Case studies

Unsafe / sub-standard electrical equipment at HKUST

Aspirator

Direct purchase from PRC



Aspirator

Body made of plastic



Aspirator

Incorrect type of power plug-



Aspirator

Exposed metal parts



Aspirator

Exposed metal parts accessible by operator



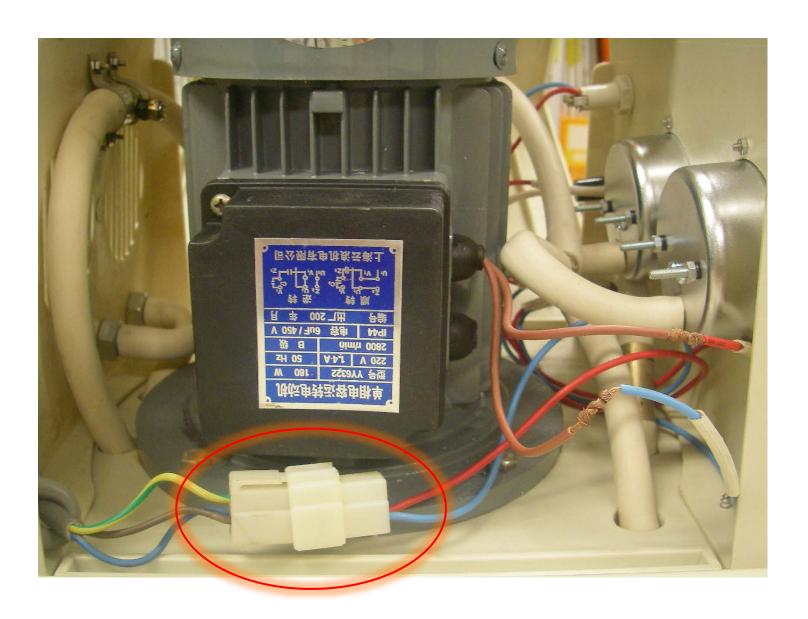
Aspirator

Internal wirings



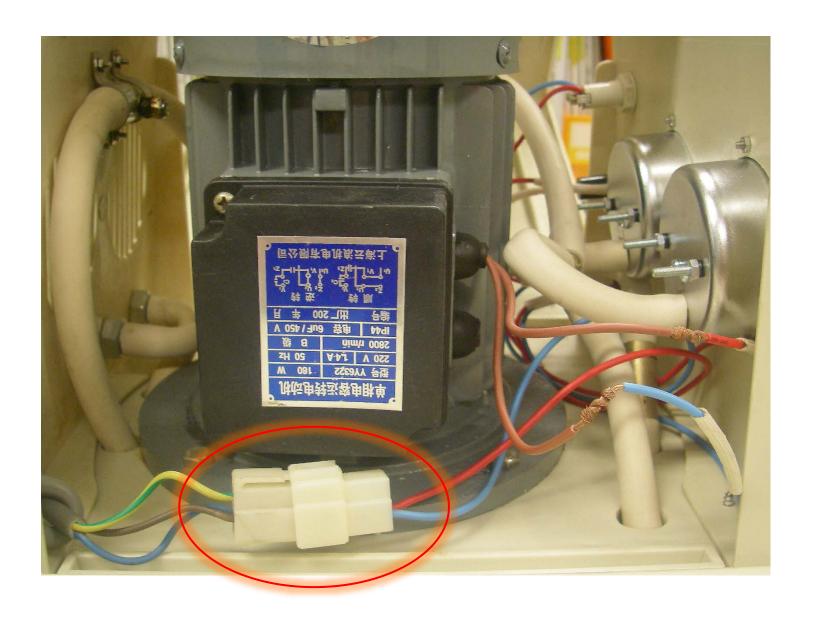
Aspirator

No earth connection



Aspirator

Insecure wires connection



Aspirator

Dislocated live wires may touch the metal parts and cause electric shock.



