É Siri Remote (2nd Generation)

Apple Recycler Guide

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About This Guide

Apple Recycler Guides provide guidance for electronics recyclers on how to disassemble products to maximize recovery of resources. The guides provide step-by-step disassembly instructions and information on the material composition to help recyclers direct fractions to the appropriate material recycler.

To conserve important resources, we work to reduce the materials we use and aim to one day source only recycled or renewable materials in our products. A key path to reaching that goal is resource recovery from end-of-life electronics.

Disassembly procedures are intended to be performed only by trained electronics recycling professionals. The recycler is responsible for independently evaluating and ensuring compliance with all applicable environmental, health, and safety laws related to the work. These include but are not limited to laws relating to the management, handling, shipping, and disposal of the outputs of this work as waste and laws in place to ensure the health and safety of all employees who support this work.

For questions or feedback about this guide, email contactesci@apple.com.

Identification

You can find the model number on the back of the Siri Remote (2nd generation).



Model number: A2540

Directive 2012/19/EU Annex VII Components

Directive 2012/19/EU Annex VII requirements apply to the following substances and components.

Substance/Component	Location	Removal Instructions
Printed circuit board if the surface is greater than 10 square centimeters	Main logic board	Follow steps 1–10
External electric cables	Charge cable	Follow step 1
Battery	Battery enclosure	Follow steps 1–8
No further substances or components as listed in Annex VII		

Safety Considerations

The recycler is responsible for independently evaluating all activities undertaken by its employees to perform or support the work and ensuring compliance with all applicable health and safety laws related to the work. These include but are not limited to laws relating to the health and safety of all employees who perform or support this work. The recycler is also responsible for evaluating the workspace and ensuring that the area in which the work is to be undertaken is designed using ergonomic best practices and meets all ergonomic requirements to ensure the protection of its employees.

Personal Protective Equipment

Personal protective equipment should be worn during the entire recycling process.



Battery Safety

This product uses a lithium-ion polymer battery. Follow these steps for safe removal and disposal of the battery:

- Discharge the battery to less than 25 percent before beginning any disassembly. Thermal runaway is less likely to occur in a discharged battery.
- Remove anything from your person that could conduct energy, such as jewelry and watches, to avoid electric shock to yourself or the logic board.
- To avoid the potential for thermal runaway and the release of potentially noxious fumes, don't puncture, strike, or crush lithium-ion polymer batteries or devices powered by them.
- Don't throw, drop, or bend the battery.
- Don't expose the battery to excessive heat or sunlight.
- Use only tools that are not sharp and do not conduct electricity.
- Keep your workspace clear of foreign objects and sharp materials.
- Dispose of batteries according to local environmental laws and guidelines.

Workspace safety guidelines

- Use heat-resistant gloves and safety glasses.
- Keep a sand dispenser within arm's reach (2 feet or 0.6 m) on either side of the workstation, not above the workstation. The dispenser should be a wide-mouthed, quick-pour metal container with a flip-top lid or tray that contains 8–10 cups (1.9–2.4 L) of clean, dry, untreated sand.
- Keep the battery at least 2 feet (0.6 m) from paper and other combustible materials.
- Work in an area with adequate ventilation.

Handling a thermal runaway

If you notice any of the following signs, a thermal runaway is likely underway, and you should act immediately:

- The lithium-ion polymer battery or a device containing one begins to smoke or emit sparks or soot.
- The battery pouch suddenly and quickly puffs out.
- You hear hissing or popping sounds.

Don't use water or an ABC/CO₂ fire extinguisher on a thermal runaway battery or a device containing one. Water and ABC/CO₂ fire extinguishers will not stop the reaction.

Do smother the battery or device immediately with plenty of clean, dry sand, dumped all at once. Timing is critical; the faster you pour all the sand, the faster the thermal runaway will stop.

Do leave the room for 30 minutes if the thermal runaway causes any irritation.

Do wait 30 minutes before touching the battery. Wear heat-resistant gloves and safety glasses to remove the battery from the sand, or use a touchless thermometer to measure the battery temperature. Only touch the battery when the event has finished.

Do dispose of the damaged battery or device (including any debris removed from the sand) according to local environmental laws and guidelines.

Hazard Warning



Recommended Tools

Miniature plastic pry bar



Precision slotted screwdriver



Torx[®] T3 screwdriver



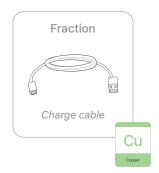
Disassembly Instructions

- **1.** Remove the charge cable.
 - >> Turn off the Siri Remote.



