



# MULTIFUNCTION IED ADAPTOR

## OPERATING MANUAL

***Before using the StressVest® Multifunction IED Adaptor, please read this manual thoroughly and retain it for future reference.***

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# 1.0 STRESSVEST® IED ADAPTOR OVERVIEW

The patent pending StressVest® (SV) IED Adaptor integrates any training IED with the StressVest® force on force firearm tactical training system's wireless StressX™ belt, allowing for the first time ever in the world, a pain penalty to be delivered to trainees during IED training exercises.



IED Adaptor sends signal to activate StressX™ belt

When the training IED is detonated it will activate the SV IED Adaptor that will send a signal (LED and/or RF) that will activate any StressVest® within the range (kill radius) set through the SV IED Adaptor. The StressVests® will then deliver either a pain penalty (shock) or vibration depending on the Training Mode they are in that was preset by the Instructor.

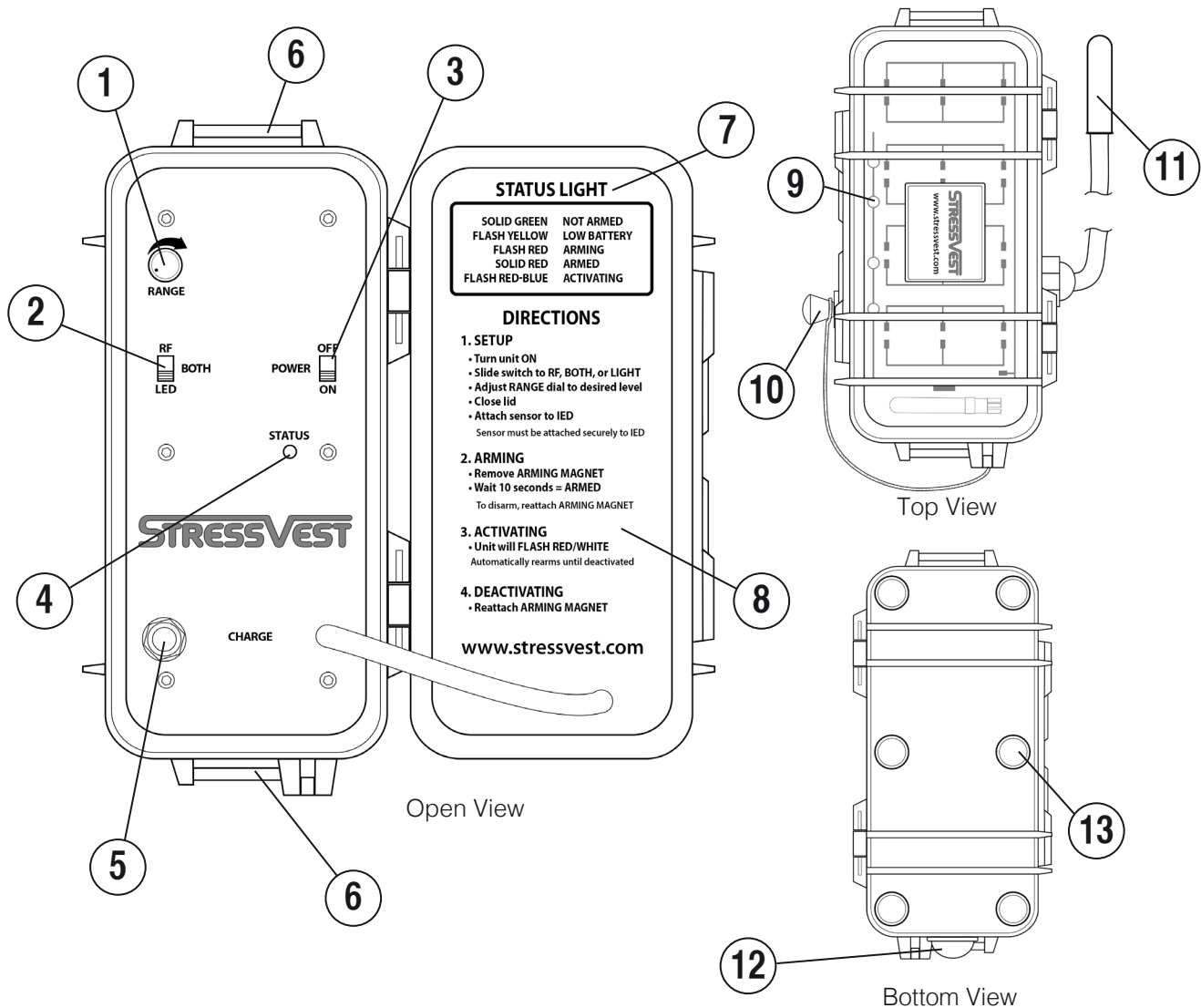


SV IED Adaptor on MILSIM FX  
Trip Wire IED



SV IED Adaptor on MILSIM FX IED

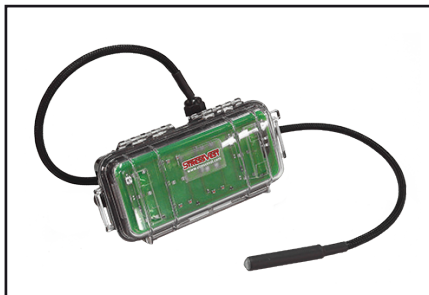
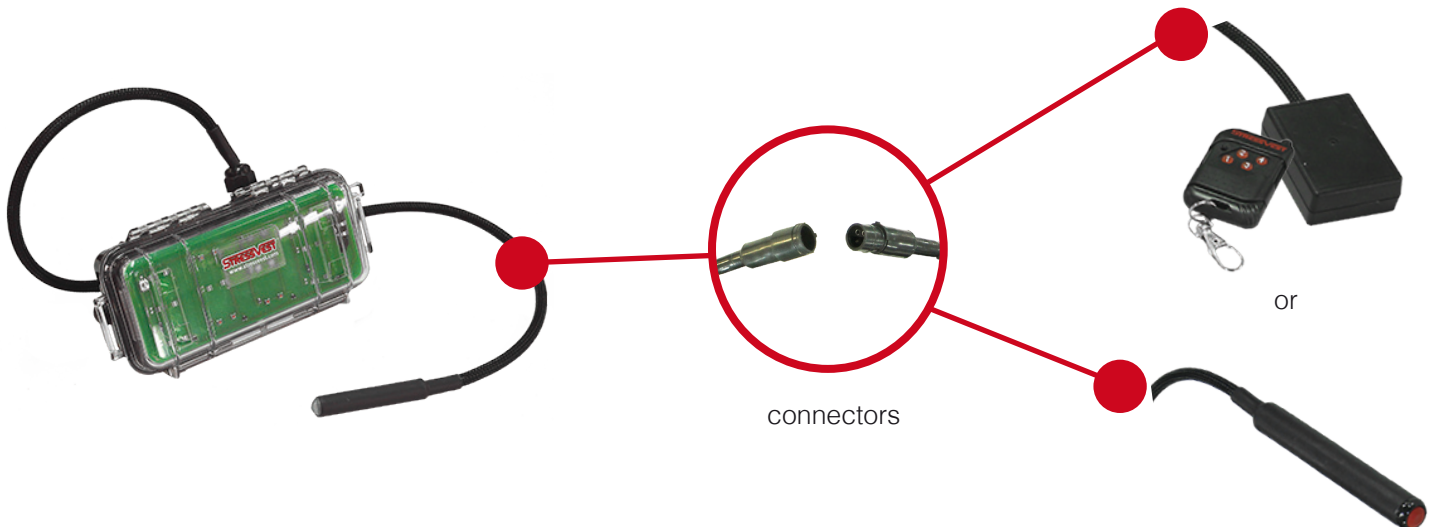
## 2.0 STRESSVEST® IED ADAPTOR PARTS



- |                           |                             |
|---------------------------|-----------------------------|
| 1. Range Dial             | 8. Instructions             |
| 2. Activation Mode Switch | 9. LED Lights               |
| 3. Power On/Off Button    | 10. Arming Magnet           |
| 4. Status Light Indicator | 11. Vibration Sensor Module |
| 5. Charging Outlet        | 12. Antenna                 |
| 6. Strap Loop             | 13. Magnetic Feet           |
| 7. Status Light Legend    |                             |

## 3.0 Activators

The StressVest Multi Function IED Adaptor comes with two interchangeable activators. To change activators simply unplug the activator from the IED Adaptor cord and re-insert a new activator by carefully lining up the pins. The activators include the following:



**Vibration Sensor Activator** - This module includes a G sensor that is activated by vibration from the detonation of the training IED. You can use this module for any training IED by attaching it via the provided velcro strap. See Section 5.0 Mounting the StressVest IED Adaptor for instructions on how to properly attach the Vibration Sensor Activator.



**Push Button Activator** - This module allows you to activate the StressVest Multi Function IED Adaptor by simply pressing the button.



**Remote Key FOB Activator** - This module allows you to remotely activate the StressVest Multi Function IED Adaptor via a Key FOB.

