
	Document Number	Revision Number
	RF-00043	A
	Title	VascuChek® Disassembly & Recycling Instructions

REMINGTON MEDICAL VascuChek®

Disassembly and Recycling Instructions for Bluetooth® enabled version

WARNING: These instructions are only to be followed after the VascuChek® device is no longer operative, for proper disposal of the device. Following these instructions will render the device permanently unusable.

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1. Overview

- 1.1. VascuChek® Transceivers and Speaker Docks can be sent to Remington Medical Inc. to be disassembled.
- 1.2. If you choose to perform the disassembly of VascuChek® Transceivers and Speaker Docks yourself, this document provides the instructions to do so.
- 1.3. This document provides information for facilities performing sorting and recycling.


Note: VascuChek® Probes are considered to be contaminated and should be disposed of per your facility's policy and governmental regulations for medical waste.

2. Tools required:

- Hammer
- T20 Torx Screwdriver
- T10 Torx Screwdriver
- T9 Torx Screwdriver
- T8 Torx Screwdriver
- 10 mm Open-end wrench
- Wire cutters
- Nail punch (< 1.5 mm diameter)
- Small flat blade screwdriver
- Large flat blade screwdriver
- Saw (band saw preferable)
- (Optional) Hobby or industrial knife

3. Transceiver Disassembly

- 3.1. If present, remove the probe by gently pulling on it. Dispose of the probe as medical waste.
- 3.2. Using a saw, cut the bottom of the transceiver along the seam line as shown in Figure 2. Do not cut into the battery as shown in Figure 1.
- 3.3. Insert a large flat-blade screwdriver into the cut, and twist it to separate the halves, as shown in Figure 3.

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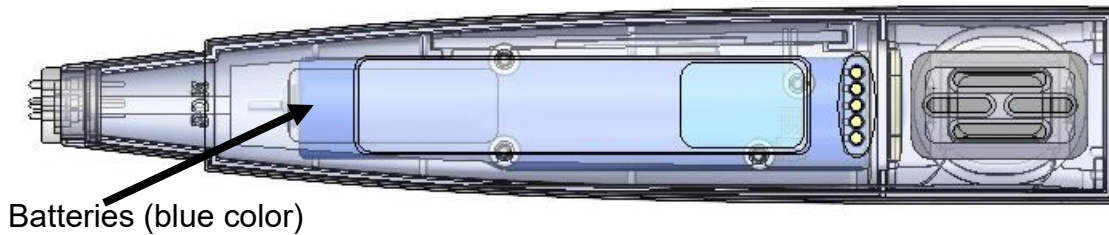


Figure 1: Battery Location



Figure 2 – Cut in Transceiver

Figure 3 - Insert Screwdriver

- 3.4. Using the large flat-blade screwdriver, pry apart the two halves of the housing.
- 3.5. Lift out the battery pack. Disconnect the battery pack from the circuit board by separating the connectors at the circuit board.
- 3.6. Pull off absorber from the circuit board.
- 3.7. Lift out the speaker assembly. Cut the wires from the speaker assembly. Remove the flexible rubber holder from the speaker assembly. A hobby knife may be used to cut the flexible rubber holder from the speaker assembly.
- 3.8. Using a small flat blade screwdriver, pry the two tabs of the speaker latch off. See Figure 4. Then, separate the speaker from the plastic parts. Repeat for the other speaker.
- 3.9. Using a T6 Torx Screwdriver, remove 4 screws and nylon washers holding the circuit board.
- 3.10. Remove the circuit board.

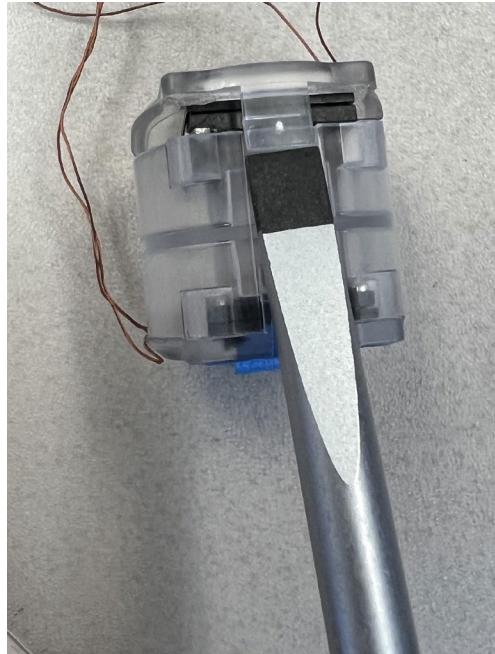


Figure 4 - Prying Off Speaker Latch

3.11. Remove the small metal plate.

3.12. Place the bottom housing oriented as shown in Figure 5 onto a flat surface. Using a hammer and a nail punch, punch down to push out the five gold-plated brass contacts.



Figure 5 – View Looking Down


4. Speaker Dock Disassembly

4.1. Remove the four stick-on rubber feet.

4.2. Using a flat blade screwdriver, pry the metal top cover off.

4.3. Using a T9 Torx screwdriver, remove the two screws securing the front display.

4.4. Separate the flat cable from the front display and remove the gasket.

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- 4.5. Pushing a screwdriver through the back side of the hard black plastic part, separate the label from the hard black plastic part.
- 4.6. Unscrew the four screws in the recessed bosses using a T20 Torx screwdriver.
- 4.7. Lift off the top housing.
- 4.8. Disconnect the battery connector, and the two connectors going to the top housing at the circuit board.
- 4.9. Using a T10 screwdriver, remove the two screws holding the beige battery clamp. Then remove the lithium-ion battery.
- 4.10. Pull the black battery cushion off of the beige battery clamp.
- 4.11. Using a T8 screwdriver, remove the four screws holding the speaker to the top housing. Remove the speaker, then lift out the black speaker gasket.
- 4.12. Turn the top housing over, and using a T10 screwdriver, remove the two screws and their corresponding clear nylon washers.
- 4.13. Remove the rubber O-ring from the bottom housing.
- 4.14. Using a 10 mm open-end wrench, remove the power switch.
- 4.15. Using a T10 screwdriver, remove the four screws holding the circuit board, and remove the circuit board assembly.

5. Recycling

- 5.1. The batteries in the transceiver are Lithium-iron. These are inherently safer than other lithium-ion chemistries.
- 5.2. The battery in the speaker dock is Lithium cobalt. Protect it from physical damage.
- 5.3. Gray molded plastic, hard white plastic and hard black plastic parts are ABS.
- 5.4. The absorber, display gasket, speaker gasket, battery cushion and clear rubber feet are polyurethane.
- 5.5. The clear washers are nylon.
- 5.6. All other clear molded plastic parts are acrylic.
- 5.7. The speaker dock's metal top cover is aluminum.
- 5.8. The transceiver's small metal plate is stainless steel.
- 5.9. The rubber O-ring is Buna-N.
- 5.10. The beige flexible rubber holder is Santoprene.
- 5.11. All screws are stainless steel.
- 5.12. Contacts are made from gold-plated brass.
- 5.13. All circuit boards and other soldered connections were made without lead solder.
- 5.14. The round silver magnet in the speaker dock is a nickel plated rare-earth magnet (NdFeB).
- 5.15. All three speakers contain a rare-earth magnet (NdFeB).