Mini Centrifuge



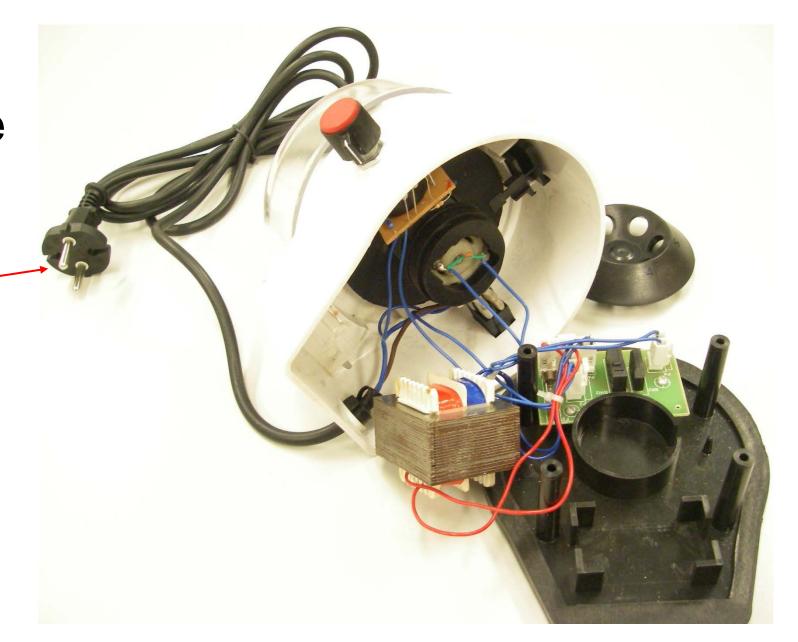
Mini Centrifuge

Body mainly plastic



Mini Centrifuge

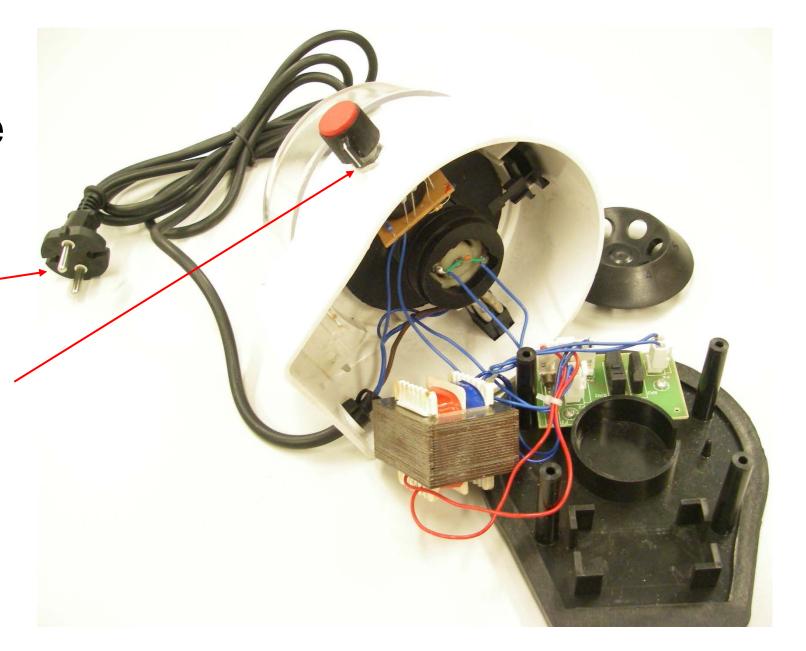
Power plug incorrect



Mini Centrifuge

Power plug incorrect

Metal parts accessible

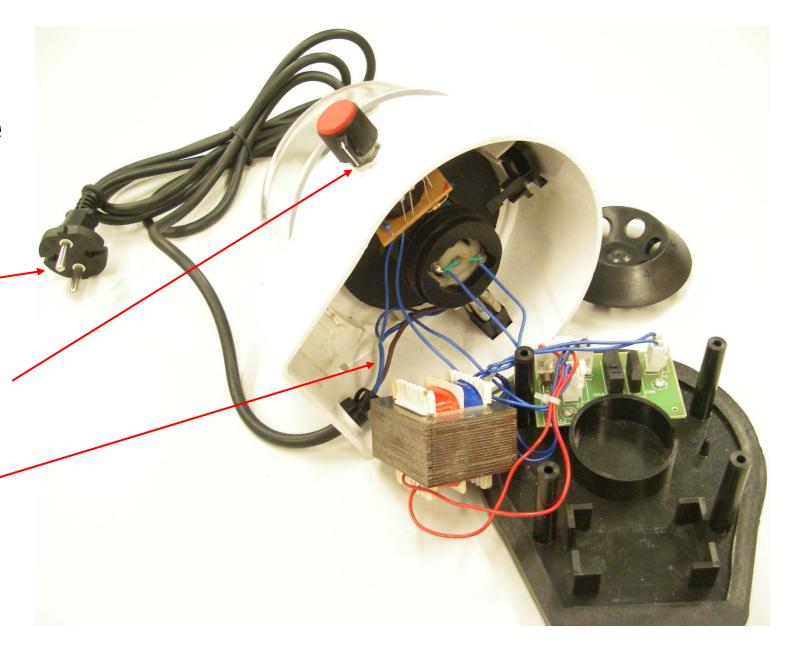


Mini Centrifuge