**Note:** Remote Keyfob Activator sold separately.



## 4.0 RANGE

The RF range at which the SV IED Adaptor sends a signal to activate the StressVests™ is adjustable from approximately 30 feet to 150 feet but it will vary greatly depending on surroundings and placement of both the SV IED Adaptor and the StressVest®'s. The following will affect the range of the RF:

### 4.1 Directional Placement of SV IED Device

For maximum range have the RF Antenna (12) facing toward the trainees.

### 4.2 Line of Sight or Physical Barriers



The IED Adaptor will achieve maximum range line of sight without any physical barriers. Walls, floors, bodies, equipment, vehicles, furniture, etc. will all attenuate the RF signal and reduce the range.

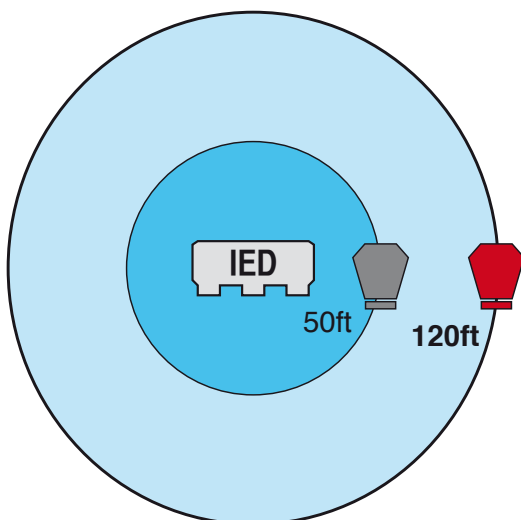


The Range Dial (1) adjusts left to right, with the far left position being minimum and the far right position being maximum.


### MAXIMUM RANGE GUIDELINES

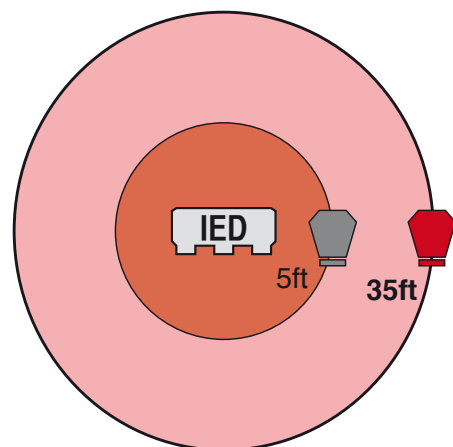
#### Range Dial Set to Maximum

-  With StressX™ Belt Facing Away (40-60ft)
-  With StressX™ Belt Facing Towards (120-150ft)



#### Range Dial Set to Minimum

-  With StressX™ Belt Facing Away (0-5ft)
-  With StressX™ Belt Facing Towards (35-40ft)



**Note:** When adjusting the RF Range lower once powered up, You will need to activate it twice to allow IED adaptor to adjust to lower level.

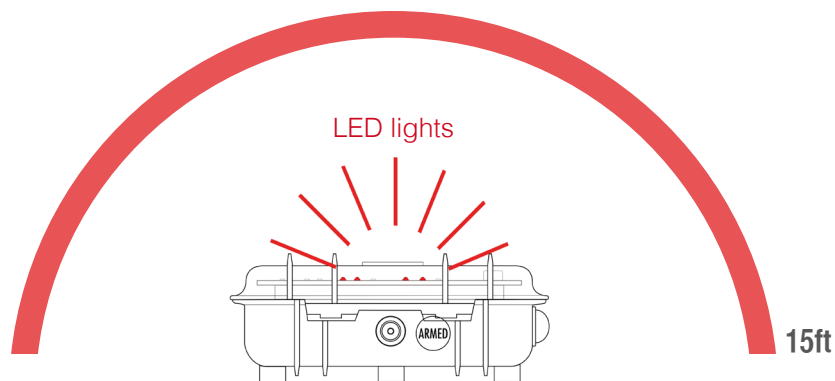
### 4.3 Vehicles

With the SV IED Adaptor on Maximum Range, and a StressVest® wearer in the drivers seat in a vehicle, the effective range is approximately 30 - 50ft. This will vary greatly by vehicle type and environment.

### 4.4 LED (Light) Mode Range

When activated in LED Mode, the SV IED Adaptor will emit a short LED flash from the LED Lights on the top of the adaptor. The primary purpose of this mode is to provide a visual cue that the IED Adaptor has activated.

