

# WRAPS™

*Wireless Remote Audio Perimeter Sharing System*



**OPERATING MANUAL VERSION:  
WRAPS-OPS-051816**

## TABLE OF CONTENTS

TOPIC/DESCRIPTION	PAGE #(S)
Introduction/Features	1
Battery Charging/Maintenance	2-3
Transceiver Base Station, Remote Transceiver Belt Pack & Multi-Extension Amplifier Box Battery Installation	4
Remote Transceiver Belt Pack Overview	5
WRAPS™ System Set-Up/Deployment Overview	6-10
Programming New/Additional Remote Transceiver Belt Packs to the Transceiver Base Station	11

## INTRODUCTION/FEATURES:



### ***Allow Multiple Team Members to Wirelessly Monitor Crisis Negotiations & Communicate With One Another in Real-Time!***

- Transceiver Base Station Produces an Omni-Directional Wireless Communications Field/Network with a Diameter of 700 ft. (210m)+.
- Operators Positioned Within the Wireless Communications Field/Network Can Both Wirelessly Monitor Crisis Negotiations or Other Audio Signals as Well as Simultaneously Talk & Listen to One Another in Real-Time. *NOTE: Communications taking place between the operators do NOT feedback into the negotiations or other audio signal being monitored.*
- Digital Spread Spectrum (DSS) Secured Audio Transmission.
- Remote Transceiver Belt Pack's Rechargeable Battery Provides a 10 hour (approx.) Run Time.
- Compatible with Virtually ANY Hostage/Crisis Negotiations or Communications System/Device Equipped with an Audio Output Jack.
- Expandable: Transceiver Base Station Supports up to (8) Remote Transceiver Belt Packs. *NOTE: Additional Remote Transceiver Belt Packs May be Purchased Separately at ANYTIME in the future.*
- Portable: All System Components/Accessories are Battery Powered and Are Delivered in a Hard-shell Transport/Storage Case.

## BATTERY CHARGING/MAINTENANCE:

The WRAPS™ System's is delivered with multiple rechargeable battery packs that are used to power the System's "Transceiver Base Station" as well as the "Remote Transceiver Belt Pack(s)." These rechargeable batteries are charged via the provided "Battery Charge Station."



**"Transceiver Base Station" Rechargeable Battery Pack**



**Rechargeable Battery Pack installed into "Remote Transceiver Belt Pack"**



**Battery Charge Station**

When the rechargeable battery pack of the "Transceiver Base Station" is fully charged, it is capable of powering the component for approx. (6) hours.

The "Transceiver Base Station" is also capable of being powered by connecting the component to an external wall outlet power supply via the provided "Transceiver Base Station A/C Power Adapter." If the "Transceiver Base Station" is connected to a wall outlet power supply, the rechargeable battery pack does *NOT* need to be installed. However, if a rechargeable battery pack is installed when the "Transceiver Base Station" is connected to external power, the battery will enter a charge cycle (if needed) and will trickle charge after a full charge has been reached.

The "Transceiver Base Station" is also capable of being powered by installing the provided "Emergency Non-Rechargeable Battery" into the component. This allows for the "Transceiver Base Station" to continued to be used in the event that the component's rechargeable battery pack is *NOT* charged or if the component is unable to be connected to external power. To use the "Emergency Non-Rechargeable Battery Pack," install (5) fresh/new AA alkaline batteries (not included) into the pack. **IMPORTANT NOTE: TO PREVENT FIRE HAZARD/EQUIPMENT DAMAGE NEVER ATTEMPT TO RECHARGE ALKALINE BATTERIES OR PLACE THE "EMERGENCY NON-RECHARGEABLE BATTERY PACK" ON THE "BATTERY CHARGE STATION."**

When the rechargeable battery pack of a "Remote Transceiver Belt Pack" is fully charged, it is capable of powering the component for approx. (10) hours.