Power plug incorrect

Metal parts accessible

No earth connection



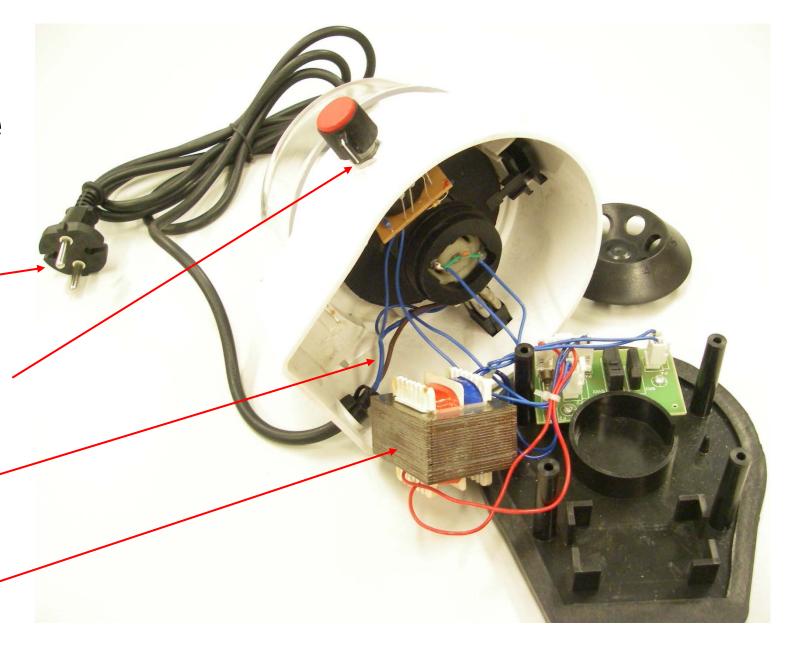
Mini Centrifuge

Power plug incorrect

Metal parts accessible

No earth connection

Transformer insecure



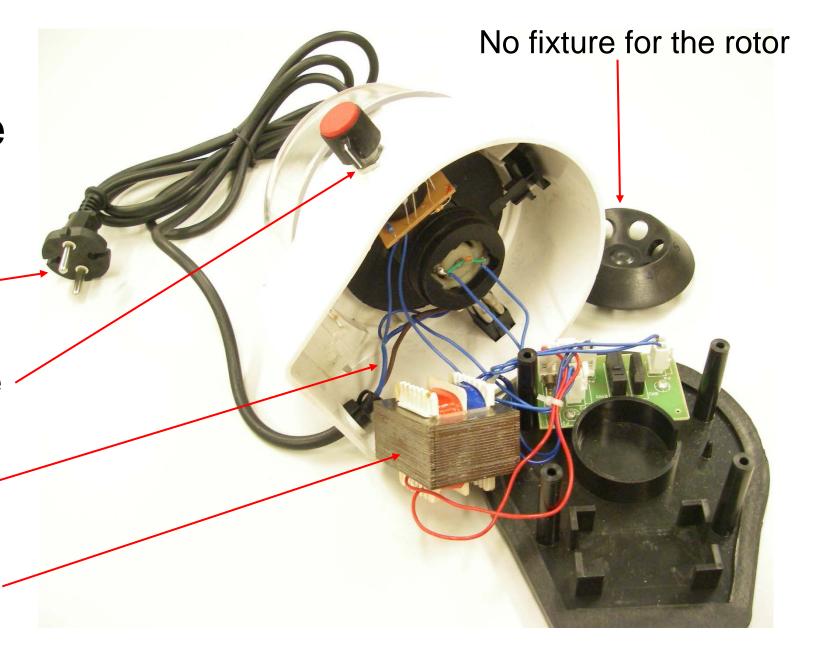
Mini Centrifuge

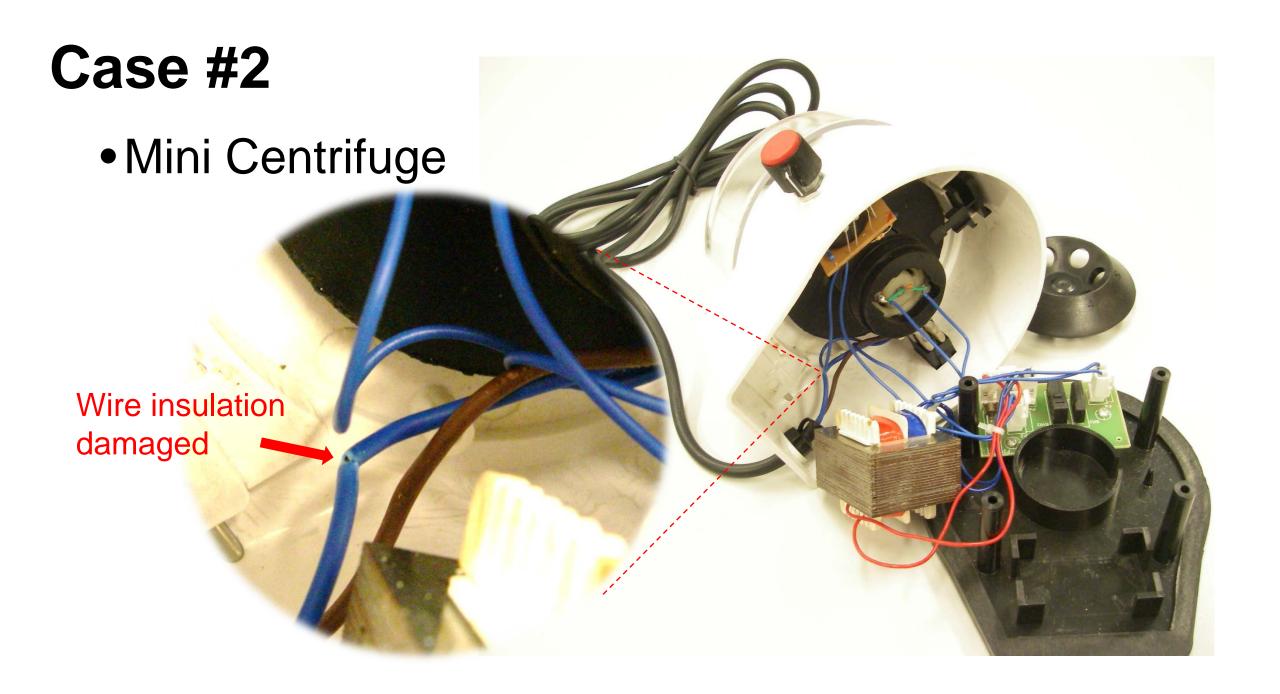
