

Palladiom Wire-Free Shade Drive Sealed Battery Removal and Replacement

Overview

Palladiom Wire-Free products use a sealed internal battery to improve the overall efficiency of the system. Under normal circumstances, this battery is designed to last well beyond the lifetime of the product. However, should a replacement be needed or the battery needs to be removed for proper disposal, these instructions are provided.

Lutron is confident that carefully following these instructions will result in the successful removal and/or replacement of the battery. **Please read the entirety of these instructions before beginning.** If you would prefer not to attempt this process yourself, please do not hesitate to reach out to Lutron about engaging a trained independent professional and/or obtaining warranty services.

NOTICE: Performance issues may not be (and rarely are) the result of the internal battery in need of replacement. Before replacing the battery, we recommend that you contact Lutron technical support to explore other solutions before proceeding with a battery replacement.

Tools required:

- T15 and T8 TORX bit
- Torque screwdriver with a usable range between 0–10 in-lbs (0–1.13 N•m)
- Insulated wire cutters
- Eye protection
- Nitrile gloves
- Anti-static tweezers and pry tool
- Anti-static work surface and wrist strap

Skills required:

Familiarity with basic hand tools, anti-static work practices, safe handling of electronic assemblies, and miniature connector manipulation. Contact Lutron Customer Assistance for more information and support.

Replacement battery:

Contact Lutron Customer Assistance or a certified dealer to order the replacement battery pack. Provide the shade model number when requesting the replacement battery.

Remove the Battery from the Drive Before Recycling as Electronic Waste

Tools required:

- T15 and T8 TORX bits
- Insulated wire cutters
- Nitrile gloves
- Eye protection
- Anti-static tweezers and pry tool
- Anti-static work surface and wrist strap

Follow the instructions provided below to remove the Electronic Drive Unit (EDU) from the shade:

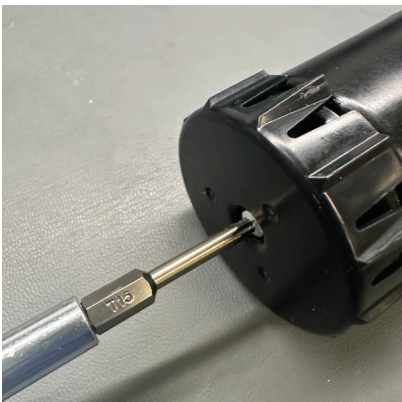
<https://assets.lutron.com/a/documents/045908a.pdf>

Once the EDU is removed, follow these steps to remove the battery:

1. Put on eye protection and nitrile gloves.
2. Remove the alkaline batteries from the EDU first.
3. The lithium iron phosphate (LFP) battery is enclosed inside the EDU housing. Housing must first be partially disassembled to access the battery for disposal.
4. Remove unit label from output hub.



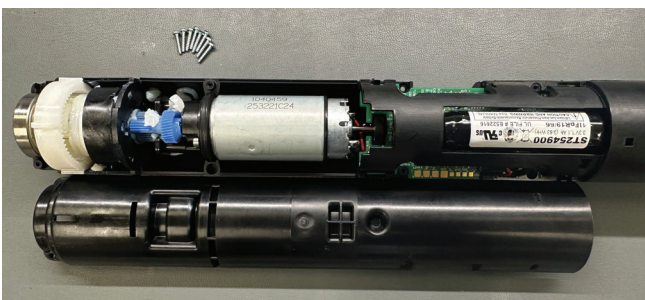
5. Remove the output hub and output hub screw using a T15 TORX bit.



6. Remove the eight housing screws over the gear train portion using a T8 TORX bit.



7. Remove the housing to expose the LFP battery (may need to flip unit over).



8. Use wire cutters to cut the connection between the LFP battery and the circuit board (red and black wires).



9. Remove the LFP battery from the opening in the top. If the battery is damaged or the heatshrink is broken, wrap the battery in electrical tape before recycling.