### IMPORTANT NOTE:

*To maximize the ability for the WRAPS™ System's rechargeable battery packs to properly maintain a charge, please follow the "BATTERY CHARGING/MAINTENANCE" provide prior to initial operations and consequently each time the rechargeable batteries have been used.*

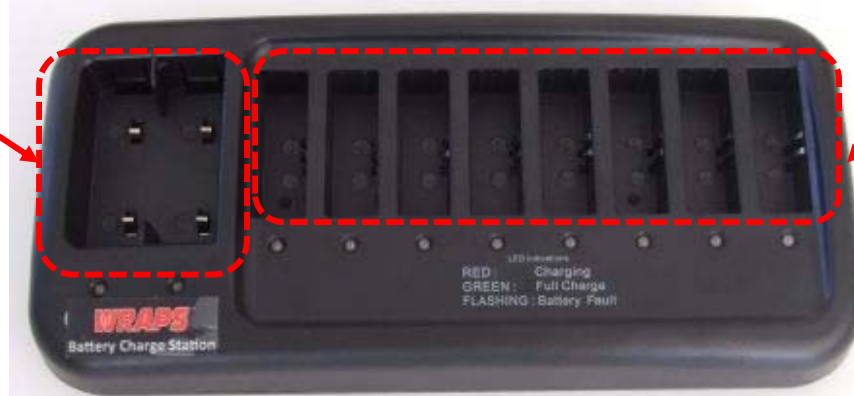
*The initial charge time for the rechargeable battery packs is approx. (6) hours. The consequential charge time for the rechargeable battery packs is approx. (2) to (4) hours.*

## BATTERY CHARGING/MAINTENANCE:

To charge the WRAPS™ System's rechargeable battery packs, please follow these steps:

1. Connect the plug end of the **"Battery Charge Station AC Power Adapter"** into a 120v electrical wall outlet.
2. Insert the pin end of the **"Battery Charge Station AC Power Adapter"** into the power port located on the **"Battery Charge Station."**
3. Insert the **"Transceiver Base Station Battery Pack"** into any of the (2) larger charging slots located on the left side of the **"Battery Charge Station"** in accordance to polarity (+/-). **NOTE:** The battery pack(s) should snap into the charging slot securely. When properly inserted, the LED located below the charging slot in which the rechargeable battery pack has been inserted will turn on to indicate the status of the battery pack.
4. Insert the **"Remote Transceiver Battery Pack(s)"** into any of the (8) smaller charging slots located the **"Battery Charge Station"** in accordance to polarity (+/-).
5. Once a rechargeable battery pack is fully charged (LED located below respective charging slot turns **green**), lift upwards to remove the rechargeable battery pack from the charging slot of the **"Battery Charge Station."**

Transceiver  
Base Station  
Battery Pack  
Charging Slots



Remote  
Transceiver Belt  
Pack Battery Pack  
Charging Slots

Battery Charge Station

### "BATTERY CHARGE STATION" CHARGING SLOT LED INDICATORS

LED Color	Status
Green	Fully Charged
Red	Charging
Red Flashing	Faulty Battery
No Light	Battery Improperly Inserted

## TRANSCEIVER BASE STATION, REMOTE TRANSCEIVER BELT PACK & MULTI-EXTENSION AMPLIFIER BOX BATTERY INSTALLATION:

### "Transceiver Base Station" Battery Installation:

1. Insert the rechargeable "**Transceiver Base Station Battery Pack**" into the battery slot located on the rear of the "**Transceiver Base Station.**" **NOTE:** The battery pack should snap into place securely.



Transceiver Base Station  
(Rear View)

### "Remote Transceiver Belt Pack" Battery Installation:

1. Place the rechargeable "**Remote Transceiver Battery Pack(s)**" into the battery slot(s) located on the front of the "**Remote Transceiver Belt Pack(s).**"
2. Press the battery pack inwards until it snaps into place securely. **NOTE:** A **blue LED** located on the "**Remote Transceiver Belt Pack**" will turn on to indicate that the battery pack has been properly installed and that the unit LED is active/receiving power. To power off, press and hold down the device's "**POWER**" button until the **blue** turns off.



Remote Transceiver Belt Pack  
(without battery installed)



Remote Transceiver Belt Pack  
(with battery installed)



Remote Transceiver Belt Pack  
LED Indicator



Remote Transceiver Belt Pack  
Power Button

The WRAPS™ System's "**Multi-Extension Amplifier Box**" is powered by (2) 9v non-rechargeable alkaline batteries (included).

To install the 9v batteries include the "**Multi-Extension Amplifier Box,**" please follow these steps:

1. Remove/slide out each of the battery compartments located on the rear of the "**Multi-Extension Amplifier Box.**"
2. Insert (1) 9v battery into each of the battery compartments, checking that each battery has been inserted properly in respect to polarity (+/-).
3. Re-insert/slide in each battery compartment back into the rear of the component.



