

Maintenance Manual

STANDARD OPERATING PROCEDURE

Product Name:	Battery Powered Occupancy Sensor	Document Ref:	SOP-S-OI-S03-01-V2
Model Code:	S-OI-S03-DMWH	Effective Date:	2/06/2026
Task Subject:	Field Battery Replacement Routine	Standard Cycle:	5 Years Standard Lifetime

1. Bill of Materials (BOM)

Item	Description / Component Specification	Quantity	Operational Notes
1	Battery Powered Occupancy Sensor (Model: S-OI-S03-DMWH)	1 Unit	Target device undergoing maintenance.
2	Long-Arm Electrical Needle-Nose Pliers	1 Tool	Required for plate rotation leverage.
3	CR2477 3V Lithium Coin Cell Battery	1 PC	Replacement unit. Confirm shelf-life.



2. Step-by-Step Replacement Procedure

Step 1: Operational Workspace Preparation

Place the occupancy sensor unit and the long-arm electrical needle-nose pliers onto a clean, static-free, flat workspace interface. Ensure the area is clear of contaminants.



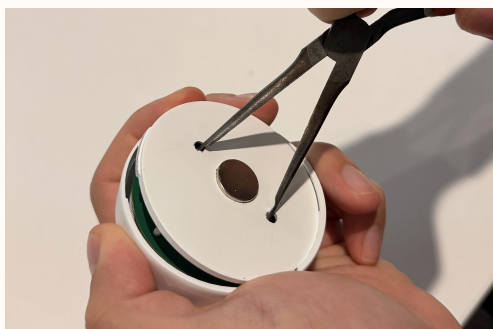
Step 2: Engage and Unlock Backplate Cover

Locate the two designated circular engagement guide-holes positioned symmetrically on the rear baseplate. Insert the tips of the long-arm pliers firmly into these holes and rotate counterclockwise to release the internal latching alignment.



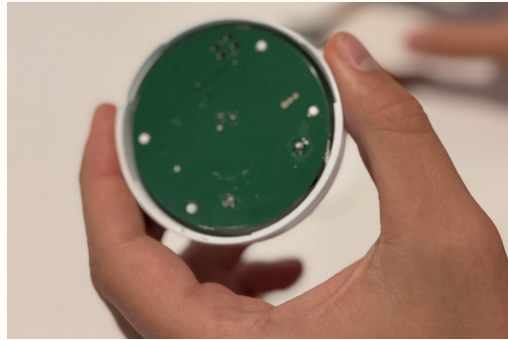
Step 3: Lever-Lift Backplate Assembly

Using the handle framework of the long-arm pliers as a safe lever point, apply controlled upward leverage to break the surface retention seal and lift the backplate upward away from the housing walls.



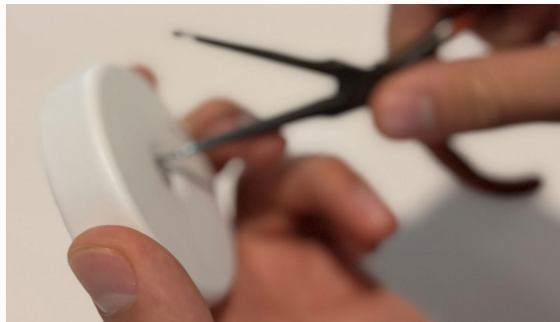
Step 4: Expose Inner Circuit Assembly

Completely remove the freed base cover plate from the primary assembly. Set it aside to lay bare the integrated green printed circuit board (PCB) assembly structure nested inside the frame.



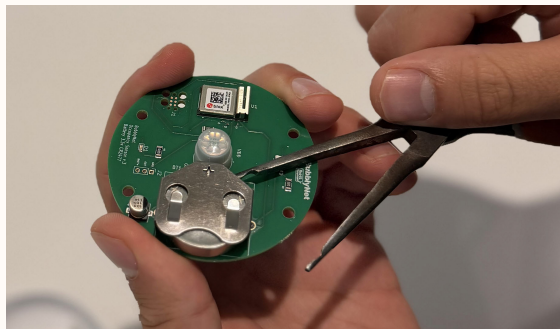
Step 5: De-nest PCB from Protective Housing

Invert the unit casing, then gently and evenly apply force on the front translucent PIR sensor dome profile. This action pops the PCB block backward out from the main protective cylindrical shell safely.