In addition, for some closed room, close quarter scenarios, this LED flash will activate any StressVests® within line of sight to a range of approximately 15 feet depending on the position of the SV IED Adaptor. To achieve maximum range, the front face with the LED lights of the SV IED Adaptor must be perpendicular to the ground and face outward toward the targeted StressVests®.

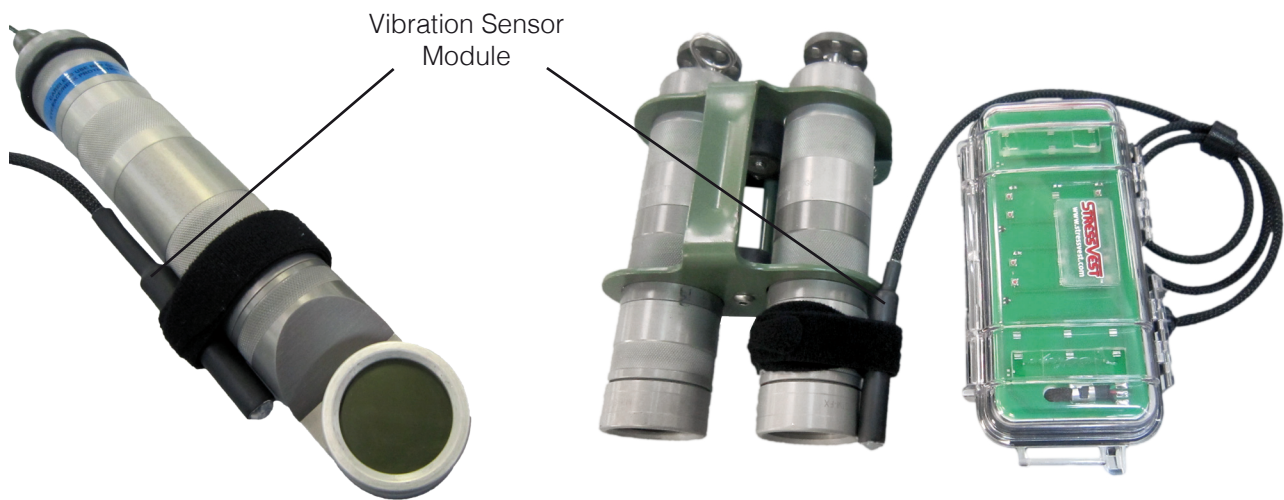


## 5.0 MOUNTING THE STRESSVEST® IED ADAPTOR

The SV IED Adaptor can be mounted on or simply placed next to an IED Training device.

### 5.1 Attaching the Vibration Sensor Module

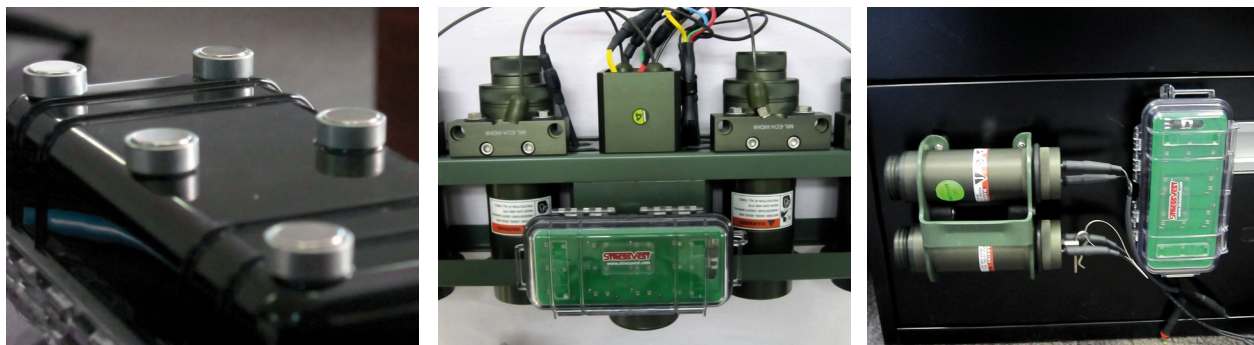
Vibration Sensor Module (11) must be firmly attached to the Training IED via velcro strap (provided) or some other means (tape, elastics, etc.).



**Note:** Be sure Vibration Sensor Module is secured to training IED as snug as possible to ensure activation.

### 5.2 Magnetic Feet

The SV IED Adaptor comes with six Magnetic Feet (13) that can be used to attach the device to any metallic object.





## 6.0 RF & LED ACTIVATION MODES

The SV IED Adaptor has been specifically designed to suit a variety of training circumstances and objectives. It has three distinct activation modes that can be selected through the Activation Mode Switch (2).

