

How to Fix Photovac 2020 Won't Turn Off or Won't Stay On

*****WARNING This Procedure Is Recommended For Experienced Photovac 2020 Technicians*****
Geotechnical Services Recommends you send your instrument to an authorized Photovac Service center for any repair procedures not specifically listed in the operations manual.

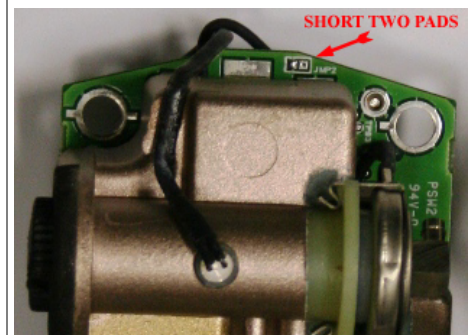
Photovac 2020 Won't turn off or won't stay on. This happens when the main battery loses its charge and then the backup memory battery drains completely trying to preserve the memory. (Note: This is often an indicator of a bad main battery pack.) After re-charging the 2020 its processor gets out of sync and it will not turn off or it may not stay running. The fix for this is fairly easy. However, it involves opening the instrument and taking it partially apart. This should Not be attempted if you are not comfortable with taking apart instruments (and putting them back together in one piece). First, plug the 2020 charger into the 2020 and let it charge for at least 4 hours. Turn the 2020 on and press "enter", "set" and "pump" to turn the pump off. Charging with the 2020 turned on will ensure the internal battery gets charged as well. To Hard Start the Motherboard/Processor:

First Disconnect the Charger.

1. Remove the 4 screws from the back of the case.
2. Remove battery cover plate, battery and two screws with standoff washers.
3. Remove Lamp cover, Lamp (don't touch the flat surface) and Chrome Inlet.
4. Gently pull the front plate away from the back plate.
5. Remove Silver screw from bottom-middle of motherboard.
6. Gently pull Motherboard assembly from the bottom case, A short tube from the pump to the case will come off the case or pump.
7. Locate the Two Solder pads marked JMP2 on the back side at the top of the circuit board.(See Picture JMP2)
8. Short out the two pads with a small metal screwdriver for at least 15 seconds.
9. Put the instrument back together and test by turning on and then off.
10. That is it, keep it charged up and get a new battery if it persists.

Due to the years past since the discontinuation of the Photovac 2020 , it is assumed that the internal memory battery is not going to hold a charge. As this battery is soldered to the main IC board and is required to be replaced by the Photovac factory to retain the Intrinsic Safety certification of the instrument, we are no longer able to service these instruments.

The manufacturer's website is at www.photovac.com



Step 8
(Short The Solder Pads of JMP2)