

Wireless Remote Audio Perimeter Sharing

WRAPS™ System

Operations Manual

Version #080807



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GETTING STARTED: INITIALLY CHARGING THE WRAPS™ SYSTEM'S MASTER & REMOTE AUDIO TRANSCEIVERS

The WRAPS™ System is delivered with (1) MASTER and (3) Remote Wireless Audio Transceivers. Each of these Audio Transceivers operates on an internal rechargeable battery. The Audio Transceiver's internal rechargeable battery directly impacts the performance of the WRAPS™ System. Therefore, it is extremely important that following initial battery charging procedures listed below and the procedures listed in the Audio Transceiver Battery Charging & Maintenance section of this manual are followed.

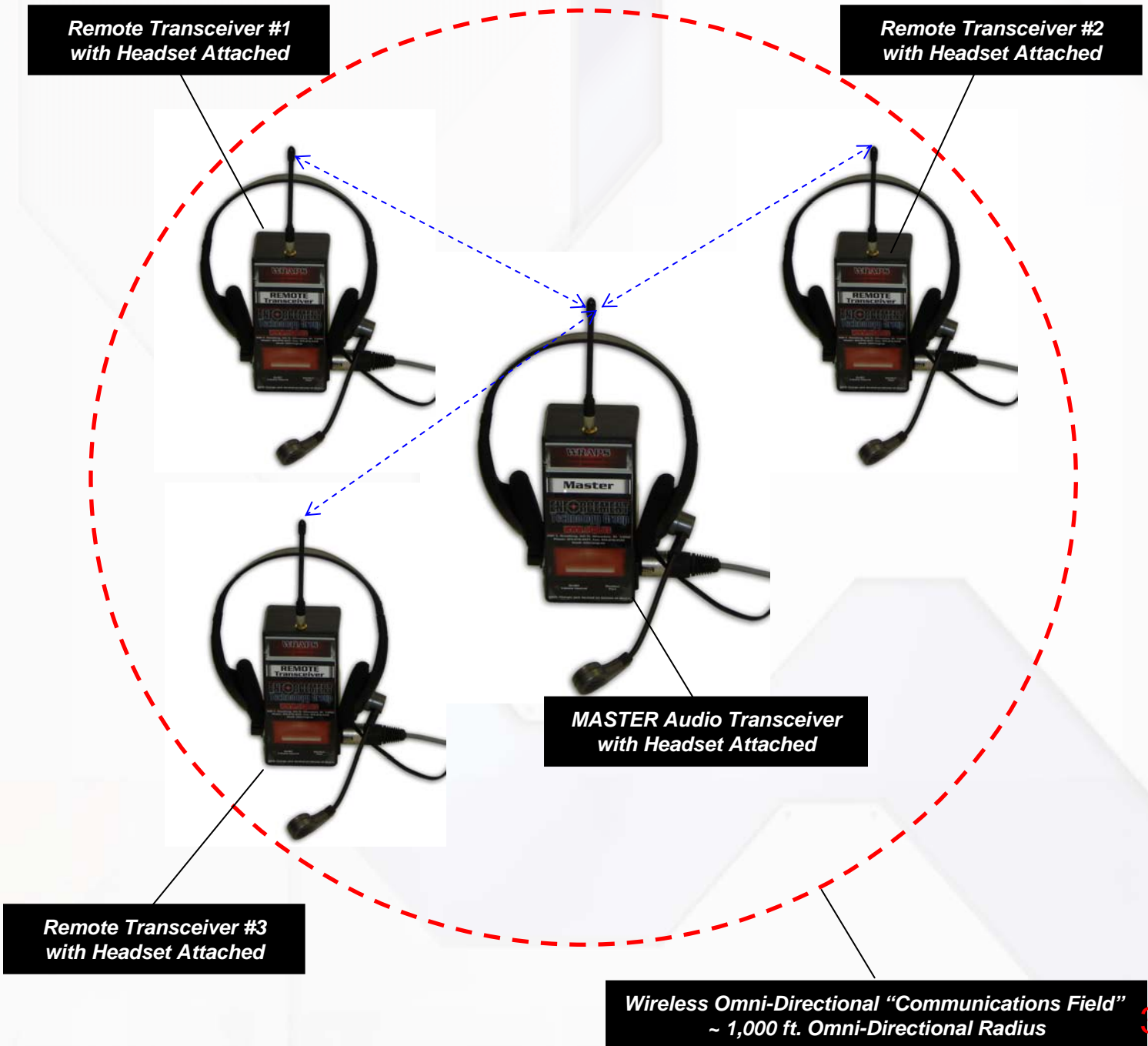
1. Set the "On/Off/Volume Control" dials located on the left hand side of each Audio Transceiver to the "Off" position. **NOTE:** When set to the "Off" position, the green "On/Off Volume Control" LED indicators will **NOT** be illuminated.
2. Locate and connect the (4) A/C Power Chargers into the port labeled "Charger Jack" located on the bottom of each Audio Transceiver. **NOTE:** Only use the A/C Power Charger(s) supplied with the system.
3. Insert the other end of each of the A/C Power Chargers into a standard 120vac wall outlet power supply. **NOTE:** The red "Charge Jack" LED indicator located on each of the Transceivers will illuminate to signal that the Audio Transceiver has started a charge cycle.
4. Allow the Audio Transceivers to charge for at least (10) hours. **NOTE:** Do **NOT** charge the Audio Transceiver's internal battery for more than (12) hours.
5. After the (10) hour charge cycle has completed, disconnect the A/C Power Charger from each of the Audio Transceiver's "Charger Jack" ports.
6. Disconnect each of the A/C Power Chargers from the 120vac wall outlet power supply.



