Product End-of-Life Disassembly Instructions

Product Category: Data Storage Devices
Marketing Name / Model [List multiple models if applicable.]
Ultrium 4, LTO1840 full height external / EH861X, PD016X, EH854X & PD091X
Ultrium 3, LTO960 full height external / Q1539X & PD071
Ultrium 2, LTO460 full height external / Q1520B
Where X = any alphanumeric combination

Purpose: The document is intended for use by end-of-life recyclers or treatment facilities. It provides the basic instructions for the disassembly of HP products to remove components and materials requiring selective treatment, as defined by EU directive 2002/96/EC, Waste Electrical and Electronic Equipment (WEEE).

1.0 Items Requiring Selective Treatment

1.1 Items listed below are classified as requiring selective treatment.
1.2 Enter the quantity of items contained within the product which require selective treatment in the right column, as applicable.

Item Description	Notes	Quantity of items included in product
Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)	With a surface greater than 10 sq cm	7
Batteries	All types including standard alkaline and lithium coin or button style batteries	0
Mercury-containing components	For example, mercury in lamps, display backlights, scanner lamps, switches, batteries	0
Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm	Includes background illuminated displays with gas discharge lamps	0
Cathode Ray Tubes (CRT)		0
Capacitors / condensers (Containing PCB/PCT)		0
Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height	All on PSU	5
External electrical cables and cords		0
Gas Discharge Lamps		0
Plastics containing Brominated Flame Retardants	SCSI ribbon cable. SCSI enclosure only	1
Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner	Include the cartridges, print heads, tubes, vent chambers, and service stations.	0
Components and waste containing asbestos		0
Components, parts and materials containing refractory ceramic fibers		0
Components, parts and materials containing radioactive substances		0

2.0 Tools Required

List the type and size of the tools that would typically be used to disassemble the product to a point where components and materials requiring selective treatment can be removed.

Tool Description	Tool Size (if applicable)
Torx screwdriver	T5, T8 & T10
Crosshead screwdriver	Large
Small pliers	N/A

3.0 Product Disassembly Process

3.1 List the basic steps that should typically be followed to remove components and materials requiring selective treatment:

3.1.1 Remove the lid and front bezel. 5 x T-10 screws; 4 x underneath and 1 from the rear and clip off the front bezel.

3.1.2 Remove the mechanism from the enclosure chassis. 2 x T-10 screws at the rear of the mechanism; 4 x T-10 screws at the front of the mechanism – 1 x either side of the front panel and 2 x underneath the front panel. Disconnect the SCSI / SAS, SCSI ID and power cable and slide the mechanism out the front of the chassis.

3.1.3 Remove the SCSI I/O PCA at the rear of the enclosure (SCSI enclosure only). Use a pair of small pliers to unscrew the 4 x securing nuts at the rear of the enclosure – see image 1 below. The I/O SCSI PCA is > 10 square cm's and requires selective treatment. See images 1 & 2 below.

3.1.4 Disconnect the SCSI ribbon cable from the I/O PCA. Ribbon cable contains brominated flame retardant and requires selective treatment. See image 2 below.

3.1.5 Remove the SAS cable assembly (SAS enclosure only). Remove 2 x T-10 screws from the rear of the enclosure. Remove 4 x size '1' crosshead screws to remove the clamp from the SAS PCA. The PCA is > 10 square cm's – see image 3.

3.1.6 Remove the Power Supply Unit (PSU) from the enclosure chassis. Remove 2 x T-10 screws from the rear – above / below AC inlet filter, and 1 x T-10 screw from front side of chassis. Remove 2 x crosshead screws - one from the front, one from the rear and slide the lid back towards the rear of the PSU – see image 4.

3.1.7 Remove the PSU and the on / off PCA from their enclosure. PSU PCA is secured by 5 crosshead screws. 1 x crosshead securing the on / off PCA. The PSU PCA is > 10 square cm's. It also contains 5 x electrolytic capacitors. The on / off PCA is > 10 square cm's. See image 5.

3.1.8 Mechanism disassembly: remove the two wing brackets; remove the front panel (clip fit – two clips top, two bottom), and remove the lid and the base. You will need to cut the 4 x tamper-proof tapes, top and bottom to clip off the lid and the base.

3.1.9 Remove the main PCA. Disconnect all FFC / FPC connectors and 1 x cable connector. The main PCA is > 10 square cm's. See image 6. When the PCA is removed, remove the PCA shield. Located underneath the main PCA and secured by 2 x T-10 screws – see image 6.

3.1.10 Remove the CMWP PCA. Slide the cartridge assembly 2 cm back into the mechanism. Remove 5 x T-5 screws securing the PCA and remove from mech. CMWP PCA is > 10 square cm's – see image 7.

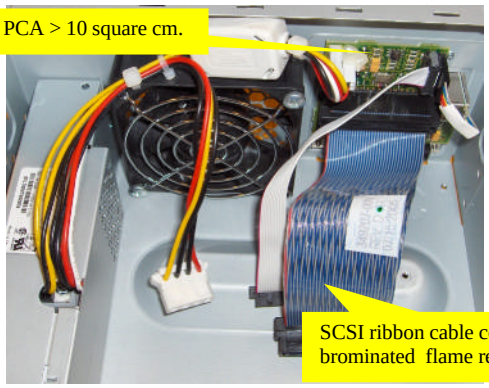
3.1.11 Remove the 2 x reel motor PCAs. Remove the tape reel. 3 x T-10 screws and cut the tape. Once removed, remove 3 x T-8 screws securing the front reel motor PCA and 3 x T-8 screws securing the rear reel motor PCA. Both reel motor PCAs are > 10 square cm's. See image 8.

3.2 Optional Graphic. If the disassembly process is complex, insert a graphic illustration below to identify the items contained in the product that require selective treatment (with descriptions and arrows identifying locations).

