OsmoTECH Solenoid Cleaning

Created: 2026-01-24 | 12 Steps | Source: undefined

Standard Operating Procedure for cleaning the solenoid in a single sample osmometer.

REQUIRED PPE

gloves

MATERIALS REQUIRED

Phillips Head Screwdriver | Isopropyl Alcohol | Non-Abrasive Wipe | Chamber Cleaner

PROCEDURE STEPS

1

Lift the tab

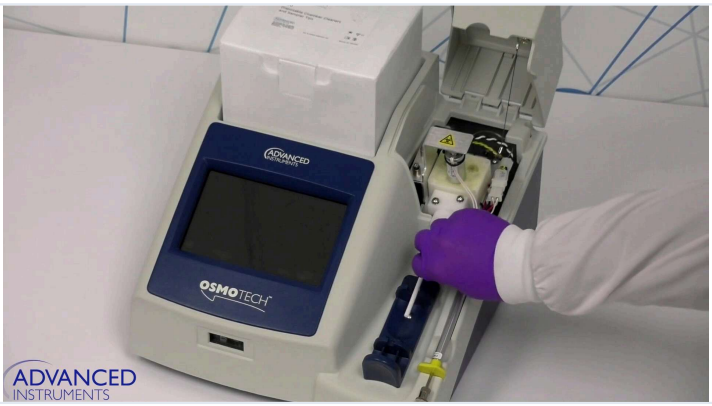
To start, lift the tab shown on the right side of the instrument. Be mindful, there is a wire inside that keeps the hood connected to the device.

> ⚠️ **SAFETY WARNING**
> Be mindful, there is a wire inside that keeps the hood connected to the device.

2 Add chamber cleaner

Before we begin, if not already done, put a chamber cleaner into the well, until you feel a positive stop. We will leave that inside the well for the remainder of the solenoid cleaning.

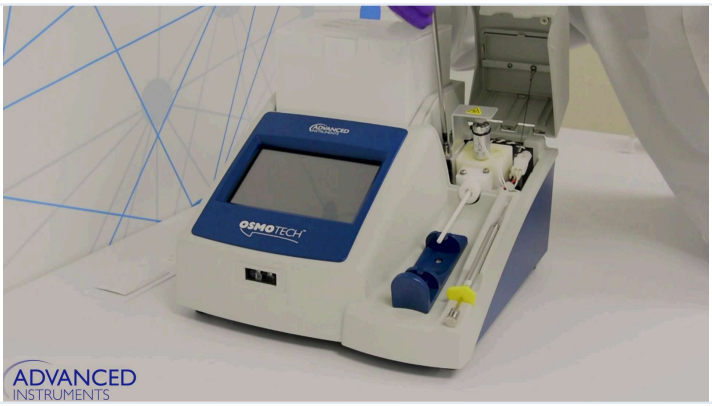
chamber cleaner



3 Remove captive screws

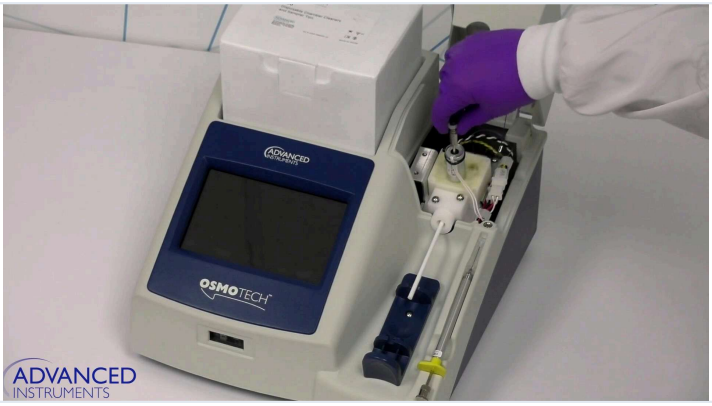
Remove the two captive screws from the side, using a Phillips screwdriver, then remove the bracket.

Phillips screwdriver



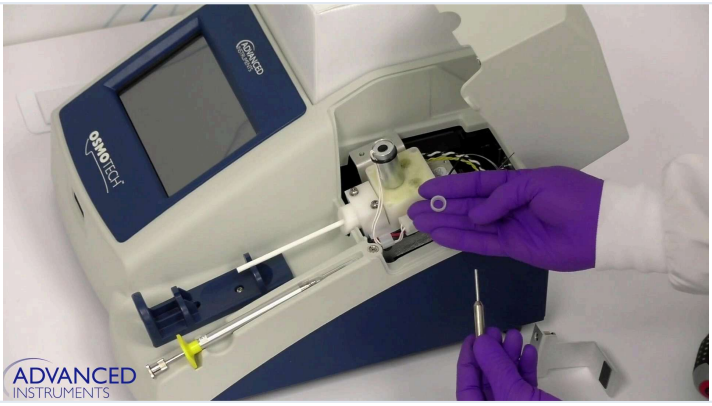
4 Remove the plunger

Once the bracket is removed, you can access the solenoid.



5 Solenoid parts

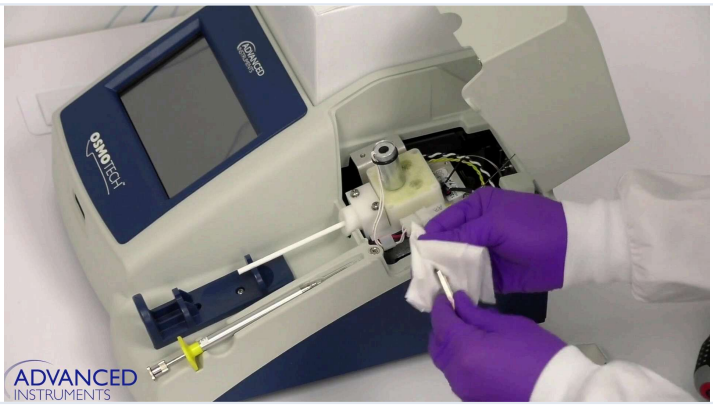
The plunger has three parts. The parts are: the spring, the cup washer, that is one directional, and a flat plastic washer.