Audio Transceiver (Bottom View)

UNDERSTANDING THE WRAPS™ SYSTEM'S FULL DUPLEX COMMUNICATIONS FEATURE

When the WRAPS™ System's MASTER Audio Transceiver is activated it creates a wireless, omni-directional "communications field" with an approximate radius of 1,000 ft. (thicker red colored dashed circular line). Remote Audio Transceivers that are positioned inside of the "communications" field can "talk" and "listen" to each other as well as the MASTER Audio Transceiver simultaneously (thinner blue colored lines with arrows). **NOTE:** The Wireless Omni-Directional "Communications Field" can ONLY support a maximum of (3) Remote Audio Transceivers.



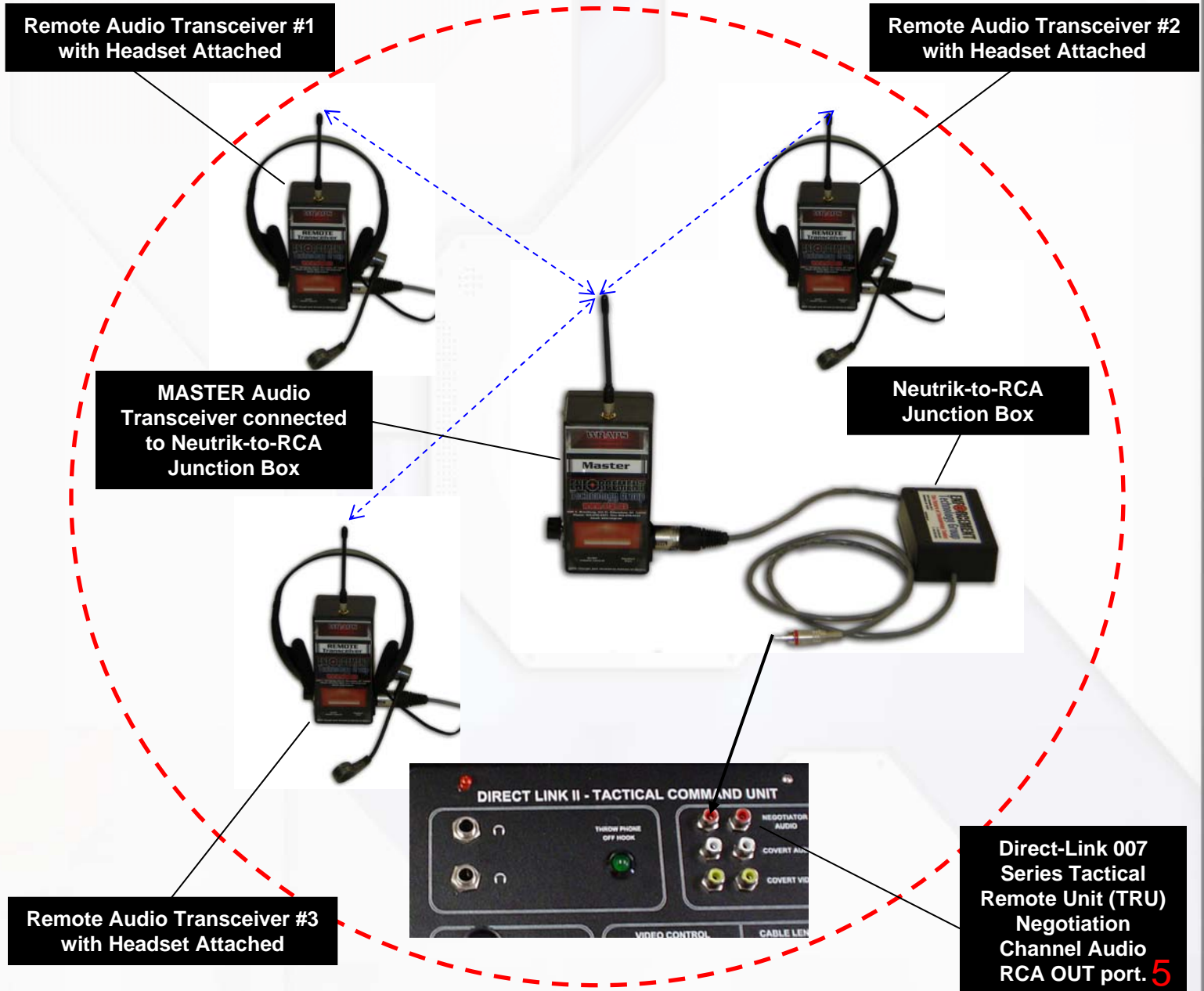
WRAPS™ SYSTEM FULL-DUPLEX COMMUNICATIONS OPERATIONS

1. After the WRAPS™ System's Audio Transceivers have been initially charged, locate (4) Dual-Cup Headsets with Boom Microphones and (4) Neutrik-to-Stereo Adapters.
2. Connect each of the Dual-Cup Headset's male stereo cable leads (red and black) into the respective colored female stereo cable leads located on each of the Neutrik-to-Stereo Adapters.
3. Once the Dual-Cup Headsets have been connected to the Neutrik-to-Stereo Adapters, insert the Neutrik end of each adapter into the Neutrik ports located on the outside of each Audio Transceiver.
