
 Remington MEDICAL	Document Number	Revision Number
	RF-00011	B
	Title	VascuChek® Disassembly & Recycling Instructions

REMINGTON MEDICAL VascuChek®

Disassembly and Recycling Instructions

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 Chargers can be sent to Remington Medical Inc. to be disassembled.
- 1.2. If you choose to perform the disassembly of VascuChek® Transceivers and Chargers 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
- T9 Torx Screwdriver
- T6 Torx Screwdriver
- Wire cutters
- Small pry bar
- Needle-nose pliers (serrated or cross-hatch tip recommended)
- Nail punch (< 1.5 mm diameter)
- Small flat blade screwdriver
- (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. Place the transceiver on a hard sturdy surface, oriented with the joint up, as shown in Figure 1.



Figure 1 – View Looking Down

- 3.3. Using a hammer gently hit the left and right ends on the joints of the housing. Avoid striking the center portion as this is where the batteries are located. See Figure 2 (below) for the battery location. This step is necessary to break the joint between the two halves of the housing.

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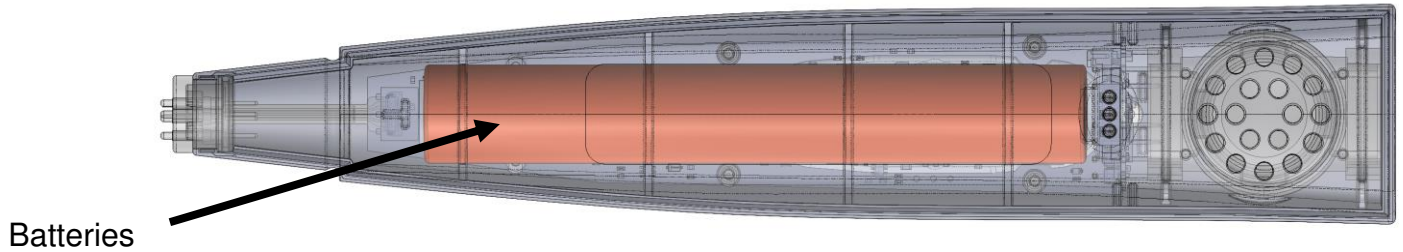


Figure 2 - Battery Location

- 3.5. Pry apart the two halves of the housing.
- 3.6. Lift out the battery pack. Disconnect the battery pack from the circuit board by either separating the connectors at the circuit board, or by cutting the battery wires one at a time.
- 3.7. Pull off two stick-on rubber strips from the circuit board.
- 3.8. 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.
- 3.9. Using a T6 Torx Screwdriver, remove 4 or 6 screws holding the circuit board.
- 3.10. Disconnect the flex circuit from the left end of the circuit board.
- 3.11. Remove the circuit boards.
- 3.12. Using needle-nose pliers, remove one black speaker mesh from each half of the housing.
- 3.13. Place the bottom housing oriented as shown in Figure 3 onto a flat surface. Using a hammer and a nail punch, punch down to push out the three gold-plated brass contacts.



Figure 3 – View Looking Down

- 3.14. Orient the top housing with the white buttons facing up. Using a hammer and the nail punch, punch out the clear plastic window located between the speaker holes and the pushbuttons.

4. Charger Disassembly

- 4.1. Remove the four stick-on rubber feet.
- 4.2. Unscrew four screws using a T9 Torx screwdriver.
- 4.3. Open the housing, then disconnect the three colored wires from the circuit board.
- 4.4. Cut the wires from the power supply.
- 4.5. Remove the circuit board assembly.
- 4.6. Remove the clear plastic insulator sheet.
- 4.7. Pry off the flat metal plate. A small flat-blade screwdriver may be used for this.
- 4.8. Unscrew the two internal screws using a T9 Torx screwdriver and remove the Internal part. See Figure 4 below.

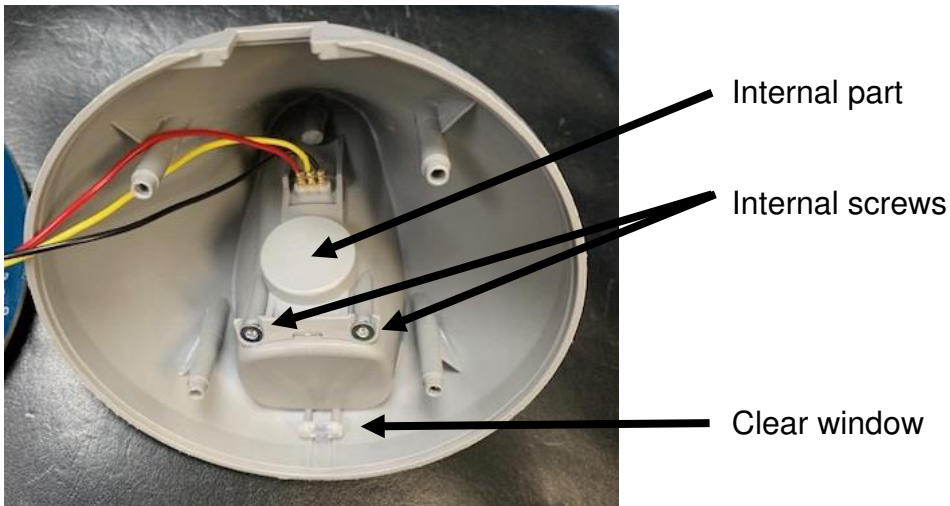



Figure 4 – Charger Internal Parts

- 4.9. Using a small flat-blade screwdriver, on the Internal part, break the glue joint holding the round silver magnet.
- 4.10. Separate the clear window from the gray housing using a small flat blade screwdriver to pry it apart.

5. Recycling

- 5.1. The batteries are Lithium-iron. These are inherently safer than other lithium-ion chemistries.
- 5.2. Gray molded plastic is primarily polyethylene terephthalate (PET).
- 5.3. Clear plastic windows are acrylic.
- 5.4. Clear plastic insulator sheet is polyethylene terephthalate (PET).
- 5.5. The flat metal plate is stainless steel.
- 5.6. The stick-on rubber strips and rubber feet are polyurethane.

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- 5.7. The flexible rubber holder is Santoprene.
- 5.8. Black speaker mesh is polyester.
- 5.9. Screws used in the transceiver are stainless steel.
- 5.10. Screws used in the charger are carbon steel coated with zinc & clear trivalent chromate.
- 5.11. Contacts are made from gold-plated brass.
- 5.12. All circuit boards and other soldered connections were made without lead solder.
- 5.13. The round silver magnet in the Charger is a nickel plated rare-earth magnet (NdFeB).
- 5.14. The speakers contain a rare-earth magnet (NdFeB).

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