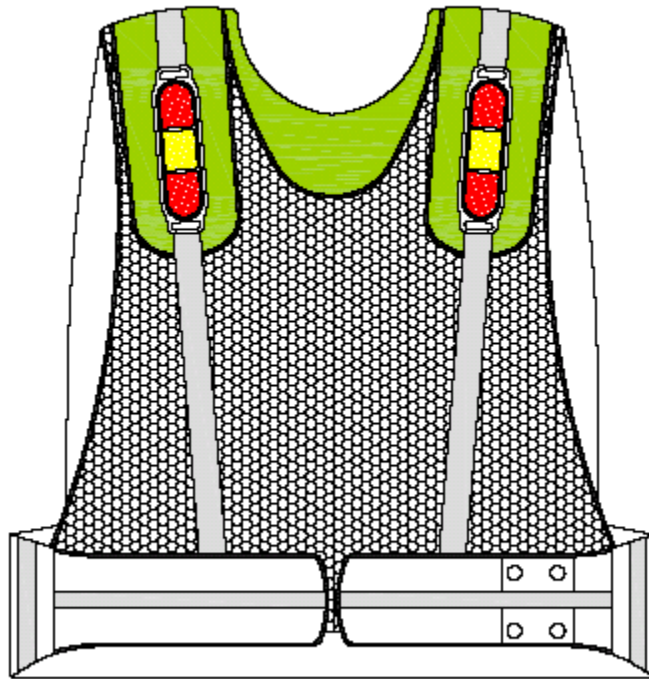




SIGNAL LIGHT VEST – *SGT 1600 Series*



USER GUIDE

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IMPORTANT NOTICE

➤ **Copy Rights**

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➤ **Trade Mark Rights**

SIGZEEN™ is a trademark of SIGNAL AND BE SEEN SAFETY EQUIPMENT INC.

➤ **Patent Rights**

SIGZEEN™ Signal Light Vest is patented in USA and other Countries.

➤ **FCC 15 and RSS 210**

314 Mhz Remote Controller (Transmitter and Receiver)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

IMPORTANT INSTRUCTIONS

Congratulations on your purchase of the SIGZEEN™ Signal Light Vest SGT 1600 series.

Your SIGZEEN RF Remote Control Signal Light Vest is specifically designed to be seen on the road when you are riding a non enclosed vehicle. This Vest includes many features such as a Yield Signal, Hazard Signal and Turning Signals.

The Signal Light Vest is shipped with all electronic components inserted with complete connections. Do not remove any of the electronic components from the Vest except for replacement and washing purposes. You must read and understand the User Guide before removing any of the components.

This Signal Light Vest SGT 1600 User Guide contains very important information about how to handle and use the product. Be sure to read this User Guide in its entirety paying special attention to the sections **WARNING**, **CAUTION** and **ATTENTION**.

Please note that the Signal Light Vest 1600 series is only to be used in Canada. For product information on other countries contact Signal and Be Seen Safety Equipment Inc.

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PATENT RIGHTS	i
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WARNING

IT IS IMPORTANT TO NOTE THAT THE SPECIFIC TURNING LIGHTS ARE DESIGNED FOR YOU TO BE SEEN ON THE ROAD. THEREFORE, YOU MUST USE HAND SIGNALS WHEN YOU ARE GOING TO STOP, TURN OR CHANGE LANES.

IF YOU ARE NOT AWARE OR YOU ARE NOT ABLE TO USE LEGALIZED HAND SIGNALS FOR ANY REASON, DO NOT WEAR THIS SIGNAL LIGHT VEST.

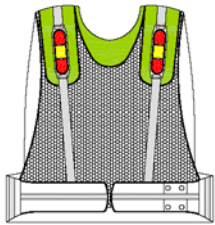
YOU MUST WEAR THE WRISTBANDS ON BOTH HANDS WHEN YOU ARE USING THE SIGNAL LIGHT VEST.

YOU MUST READ THE USER GUIDE AND UNDERSTAND THE TURNING LIGHTS OPERATION SYSTEM BEFORE USING THE SIGNAL LIGHT VEST.

THIS “SIGZEEN” SIGNAL LIGHT VEST SHOULD NOT BE USED BY CHILDREN UNDER EIGHT, UNLESS ADULT SUPERVISION IS PRESENT.