 \gg Unplug the charge cable.

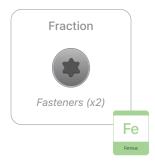


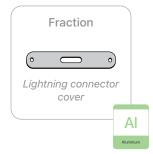


2. Remove the Lightning connector cover by unscrewing the two Torx T3 fasteners from the bottom of the remote.







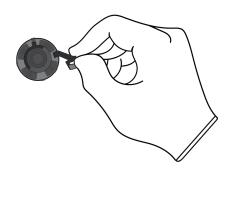


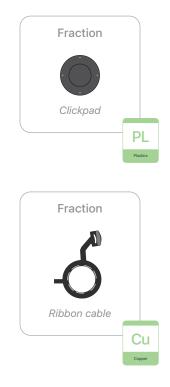
3. Pry off the clickpad. Set the remote aside.





4. On the clickpad, remove the ribbon cable.

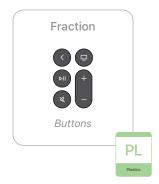




5. On the front of the remote, pry off the five buttons.



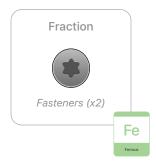




6. Remove the Siri button by unscrewing the two Torx T3 fasteners.



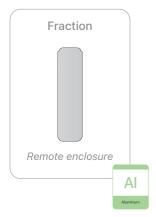






7. Pull the internal frame out of the remote enclosure.





8. Carefully remove the lithium-ion polymer battery.

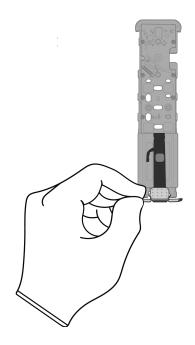


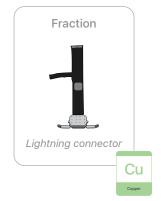






9. Remove the Lightning connector.



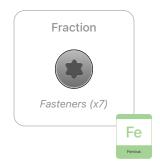


10. Remove the main logic board.

>> Unscrew the seven Torx T3 fasteners from the main logic board.







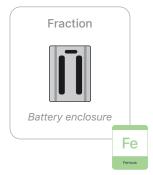
>> Pull the main logic board off the internal frame by hand.

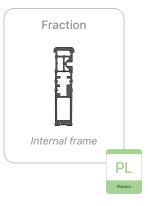


11. Pry off the battery enclosure.



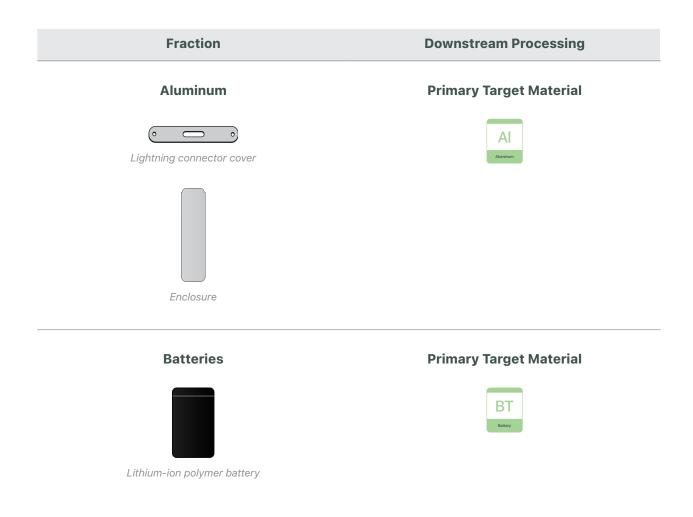






Material Categorization of Output Fractions

All outputs from this process must be managed, handled, and disposed of in accordance with applicable waste laws and regulations, including but not limited to the Waste Framework Directive and its national enactments in Europe.



FractionDownstream ProcessingFerrousPrimary Target MaterialImage: processing statements (x11)Image: processing statements (x12)Image: processing statements (x12)Potential Additional MaterialsImage: processing statements (x12)Image: processing sta

Logic Boards



Main logic board

Primary Target Material



Potential Additional Materials



Fraction

Mixed Electronics



Charge cable





Siri button



Lightning connector

Downstream Processing

Primary Target Material



Potential Additional Materials



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Fraction

Downstream Processing

Mixed Plastics



Clickpad



Buttons



Internal frame

Primary Target Material