Power plug incorrect

Metal parts accessible

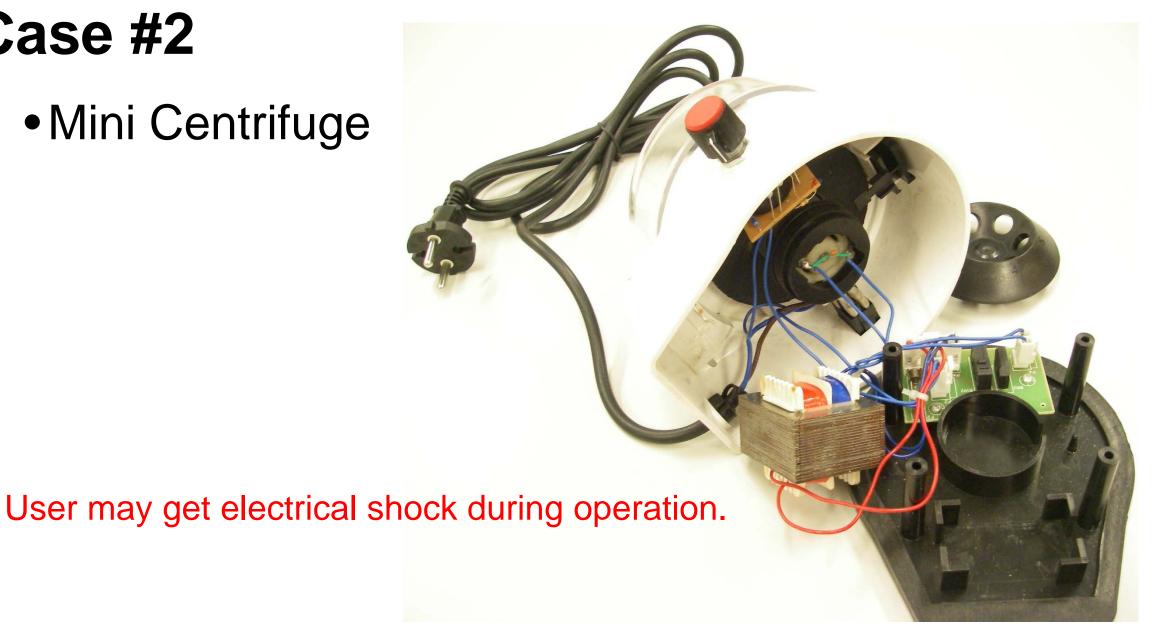
No earth connection

Transformer insecure





Mini Centrifuge



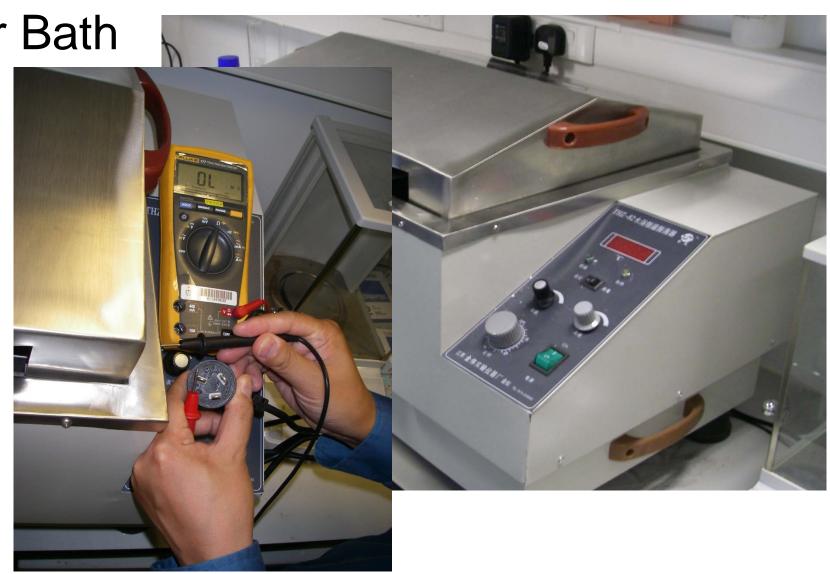
Shaking Water Bath

Made in PRC



Shaking Water Bath

No earth connection to the case.



