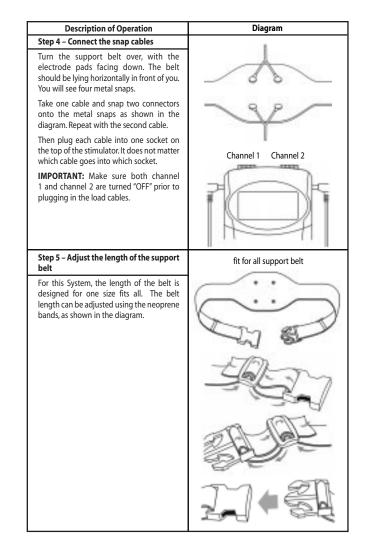
CAUTION:

- The System is intended for individual person use for the temporary relief of lower back pain.
- The System is not effective for pain associated with Central Pain Syndromes, such as headaches.
- The System is for pain caused by muscle soreness, and should be placed only around muscles where pain originates on the lower back pain area.
- The pain may indicate that you have some other health problem. You should know the reason and source of your pain before using this System. Do not solely rely on the treatment of this System for pain.
- Some people may feel skin irritation or experience a very sensitive feeling in the skin due to electrical stimulation. If this occurs, stop using your System and consult your physician.
- Some people may feel skin irritation from the adhesive on the self-adhesive pads. If this occurs, stop using your System.
- Minor redness at stimulation placement is a normal skin reaction. It is not considered as skin irritation, and it will normally disappear within 30 minutes after the electrodes are removed. If the redness does not disappear after 30 minutes from the removal of electrodes, do not use the stimulator again until after the excessive redness has disappeared.
- Turn off the stimulator if the stimulation feels unpleasant or does not provide pain relief.
 Keep your System out of the reach of children.
- Do not use this System when driving, operating machinery or when swimming.
- Skin irritation and burns under the pads have been reported by some people who have applied
 electronic stimulators to their skin.
- The effectiveness of the System depends greatly on a person's individual physical condition. It
 may not always be effective for every user.
- Clean any adhesive residue left on the skin with soap and water. Do not use alcohol or solvent based cleaning products on your skin.
- If skin under one of more pads feels irritated after using the stimulator for a long period of time, use the stimulator for a shorter period of time.
- Use your stimulator only with the pads, snap cables and accessories recommended by the manufacturer.
- Before removing the belt and pads, be sure to turn OFF both power knobs to avoid unpleasant stimulation.

SAVE THESE INSTRUCTIONS



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Introduction to your MEDISANA® Back Pain Relief System

Your System includes the following parts: Support Belt Snap Cable (one Pair) Part #1-111970-000 Part #1-111971-000 Stimulator (9V battery is included) Self-adhesive Pads (4 PCS) Model : HWR6500, WL-2403 Part # 2-HWR204-001 Parts of Stimulator CH1 output receptacle CH1 ON/OFF and Amplitude Control CH1 ON/Off and Amplitude Control - CH1 output receptacle

How Your MEDISANA® Back Pain Relief System works:

The main function of pain relief comes from the continuous stimulation pulse generated from the dual channel stimulator. We can not ensure that the pain relief is 100% effective for everyone. However, when used according to our instruction, it can be a safe, non-addictive, non-invasive lower back pain reliever.

Slide Cover

LCD Panel

Kev Control

Conditions that may affect your MEDISANA® Back Pain Relief System

Since the stimulator is a battery-operated electronic System, its output performance and safety may be affected greatly in extreme humidity. Therefore, it is very important to keep the stimulator dry to ensure the safety and performance of the stimulator.

Operation guide

You may use the following simple operation steps to operate this System.

- Step 1. Insert the 9-volt battery into your stimulator
- Step 2. Prepare your support belt
- **Step 3.** Apply electrode pads to the belt
- Step 4. Connect the snap cables
- **Step 5.** Adjust the length of the support belt
- Step 6. Put on the support belt
- Step 7. Turn the stimulator "ON", adjusting the amplitude adjustment knobs to the desired stimulation strength
- Step 8. Select the therapy mode
- **Step 9.** Select the stimulation time
- Step 10. Enjoy the benefits
- Step 11. Turn off stimulator
- Step 12. Locking and unlocking the stimulator settings
- Step 13. Viewing the therapy timer

For the details of operation, please see the following operating instructions.