1. CHECKING THE PACKAGE CONTENTS

➤ Make sure your package includes the items shown here



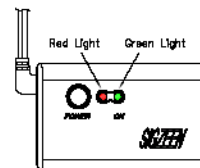
1 Signal Light Vest



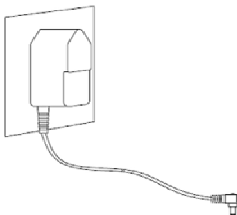
2 Wristbands



1 Remote Controller



1 Battery Pack

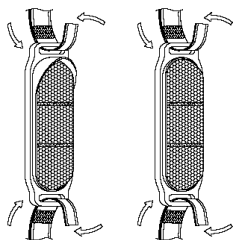


1 Switching Adaptor

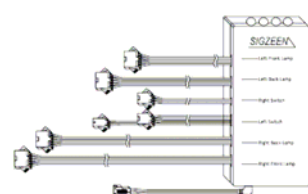


1 Carrying Bag

➤ Please check if the following items are inserted in the Vest



4 Signal Lamps



1 Main Controller



1 Speaker

2. IMPORTANT SAFEGUARDS

	WARNING VARIOUS LABELS ARE ATTACHED TO THE SIGNAL LIGHT VEST AND TO THE ELECTRONIC COMPONENTS TO DRAW YOUR ATTENTION TO SPECIFIC SAFETY AND MAINTANANCE ISSUES. YOU MUST READ AND GIVE ATTENTION TO THESE ISSUES BEFORE YOU USE THE SIGNAL LIGHT VEST.
---	---

	The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.
---	---

ATTENTION
Your SIGZEEN TM Signal Light Vest is inserted with a sophisticated electronic operating system. In order to ensure the correct operating and proper maintaining system, you must read and fully understand all the information before you use the Vest.

CAUTION!
TO REDUCE THE RISK OF PRODUCT DAMAGE: • Do not break the seals on any electronic components. • Do not remove screws on any electronic components. • Do not open covers on any electronic components. • Do not repair yourself, refer service to our company recommended personal.

2. IMPORTANT SAFEGUARDS

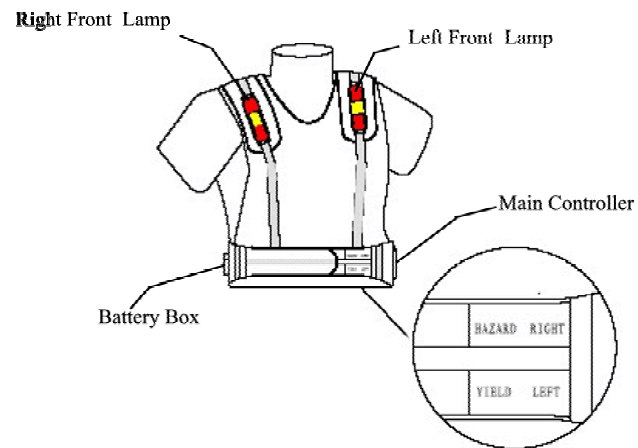
When using the Signal Light Vest, basic safety precautions should be followed including the following:

1. All the safety and operating instructions should be read and understood before the Signal Light Vest is used and operated.
2. **This safety and operating instructions should be retained for further reference.**
3. Follow all warnings and instructions marked on the product.
4. This unit must operate only with “**SIGZEEN™**” 3.7 Volts rechargeable Li battery pack.
5. **DO NOT USE ANY OTHER BATTERIES.** The Signal and Be Seen Safety Equipment Inc., has no knowledge of the performance of the Signal Light Vest when used with any batteries other than **SIGZEEN™** Li battery pack. This is specifically designed for **SIGZEEN SGT 1600** series.
6. You should recharge the battery pack every 8 hours for continues operation or according to manufacturers’ operating instructions.
7. The wires that are routed inside the Vest are not likely to be bent, paying particular attention to wires, connectors and the point where they connect is important.
8. Do not operate the system with damaged wires or after the system malfunctions or is damaged in any manner. Return the system to the nearest authorized service facility for examination, repair or electronic adjustment, or call the appropriate toll free number listed on this manual.
9. Turn OFF power when not in use.
10. To protect the system from a lightning storm, switch OFF the system from the battery ON/OFF switch. This will prevent damage to the system due to lightning.
11. Do not use the Signal Light Vest during a lightning storm.
12. Never touch terminals and connectors unless the power is OFF.
13. When replacement parts are required, be sure to use replacement parts specified by the manufacturer.
14. Do not allow anything to rest on the Signal Light Vest or any part of the system.
15. Do not expose the product to extreme temperatures such as areas near a hot radiator or stove or in a hot car.