Multi-Extension Amplifier Box

### REMOTE TRANSCIVER BELT PACK OVERVIEW:

#### A. Power On/Off Button:

Powers on/off unit. To power on, press once. **NOTE:** Blue "Power/Network Status LED" will turn on to indicate unit is receiving power. To power off; press/hold downwards until "Power/Network Status LED" turns off then release.

#### B. Power/Network Status LED:

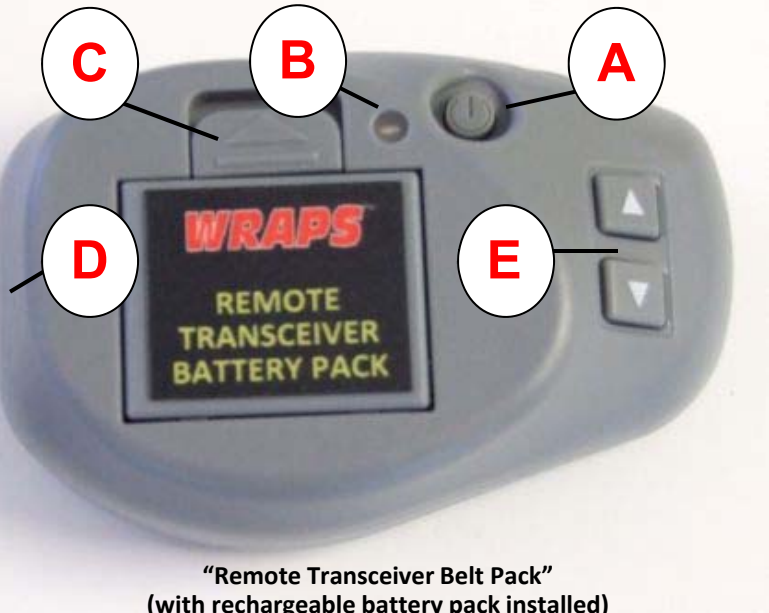
Provides indication of unit's power and network status. If the "Transceiver Base Station" is powered and is within range (approx. 350 ft. (105m) away), the LED will remain a steady blue when unit is powered on. If "Transceiver Base Station" is **NOT** powered on or is out of range, the LED will "blink" (turn on/off repeatedly).

#### C. Battery Eject Tab:

Ejects battery from unit. To eject unit's battery, press tab upwards. **NOTE:** To provide indication when the unit's battery charge level is low, a repetitive beeping tone will become audible on the speaker of the headset connected to the unit.

#### D. MIC Button:

Activates/mutes unit's microphone audio channel. To mute the microphone audio channel, press once. To activate the microphone audio channel, press once again. **NOTE:** The unit's "MIC Button" will illuminate red to provide a visual indication that the unit's microphone audio channel is muted.



"Remote Transceiver Belt Pack"  
(with rechargeable battery pack installed)

#### E. Volume Control:

Adjusts unit's speaker audio channel volume. The unit has (5) listening volume level settings. To increase speaker audio channel's listening volume, press the unit's "upward" arrow key. To decrease the speaker audio channel's listening volume, press the unit's "downward" arrow key.

### SINGLE-CUP HEADSET OVERVIEW:

For best voice broadcast quality the microphone of the "Single-Cup Headset" should be positioned directly in front of and approx. 1 to 2 inches away from the mouth of the operator.

To adjust the listening volume of the speaker of "Single-Cup Headset" use the "upward" and "downward" arrow keys located on the "Remote Transceiver Belt Pack."

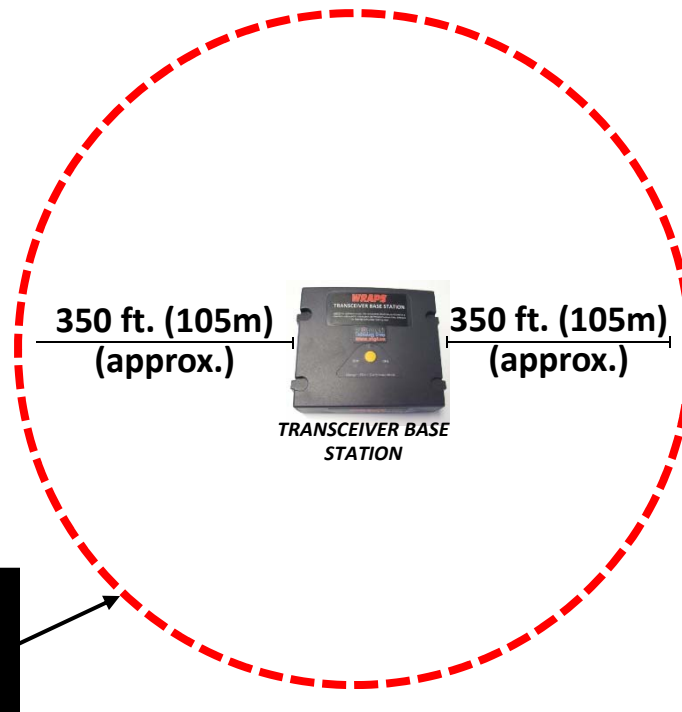
**IMPORTANT NOTE:** The "Remote Transceiver Belt Pack" is equipped with a "MIC BUTTON" which is used to either activate or mute the microphone audio channel. If the unit's microphone audio channel is muted ("MIC BUTTON" LED is illuminated red) the voice of the operator will **NOT** be picked up/broadcast through the WRAPS™ System.



