

INSTRUCTION MANUAL

FOR THE

Comfy TENS[®]



Distributed by:



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V1.1

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Chapter 1 : INTRODUCTION

EXPLANATION OF PAIN

Pain is a warning system and the body's method of telling us that something is wrong. Pain is important; without it abnormal conditions may go undetected, causing damage or injury to vital parts of our bodies.

Even though pain is a necessary warning signal of trauma or malfunction in the body, nature may have gone too far in its design. Aside from its value in diagnosis, long-lasting persistent pain serves no useful purpose. Pain does not begin until coded message travels to the brain where it is decoded, analyzed, and then reacted to. The pain message travels from the injured area along the small nerves leading to the spinal cord. Here the message is switched to different nerves that travel up the spinal cord to the brain. The pain message is then interpreted, referred back and the pain is felt.

EXPLANATION OF TENS

Transcutaneous Electrical Nerve Stimulation is a non-invasive, drug-free method of controlling pain. TENS uses tiny electrical impulses sent through the skin to nerves to modify your pain perception. TENS does not cure any physiological problem; it only helps control the pain. TENS does not work for everyone; however, in most patients it is effective in reducing or eliminating the pain, allowing for a return to normal activity.

HOW TENS WORKS

There is nothing "magic" about Transcutaneous Electrical Nerve Stimulation (TENS). TENS is intended to be used to relieve pain. The TENS unit sends comfortable impulses through the skin that stimulate the nerve (or nerves) in the treatment area. In many cases, this stimulation will greatly reduce or eliminate the pain sensation the patient feels. Pain relief varies by individual patient, mode selected for

therapy, and the type of pain. In many patients, the reduction or elimination of pain lasts longer than the actual period of stimulation (sometimes as much as three to four times longer). In others, pain is only modified while stimulation actually occurs. You may discuss this with your physician or therapist.

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.

Chapter 2: CAUTIONS

1. Federal law (USA) restricts this device to sale by or on the order of a physician.
2. Do not use this device for undiagnosed pain syndromes until consulting a physician.
3. Patients with an implanted electronic device, such as a cardiac pacemaker, implanted defibrillator, or any other metallic or electronic device should not undergo TENS treatment without first consulting a doctor.
4. Patients with heart disease, epilepsy, cancer or any other health condition should not undergo TENS treatment without first consulting a physician.
5. Stimulation delivered by this device may be sufficient to cause electrocution. Electrical current of this magnitude must not flow through the thorax or across the chest because it may cause a cardiac arrhythmia.
6. Do not place electrodes on the front of the throat as spasm of the Laryngeal and Pharyngeal muscle may occur. Stimulation over the carotid sinus (neck region) may close the airways, make breathing difficult, and may have adverse effects on the heart rhythm or blood pressure.
7. Do not place electrodes on your head or at any sites that may cause the electrical current to flow transcranially (through the head).

8. This device should not be used while driving, operating machinery, close to water, or during any activity in which involuntary muscle contractions may put the user at undue risk of injury.
9. Turn the TENS off before applying or removing electrodes.
10. Isolated cases of skin irritation may occur at the site of electrode placement following long term application. If this occurs, discontinue use and consult your physician.
11. If TENS therapy becomes ineffective or unpleasant, stimulation should be discontinued until its use is re-evaluated by a physician.
12. Keep this device out of the reach of children.
13. The Comfy TENS[®] devices have no AP/APG protection.
Do not use it in the presence of explosive atmosphere and flammable mixture.

Chapter 3 : WARNINGS

1. TENS devices should be used only under the continued supervision of a physician.
2. TENS devices have no curative value.
3. TENS is a symptomatic treatment and as such suppresses the sensation of pain, which would otherwise serve as a protective mechanism.
4. TENS is not effective for pain of central origin. (This includes headache.)
5. Electronic monitoring equipment (such as ECG monitors and ECG alarms) may not operate properly when TENS stimulation is in use.
6. Caution should be used in applying TENS to patients suspected of having heart disease. Further clinical data is needed to show there are no adverse results.
7. Electrodes should not be placed over the eyes, in the mouth, or internally.
8. Do not use while sleeping
9. Do not use during pregnancy unless directed by your physician.

