



Advanced Business Sciences, Inc.

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Operation manual for the 1023018 wireless transmitter

Wireless Cuff Preparation:

The wireless cuff includes five components, a battery assembly (hub), “O” ring, transmitter assembly, a bracelet and four screws. (See figure 1)

- Battery Assembly - Provides a nominal 6 Volt DC source to power the transmitter when assembled. Life is estimated at 3 months average. The transmitter will cease operation at around 3.9 Volts.
- “O” Ring - Seals the transmitter compartment when assembled making it waterproof.
- Transmitter Assembly - Encapsulated transmitter with battery contacts for power. Periodically sends a message to the receiver which is resident in the PTU.
- Screws, 4 each - #4 Phillips, flat head, stainless steel, sheet metal screws; 3/8” in length.

A cuff may be attached to a client once preparation has been completed. Select an appropriate length bracelet for the ankle (table 1), one battery assembly with “O” ring installed, one transmitter assembly and four screws. Sizes 5,6,7 and 8 are stocked by ABS. Other sizes will have to be special ordered at the time of contract. Lead time is two weeks.

<u># of holes</u>	<u>Ankle Circumference</u>	<u># of Holes</u>	<u>Ankle Circumference</u>
2	6.5”	7	9.0”
3	7.0”	8	9.5”
4	7.5”	9	10.0”
5	8.0”	10	10.5”
6	8.5”	11	11.0”

Table 1

Assemble Transmitter and Battery:

Align the battery assembly key appropriately with the transmitter assembly slot and lightly engage the hub of the battery assembly to the transmitter cavity. Rotate one assembly carefully until the index mark on one aligns with the index mark on the other. Press the two assemblies together firmly with both hands until little gap can be observed between the two assemblies. Hold them in place with one hand and insert one screw (using a Phillips screwdriver) at a time. Insert the second screw 180 degrees from the first and tighten. The other two screws may be inserted in any order.

Wireless Bracelet Installation:

Figure 2 provides the necessary client installation instructions. Install the bracelet to one side of the cuff assembly first. The second side is installed while against the clients wrist or ankle. Once the cuff is installed on the client it must be activated. Activation occurs when the magnet provided is placed against the transmitter body for a minimum of five seconds. Once activated the client is free to move within the limits of the following violation definitions.



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- Proximity - Occurs when the client, wearing the cuff, moves away from the PTU between **20 ft.** outdoors or **30 ft** indoors. To be detected as a cuff violation the client must outside these limits for a minimum of for **30** minutes. This violation rearms itself if an individual moves back inside these limits after being out for 30 minutes.
- Cuff violation - Occurs when a client forcibly removes or cuts the bracelet from the transmitter. This violation will not page again until the bracelet has been replaced and the cuff has been rearmed (minimum of 10 seconds) with the rearming tool.

Cautions

- After rearming is complete the client must stay within the proximity limits for **5 minutes**. Premature movement outside these limits may prevent a cuff violation from being detected.
- Metal obstructions, in the line of sight between the cuff and the PTU, such as metal filing cabinets, walls or refrigerators can result in false proximity violations.

