

# **Transcript for Checking for Loose Connections and Replacing the Battery in the Cimel Control Box**

The first order of business is to loosen the 4 screws around the corner so that the lid can be removed. Sometimes the box does not cooperate and when you first receive the instruments it's always a good idea to open up the control box to just make sure that everything has survived the shipping process and then you need to also remove this battery connector, there are two types of connectors, the original battery comes with a black connector from Cimel, we typically replace that with a white plastic version and if we ever need to send you a battery replacement its important for you to determine which type you have so we can send you the correct battery type. So regardless of which type you have you'll need to first disconnect the connector and then to remove the circuit board you push in the notches on these plastic pins and the entire circuit board will simply lift up, a quick check of the connectors inside the control box will ensure that nothing has been loosened during shipping. So there are various ribbon cable connectors that should be checked and ensured to be tight, they will come loose, there are some here beneath of the base of the circuit board in front and as well you need to check that all of the EPROMS are firmly pressed in. Additionally on the circuit board itself there are several connectors, there in one which is located beneath the display screen and also the connector on top and if any of these are loose the Cimel will very likely not perform properly. It's not uncommon for the circuit board itself to become dislodged from its base particularly if the control box has been bounced around during the shipping process. So you can see here that the connector is not actually slid tightly into the base so it's often worth the trouble to pull it all way out and replace the circuit board back into the socket. It only takes a second and it can avoid a lot of problems down the road. Once you've verified all of the connections and also the circuit board you can go ahead and reconnect the circuit board and click it back on to the pins that hold it in place and then reattach the battery. In particular for this type of connector you want to be sure that you the pins in the correct direction, it is possible to put it in backwards and reverse the polarity which will damage the instrument. The battery is held in place by the 2 gray plastic boards. If you ever do need to replace the battery it is very important that you do secure it in place so the battery doesn't bounce around in the control box and destroy the circuit board during transit. At this point all you need to do is replace the lid and in doing so you want to be careful that you don't trap any of the wires between the lid and the control box and then simply tighten the screws. It's a simple thing to do but we recommend that everyone does this before the installation to avoid any problems that may have developed during the shipping process.

**Video Name: ControlBox.avi or ControlBox.mov**

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