Chapter 4: CONTRAINDICATIONS

1. Do not use TENS over the carotid sinus (neck) region.
2. TENS devices can affect the operation of demand type cardiac pacemakers.
3. Do not use the TENS device if you have heart disease without consulting your physician.
4. Do not stimulate on the site that may cause current to flow transcranially – (through the head).
5. Do not apply TENS for undiagnosed pain syndromes until etiology is established.

Chapter 5: ADVERSE REACTIONS

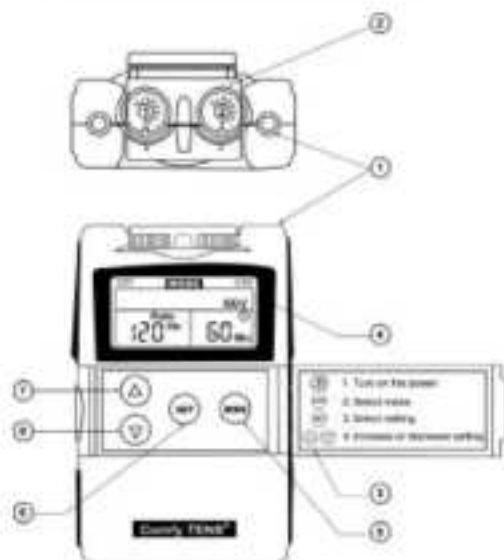
Skin irritation and electrode burns are potential adverse reactions. If skin irritation occurs, discontinue use and consult your physician.

Chapter 6: GENERAL DESCRIPTION

The Comfy TENS[®] is a battery operated pulse generator that sends electrical impulses through electrodes to the body and reaches the nerves causing pain. The device is provided with two controllable output channels, each independent of each other. An electrode pair can be connected to each output channel.

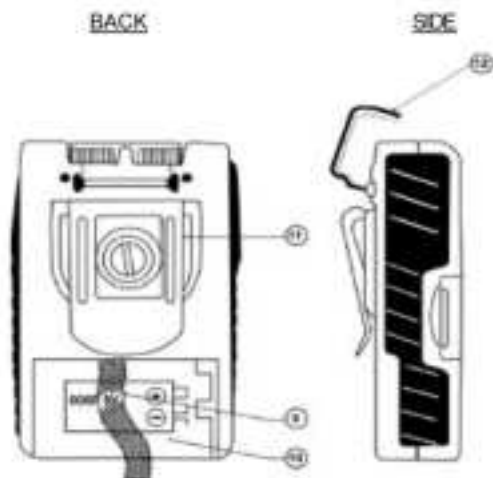
The electronics of the Comfy TENS[®] create electrical impulses whose intensity, duration, number per second and modulation may be altered with the controls/switches. Press buttons are very easy to use and the large liquid crystal display showing the exact mode and values of parameters are very convenient for patients.

Chapter 7 : CONSTRUCTION



FRONT

- (1) LEADCONNECTOR
- (2) INTENSITY CONTROL (ON/OFF SWITCH)
- (3) PANEL COVER
- (4) LIQUID CRYSTAL DISPLAY
- (5) MODE CONTROL
- (6) SET CONTROL
- (7) INCREMENT CONTROL
- (8) DECREMENT CONTROL



BACK

- (9) BATTERY STRIP
- (10) BATTERY CASE
- (11) BELTCLIP

SIDE

- (12) PROTECTIVE COVER

Chapter 8 : TECHNICAL SPECIFICATIONS

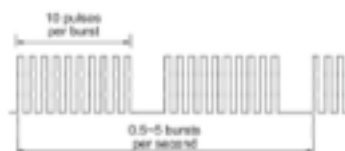
The technical specification details of Comfy TENS® are as follows:

