

## How to Replace a Topographic Delay Faceplate

### Tools required:

- 5/16" nut driver ([example](#))
- 10mm nut driver ([example](#))
- 7mm nut driver ([example](#))
- Tweezers (optional) ([example](#))
- 0.050" hex driver ([example](#))
- Soldering Iron
- Desoldering Pump ([example](#))
- Circuit board holder or vice ([example](#))

For a video guide, or guides for other modules see the [4ms Company website](#)

### Instructions:

1. Use back end of the tweezers to pry up the knobs, taking care not to scratch the faceplate.  
*If your hands have a very strong grip, you might be able to remove the knobs without using a tool.*
2. Use the 5/16" driver to unscrew the nuts on the jacks.  
*Be careful when pressing down, metal drivers can scratch the panel.*
3. Use the 10mm driver to unscrew the nuts on the pots.
4. Use the 7mm driver to unscrew the nuts on the mini-switches.
5. Use the 0.050" hex driver to unscrew the mounting screws from the front of the panel
  - a. The aluminum threaded stand-offs can remain on the PCB, along with the mounting screws attaching them to the PCB.
6. Remove the panel from the PCB.  
*Use caution, the FSR pad will still be attached to the panel.*
7. Use the soldering iron and desoldering pump to remove the two leads of the FSR pad from the PCB.
8. The new panel will have a new FSR pad already attached. Bend the tail of the new FSR pad slightly up to form an "S" shape when the PCB is attached (this process can be found the tutorial video).
9. Insert the leads of the FSR into the holes on the PCB.
10. Place the faceplate over the jacks, pots, and switches.
  - a. You may want to loosely install a few nuts so the faceplate doesn't fall off.
11. Solder the leads of the FSR pad to the PCB from the back side.
12. Thread all nuts by hand onto the jacks, switches, and pots.
13. Finger-tighten all the nuts.
14. Use the drivers to tighten all the nuts: turn the driver ¼ turn past finger-tight  
*Overtightening nuts can scratch the panel or cause parts to break!*
15. Re-attach knobs, aligning the flat side of the pots with the white line on the knob.
  - a. Press knobs on firmly so they can't go down any further.