Shaking Water Bath



Sharp edges

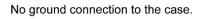
Shaking Water Bath



Shaking Water Bath

Having potential hazards during operation.









Shape edges

Exposed moving parts, can be accessed easily during operation.

Bottle Washer

Made in Japan



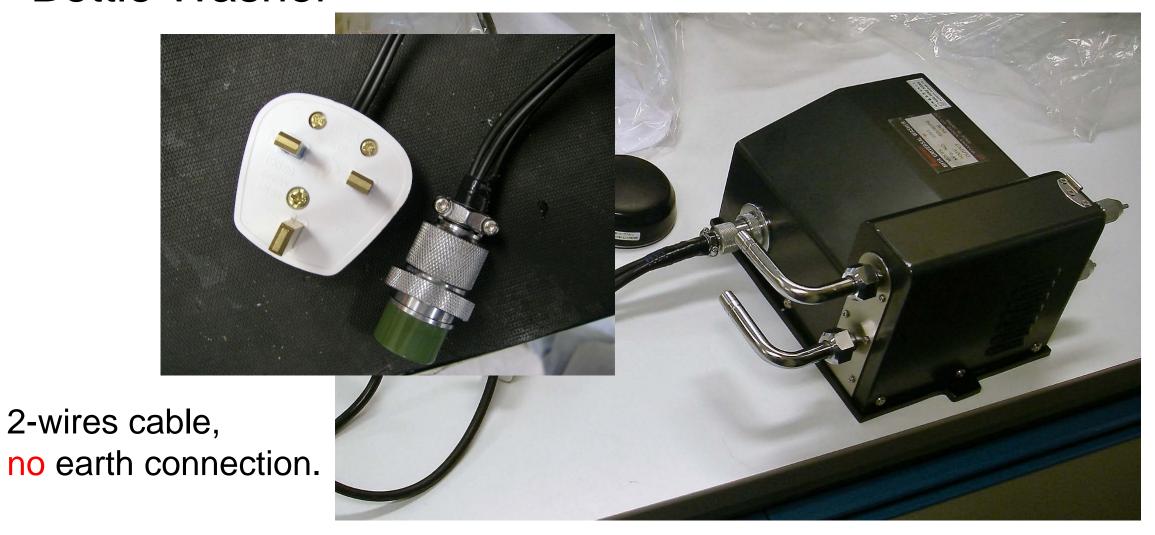
Bottle Washer

Made in Japan

Power plug modified by supplier.