MECHANISM	TECHNICAL DESCRIPTION
01. Channel	Dual, isolated between channels
02. Pulse Amplitude	Adjustable, 0-100 mA peak into 500 ohm load each channel.
03. Wave Form	Asymmetrical Bi-Phasic Square Pulse
04. Voltage	0 - 50V (Load: 500 ohm)
05. Power source	One 9 Volt Battery.
06. Size	10.1cm(L) x 6.1cm(W) x 2.45cm(H)
07. Weight	150 grams with battery.
08. Pulse Rate	Adjustable, from 2 to 150 Hz, 1 Hz/step
09. Pulse Width	Adjustable, from 50 to 300 μ s microseconds, 10 μ s/step
10. Modes	B(Burst), N(Normal), M(Modulation), SD1 (Strength Duration), SD2
11. Burst Mode	Burst rate: Adjustable, 0.5 – 5Hz Pulse width adjustable, 50–300 μ s Frequency fixed = 100 Hz
12. Normal Mode	The pulse rate and pulse width are adjustable. It generates continuous stimulation based on the setting value.
13. Modulation Mode	Modulation mode is a combination of pulse rate and pulse width modulation. The pulse rate and width are automatically varied in a cycle pattern. The pulse width is decreased by 50% from its original setting in 0.5 second, then the pulse rate is decreased by 50% from its original setting in 0.5 second. Total cycle time is 1 second. In this mode, pulse rate (2-150Hz) and pulse width (50-300 μ s) are fully adjustable.
14. SD1 Mode	The SD1(Strength-Duration) mode consists of automatic modulation intensity and pulse width in 40% range. The intensity is

		always increasing while the pulse width is decreasing and vice versa. The intensity is decreased by 40% while the pulse width is increased by 40% in 5 seconds. In the next 5 seconds, the intensity is increased by 40% while the pulse width is decreased by 40%. Total cycle time is 10 seconds. Pulse rate (2~150Hz) and pulse width (50~300 μ s) are fully adjustable.
15	SD2 Mode	The SD2(Strength-Duration) mode consists of automatic modulation intensity and pulse width in 70% range. The intensity is always increasing while the pulse width is decreasing and vice versa. The intensity is decreased by 70% while the pulse width is increased by 70% in 5 seconds. In the next 5 seconds, the intensity is increased by 70% while the pulse width is decreased by 70%. Total cycle time is 10 seconds. Pulse rate (2~150Hz) and pulse width (50~300 μ s) are fully adjustable.
16	Timer	Adjustable, from 1 to 60 minutes or Continuous. Adjustable in 1 minute each step from 1 to 15 minutes, and 5 minutes each step from 15 to 60 minutes. Treatment time countdown automatically.
17	Patient Compliance Meter	This unit can store 60 sets of operation records. Total recorded time is 999 hours.
18	Low Battery Indicator	A low battery indicator will show up on the LCD when the battery is low.
19	Operating Condition	Temperature: 0°–40°C Relative Humidity: 30%–75%
20	Remark	Atmosphere Pressure : 700Hpa–1060Hpa There may be a +/-5% tolerance of all parameters and +/-20% tolerance of amplitude & voltage.

The waveforms of the 5 stimulation modes are as follows.

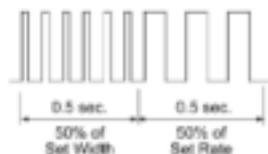
1. Burst



2. Normal



3. Modulation



4. SD1 (Strength-Duration)



5. SD2 (Strength-Duration)



Chapter 9 : REPLACEABLE PARTS

The replaceable parts and accessories of Comfy TENS[®] devices are as given below –

Except leads, electrodes, battery and battery case cover, please do not try to replace the other parts of a device.

PARTS	
01	LEAD WIRES
02	ELECTRODES
03	9V BATTERY ,TYPE 6F22
04	BELTCLIP
05	BATTERY CASE COVER
06	LEADCONNECTOR
07	MAINPCB
08	INTENSITY KNOB
09	LCD COVER
10	INTENSITY CONTROL COVER

Chapter 10 : ACCESSORIES

Each Comfy TENS[®] comes complete with standard accessories and the standard labels as given below.

I. Accessories

REF. NO.	DESCRIPTION	Q'TY
1. KF4040	40 X 40 mm Adhesive Electrodes	4 pieces
2. KB-24	Electrodes Leads	2 pieces
3. GC-01	9 V Battery, type 6F22	1 piece
4.	Instruction Manual	1 piece
5.	Carrying Case	1 piece

I. LABEL



The label attached to the back of device contains important information about this device - model name, serial number (started with manufacturing year and week of the device), supply voltage, name of the manufacturer, CE number and classification. Please do not remove.