### 6.1 RF Activation Mode

When activated, the SV IED Adaptor Antenna (12) will send a distinct RF signal to the kill radius (range) that was set by the Range Dial (1). All StressVest® StressX™ belts in that range will be activated and deliver the appropriate pain penalty or vibration.

### 6.2 LED Activation Mode

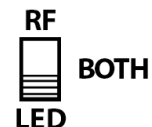
When activated the SV IED Adaptor will emit a short LED flash from the LED Lights (9) of the adaptor. This LED flash will activate any StressVest®'s in the line of sight to a range of about 15 feet depending on the position of the SV IED Adaptor and environment. For maximum range, the front face with the LED Lights (9) of the SV IED Adaptor must be perpendicular to the ground and face outward toward the targeted StressVest® StressX™ belts. All StressVest® StressX™ belts in that range will be activated and deliver the appropriate pain penalty or vibration.

### 6.3 Both

When activated the SV IED Adaptor Antenna (12) will send both a distinct RF signal and emit a LED flash from the LED Lights (9) of the adaptor. All StressVest®'s in the preset RF range and within line of sight and range of the LED Lights (9) will be activated and deliver the appropriate pain penalty or vibration.

### 6.4 Setting the Activation Modes

The SV IED Adaptor can be placed in RF, LED or Both modes by moving the Activation Mode Switch (2) to the desired level. When set to RF or LED and activated it will register one Hit on the StressVest® StressX™ belt. If set to Both RF and LED it will register two Hits on the StressVest® StressX™ belt.



**Note:** When changing between activation modes, allow for 1-2 activation before new setting takes affect.

## 7.0 OPERATING INSTRUCTIONS

The Status Light Indicator (4) will quickly tell you what state your SV IED Adaptor is in by illuminating certain colors. The Status Light Legend (7) at the top of the right hand side of the SV IED Adaptor when opened, provides a quick reference as to what those states are. These will be very helpful as you setup, arm, and disarm the unit.

STATUS LIGHT	
SOLID GREEN	NOT ARMED
FLASH YELLOW	LOW BATTERY
FLASH RED	ARMING
SOLID RED	ARMED
FLASH RED-BLUE	ACTIVATING

Status Light Legend

### 7.1 Attaching the Vibration Sensor Module (12) to Training IED

1. Using the velcro strap, attach the Vibration Sensor Module (12) to the training IED. Be sure it is firmly attached to the training IED.

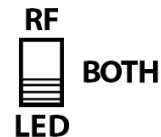


### 7.2 Turning the SV IED Adaptor On

2. Slide the Power On / Off Button (3) to the On position

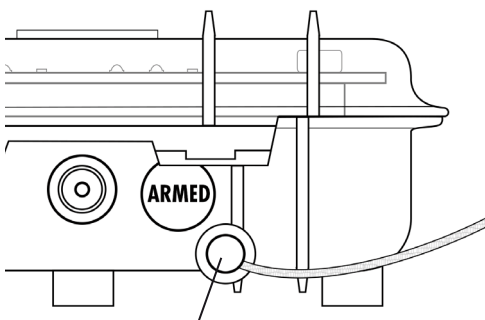
### 7.3 Preparing the SV IED Adaptor

3. Slide the Activation Mode Switch (2) to RF, BOTH, or LIGHT
4. Adjust the Range Dial (1) to the desired level

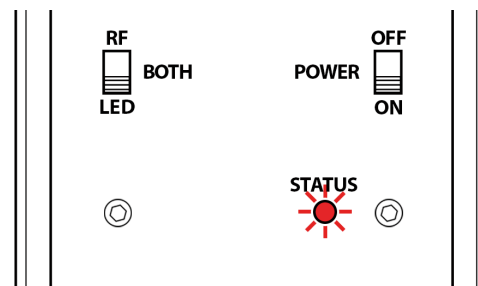


### 7.4 Arming the SV IED Adaptor

5. Remove the Arming Magnet (10) from the side of the SV IED Adaptor
6. The Status Light Indicator (4) will Flash Red for 10 seconds.
7. After 10 seconds the Status Light Indicator (4) will turn solid red indicating the SV IED Adaptor is now armed.



Arming Magnet



Solid Red Status Light Indicates Armed

**Note:** Once armed any movement above the vibration threshold of the Vibration Sensor Module (12) will activate the SV IED Adaptor.