6 Clean the solenoid

Once removed, you're left with the stainless steel solenoid. Take isopropyl alcohol on a wipe, and clean the solenoid. Wait roughly 10 seconds for it to dry.

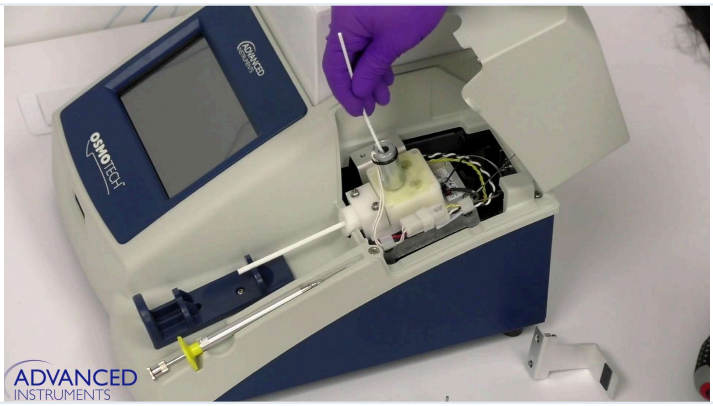
isopropyl alcohol wipe



7 Clean the solenoid cylinder

Take a swab, add isopropyl alcohol to the tip, and press it into the solenoid cylinder. Swirl the swab around, making sure to get the entire interior.

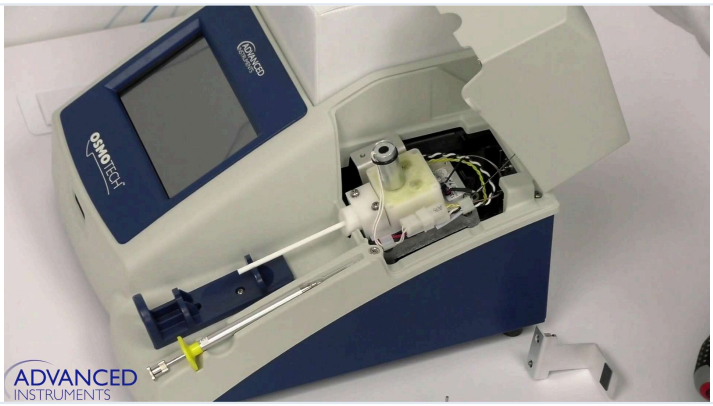
swab isopropyl alcohol



8 Clean the narrow end of the cylinder

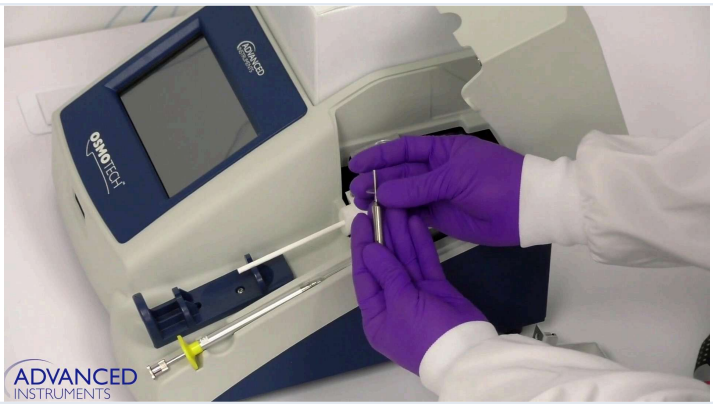
Take the back end of the swab, and use it to reach inside the narrow end of the solenoid cylinder.

swab



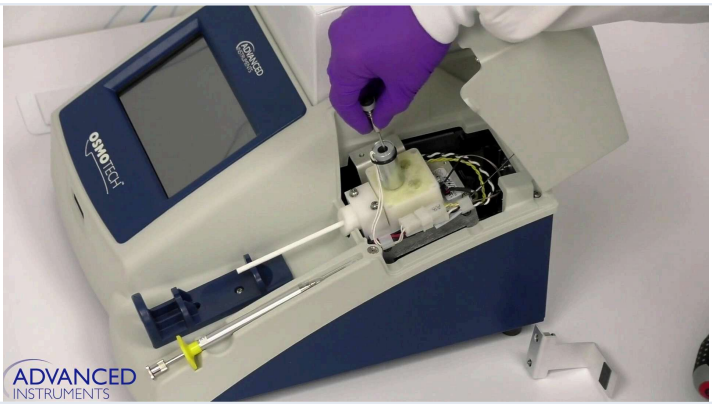
9 Reassemble the solenoid

Reassemble the solenoid by placing the flat plastic washer first, then the cup washer, facing in the correct direction, so that you can add the spring, which will sit inside of the cup washer.



10 **Replace solenoid**

Take the solenoid assembly and place it back into the well. Make sure there is no grinding or binding.



11 **Reattach bracket**

Reattach the bracket and then lower the hood.

12 **Recalibrate**

You've completed the solenoid cleaning. Recalibrate the instrument before use.

Generated by FrameOps | 2026-01-24 14:05:04