Chapter 11 : GRAPHIC SYMBOLS

1. Degree of Electrical Protection BF
2. Do not insert the plug into AC power supply socket.
3. Timer
4. Low Battery Indicator
5. Increment
6. Decrement
7. Direct Current (DC power source)
8. Consult Instructions for use
9. Manufacturer
10. Serial Number

Chapter 12: OPERATING INSTRUCTIONS

- 1) Insert the 9V battery into the device's battery compartment. Make sure to remove the plastic seal on the 9V battery. Line up the positive and negative terminals on the battery with their corresponding terminals in the device. Make sure that both Intensity control (ON/OFF Switch) knobs are in the off position.
- 2) Insert the lead wires into the lead wire sockets on top of the device.
- 3) Open the electrode package. Then insert each lead wire pin into the pig tail of the electrodes.

- 4) Place the electrode on your body as directed by your physician.
- 5) Slowly turn on the device by rotating the Intensity control (ON/OFF Switch) knobs.
- 6) Select the mode and settings as directed by your physician.
- 7) Slowly increase or decrease the intensity as directed by your physician by rotating the Intensity control (ON/OFF Switch) clockwise to increase, counter clockwise to decrease.
- 8) After treatment, turn the device off by rotating the Intensity control (ON/OFF Switch) counter clockwise to the zero setting.

Chapter 13 : PARAMETER CONTROLS

PULSE DURATION

Wider pulse duration settings will deliver stronger stimulation for any given intensity setting. As mentioned in the Controls section, by using a combination of intensity and pulse duration, it is felt that various pulse widths are capable of stimulating different groups of nerve fibres.

The choice of which pulse duration to use is partially dependent upon the Treatment Mode and Protocol selected (refer to the appropriate section).

PULSE RATE

The Pulse Rate (hertz or pulses per second) chosen depends greatly upon the type of electrode placement given to the patient.

When using contiguous and dermatome electrode placements (i.e. stimulating directly through the area of pain or localized sensation), a quick pulse rate (setting greater than 80Hz on the Pulse Rate Control) is desired. The patient should not perceive individual pulses but rather have the sensation of steady continuous stimulation.

Despite above recommendations, each individual patient may require slight variations of the above settings, according to the nature of their condition and the direction of their physician.

TREATMENT MODE

Normal or Conventional TENS offers the practitioners complete control over all the various treatment parameters of the instrument.

Burst Mode is analogous to the Low Rate TENS technique except the low frequency individual pulses are replaced by individual "bursts" of 7-10 individual pulses. It is thus a combination of Conventional TENS and Low Rate TENS. In Burst Mode, the treatment frequency is fixed by the instrument and is not adjustable with the Frequency Rate control.

Modulated Mode attempts to prevent nerve accommodation by continuously cycling the treatment intensity. When using Modulated Mode increase the intensity only when the unit is at the maximum intensity of the modulation cycle. If the intensity is increased during a low intensity period of the modulation cycle, the patient should increase the intensity slowly until the modulation cycle reaches the maximum to insure a true maximum intensity output.

Strength-Duration Modulation (SD1 & SD2) consists of alternating modulated amplitude and width so that one parameter is always decreasing while the other is increasing and vice versa. The amplitude decreases from the amplitude control setting and returns to that setting. The width decreases from the width control setting and returns to that setting.

TIME DURATION

The onset of pain relief should occur shortly after the intensity setting has been determined. However, in some cases, pain relief may take as long as 30 minutes to achieve. TENS units are typically operated for long periods of time, with a minimum of 20 – 30 minutes and in some post-operation protocols, as long as 36 hours.

In general, pain relief will diminish within 30 minutes of the cessation of stimulation.

Chapter 14 : ATTACHMENT OF ELECTRODE

LEAD WIRES

The wires provided with the system insert into the jack sockets located on top of the device. Holding the insulated portion of the connector, push the plug end of the wire into one of the jacks (see drawing); one or two sets of wires may be used.