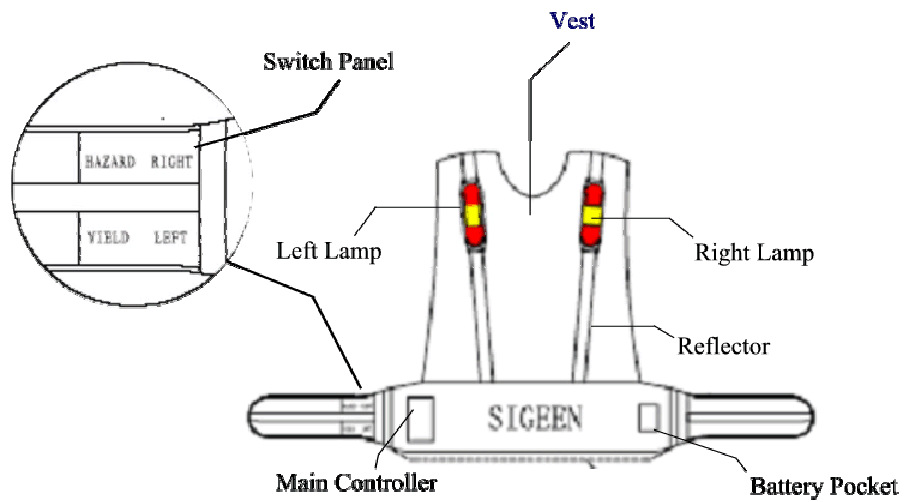
16. Do not use this system in extreme cold weather conditions. The system may not work in extreme cold conditions.
17. Do not immerse the Vest in water, remove all electronic components from the Signal Light Vest before washing. Follow washing instructions.
18. Do not clean any electronic parts such as Battery Box, Main Controller, Switch Panels, Lamps or Speaker etc.

3. UNDERSTANDING THE SYSTEM

➤ Front View of the Vest

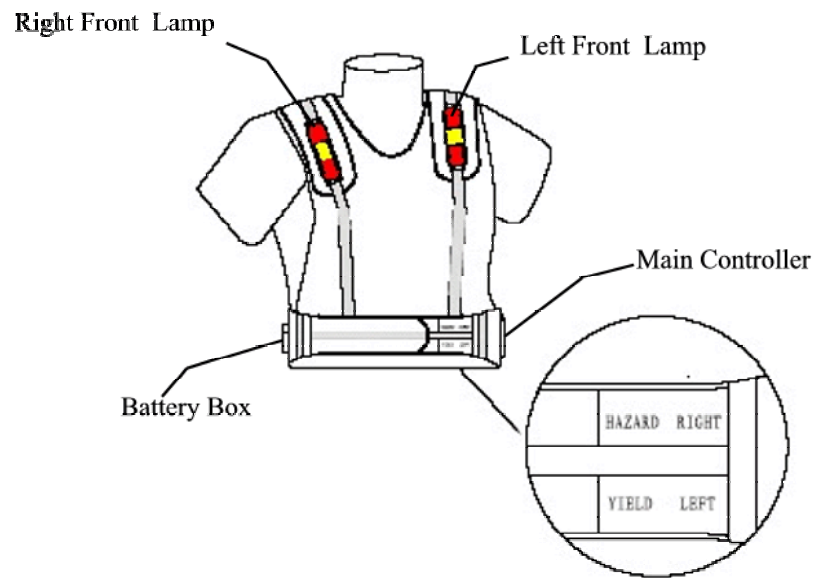


➤ Back View of the Vest

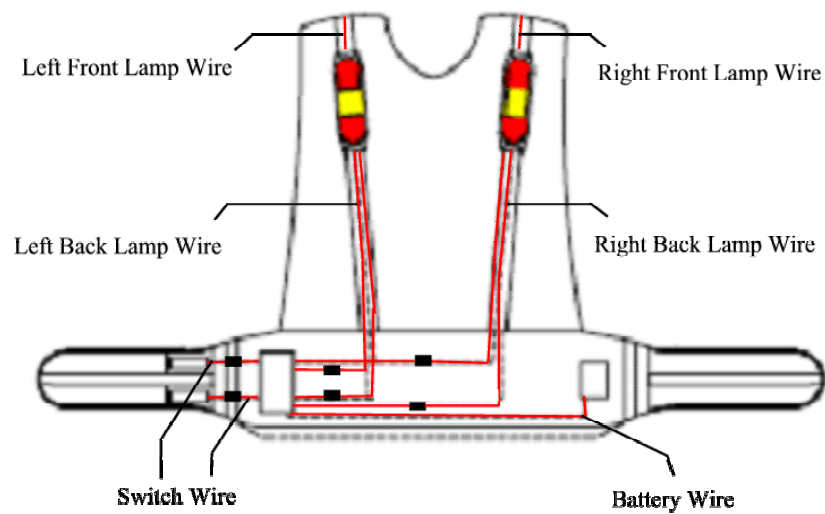


3. UNDERSTANDING THE SYSTEM

➤ Wire Diagram - Front View



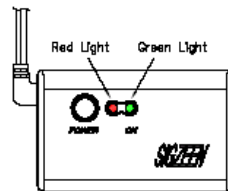
➤ Wire Diagram - Back View



4. BATTERY USAGE

- Use only the specified **SIGZEEN 3.7V Li rechargeable battery pack**.
- Do not expose to heat or flame.
- Do not take apart or short-circuit.
- Mishandling of batteries can cause damage to the system.
- Disconnect the batteries if the Signal Light Vest is not going to be used for a long period of time (10 days).
- Store in a cool dark place.
- Dispose of the batteries according to local laws.