"Single Cup Headset"  
(connected to "Remote Transceiver Belt Pack")

## WRAPS™ SYSTEM SET-UP/DEPLOYMENT OVERVIEW:

1. Position the **“Transceiver Base Station”** in a location central to where the **“Remote Transceiver Belt Packs”** are to be used/deployed.
2. Insert a rechargeable battery pack into the **“Transceiver Base Station”** and power on by setting the component’s **“OFF/ON”** switch (located on rear) to the **“ON”** position. **\*\* NOTE:** When powered up, the **“Transceiver Base Station”** creates a **Wireless Communications Field/Network** with a **700 ft. (105m)** diameter.



**\*\* NOTE:** The **“Transceiver Base Station”** is also capable of being powered by connecting the component to an external wall outlet power supply via the provided **“Transceiver Base Station A/C Power Adapter.”** To connect, insert the plug end of the **“Transceiver Base Station A/C Power Adapter”** into a wall outlet power supply and the pin end into the **“DC: 9V 1A”** jack located on the rear of the **“Transceiver Base Station.”**

### **\*\*IMPORTANT NOTE:**

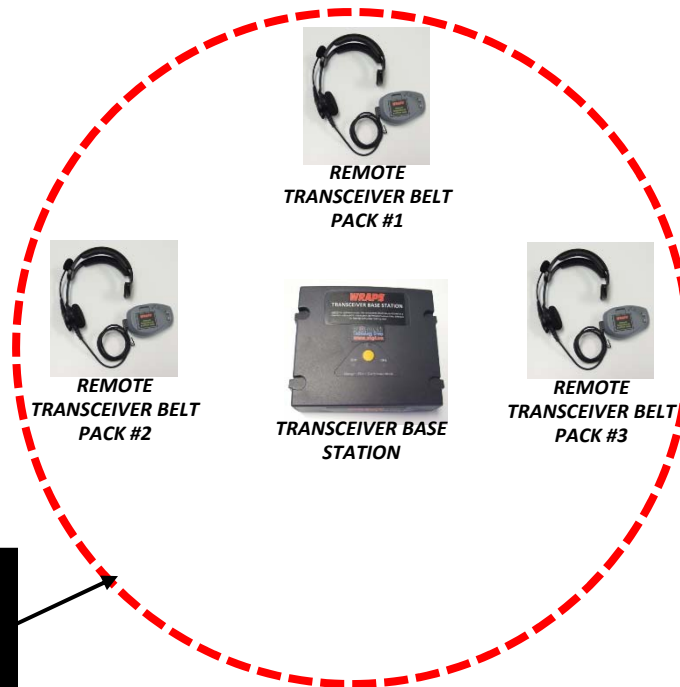
The **WRAPS™** System’s effective remote/wireless operating range varies and is dependent upon several factors. These factors include, but are not limited to the power level of each component as well as the operating environment/the number of **“obstacles”** that may block the wireless transmission path.

For optimum range, position the **“Transceiver Base Station”** on an elevated surface with a clear path (no/minimal obstructions) between the **“Remote Transceiver Belt Packs”** that are to be used/deployed.