After connecting the wires to the stimulator, attach each wire to an electrode. Use care when you plug and unplug the wires. Jerking the wire instead of holding the insulated connector body may cause wire breakage.

CAUTION

Do not insert the plug of the patient lead wire into any AC power supply socket.

Chapter 15: LEAD WIRE MAINTENANCE

Clean the wires by wiping with a damp cloth. Coating them lightly with talcum powder will reduce tangling and prolong life.

Chapter 16 : ELECTRODE OPTIONS

The electrodes are disposable and should be routinely replaced when they start to lose their adhesive nature. If you are unsure of your electrode adhesive properties, order replacement electrodes. Replacement electrodes should be re-ordered through or on the advice of your physician to ensure proper quality. Follow application procedures outlined in electrode packing, to maintain optimal stimulation and to prevent skin irritation.

Chapter 17: ELECTRODE PLACEMENT

The placement of electrodes can be one of the most important parameters in achieving success with TENS therapy. Of utmost importance is the willingness of the physician to try the various styles of electrode placement to find which method best fits the needs of the individual patient.

Every patient responds to electrical stimulation differently and their needs may vary from the conventional settings suggested here. If the initial results are not positive, speak to your physician about alternative stimulation settings and/or electrode placements. Once an acceptable placement has been achieved, mark down the electrodes sites and the settings, so the patient can easily continue treatment at home.

CONTIGUOUS PLACEMENT

This is the most common placement technique. It involves placing the electrodes alongside the area of localized pain site, in such a way as to direct the flow of current through or around the area of pain.

In a single channel application, this would involve placing each pad on either side of the pain site if the pain is localized on a limb and deep within the tissue. Pad placement on the posterior and anterior aspects of the affected limb will allow the current to flow completely through the limb and thus through the endogenous pain site.

With a two channel application, the physician may either direct the current flow to cross through the pain site or, in what is called the "bracket" method allowing the current flow on either side of the painful area, generally through the nerve branches that feed into the pain site.

Chapter 18: TIPS FOR SKIN CARE

To avoid skin irritation, especially if you have sensitive skin, follow these suggestions:

1. Wash the area of skin where you will be placing the electrodes, using mild soap and water before applying electrodes, and after taking them off. Be sure to rinse soap off thoroughly and dry skin well.
2. Excess hair may be clipped with scissors; do not shave stimulation area.
3. Wipe the area with the skin preparation your physician has recommended. Let this dry. Apply electrodes as directed.
4. Many skin problems arise from the "pulling stress" from adhesive patches that are excessively stretched across the skin during application. To prevent this, apply electrodes from centre outward; avoid stretching over the skin.
5. To minimize "pulling stress", tape extra lengths of lead wires to the skin in a loop to prevent tugging on electrodes.
6. When removing electrodes, always remove by pulling in the direction of hair growth.
7. It may be helpful to rub skin lotion on electrode placement area when not wearing electrodes.
8. Never apply electrodes over irritated or broken skin.

Chapter 19 : APPLICATION OF RE-USABLE SELF ADHESIVE ELECTRODES

Application

1. Clean and dry the skin at the prescribed area thoroughly with soap and water prior to application of electrodes.
2. Insert the lead wire into the pin connector on the pre-wired electrodes.
3. Remove the electrodes from the protective liner and apply the electrodes firmly to the treatment site. Make sure that the unit is turned off prior to applying the electrodes.

Removal

1. Turn off the unit prior to removing the electrodes.
2. Lift at the edge of electrodes and peel; do not pull on the lead wires because it may damage the electrodes.
3. Place the electrodes on the liner and remove the lead wire by twisting and pulling at the same time.



Care and Storage

1. Between uses, store the electrodes in the resealable bag in a cool dry place.
2. It may be helpful to improve repeated application by spreading a few drops of cold water over the adhesive and turn the surface up to air dry. Over Saturation with water will reduce the adhesive properties.

Important

1. Do not apply to broken skin.
2. The electrodes should be discarded and re-ordered from your physician when they are no longer adhering.
3. The electrodes are intended for single patient use only.
4. If irritation occurs, discontinue use and consult your physician.
5. Read the instructions for use of self-adhesive electrodes before application.