10. The electronic drive units can be recycled with other electrical and electronic equipment waste at this point.

Replacing the Battery in the Palladiom Drive

Tools required:

- T15 and T8 TORX bits
- Insulated wire cutters
- Nitrile gloves
- Eye protection
- Anti-static tweezers and pry tool
- Anti-static work surface and wrist strap
- A replacement battery from Lutron

Follow the instructions provided below to remove the Electronic Drive Unit (EDU) from the shade:

<https://assets.lutron.com/a/documents/045908a.pdf>

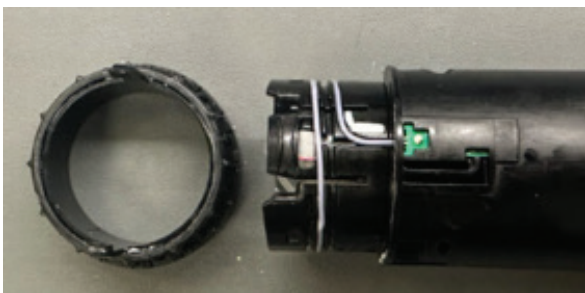
We strongly recommend using Lutron's warranty service for this repair or engaging an independent professional.

Once the EDU is removed, follow these steps to remove the battery:

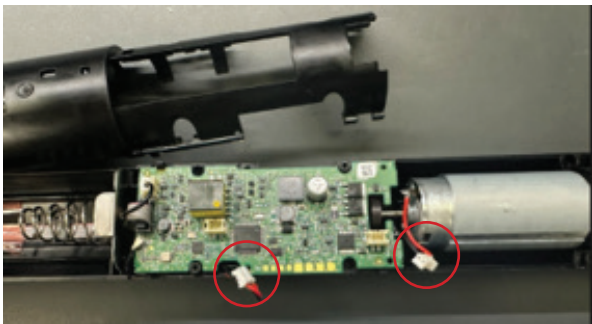
1. Put on eye protection, nitrile gloves, ESD wrist strap and use an anti-static work surface.
2. Remove the alkaline batteries from the EDU first.
3. The lithium iron phosphate battery is enclosed inside the EDU housing. The housing must be fully disassembled for replacement.
4. Remove the output hub and output hub screw using a T15 TORX bit.
5. Remove all fourteen T8 TORX housing screws.



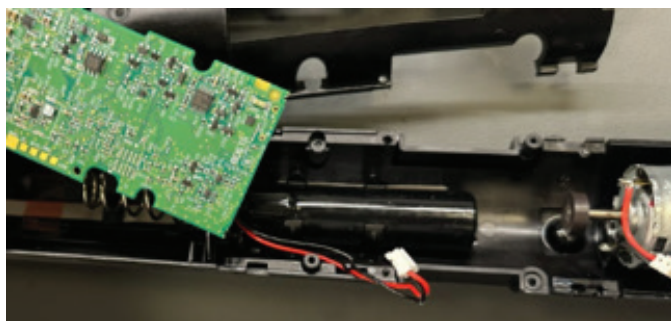
6. Slide off the bearing sleeve and make a note of the antenna routing.



7. Open the housing and disconnect the motor and the battery from the circuit board.



8. Lift the circuit board assembly and remove the old battery pack and replace it with a new one from Lutron. Pay attention to cable routing.



9. Reverse the steps and check all connections, reconnecting any cables that were disconnected during the disassembly process. Take care not to pinch any wires. Use a torque screw driver to reinstall the T8 housing screws to 4.5 in-lb (0.51 N•m) and the T15 output hub screw to 9 in-lb (1 N•m) Re-apply the hub label.



10. Function test the EDU at this point with alkaline batteries and a wireless controller to make sure the EDU can rotate normally without any LED error codes and/or loud noise.
11. Reinstall the EDU into the shade and reinstall the shade following directions provided in <https://assets.lutron.com/a/documents/045908a.pdf> and verify operation.
12. Do not put the used battery in household waste. Return it to a battery collection point for recycling.

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