**IF MORE THAN (4) “REMOTE TRANSCIEVER BELT PACKS” ARE BEING USED/DEPLOYED, SET THE “TRANSCIEVER BASE STATION” INTO CONFERENCE MODE, BY PRESSING THE ORANGE BUTTON LOCATED ON THE TOP OF THE “TRANSCIEVER BASE STATION” ONCE. TO INDICATE THAT CONFERENCE MODE IS ACTIVE BOTH THE CH1 AND CH2 LEDS LOCATED ON THE “TRANSCIEVER BASE STATION” WILL ILLUMINATE A STEADY ORANGE.**

## WRAPS™ SYSTEM SET-UP/DEPLOYMENT OVERVIEW:

3. Insert rechargeable batteries into the **“Remote Transceiver Belt Packs”** and connect each device to a **“Single-Cup Headset”** by inserting each of the headset’s plugs into the jacks located on the side of the units. **NOTE:** When positioned within the Wireless Communications Field/Network produced by the **“Transceiver Base Station”** and powered on operators wearing the **“Remote Transceiver Belt Packs”** are able to talk and listen to one another simultaneously over the **“Single-Cup Headset with Boom Microphone”** connected to the device.



### **\*\*IMPORTANT NOTE:**

When a **“Remote Transceiver Belt Pack”** is powered on and is within range of the **“Transceiver Base Station,”** the unit’s **“POWER/NETWORK STATUS LED”** will illuminate a steady **blue**.

If a **“Remote Transceiver Belt Pack”** is powered on and is out of range of the **“Transceiver Base Station,”** the unit’s **“POWER/NETWORK STATUS LED”** will **“blink”** (turn on/off).



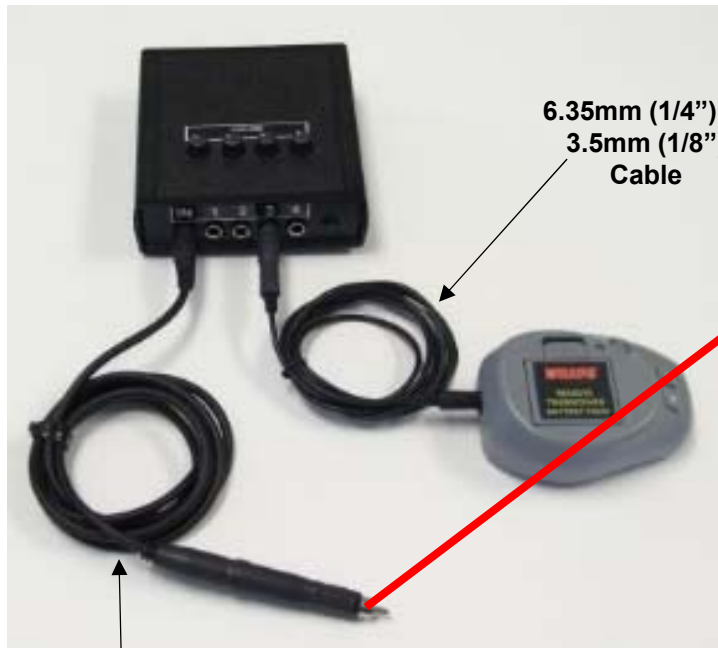
## WRAPS™ SYSTEM DEPLOYMENT/SET-UP OVERVIEW (continued)

4. Use the “**Multi-Extension Amplifier Box**” to connect a “**Remote Transceiver Belt Pack**” to an audio output jack of the audio source (i.e. Hostage/Crisis Negotiations Throw Phone or other communications system/ equipment) that is be monitored by the operators. **NOTE:** The “**Remote Transceiver Belt Pack**” connected to the audio source MUST be positioned within the Wireless Communications Field/Network to allow for the operators to wirelessly monitor the audio signal.



## WRAPS™ SYSTEM DEPLOYMENT/SET-UP OVERVIEW (continued)

5. Locate the provided "6.35mm (1/4") to RCA Cable".
6. Insert the 6.35mm (1/4") plug of the cable into the "IN" jack located on the front of the "Multi-Extension Amplifier Box."
7. Insert the RCA plug of the cable into an RCA output jack of the audio source (i.e. Direct-Link Bridge Series System's RCA "NEGOTIATION AUDIO" output jack).
8. Locate the provided "6.35mm (1/4") to 3.5mm (1/8") Cable."
9. Insert the 6.35mm (1/4") plug of the cable into the any jack (labeled 1, 2, 3, or 4) located on the front of the "Multi-Extension Amplifier Box."
10. Insert the 3.5mm (1/8") plug of the cable into the 3.5mm (1/8") jack located on a "Remote Transceiver Belt Pack."