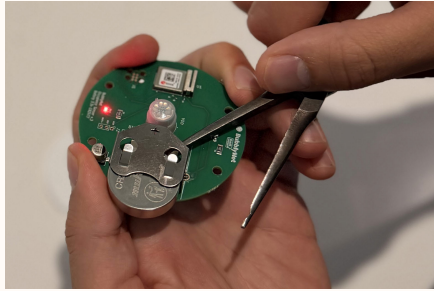
Step 6: Extract Expired Coin Cell Battery

Insert a single point of the needle-nose pliers smoothly beneath the localized channel edge of the metal structural battery cage. Slide the old coin-cell out away from the high-tension retention spring profile.



Step 7: Battery Waste Segregation

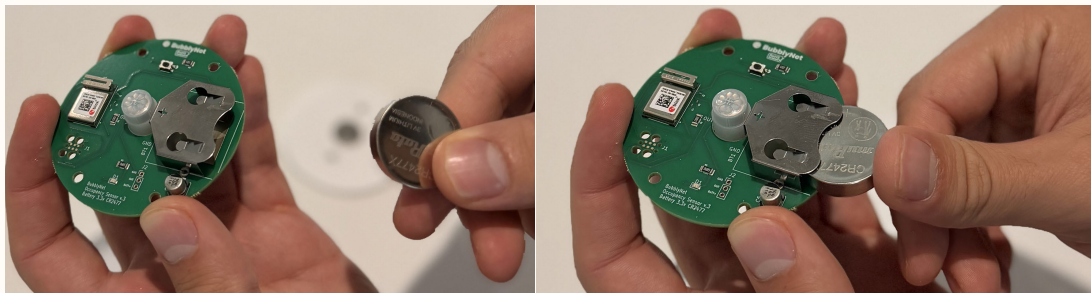
Isolate and pull the spent cell away from the mainboard workspace. Dispose of or recycle the dead lithium component immediately following authorized local environmental e-waste regulation criteria.



Step 8: Seat New CR2477 Power Source

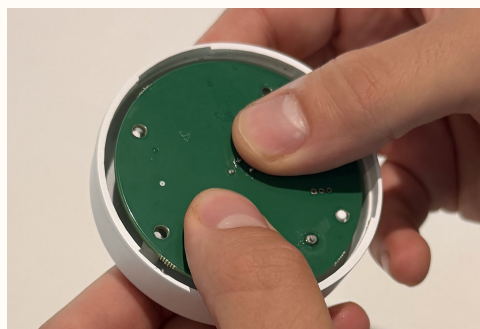
Take a fresh replacement CR2477 coin cell battery. Firmly slide it back inside the metallic tray interface structure under the compression spring tabs.

CRITICAL SAFETY ORIENTATION: Ensure the positive terminal (+) plane is oriented completely facing upwards toward the operator, and the negative terminal (-) plane sits flush downward directly touching the board contacts.



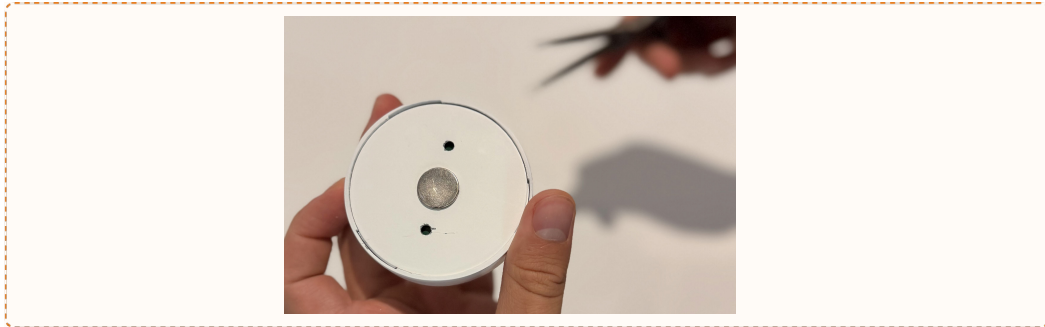
Step 9: Align and Reseat PCB Assembly

Align the board index layout back over the perimeter tracks of the main structural casing shell. Press down deliberately with your thumbs until the native snap-alignment pillars securely click home into place.



Step 10: Reposition Outer Enclosure Cap

Position the circular rear plate cover perfectly flush and level across the perimeter mating lip profile lines of the outer sensor structural shell assembly.



Step 11: Lock and Finalize Unit Closure

Re-engage the needle-nose tool arm tips into the dedicated operational lock holes. Apply direct clockwise rotational torque until the cover element spins tight and sits perfectly flush against the primary frame boundary line.



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The manufacturer reserves the right to change or modify the design, dimensions, and specifications at any time without notice.