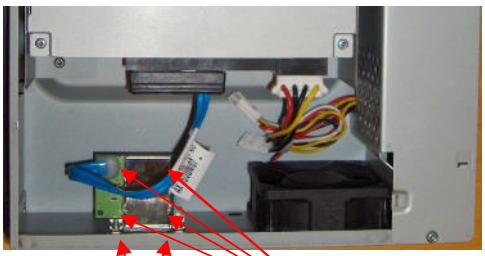
1)

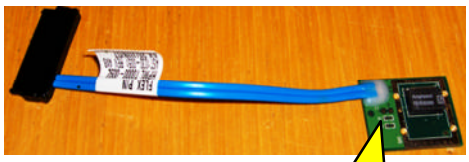
Remove 4 x securing nuts to remove the I/O SCSI PCA

2)

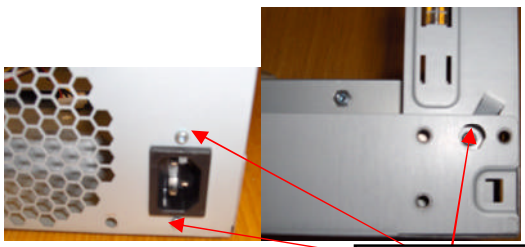


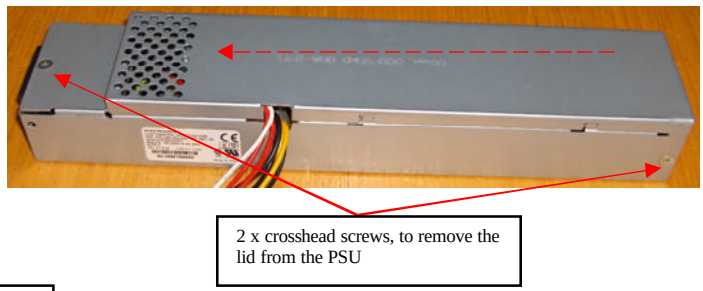
3)



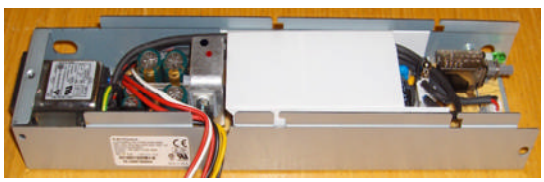


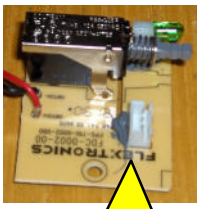
4) **Removing the PSU from chassis.**

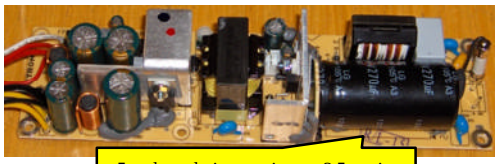




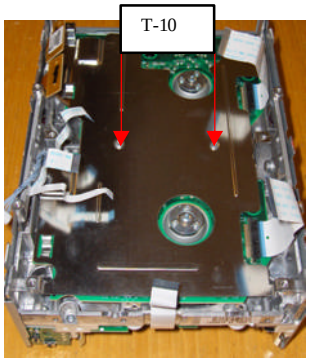
5) **PSU & on / off PCB removal**

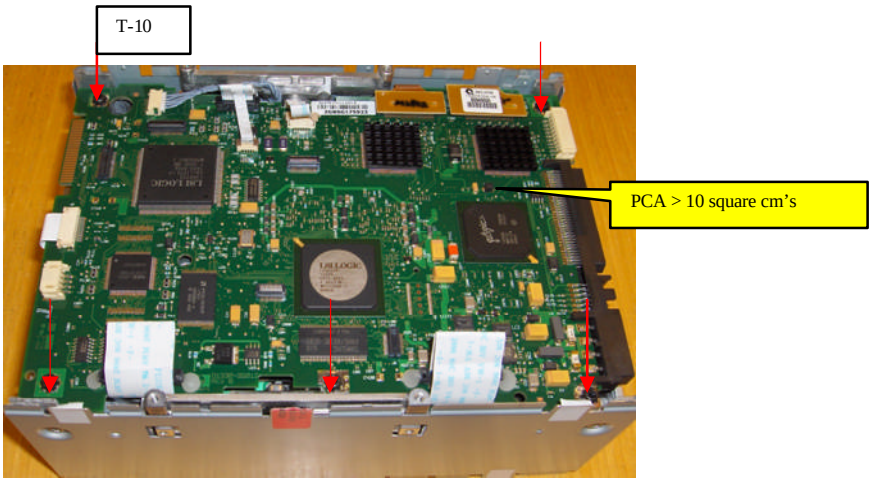






6) **Main PCA and FFC connectors.**

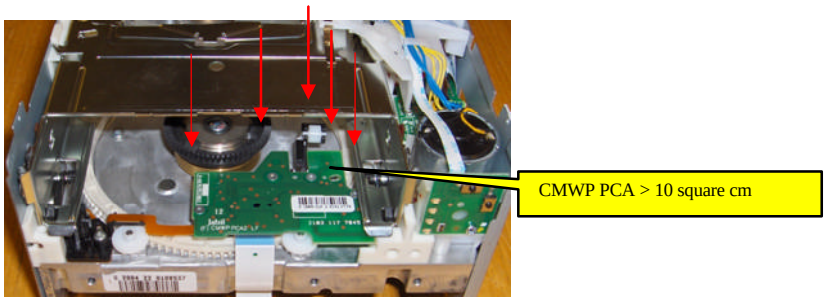




Above: PCA shield

7) **CMWP PCA.**

5 x T-5 screws



8) **Reel motor PCAs.**