Chapter 20 : ADJUSTING THE CONTROLS

1. Panel Cover:
A lid covers the controls for selecting mode and adjusting settings. Your medical professional may wish to set these controls for you and request that you leave the cover in place.

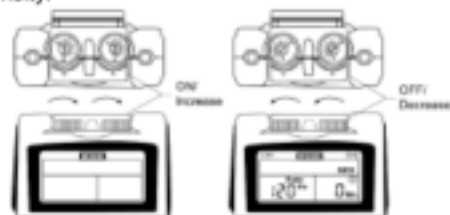


2. Power On/Off Switch and Intensity Controls:
If both controls are in the off-position, the device is switched off.
By turning the controls clockwise, the appropriate channel is switched on and the indicator of power (CH1 or CH2) will reveal on the LCD.

The current strength of the impulses transmitted to the electrodes increases further when the control is turned clockwise.

To reduce the current strength or switch the device off, turn the control counter clockwise to the required setting or off-position, respectively.

The controls are protected by a cap to avoid unintentional change of intensity.



3. Lead Connector

Connection of the electrodes is made with the two lead wires. The device must be switched off before connecting the cables. Both intensity controls must be at the Off position. Electrodes must be pressed firmly on the skin.







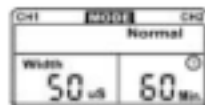
4. Mode Control

There are 5 modes available – Burst, Normal, Modulation, SD1 and SD2. The mode can be selected by pressing the “MODE” control.

5. Set Control

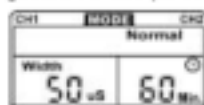
By pressing the “SET” control, you may enter the setting you intend to make adjustment. You may start to set the value by pressing the “Increment” and “Decrement” controls when the value is flashing.

6. Increment Control 
This button controls the increase of settings. When pressing this button, the parameter will increase.
7. Decrement Control 
This button controls the decrease of parameter. When pressing this button, the parameter will decrease.
8. Timer 
The unit has a timer of 1-60 minutes and Continue. It can be adjusted by pressing the “Set” and “Increment” or “Decrement” controls. The treatment time will countdown automatically one minute by one minute. Its output will be shut off when time is up.
9. Low Battery Indicator 
A low battery indicator will show up on the liquid crystal display when the battery need to be replaced as soon as possible. The unit may continue to operate for a few more hours depends on the setting intensity level.
10. Steps to Set a New Program
The settings can be adjusted according to the following steps.
 - a. Turn on the Intensity
After the electrodes are placed firmly on skin and the lead wires are plugged in the socket of device, turn the on/off control clockwise. The liquid crystal display will be light up.
 - b. Select a Mode
Select a mode by pressing the “MODE” control. The mode you select will show up on the top of liquid crystal display. There are 5 modes of your option, including –Burst, Normal, Modulation, SD1 and SD2.



c. Set Pulse Width

Pulse Width is adjustable from 50 μ s to 300 μ s. Press "SET" control to enter this menu, then press "Increment" or "Decrement" to adjust the setting. If no instructions regarding the pulse width are given in therapy, set the control to the suggested 70-120 μ s setting.



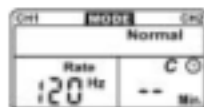
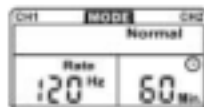
d. Set Pulse Rate

Pulse rate is adjustable from 2Hz to 150 Hz. Press "SET" control to enter this menu, then press "Increment" or "Decrement" to adjust the setting. Unless otherwise instructed, turn the pulse rate control to the 70-120 Hz setting.



e. Set Timer

Press "SET" to enter this setting. The treatment time is adjustable from 1 to 60 minutes or Continue. Press "Increment" or "Decrement" control to adjust setting. Your settings will be stored in this unit eternally unless they are adjusted again. You can set the timer to "Continuous" mode by pressing the "increment" control when it shows 60 minutes.



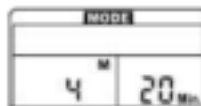
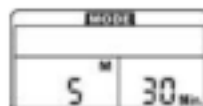
Continuous

11. Patient Compliance Meter

This unit can store 60 sets of operation records. Total treatment time up to 999 hours can be stored.