Signal and Be Seen Safety Equipment Inc. has no knowledge of the performance of the Signal Light Vest when used with any batteries other than the SIGZEEN 3.7V Li battery pack, therefore makes no warranty of the performance of the Signal Light Vest, when used with any other batteries other than the SIGZEEN Li battery pack or when the SIGZEEN Li battery pack is altered or modified in any manner.

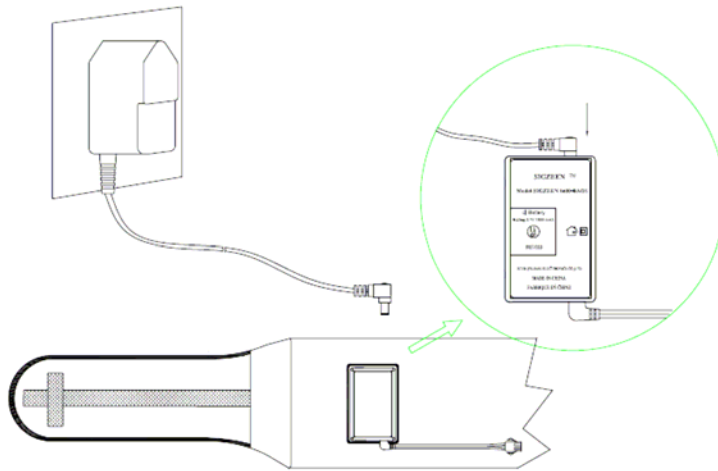


- The green LED indicates power is ON.
- The flashing green and red LED indicates battery needs recharging.
- Flashing red LED indicates, you must recharge the batteries.

ATTENTION: When the battery is low all the lights on the Signal Light Vest remain Steady ON. If the system remains Steady ON you must stop using the Signal Light Vest until batteries are fully recharged.

CAUTION: Do not open or mutilate the battery pack, this may cause damage to the system, also personal injuries.

5. HOW TO CHARGE THE BATTERY PACK



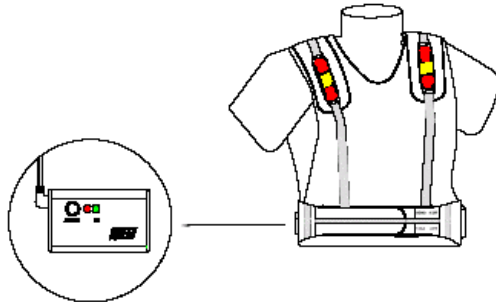
- Make sure Power is OFF before you recharge the battery.
- Keep the Vest on a flat surface.
- Unzip the Waistband Zipper.
- Plug the AC adaptor into the power jack on the side of the battery box and other end into an electrical outlet. The charging indicator light in the battery box verifies the battery is charging.
- The Red LED in the charger indicates charging is in progress.
- The Green LED in the charger indicates charging is completed.

If the Red LED does not illuminate when charging, check the power connection and make sure the adapter is properly connected to the battery box.

FULLY CHARGE THE BATTERY PACK BEFORE USING – BATTERY PACK IS NOT CHARGED AT THE TIME OF PURCHASE.

6. TURNING THE SYSTEM ON/OFF

ON/OFF SWITCH



You can operate the ON/OFF system by pressing the power button located on the battery pack.

➤ Turn ON

- Press and hold **Battery Power** button to an angle until (a) **Front White lights**, (b) **Back Red lights** on the Vest illuminate (YIELD SIGNAL).

➤ Turn OFF

- Press and hold the **Battery Power** Button to an angle until all lights in the Vest ~~go~~ turn OFF.

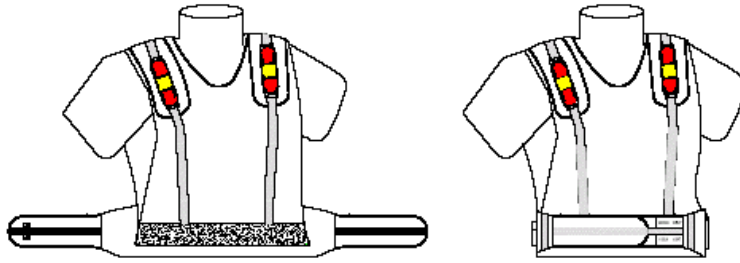
➤ When the battery is low one or all of the following will occur:

- All the lights on the Vest illuminate without flashing.
- You will hear a beep sound.
- You will not be able to control the signals.
- Green or Red or both lights in the battery box will start blinking.