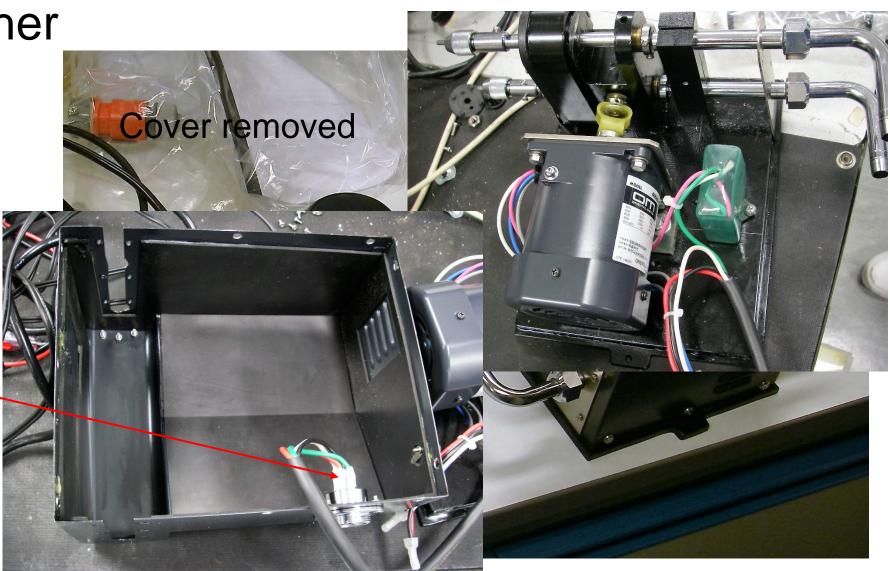


Bottle Washer



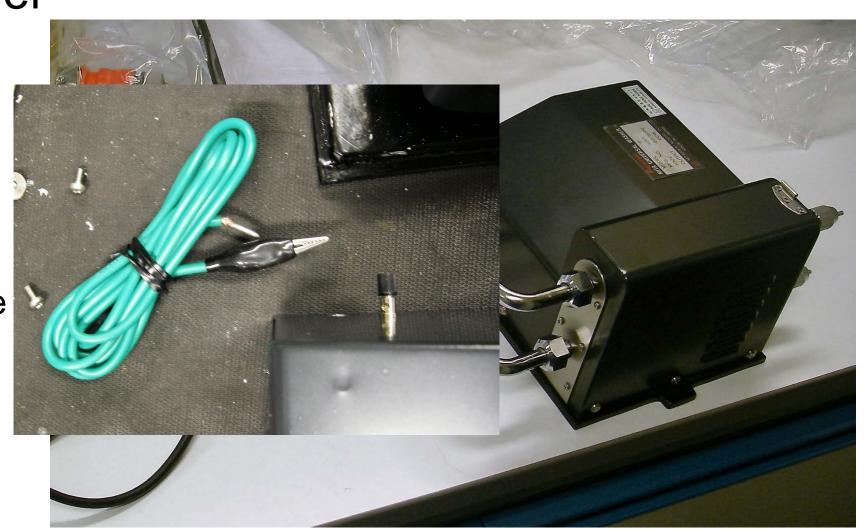
Bottle Washer

No earth connection to the case.