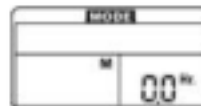
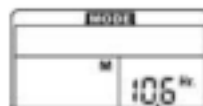
Check & Delete Individual Records

Press "Mode" control and turn on the power simultaneously. The LCD will show the number of records and operation time. Press the "Increment" and "Decrement" button to check each record. To delete a record, press "SET" control for 3 seconds.



Check and Delete Accumulative Record

At the individual records menu, press "Mode" control to switch to accumulative record menu. Press the "SET" control first, then press the "MODE" control simultaneously for 3 seconds and all of the records will be deleted followed by a beeper sound.



12. Check/Replace the Battery:

Over time, in order to ensure the functional safety of TENS, changing the battery is necessary.

1. Make sure that both intensity controls are switched to off position.
2. Slide the battery compartment cover and open.
3. Remove the battery from the compartment.
4. Insert the battery into the compartment. Note the polarity indicated on the battery and in the compartment.
5. Replace the battery compartment cover and press to close.



Chapter 21: BATTERY INFORMATION

PRECAUTIONS

1. Remove battery if equipment is not likely to be used for some time.
 2. Please recycle the used battery in accordance with domestic regulation.
 3. Do not throw the used battery into fire.
- If you use rechargeable batteries, please follow the instructions.

RECHARGEABLE BATTERIES(NOT INCLUDED)

Prior to the use of a new unit, the rechargeable battery should be charged according to the battery manufacturer's instructions. Before using the battery charger, read all instructions and cautionary markings on the battery and in this instruction manual.

After being stored for 60 days or more, the batteries may lose their charge. After long periods of storage, batteries should be charged prior to use.

BATTERY CHARGING

- (1) Plug the charger into any working 110 or 220/240v mains electrical outlet. The use of any attachment not supplied with the charger may result in the risk of fire, electric shock, or injury to persons.
- (2) Follow the battery manufacturer's instructions for charging time.
- (3) After the battery manufacturer's recommended charging time has been completed, unplug the charger and remove the battery.
- (4) Batteries should always be stored in a fully charged state.
To ensure optimum battery performance, follow these guidelines:
 - (a) Although overcharging the batteries for up to 24 hours will not damage them, repeated overcharging may decrease useful battery life.
 - (b) Always store batteries in their charged condition. After a battery has been discharged, recharge it as soon as possible. If the battery is stored more than 60 days, it may need to be recharged.

- (c) Do not short the terminals of the battery. This will cause the battery to get hot and can cause permanent damage. Avoid storing the batteries in your pocket or purse where the terminals may accidentally come into contact with coins, keys or any metal objects.
- (d) WARNINGS:
 1. Do not attempt to charge any other types of batteries in your charger, other than rechargeable batteries made for your charger. Other types of batteries may leak or burst.
 2. Do not incinerate the rechargeable battery as it may explode!

Chapter 22 : MAINTENANCE, TRANSPORTATION AND STORAGE OF THE DEVICE

1. Non-flammable cleaning solution is suitable for cleaning the device.
Note: Do not smoke or work with open lights (for example, candles, etc.) when working with flammable liquids.
2. Stains and spots can be removed with a cleaning agent.
3. Do not submerge the device in liquids or expose it to large amounts of water.
4. Return the device to the carrying box with sponge foam to ensure that the unit is well-protected before transportation.
5. If the device is not to be used for a long period of time, remove the batteries from the battery compartment (acid may leak from used batteries and damage the device). Put the device and accessories in carrying box and keep it in cool dry place.
6. The packed TENS device should be stored and transported under the temperature range of -20°C ~ + 60°C, relative humidity 20% ~ 95%, atmosphere pressure 500 hPa ~ 1080 hPa.

Chapter 23: SAFETY-TECHNICAL CONTROLS

For safety reasons, review the following checklist before using your Comfy TENS®

1. Check the device for external damage.
 - deformation of the housing.
 - damaged or defective output sockets.
2. Check the device for defective operating elements.
 - legibility of inscriptions and labels.
 - make sure the inscriptions and labels are not distorted.
3. Check the usability of accessories.
 - patient cable undamaged.
 - electrodes undamaged.
 - Battery is not corroded

Please consult your distributor if there are any problems with device and accessories.