WARNING

- DO NOT OPERATE ON/OFF SWITCH WHILE RIDING OR MOVING. THIS MAY DISTRACT YOU AND MAY LOOSE YOUR BALANCE.
- DO NOT WEAR THE VEST WHEN THE BATTERIES ARE ON LOW POWER.

7. HOW TO WEAR THE VEST



- Wear the Vest securing both ends of the Waistband on to the front Velcro strip.
- Do not wear the Signal Light Vest without securing properly.
- Unsecured Vest may damage the electronic system, also may cause serious personal injury.



WARNING

- **YOU MUST WEAR THE WRISTBANDS ON BOTH HANDS WHEN YOU ARE WEARING THE SIGNAL LIGHT VEST.**
- **NOTE THAT WRISTBANDS ARE PART OF THE SIGNAL LIGHT VEST SYSTEM.**

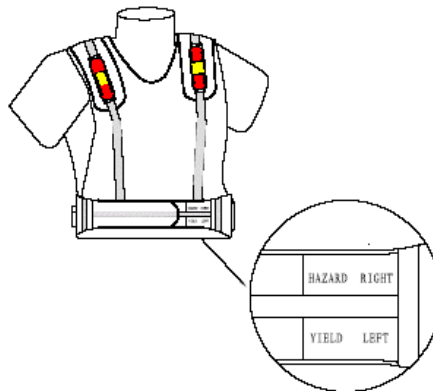
8. HOW TO OPERATE THE SIGNAL LIGHT VEST

SIGZEEN™ SGT1600 series operates on a Remote Control operation system and a manual switch control system as well. Decide which controls you prefer to use. SIGZEEN recommends the remote control system.

➤ Remote Control Operation



➤ Manual Operation



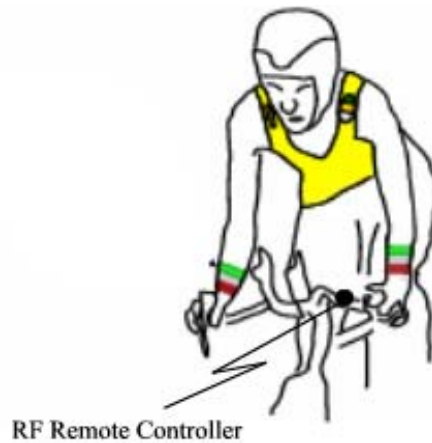
WARNING

NOTE: Always use the Remote Control operating system, unless Remote Control system is not functioning properly.

When manual switch system is used,

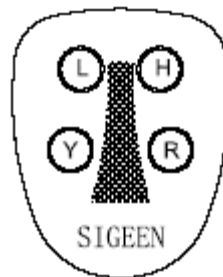
- Do not operate or use turn signals.
- Do not operate any switches while riding.

9. REMOTE CONTROL OPERATION



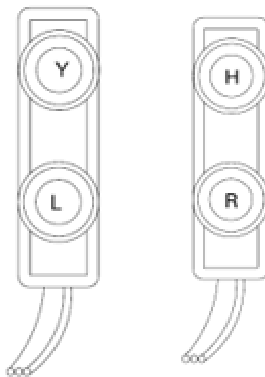
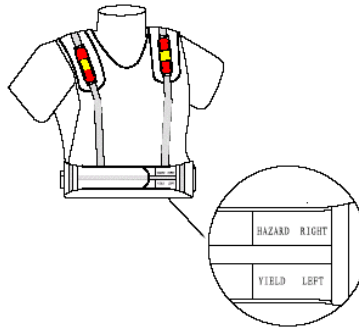
Your SIGZEEN Signal Light Vest is equipped with an RF Remote Control advance technology to give you an easy access to control your signal lights while you are riding. However, it is important to note that you must use legalized hand signals when you need to turn or stop.

Your remote control operating system allows you to operate the following signals.



- Y - Yield Signal
- H - Hazard Signal
- L - Left Turn Signal
- R - Right Turn Signal

10. MANNUAL SWITCH OPERATION



- Y - Yield Signal
- L - Left Signal
- H - Hazard Signal
- R - Right Turn Signal

11. SIGNAL FUNCTIONS

➤ YIELD SIGNAL – WHEN YOU ARE MOVING

Following lights flash in an intermittent manner:

- Front Left – Top white and bottom white lights.
- Front Right – Top white and bottom white lights.
- Back Left – Top red and bottom red lights.
- Back Right – Top red and bottom red lights.