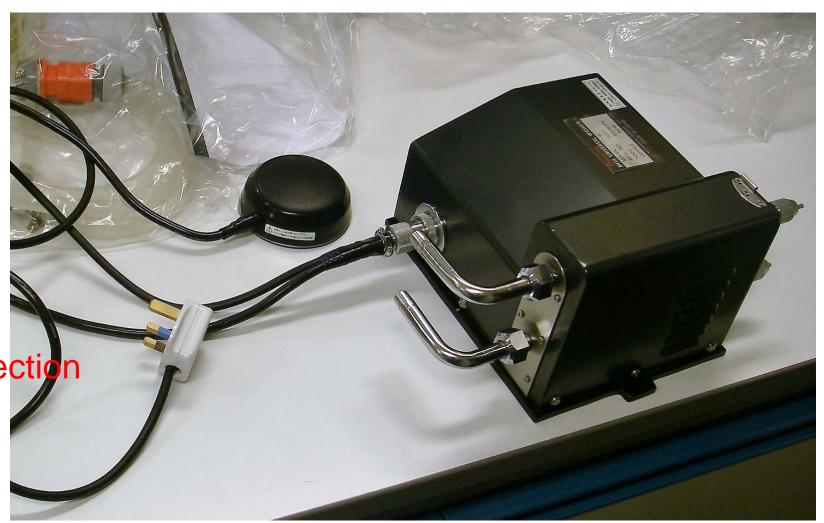


Bottle Washer

Improper / insecure earth connection



Bottle Washer



Insecure earth connection

More examples of no earth connection

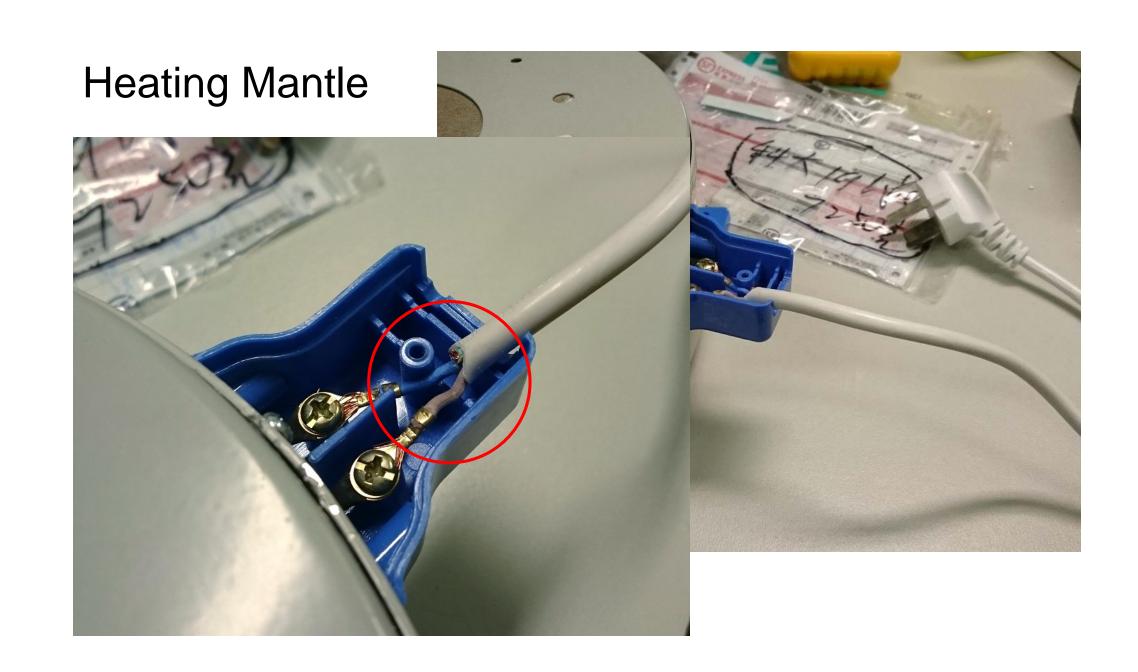
Pressure Heater

Tailor-made from PRC

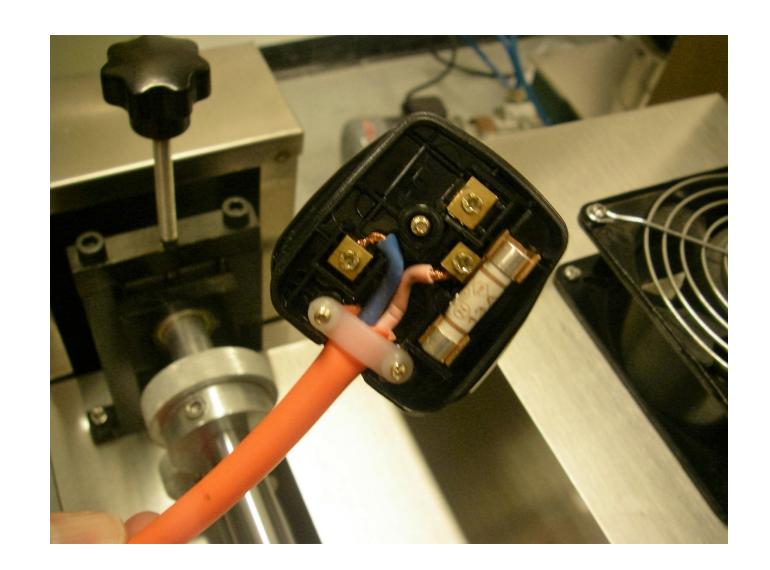
Live wires connect directly
No earth connection







Patching Machine

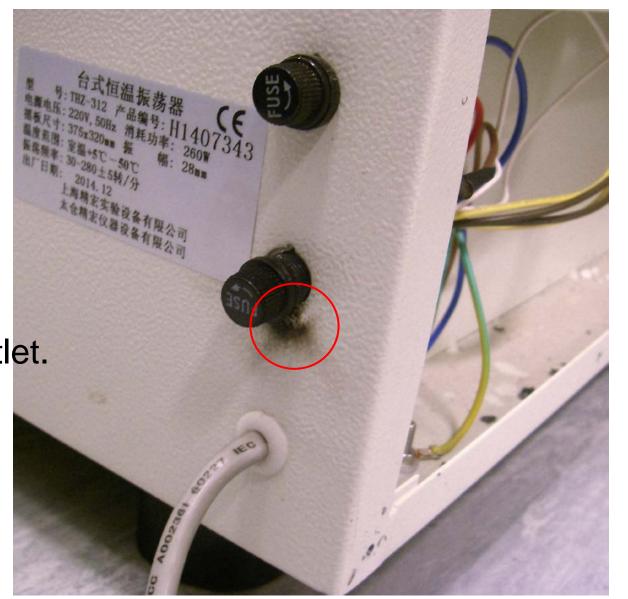


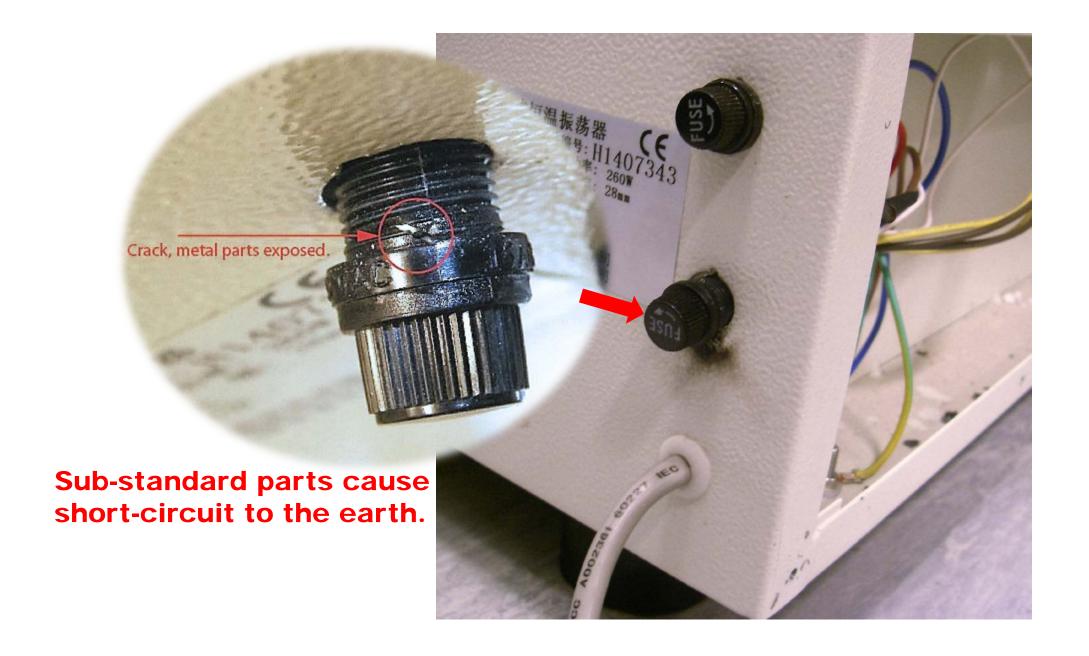
Sub-standard / poor quality parts

Shaker with temp. control

From PRC

Tripped RCD when plugged in the power outlet.

