

Replacement Procedure 22202PM

OsmoTECH® PRO Disassembly and Reassembly

Scope

This document describes how to disassemble and reassemble the instrument enclosure on the OsmoTECH® PRO Multi-Sample Micro-Osmometer. It is intended for use in conjunction with service procedures that require access to the OsmoTECH PRO interior.

Tools required

- #1 and #2 Phillips screwdrivers
- 5/16" nut driver
- Static grounding wrist strap

Related documents

OsmoTECH PRO Service Guide (p/n 222006EN)

Safety notices



WARNING: Hazardous Voltage. Power cord must be disconnected to prevent electrical shock.



NOTICE: Internal components may be damaged by static electricity. A static grounding wrist strap must be worn during this procedure.



NOTICE: Improper connections may cause damage to the instrument.

Disassembling the instrument

Removing the rear and side enclosure

1. Power down the OsmoTECH PRO and unplug the power cord from the rear of the instrument.
2. Remove the turntable [A] and evaporation cover [B] by unscrewing the turntable locking screw [C], and set all items aside.



3. Remove the four screws [D] securing the rear enclosure and set the screws aside.

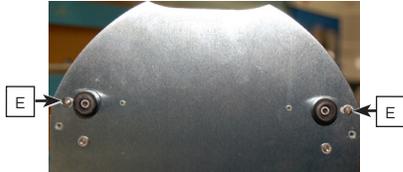


4. Slide the rear and side enclosure off of the instrument.

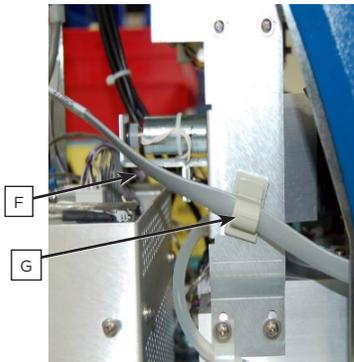


Disconnecting the control PCB

1. Rest the instrument on its back side.
2. Remove the two screws and washers [E] from the bottom of the chassis and set them aside.



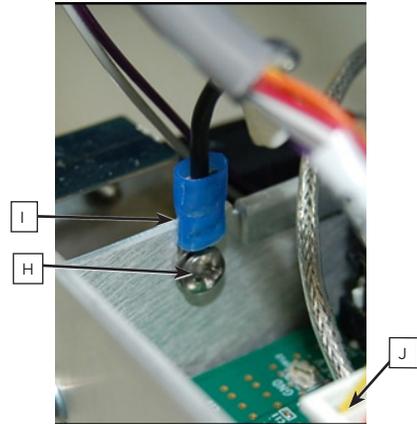
3. Place the instrument in an upright position.
4. Disconnect the C1 barcode scanner connector from the control PCB.
5. Remove the barcode scanner cable [F] from the cable clamp [G] that is mounted on the osmometer module frame.



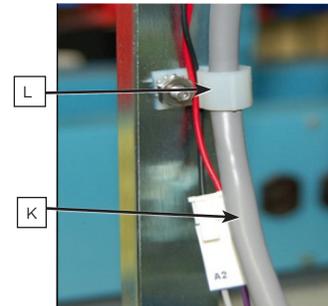
6. Unplug the C3 connector from the control PCB.

Removing the bezel assembly

1. Remove the screw [H] that attaches the C3G ring terminal [I] to the side of the power supply and controls assembly [J], and set the screw aside.



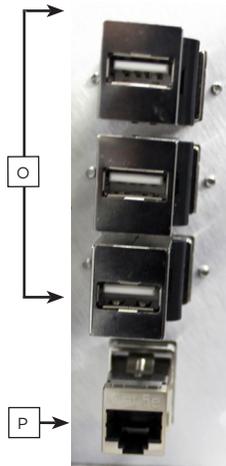
2. Remove the cable [K] with the C3 connector from the cable clamp [L] mounted on the chassis.



3. Unscrew and remove the cable clamp [M] that secures the USB, Ethernet, and display cables to the inside of the chassis [N], and set the clamp and screw aside.



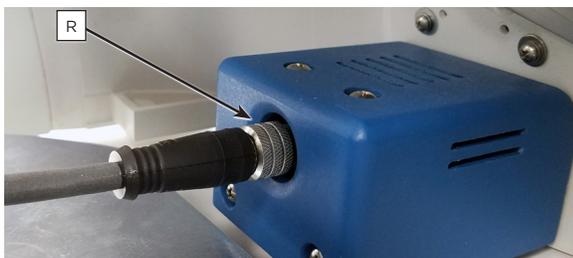
4. Unplug the three cables from the USB ports [O] and the cable from the Ethernet port [P] on the power supply and controls assembly.



5. Remove the two screws [Q] that secure the bezel to the chassis, and set the screws aside.



6. Carefully lift and the bezel assembly from the base assembly and slide it forward until there is enough room to access the cable attached to the card reader.
7. Unscrew the cable and disconnect the plug [R] from the reader.



8. Continue lifting the bezel assembly until it is free of the chassis.

The instrument is ready for service procedures that require interior access.

Reassembling the instrument

Replacing the bezel assembly

Refer to [Removing the bezel assembly](#) for images and callouts.

1. Carefully place the bezel assembly into the base assembly.
2. Secure the bezel to the chassis with the two screws [Q].
3. Plug the three USB cables into the USB ports [O] and the Ethernet cable into the Ethernet port [P] on the power supply and controls assembly.
4. Secure the USB, Ethernet, and display cables to the inside of the chassis [N] with the cable clamp [M].
5. Secure the cable [K] with the C3 connector using the cable clamp [L] mounted on the chassis.
6. Secure the C3G ring terminal [I] to the side of the power supply and controls assembly [J] with the screw [H].

Reconnecting the control PCB

Refer to [Disconnecting the control PCB](#) for images and callouts.

1. Secure the barcode scanner cable [F] with the cable clamp [G] that is mounted on the osmometer module.
2. Connect the C1 barcode scanner connector to the control PCB.
3. Align the key in the card reader cable to the mating slot in the reader and insert the plug into the card reader connector [R] (see [Removing the bezel assembly](#)).
4. Rest the instrument on its back side.
5. Replace the two screws and washers [E] on the bottom of the chassis.

Replacing the rear and side enclosure

Refer to [Removing the rear and side enclosure](#) for images and callouts.

1. Slide the rear and side enclosure onto the instrument.
2. Secure the rear and side enclosure with the four screws **[D]**.
3. Replace the turntable **[A]** and evaporation cover **[B]** and secure them with the turntable locking screw **[C]**.
4. Connect the power cord and power on the instrument and confirm that the screen appears.