➤ **HAZARD SWITCH**

Following lights flash in an intermittent manner:

- Front Left – yellow and white lights.
- Front Right – yellow and white lights.
- Back Left – yellow and red lights.
- Back Right – yellow and red lights.

➤ **LEFT TURN SIGNAL**

Following lights will flash in an intermittent manner and Steady ON:

FLASH

- Front Left – yellow lights.
- Back Left – yellow and red lights

STEADY ON

- Front Left / Right – white lights
- Back Right – red lights.

➤ **RIGHT TURN SIGNAL**

Following lights will flash in an intermittent manner and Steady ON:

FLASH

- Front Right – yellow lights
- Back Right – yellow and red lights

STEADY ON

- Front Right / Left – white lights
- Back Left – red lights.

12. SPECIAL SIGNAL INSTRUCTIONS

WARNING - LEFT TURN SIGNAL

When you are ready to turn left , you must obey the following instructions.

LEFT TURN SIGNAL

- **First** - Activate left turn signal in advance.
- **Second** – Use legalized hand signal.
- **Third** – When you complete the turn, switch on to the “Yield Signal”
this will automatically switch OFF the turning signal.

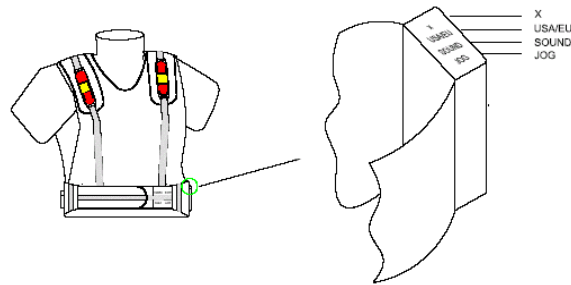
WARNING - RIGHT TURN SIGNAL

When you are ready to turn right, you must obey the following instructions.

RIGHT TURN SIGNAL

- **First** - Activate right turn signal in advance.
- **Second** – Use legalized hand signals.
- **Third** – When you complete the turn, switch on to the “Yield Signal”
this will automatically switch OFF the turning signal.

13. MODE FUNCTIONS



Your Signal Light Vest has 4 functional modes in the Main Controller. To activate any one of these modes press one of the buttons. To go back to the original mode press again.

“X” Mode

- All lights on the Signal Vest remain Steady ON

USA/EU and USA Mode

- USA Mode – Red lights flash in intermittent manner.
- EU Mode - Red lights remain Steady ON

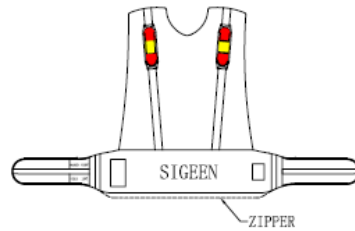
SFX Mode

- **SFX” ON** - “clicking sound” activates during operation of the hazard, left turn and right turn signals.
- **“SFX” OFF** - “clicking sound” shuts off during operation of the hazard, left turn and right turn signals.

JOG Mode

- **JOG” OFF** - The system will go back to “YIELD” mode.
- **“JOG” ON** - This will flash all front white and back red lights.
- The other modes will not activate when “JOG” mode is in ON position.
- **Make sure the “JOG” mode is in OFF position before you use any other modes or signals.** If you have problems to operate any other modes or signals, switch OFF the system from the battery pack for a 1 minute and switch ON again.

14. HOW TO REMOVE THE MAINCONTROLLER

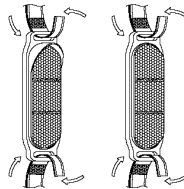


- Lay the Vest on a flat surface.
- Unzip the Waistband from the bottom.
- Open the wire-pocket.
- Connectors are inside the wire pocket
- Carefully pull out each connection from the Connector. (DO NOT PULL HARD)

15. HOW TO INSERT THE MAINCONTROLLER

- Place the Main Controller inside the pocket.
- Securely place the Main Controller on the Velcro in the pocket to avoid slipping off during any movements.
- Connect the Main Controller directly to the Lamps, Switches, Speaker and the Battery Box.
- Make sure to match wires with appropriate color coding.
- Remember to zip the pocket properly.

16. HOW TO REMOVE THE SIGNAL LAMPS

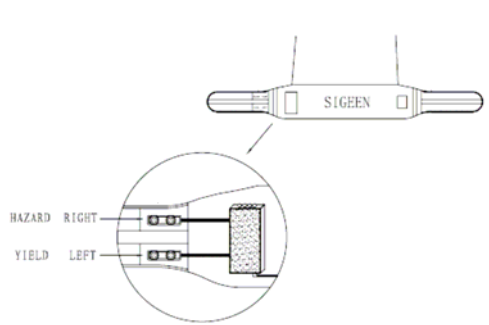


- Release each strap from Velcro.
- Pull out the strap from the lamp cover.
- Remove the lamp from the Vest..
- Disconnect the connector and pull the lamp out.