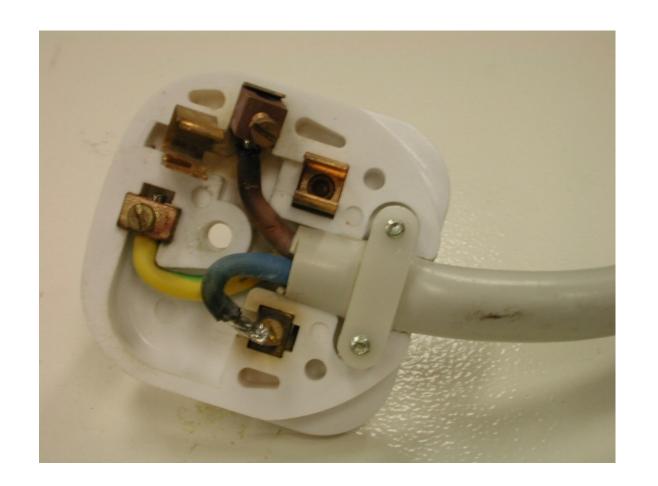




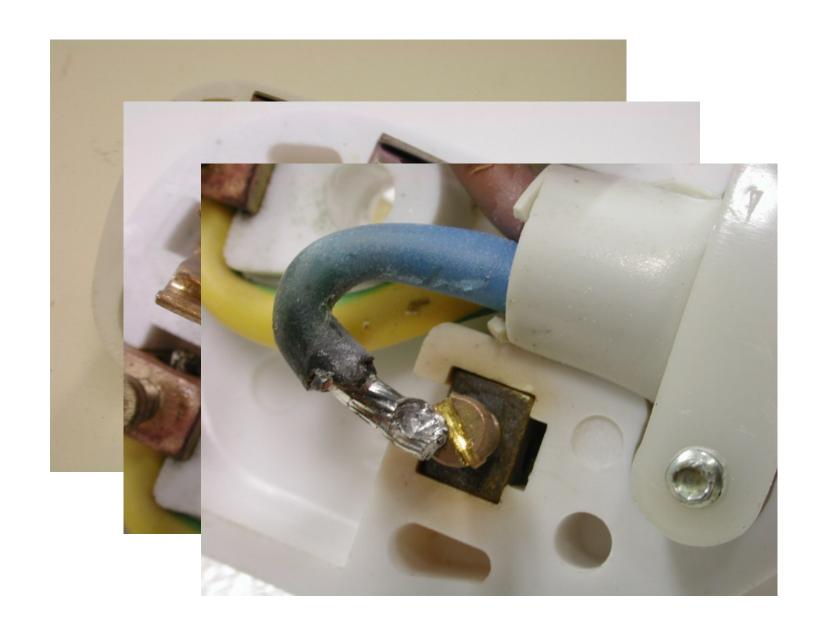
Insecure wire connection may cause fire hazard.

UPS 220V 13A







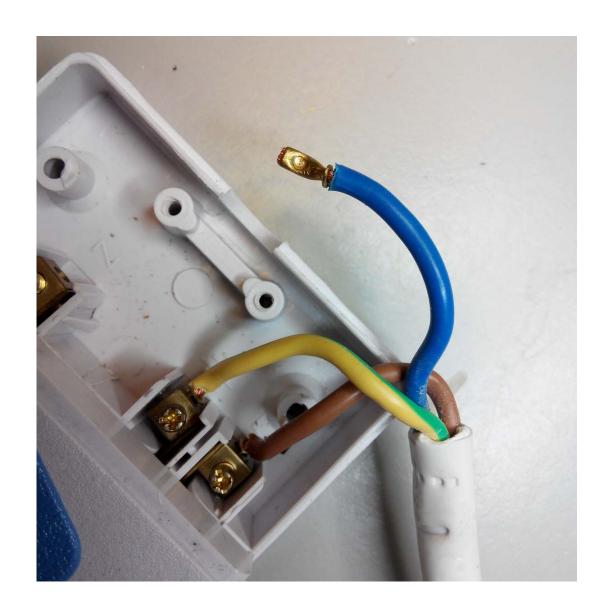


High Temp. Furnace

220V 13A



Copper eyelets



Multi-adapters

Insecure contact

Incorrect voltage



Equipment modified by user

Heating stirrer

Tripped RCD when plugged in the power outlet.



Heating stirrer



All wires were wrongly connected.



Technically ... YES

- Approval & guidelines from HSEO.
- User clearly knows what they want.
- Detailed specification of the equipment provided by the manufacturer.
- Certificate or test report issued by a recognized certificate body.