4. Power on the MASTER Audio Transceiver by turning the unit's "On/Off/Volume Control" dial clockwise to the "ON" position. **NOTE:** The green "On/Off Volume Control" LED indicator will illuminate signaling that the unit has been activated.
6. Wait for at least (15) seconds after the MASTER Audio Transceiver has been activated, and power on each of the Remote Audio Transceivers by turning each of the unit's "On/Off Volume Control" dials clockwise to the "ON" position. **NOTE:** Each of the unit's green "On/Off Volume Control" LED indicators will illuminate signaling that they have been activated.
7. Persons equipped with either the MASTER or Remote Audio Transceivers will now be able to "talk" and "listen" to one another simultaneously. **NOTE:** To increase the Dual-Cup Headsets listening volume level, turn the "Power On/Off/Volume Control" dial located on the side of the Audio Transceiver clockwise. Also, check to ensure that Dual-Cup Headset's microphone is positioned approximately 1.5 to 2.0 inches away from mouth of the operator.
8. When finished utilizing the WRAPS™ System, turn each of the Audio Transceivers "Power On/Off/Volume Control" dials clockwise to power off the units. **NOTE:** The green "On/Off/Volume Control" LED indicator will turn off, signaling that the unit has been deactivated.
9. Prior to storage, please perform the steps listed in the Audio Transceiver Battery Charging & Maintenance section of this manual.