17. HOW TO INSERT THE SIGNAL LAMPS

- Pass the wire through Vest button hole.
- Place the lamp between the two straps.
- Pass the strap through the button hole and secure the strap with the Velcro.
- Connect the lamp connector with the Main Controller connectors.
- Remember to select the specific color code.

18. HOW TO REMOVE THE SWITCH PANEL



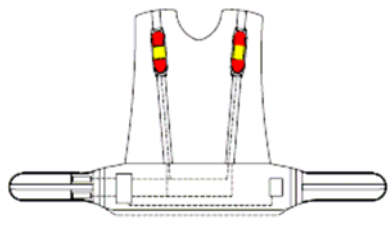
- Open Waistband pocket by unzipping the zipper.
- Disconnect the connectors from the switch panel.
- Carefully pull the switch panel out from inside pocket.

19. HOW TO INSERT THE SWITCH PANEL

Insert the switch panel inside the waistband switch pockets, placing letters to match with wordings in the following manner:

- Y – Yield
 - L – Left
 - R – Right
 - H - Hazard
-
- Connect the switch connectors with the Main Controller connectors.
 - Make sure to follow proper color coding.

20. INSERT WIRES THROUGH THE VEST



- Place the Vest on a flat surface facing inside pockets.
- Unzip the Waistband pocket.
- Insert the Main Controller.
- Attach the battery holder and pass the wire through the hole.
- Attach the lamps and pass the wires through the holes.

21. DISCONNECT – CONNECT CONNECTORS



Make sure to select the corresponding color code.

- Press hard on both sides of the connector.
- Pull the top connector from the bottom connector while pressing .
- If the connector is hard to take out, sway the top connector left to right while pulling out.
- DO NOT PULL THE CONNECTORS FROM THE WIRES.
- To connect, insert the top and bottom connectors.
- Be sure to select the proper color coding.

➤ BATTERY AND MAIN CONTROLLER CONNECTOR

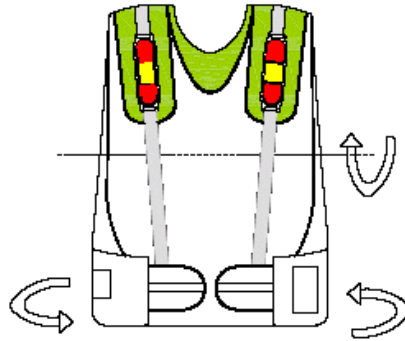
- Make sure to insert correct sides of the connectors as shown above for the system to function correctly.
- Push both ends of the connectors until it locks.
- Do not insert incorrect side as this may damage the system.

22. HOW TO PACK THE VEST

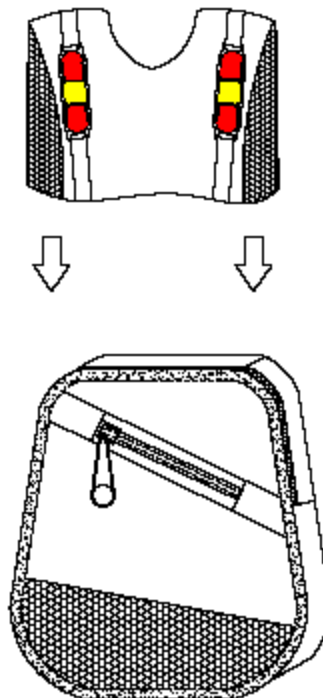
Before storing the SIGZEEN Vest, ensure the system is off and properly folded according to instructions.

FOLDING INSTRUCTIONS

➤ Folding



➤ Packing



23. MAINTENANCE

If the Signal Light Vest needs to be washed, follow the washing instructions:

1. IMPORTANT: Before you start washing you must remove all the electronic components from the Vest. This includes the Battery Pack, Main Controller, Lamps, Switches and Speaker.

Please follow the instructions **“How to remove and insert electronic components”**

- Hand wash in cold water.
- Do not use Chlorine bleach.
- Hang to dry after removing excess water.
- Do not iron or press.
- Do not dry clean.
- Never clean any of the electronic components such as Battery Holder, Main Controller, Lamps, Switches, Speaker or wires.
- **Do not immerse the vest in water with the electronic components.**

24. PRODUCT SERVICE

Before you send the unit out for servicing, refer to the following checklist to prevent an unnecessary service call.