6.35mm (1/4") to  
3.5mm (1/8")  
Cable

6.35mm (1/4") to  
RCA Cable



Direct-Link Bridge Series System  
"NEGOTIATION AUDIO" RCA output  
jack (located on outer/right of  
Command Console)

## WRAPS™ SYSTEM DEPLOYMENT/SET-UP OVERVIEW (continued)

11. The begin the wireless transmission of the audio source's signal (i.e. negotiations/communications taking place between the Negotiator and subject), power up both the "Multi-Extension Amplifier Box" and the "Remote Transceiver Belt Pack" it is connected to **NOTE:** Operators wearing the "Remote Transceiver Belt Packs" positioned within the Wireless Communications Field/Network are now be able to wirelessly monitor the audio source's signal as well as talk and listen to one another. Since the "Remote Transceiver Belt Pack" is **ONLY** connected to the audio source's audio output jack; the communications taking place between the operators will **NOT** feed back into the audio source (i.e. the Primary Negotiator and the subject will **NOT** hear the communications taking place between the operators).



**NOTE:** At this time, the "NEGOTIATION AUDIO" channel should now be able to be heard on **ALL** of the Single-Cup Headsets attached to the "Remote Transceiver Belt Packs" within the network. If the "NEGOTIATION AUDIO" is **NOT** being heard, please perform the following:

- Check that the "MIC MUTE" button of the "Remote Transceiver Belt Pack" attached to the "Multi-Extension Amplifier Box" is **NOT** active (illuminated **red**). **NOTE:** If the "MIC MUTE" button is active (illuminated **red**) the "NEGOTIATION AUDIO" will **NOT** be able to be transmitted into the Network.
- If the "NEGOTIATION AUDIO" is able to be heard on the "Remote Transceiver Belt Packs" in the network, but it is too quiet or too loud, adjust the volume control dial located above the "Multi-Extension Amplifier Box" jack that the "Remote Transceiver Belt Pack" is connected to until the desired audio listening level is achieved.

## PROGRAMMING NEW/ADDITIONAL REMOTE TRANSCEIVER BELT PACKS TO THE TRANSCEIVER BASE STATION:

The WRAPS™ System's "**Transceiver Base Station**" is capable of supporting up to (8) "**Remote Transceiver Belt Packs**." If additional "**Remote Transceiver Belt Packs**" are procured in the future, the new "**Remote Transceiver Belt Packs**" MUST be programmed to the "**Transceiver Base Station**" in order for it to function.

The instructions provided below reference a specific example of how to program a new, single "**Remote Transceiver Belt Pack**" (i.e. **RTBP-5**) to the #5 "position" of an existing "**Transceiver Base Station**."

1. Remove the batteries from ALL WRAPS™ System components.
2. Access the programming keypad located on the bottom on the "**Transceiver Base Station**" by using a small Phillips head screw driver to remove the compartment's cover. **NOTE:** *The programming keypad features a series of "position" buttons labeled 1-8 and LEDs.*
3. Insert a rechargeable battery into the "**Transceiver Base Station**" and power on the component. **NOTE:** *The programming keypad's LEDs will flash red and then turn off.*
4. Clear the #5 "position" of the "**Transceiver Base Station**" by pressing and holding down the #5 position button until the corresponding LED turns red, then release.
5. Once cleared, press and hold down the #5 "position" button and release when the corresponding red LED turns off (takes approx.. 5 seconds).
6. Insert a battery pack into the new "**Remote Transceiver Belt Pack**" that is to be programmed to the "**Transceiver Base Station**." **NOTE:** *When the battery pack has been inserted, the blue "POWER/NETWORK STATUS" LED of the unit will begin to "blink" (turn on/off).*
7. While the blue "POWER/NETWORK STATUS" LED is "blinking," press the "downward" arrow key of the "**Remote Transceiver Belt Pack**" (3) times and then press and hold down the unit's "upward" arrow key. **NOTE:** *While the "upward" arrow key is depressed the "POWER/NETWORK STATUS" LED will stop "blinking" and remain a steady blue.*
8. While the "upward" arrow key is still depressed, press and hold down the #5 position button of the "**Transceiver Base Station**."
9. Continue to hold down BOTH buttons, until the #5 "position" LED turns on and then release BOTH buttons. **NOTE:** *Both LEDs will illuminate a steady blue while the programming takes place (up to 30 seconds).*
10. When the programming is complete, BOTH LEDs will turn off and on again.

**NOTE:** *To program additional "Remote Transceiver Belt Packs" follow these steps listed above, but assign them to the other available "Transceiver Base Station" "positions" (i.e. #6, #7, and #8).*