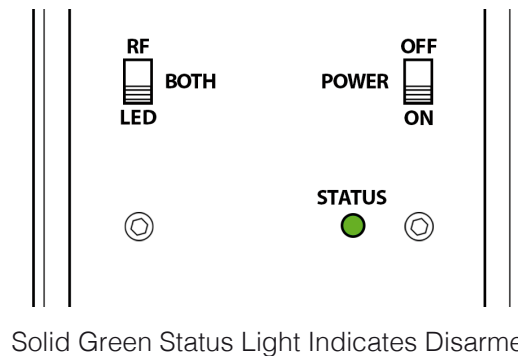
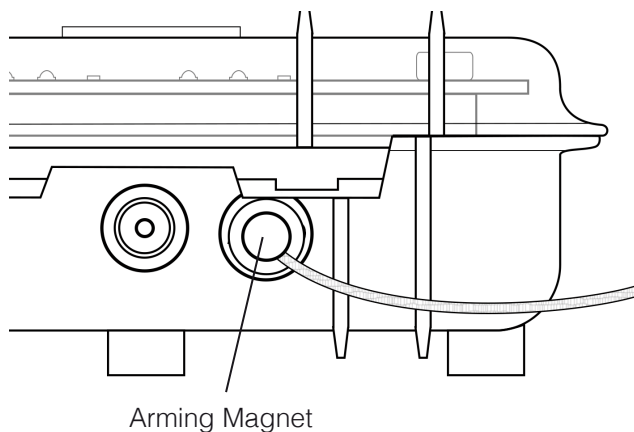
**Note:** When setting up the SV IED Adaptor to affect a certain range (kill radius), try activating the unit by tapping the top of the Vibration Sensor Module (12) against a solid object in conjunction with placing a StressVest® that is set in vibrate mode a certain distance away. Test this and adjust the Range Dial (1) setting appropriately to determine the effective range of the unit in your environment until it is set to your desired distance and activating the StressVest®.

## 7.5 Activating the SV IED Adaptor

8. Once activated the Status Light Indicator (4) will Flash Red/White. Depending on the Activation Mode Switch (2) setting the SV IED Adaptor will emit either an RF and/or an LED light flash.
9. The SV IED Adaptor will automatically rearm until de-activated.

## 7.6 De-Activating / Disarming the SV IED Adaptor

10. Return the Arming Magnet (10) back to the side of the SV IED Adaptor (place over ARMED red sticker).
11. The Status Light Indicator (4) will return to Green.



## 8.0 CLEANING & MAINTENANCE

The StressVest® IED Adaptor is designed to be relatively maintenance free. Other than charging the battery, little ongoing maintenance is required.

### 8.1 Power Supply & Battery Charging

The StressVest® IED Adaptor is powered by a single 3.7 volt rechargeable battery that should last for approximately eight hours before needing recharging. Battery life may vary depending on usage.



### 8.2 Cleaning

Although the StressVest® IED Adaptor is designed to be maintenance free, owners should ensure it is periodically cleaned and disinfected. Owners should wipe the StressVest® IED Adaptor with a small amount of non-corrosive cleaning solution periodically. Alcohol wipes with 70% or less alcohol or any antibacterial wipe would be acceptable. Wipe dry after cleaning.

**Note:** When cleaning the StressVest® IED Adaptor, ensure that you NEVER submerge the electronics in water.

## **9.0 TROUBLESHOOTING StressVest® IED Adaptor**

### **9.1 IED Adaptor is NOT Activating When IED is Detonated**

1. Be sure the Vibration Sensor Module (12) is firmly attached to the training IED. Reattach the Vibration Sensor Module (12) and try again.
2. Check Power On/Off Button (3) on the IED Adaptor and be sure unit is turned on and the battery is still charged.
3. Check the Activation Mode Switch (2) and be sure it is on BOTH or LED. If the unit is on RF it will not show a visible flash as it will if it is in BOTH or LED mode. Tap the Vibration Sensor Module (12) on a solid surface and see if the unit activates/flashes.
4. Ensure that the Arming Magnet (7) is removed from the side of the SV IED Adaptor. Once it is, remember that the Status Light Indicator (4) will Flash Red for 10 seconds prior to arming. If you try to activate the IED Adaptor prior to this 10 second period it will NOT detonate.
5. If the SV IED Adaptor still does not activate, please contact StressVest® Inc. at 1-866-353-5055 or email [info@stressvest.com](mailto:info@stressvest.com).