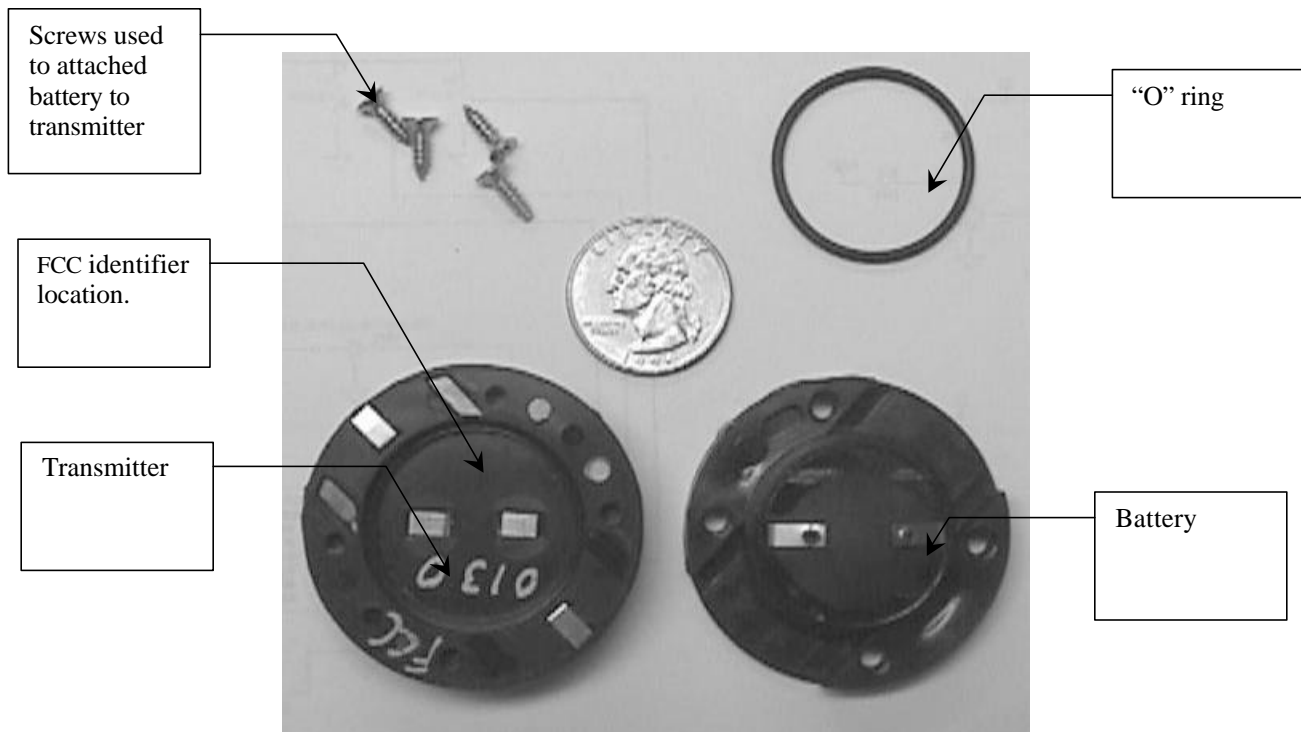


Figure 1



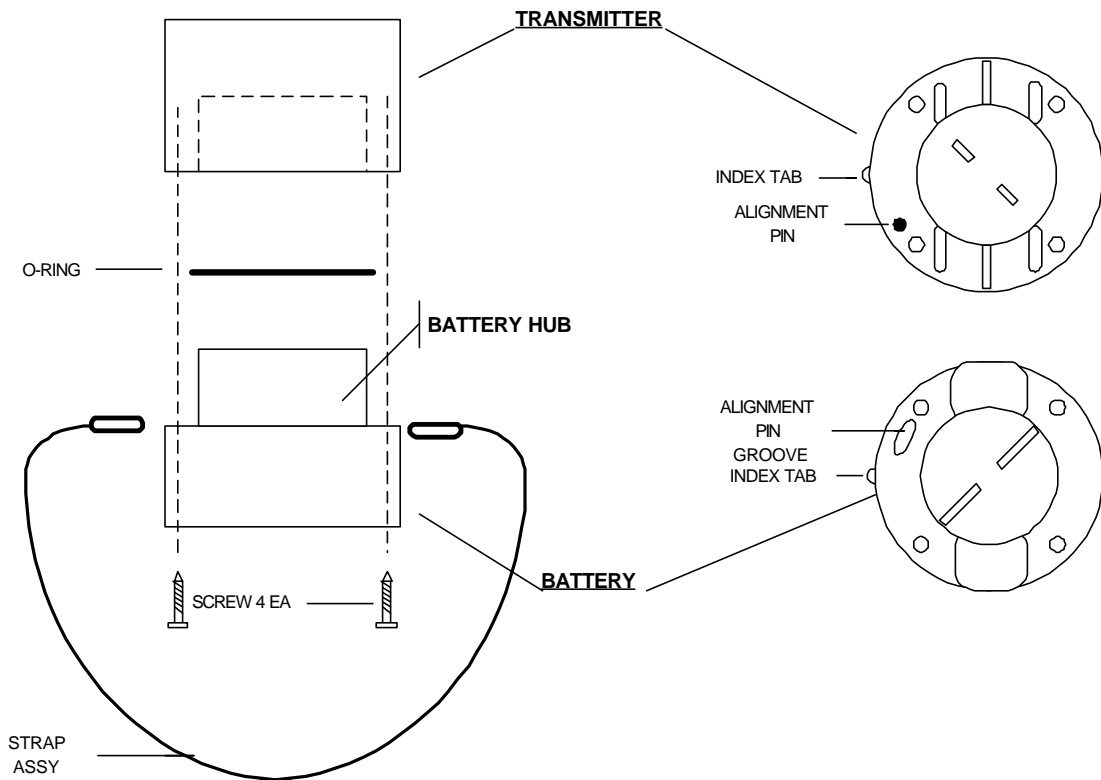
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TITLE Figure 2 - Wireless cuff



1. Install O-Ring over battery hub.
2. Align the index tabs and press to mate the two sections. **DO NOT TWIST** to align the index tabs. If the tabs are not aligned, pull the sections apart and re-seat. Sections **WILL NOT MATE** if the alignment pin is not seated in the alignment pin groove.
3. Using a #1 phillips screwdriver, install the four screws.
4. Install the cuff strap. Make sure the metal tab on the cuff strap will contact the metal contact in the transmitter assembly and push the cuff tab into a recess of the transmitter assembly. Loop the strap around the arm or leg, holding the transmitter assembly with the screws (battery section) against the arm or leg, and snap the other end of the cuff strap into place.



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FCC Label Exhibit

ABS<Comtrak	Model Numbers: 1023018
	Serial No.: _ _ _
FCC ID: OAM1023018	
Advanced Business Sciences	Made in USA

The transmitter is too small to place the label on it. The FCC ID number will be stamped into the plastic case. See figure one for location of stamping. There will be no serial number stamped into the case.

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