UNDERSTANDING THE WRAPS™ SYSTEM'S REMOTE AUDIO SHARING FEATURE

The WRAPS™ System's MASTER Audio Transceiver can be connected to a monitoring or recording device that is equipped with an RCA OUT port (example given Direct-Link Crisis Response System's "Negotiation Channel Audio" RCA OUT port, shown with solid black line with arrow) via the Neutrik-to-RCA Junction Box. When the WRAPS™ System's MASTER Audio Transceiver is activated, the audio from the source is connected to broadcast up to (3) Remote Audio Transceivers positioned inside the "communications field." In addition to now having the ability to remotely listen to the audio source, the Remote Audio Transceivers are still able to "talk" and "listen" to each other simultaneously (thinner blue colored dashed line). **NOTE:** For security purposes, the communications between the Remote Audio Transceivers will **NOT** broadcast back through the audio source that the Master Transceiver is connected to.



WRAPS™ SYSTEM REMOTE AUDIO SHARING OPERATIONS

The WRAPS™ System is delivered with a Neutrik-to-RCA Junction Box that can be connected to virtually ANY audio monitoring or recording device that features an RCA OUT port. When connected to an RCA compatible device, up to (3) different team member's located within 1,000 ft. (+/-) of the MASTER Audio Transceiver can monitor the audio transmission as well as simultaneously "talk" and "listen" to one another to develop an appropriate response strategy.

1. After the WRAPS™ System's Audio Transceivers have been initially charged, locate (3) Dual-Cup Headsets with Boom Microphones and (3) Neutrik-to-Stereo Adapters, and (1) Neutrik-to-RCA Junction Box.
2. Connect each of the Dual-Cup Headset's male stereo cable leads (red and black) into the respective colored female stereo cable leads located on each of the Neutrik-to-Stereo Adapters.
3. Once the Dual-Cup Headsets have been connected to the Neutrik-to-Stereo Adapters, insert the Neutrik end of each adapter into the port labeled "Headset" located on the side of each Remote Audio Transceiver.
4. Insert the Neutrik end of the Neutrik-to-RCA Junction into the port labeled "Headset" located on the side of the MASTER Audio Transceiver.
5. Insert the RCA end of Neutrik-to-RCA Junction Box into either the red or white RCA ports located on RCA compatible device that is to be remotely shared. **NOTE:** To help limit/eliminate RF interference, position the MASTER Audio Transceiver and Neutrik-to-RCA junction box as far away from the RCA compatible device as possible.
6. Power on the MASTER Audio Transceiver by turning the unit's "On/Off/Volume Control" dial clockwise to the "ON" position. **NOTE:** The green "On/Off Volume Control" LED indicator will illuminate signaling that the unit has been activated.
7. Wait for at least (15) seconds after the MASTER Audio Transceiver has been activated, and power on each of the Remote Audio Transceivers by turning each of the unit's "On/Off Volume Control" dials clockwise to the "ON" position. **NOTE:** Each of the unit's green "On/Off Volume Control" LED indicators will illuminate signaling that they have been activated.
8. Persons equipped with the Remote Audio Transceivers will now be able to "listen" to the audio data from the RCA compatible device as well as "talk" and "listen" to one another simultaneously. **NOTE:** To increase the Dual-Cup Headsets listening volume level, turn the "Power On/Off/Volume Control" dial located on the side of the Audio Transceiver clockwise. Also, check to ensure that Dual-Cup Headset's microphone is positioned approximately 1.5 to 2.0 inches away from the operator's mouth.
9. When finished utilizing the WRAPS™ System, turn each of the Audio Transceivers "Power On/Off/Volume Control" dials clockwise to power off the units. **NOTE:** The green "On/Off/Volume Control" LED indicator will turn off, signaling that the unit has been deactivated.
10. Prior to storage, please perform the steps listed in the Audio Transceiver Battery Charging & Maintenance section of this manual.

IMPORTANT NOTE:

To help limit/eliminate RF interference during Direct-Link Crisis Response System operations, the Neutrik-to-RCA Junction Box should be connect to the Primary Negotiator or Covert Audio RCA ports located on the Remote Audio/Video Distribution Box or the Tactical Remote Unit. Avoid connecting the Neutrik-to-RCA Junction Box into the Primary Negotior or Covert Audio RCA ports located on the Direct-Link's Command Unit Console.