Chapter 24 : MALFUNCTIONS

Should any malfunctions occur while using the Comfy TENS®, check

- whether the parameters are set to the appropriate form of therapy. Adjust the control correctly.
 - whether the cable is correctly connected to the device. The cables should be inserted completely into the sockets.
 - whether the LCD reveals the menu. If necessary, insert a new battery.
 - for possible damage to the cable. Change the cable if any damage is detected.
- * If there is any other problem, please return the device to your distributor. Do not try to repair a defective device.

Chapter 25: CONFORMITY TO SAFETY STANDARDS

The Comfy TENS® devices are in compliance with the EN 60601-1-2:2001 and EN 60601-1:1990+A1:1993+A2:1995+A13:1996 safety standards.

Chapter 26 : WARRANTY

All Comfy TENS® models carry a warranty of three years from the date of delivery. The warranty applies to the stimulator only and covers both parts and labor relating thereto.

The warranty does not apply to damage resulting from failure to follow the operating instructions, accidents, abuse, alteration or dis-assembly by unauthorized personnel.

Manufacturer:

Everyway Medical Instruments Co., Ltd.
3Fl., No.5, Lane 155, Sec. 3, Bei-Sheng Rd.,
Shen Keng Hsiang, Taipei Hsien 222 ,
Taiwan.

Representative in the EU:

Physio-Med Services
7-23 Glossop Brook Business Park,
Surrey Street, Glossop,
Derbyshire, SK13 7AJ, England.

INFORMATION FOR DISTRIBUTOR:

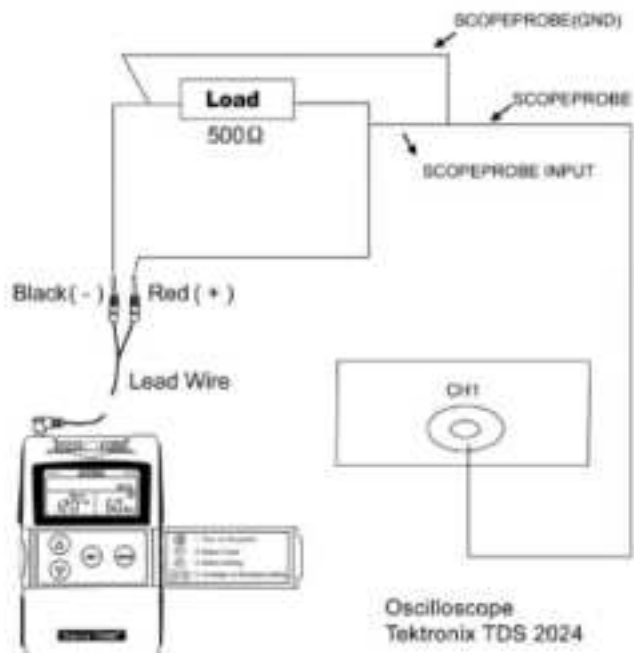
Please contact the above mentioned manufacturer for technical support and documentation when necessary.

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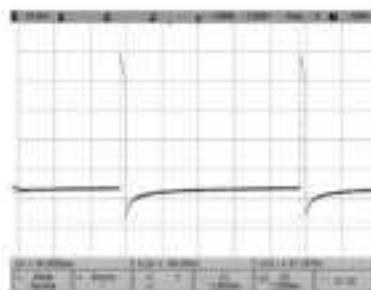
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(Appendix I) Test Environment



(Appendix II) Waveform of EV-804 Digital TENS

1. Burst Mode
Load: 500 ohm
Pulse Rate: 150Hz
Pulse Width: 300μs



Scope A :

VERT: 10.0V/DIV
HORIZ: 2mS
OUTPUT: 57.1875Vpk-pk
Pulse Rate: 100Hz



Scope B :

VERT: 10.0V/DIV
HORIZ: 50mS
Pulse Rate: 5.000Hz