### **9.2 StressX™ Belt is NOT Activating When IED Adaptor is Activated**

1. Check Power On/Off Button (3) on the IED Adaptor and the StressX™ Belt and be sure both units are turned on and the batteries are charged.
2. Be sure the StressX™ Belt is within the range of the IED Adaptor. Try either increasing the Range (1) of the IED Adaptor or moving the StressX™ Belt closer to the IED Adaptor. Remember that any items between the IED Adaptor and StressX™ Belt such as walls, vehicles, floors, or bodies will reduce the effective range of the device.
3. Ensure that the StressX™ Belt is tight. Adjust the straps to increase tension if required.
4. If the StressX™ Belt still is not activated by the IED Adaptor, please contact StressVest® Inc. at 1-866-353-5055 or email [info@stressvest.com](mailto:info@stressvest.com).

### **9.3 IED Adaptor Will Not Power On**

1. Check to be sure the battery is still charged in the IED Adaptor. If the Power On/Off Button (3) will not turn on it needs to be charged.
2. If it will still not Power On, please contact StressVest® Inc. at 1-866-353-5055 or email [info@stressvest.com](mailto:info@stressvest.com).



## 9.4 Testing the IED Adaptor for Range or Activation without IED Detonation

1. Turn On and Arm the IED Adaptor and turn on a StressX™ belt and set on vibrate for testing.
2. Holding the Vibration Sensor Module (12) tap it against any solid surface and the IED Adaptor should activate along with the StressX™ belt that is within the Range set.
3. Continue activating the IED Adaptor by tapping the Vibration Sensor Module (12), at the same time moving further away or closer to the StressX™ Belt set on vibrate. page 14
4. If the SV IED Adaptor still does not activate at all, please contact StressVest® Inc. at 1-866-353-5055 or email [info@stressvest.com](mailto:info@stressvest.com).

## 9.5 IED Adaptor Activated Twice or More in Succession

1. The IED Adaptor will automatically re-arm itself after detonation allowing for multiple activations. If you do not properly Disarm (See Section 7.6) the IED Adaptor, it will activate upon any sudden shocks or movements to the Vibration Sensor Module (12) until it is disarmed.
2. It is recommended that you reattach the Arming Magnet (7) to the side of the SV IED Adaptor (place over ARMED red sticker) immediately after the scenario is over and prior to handling the IED or IED Adaptor.

**Note:** Never attempt to service any part of the StressVest® system. Contact StressVest® Inc at 1-866-353-5055 or email [info@stressvest.com](mailto:info@stressvest.com).

## 10.0 STRESSVEST® WARRANTY TERMS AND CONDITIONS

### Who is covered:

- This limited warranty ("warranty") is given only to the original end-use/retail purchaser (referred to in this warranty as "Original Purchaser") of the accompanying product, consumables and accessories (collectively referred to in the warranty as "this Product").
- If you purchased the product from someone other than an authorized StressVest® reseller or if the product was used (including but not limited to floor models or refurbished product) prior to your purchase, you are not the Original Purchaser and the product that you purchased is not covered by this warranty.

### What is covered:

- This Product includes a Training Vest including Controller with Shock/Vibrator device, and Accessory Items. Accessory Items include but are not limited to the carrying case.
- Except as otherwise provided herein, StressVest® Inc warrants that the Training Vest including Controller with Shock/Vibrator device and Accessory Items will be free from defects in material and workmanship, when used under normal use as defined in the written instructions that accompanied the product at time of purchase, provided that the disclosed defect is determined by StressVest® Inc to be StressVest® Inc's fault.

### What is the length of the warranty periods:

- StressVest®, Controller with Shock/Vibrator device: one year from original purchase date.
- Accompanying Accessory items: 90 days from the original purchase date.

### What is not covered:

This warranty does not cover:

1. Physical damage to this Product deemed to be normal wear and tear;
2. Damage caused by improper or abnormal use, misuse, neglect or accidental (including but not limited to transporting this Product without the proper preparation and/or packaging);
3. Damage caused by another device used with this Product; and
4. Problems arising from other than defects in material and workmanship.

The limited warranty is void and StressVest® Inc shall not be responsible for any loss, damage or for any other liabilities arising from alterations, additions, adjustments or repairs which are made to the product by other than authorized representatives of StressVest®.

### What to do if you think your Product is eligible for warranty service:

To make a warranty claim, you must first verify that your StressVest® is within its active one year warranty period. To validate your warranty status, check the date on your original invoice.