- Check that the battery is fully charged.
- A red light on the Battery Pack indicates battery needs to be recharged.
- Check that all the connectors are properly connected.
- Refer to trouble shooting.
- If there is still a problem, contact an authorized service facility.

➤ Servicing

- Do not attempt to service or repair any electronic components of the Signal Light Vest by yourself or at any facility other than an authorized service facility.
- Ask the service technicians for a performance -test to determine that the system is in proper operating condition.

24. PRODUCT SERVICE

➤ Replacement Parts

Any of the electronic components in the Vest can be replaced. When parts need replacing ensure that you use only those parts specified by the manufacturer. Unauthorized substitutes may result in damage to the system.

25. LIMITED 1 YEAR WARRANTY

Signal and Be Seen Safety Equipment Inc. warrants this product against any defects that are due to faulty material or workmanship for a one year period after the original purchase. During this period Signal and Be Seen Safety Equipment Inc., will repair or replace a defected product or part at their option, with a new or refurbished product or part without charge to you. **WARRANTY DOES NOT COVER** normal wear and tear or cosmetic damage. Warranty also **DOES NOT COVER** damage occurred in shipment or which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, or damage that is attributable due to an act of God.

ALL IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM DATE OF ORIGINAL PURCHASE. TO THE EXTENT ALLOWED BY LAW, SIGNAL AND BE SEEN SAFETY EQUIPMENT INC., SHALL NOT BE RESPONSIBLE FOR LOSS OF THE PRODUCT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, SPECIAL OR CONSEQUENTIAL DAMAGES.

The provisions of this warranty are in addition to and not a modification of or subtraction from the statutory warranties and other rights and remedies contained in applicable provincial legislation.

Signal and Be Seen Safety Equipment Inc. reserves the right to make changes in design of this Signal Light Vest without obligation to incorporate such changes into previously manufactured components.

No person or representative is authorized to assume for the Company any liability other than stated herein in connection with the sale of this product.

Signal and Be Seen Safety Equipment Inc. has no knowledge of the performance of the Signal Light Vest when used with any batteries other than the SIGZEEN Li battery pack, therefore makes no warranty of the performance of the Signal Light Vest, when used with any other batteries other than the SIGZEEN LI batteries or when the SIGZEEN LI battery pack is altered or modified in any manner.

26. CUSTOMER SERVICE

For product information, operating assistance, dealer locations, and all customer service inquiries please contact:

1- 866 -926 1954 or 604 924 0091 Monday – Friday 9 am to 9 pm; Saturday and Sunday 9 am to 7 pm (Pacific Time), or e-mail: product@sigzeen.com

SIGNAL AND BE SEEN SAFETY EQUIPMENT INC.

North Vancouver, British Columbia

Canada. V7H 1E9

E-mail: info@sigzeen.com

27. TROUBLE SHOOTING

Problem	Possible Answer	Suggestion
System is not working	• Power is off. • Battery connection is not correct or battery wire is disconnected.	• Check the battery power is ON • Check the battery wires are connected properly. • Disconnect the battery connector and connect again
JOG mode is ON cannot be changed to any other modes.	• The system is in JOG mode.	• Press JOG mode button to switch Off JOG mode. • Turn OFF the system for 5 second, then switch ON again.
All Lamps illuminate and Steady ON. Cannot change to any other signals.	• The system is in “X” mode. • Batteries are low power	• Change the mode pressing “X” button to default mode. (Yield Signal) • Recharge the battery pack..
Lamps are not working properly.	• Connectors are not properly connected.	• Check if connectors are properly connected. • Check connectors are connected in right side with proper color code.
Back Red Lights are Steady ON mode and not flashing.	• You are in European mode.	• Press USA/EU button and set the system to USA mode.
Low volume or unusual sounds.	• Battery are low	• Recharged the batteries immediately.

27. TROUBLE SHOOTING

Problem	Possible Answer	Suggestion
When turn signals are ON, the clicking sound is not activated.	• The sound has been switched OFF.	• Press SFX button to activate the sound.
The Remote Controller not working.	• Remote batteries are weak. • Remote Controller position is incorrect.	• Change the position of the Remote. • Replace the Remote battery. • Turn OFF the system and wait for 60 second, then switch ON.
When charging the Battery, the red indicator light is not illuminate.	• Wall plug is not plugged properly. • Charger adaptor is not properly connected with the battery pack.	• Check if the charger adaptor is properly plugged into the Battery Box. • Check adaptor is properly plugged.
The green light on the Battery Box is flashing.	• Battery has a low power	• Recharge the battery immediately.
The red light on the battery box is flashing	• Battery has a low power	Recharge the battery immediately

SIGZEEN™ SIGNAL LIGHT VEST – SGT1600 Series