



Product End-of-Life Instructions

PRODUCT FAMILY

Adamo_Laptop

PURPOSE

The intent of this document is to provide guidance to recyclers on the presence of materials and components at the product / family level, as required by the EU WEEE Directive 2012/19/EU. This document should also help direct recyclers to proper methods for removing parts and general product disassembly instructions.

PRODUCT DISASSEMBLY INSTRUCTIONS

Most parts can be removed easily by hand. In some cases common household tools such as Philips and/or flat-head screw drivers may be necessary. To remove discrete components such as the electrolytic capacitors, needle-nose pliers may be helpful. Instructions for removing parts in each product can be found in the User Documentation originally provided with the product. This documentation can be found online:

<https://www.dell.com/support/home/en-us/products/laptop/legacylp>

PRODUCT MATERIAL INFORMATION

The following substances, preparations, or components should be disposed of or recovered separately from other WEEE in compliance with Article 4 of EU Council Directive 75/442/EEC.

Batteries	Mercury	Dell does not use internal batteries based on Mercury (Hg) and its compounds.
	Cadmium	Dell does not use internal batteries based on Cadmium (Cd) and its compounds.
	Lead	Dell does not use internal batteries based on Lead (Pb) and its compounds.
	Other	This product uses a Lithium Ion Secondary Battery. Many notebooks may also be equipped with a Lithium Ion Button Cell, Nickel Metal Hydride, or a Lithium Coin Cell Primary battery
Mercury	Lamps, Bulbs, and other Lighting Applications	At least one (1) Mercury* based lamp is present in each notebook computer. Maximum mercury content is less than 5 mg of mercury per lamp. * Dell laptops launched effective 2010 do not contain mercury as lighting source.
	Other Uses	Other parts used in Dell products can not contain intentionally added Mercury.
Liquid Crystal Displays (LCD) - > 100 cm2		Product does contain an LCD greater than 100 cm2.
Cathode Ray Tubes (CRT)		Product does not contain a CRT



Plastic containing Brominated flame retardants other than in PCB / PCA	This product may contain plastic parts with Brominated flame retardants. Plastic parts location can be visually identified by their typical design function for the product (<i>also shown in the service manual</i>). See reference plastic list - Many of these parts (Greater than 25 grams) are bromine free. Regardless, these parts are labeled (usually molded directly into the plastic) per ISO 11469. A typical label would look like: > Polymer Abbreviation - FR(#) < i.e. > PC+ABS FR(40) < Flame retardant codes (FR(#)) are given in ISO 1043-4. Codes for some Brominated flame retardants: 14 aliphatic/alicyclic Brominated compounds 15 aliphatic/alicyclic Brominated compounds in combination with antimony compounds 16 aromatic Brominated compounds (excluding Brominated diphenyl ether and biphenyls) 17 aromatic Brominated compounds (excluding Brominated diphenyl ether and biphenyls) in combination with antimony compounds 22 aliphatic/alicyclic chlorinated and Brominated compounds 42 Brominated organic phosphorus compounds - Plastics parts weighing less than 25 grams may or may not contain brominated flame retardants. These smaller plastics parts may include: <i>Fan impeller, speaker, keycaps, thermal plate, plastics in power adapter</i> Recycler should treat these parts separately. For more information contact support or visit: https://support.dellproductcompliance.com/hc/en-us
Capacitors with PCB's	Dell does not use capacitors with PCB
Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)	Present in the product as system board, wireless card, Touch pad, Hard disk drive/Solid State drives and power adapter
Electrolyte capacitors (height > 25mm, diameter > 25mm)	Electrolytic capacitors (height and/or diameter greater than 25mm) are not used.
External Electric cables	May be present. (e.g Power Adapter)
Asbestos and its compounds	Parts used in Dell products cannot contain asbestos or its compounds
Refractory ceramic fibers	Parts used in Dell products cannot contain refractory ceramic fibers

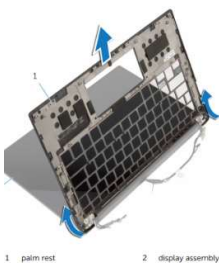
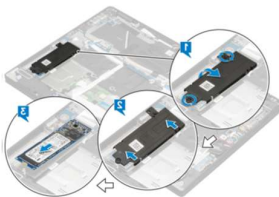


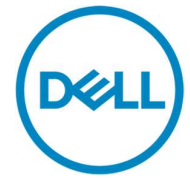
Radio-active substances	Parts used in Dell products cannot contain Radio-active substances.
Beryllium and its compounds (including Beryllium Oxide)	Beryllium may be present in electronic components as a copper beryllium alloy, which contains less than 2% beryllium. CuBe alloys may be used in various components such as connectors, switches, relays, current carrying springs, integrated circuit sockets, and RF shielding.
Gasses - which fall under Regulation (EC) 2037/2000 and all hydrocarbons (HC)	Parts used in Dell products do not contain gasses which fall under Regulation (EC 2037/2000) and all hydrocarbons (HC).
Components with pressurized gas which need special attention (Pressure > 1,5bar)	Product does not contain parts with pressurized gas.
Liquids	Product does not contain liquid.

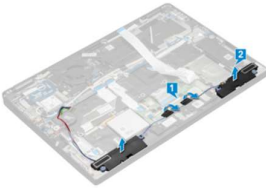
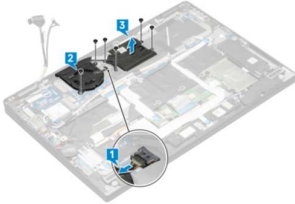
DELL CORPORATE ENVIRONMENTAL INFORMATION

Information on Dell's Environmental initiatives, policies, programs and goals can be found at www.dell.com/environment.

Representative plastics reference list*

Plastic Part name	Picture	Location Description
Log-up (Palmrest)		Houses and shields the electronic components underneath.
Base Cover		The base of the laptop
Thermal plate		As shown near the SSD Card



Speaker Enclosure		As shown in the picture near the edge of the notebook
Keyboard-Keycaps		Near the lower middle section of the base and often above over the system board and under palm rest.
Fans/Blower plastics (housing, impeller)		As shown here connected to heatsink and system board.
LCD Cover		Holds the display assembly and held with the display hinge screws
Power cable w/ Adapters		External to the product usually to power the unit.

**Some parts may not be applicable to all products in this family or may be made with material other than plastics*