### What StressVest® will ask you to do to receive warranty service:

Supply StressVest® Inc with a copy of your dated bill of sale showing the date that the Product was purchased. To register a claim, first obtain a Return Authorization ("RA") number within the warranty period from StressVest® by mail, email [info@stressvest.com](mailto:info@stressvest.com), or toll free telephone number at 1 866-353-5055. After contacting StressVest®, you will be required to send the Product properly packaged, freight prepaid, to StressVest® Inc. Mail the defective StressVest® including Controller with Shock/Vibrator Device and/or accompanying Accessory Items with postage prepaid together with a photocopy of your bill of sale and written description of the defect to: StressVest® Inc., 1080 Kingsbury Avenue, Winnipeg, Manitoba, Canada, R2P 1W5, Attn: Warranty Department. Please note the RA number on the outside of the package. Please provide your name, address, and phone number of where to return the repaired items. Failure to provide the required information may delay the return of the repaired items. You are responsible for the cost of shipping, packing the Product, and insurance (if you desire). You are also responsible for loss or damage to the Product in shipping.

### What StressVest® will do:

If the problem reported concerning your StressVest® system, accompanying Consumables and Accessory

Items is covered by this warranty and if you first reported the problem to StressVest® within the acceptable warranty period, StressVest® sole responsibility will be to repair or replace the StressVest® system, accompanying Consumables and Accessory Items at no charge to you for parts or labor. The decision as to whether to repair or replace the StressVest® System and/or accompanying Consumables and Accessory Items is made by StressVest® at their sole discretion. The repaired or replacement StressVest® System and/or accompanying Consumables and Accessory Items will be returned to you freight prepaid.

If the StressVest® System and/or accompanying Consumables and Accessory Items are not covered by this warranty you will be contacted and charged for shipping the StressVest® System and/or accompanying Accessory Items back to you and charged for any service and/or replacement parts/products at StressVest®'s then current published rates after your written approval.

### **Limitations and Exclusions**

StressVest® is not responsible for damage to or loss of any equipment related to the use of this Product. Except for that repair or replacement as described above, StressVest® shall not be liable for any direct, indirect, incidental or consequential damages or specific relief. Because some states do not allow the exclusion or limitation of consequential or incidental damages the above limitation may not apply to you.

THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, WHETHER EXPRESSED BY AFFIRMATION, PROMISE, DESCRIPTION, DRAWING, MODEL OR SAMPLE. ANY AND ALL WARRANTIES OTHER THAN THIS ONE, WHETHER EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED. IF THE EXCLUSION OF IMPLIED WARRANTIES IS PROHIBITED BY STATE LAW, THEN ANY APPLICABLE IMPLIED WARRANTIES SHALL BE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY DESCRIBED ABOVE AND OTHER PROVISIONS CONTAINED HEREIN.

- This Limited Warranty is the only warranty that StressVest® is giving for this Product. It is the final expression and the exclusive and only statement of StressVest®'s obligations to you. It replaces all other agreements and understandings that you may have with StressVest® or its representatives.
- The Limited Warranty (and StressVest®'s obligation to you) may not be changed in any way unless you and StressVest® Inc sign the same piece of paper in which we (1) refer to this Product and your bill of sale date, (2) describe the change to this warranty and (3) agree to make that change.

### **Release and Limitation of Remedies**

PURCHASER AGREES TO ASSUME ALL RISKS OF LOSS AND AGREES TO RELEASE StressVest® FROM ANY AND ALL LIABILITY FOR ANY DAMAGES AND BODILY INJURY WHICH MAY RESULT FROM THE USE OR MISUSE OF THE PRODUCT BY THE PURCHASER OR ANY OTHER PERSON. StressVest® IS NOT LIABLE FOR THE FAILURE OF THE PRODUCT TO PERFORM AND StressVest® IS NOT LIABLE FOR ANY CLAIMS MADE BY A THIRD PARTY OR BY PURCHASER FOR OR ON BEHALF OF A THIRD PARTY. StressVest®'S CUMULATIVE LIABILITY TO ANY PARTY FOR ANY LOSS OR DAMAGES RESULTING FROM ANY CLAIMS, DEMANDS, OR ACTIONS ARISING OUT OF OR RELATING TO THIS PRODUCT SHALL NOT EXCEED THE PURCHASE PRICE PAID TO SHOCKNIFE FOR THE PRODUCT. IN NO EVENT WILL StressVest® BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED, WHETHER FOR BREACH OF WARRANTY, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, EVEN IF StressVest® HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR IF SUCH DAMAGE COULD HAVE BEEN REASONABLY FORESEEN, AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY EXCLUSIVE REMEDY PROVIDED HEREIN. SOME STATES DO NOT ALLOW FOR THE LIMITATION OR EXCLUSION OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL

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**Patents: U.S. Patent, Patents Pending and International Patents Pending**