To maximize the WRAPS System's effective operating range, the WRAPS™ System's MASTER Transceiver should placed on an elevated surface.

AUDIO TRANSCEIVER CHARGING & MAINTENANCE PROCEDURES:

The transceiver's internal rechargeable battery directly impacts the performance of the WRAPS™ System. Therefore, it is extremely important that following battery charging and maintenance procedures are followed after each use. These battery charging and maintenance procedures are also to be followed if the WRAPS™ System has **NOT** been utilized for (30) days. Failure to maintain the battery during periods of prolonged storage can result in diminished battery capacity which decreases the System's effective operating time.

1. Check to make sure that "On/Off Volume Control" dials located on the left hand side of each Audio Transceivers is set to the "OFF" position. **NOTE:** The green "On/Off Volume Control" LED indicators should **NOT** be illuminated.
2. Locate and connect an A/C Power Charger into the port labeled "Charger Jack" located on the bottom of each Audio Transceivers.
3. Insert the other ends of A/C Power Chargers into a standard 120vac wall outlet power supply. **NOTE:** Only use the A/C Power Charger supplied with the System. The red "Charge Jack" LED indicators will illuminate to signal that the Audio Transceiver has started a charge cycle.
4. Allow the Audio Transceiver to charge for at least (10) hours. **NOTE:** Do **NOT** charge the Audio Transceivers internal battery for more than (12) hours.
5. After the (10) hour charge cycle has completed, disconnect the A/C Power Charger from each of the "Charger Jack" ports and then disconnect the A/C Power Chargers from the 120vac wall outlet power supply.

TROUBLESHOOTING

Symptom: The green “Power On/Off Volume Control” LED located on the Audio Transceiver does not illuminate when the dial is turned clockwise.

The Audio Transceiver's internal battery is not charged. To charge the Audio Transceiver's internal battery, refer to the “Audio Transceiver Battery Charging and Maintenance” section of this manual.

Symptom: The audio channel data can NOT be heard through an Audio Transceiver.

1. Check to make sure that the “Power On/Off Volume Control” dial located on the Audio Transceiver has been positioned to an audible level.
2. Check to make sure that the Dual-Cup Headset is securely connected to the Neutrik-to-Stereo Adapter and “Headset” port.
3. Check to make sure that the Neutrik-to-RCA Junction Box Adapter has been securely connected to the MASTER Audio Transceiver and the RCA device that is to be remotely shared.
4. Check that the RCA device that is to be remotely shared is active and is functioning properly.
5. Check to make sure that the MASTER Audio Transceiver is powered “ON.”
6. Check to make sure that the Remote Audio Transceiver is located within 1,000 ft. (+/-) away from the MASTER Audio Transceiver.

Symptom: Unable to talk or listen to other CRT members on other Audio Transceivers.

1. Check to make sure that the “Power On/Off Volume Control” dial located on the Audio Transceiver has been positioned to an audible level.
2. Check to make sure that the Dual-Cup Headset is securely connected to the Neutrik-to-Stereo Adapter and “Headset” port.
3. Check to make sure that the “Master” Transceiver is powered “ON.”
4. Check to make sure that the MASTER Audio Transceiver is powered “ON.”
5. Check to make sure that the Remote Audio Transceiver is located within 1,000 ft. (+/-) away from the MASTER Audio Transceiver.

Symptom: The red LED indicator does not illuminate when the Audio Transceiver is connected to the A/C Power Charger.

1. Check to make sure A/C Power Charger is properly connected to the 120vac wall outlet power supply.
2. Check to make sure that the A/C Power Charger is properly connected to the “Charger Jack” located on the bottom of the Audio Transceiver.
3. Check to make sure that the 120vac wall outlet power source is active.
4. If the red LED indicator continues to not illuminate when the Transceiver is connected to the A/C Power Charger, it is likely that the Audio Transceiver's internal battery has been damaged because the battery charging or maintenance procedures have not been followed properly. For information on receiving a replacement battery, please email info@etgi.us or contact Enforcement Technology Group, Inc. (ETGI) directly at 414-276-4471.