
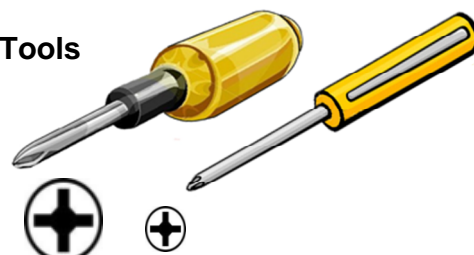
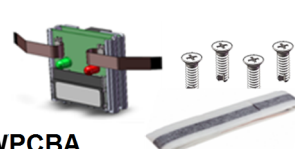
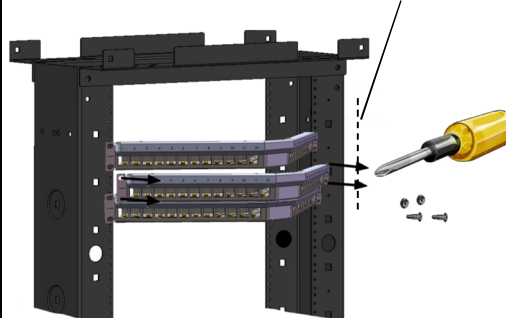
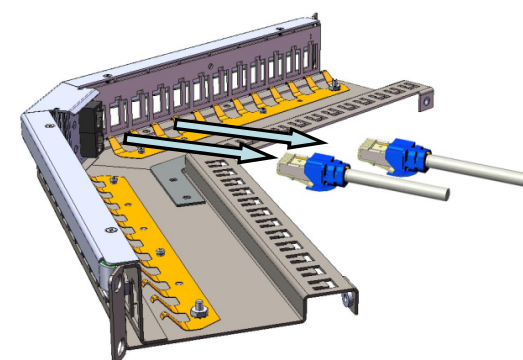
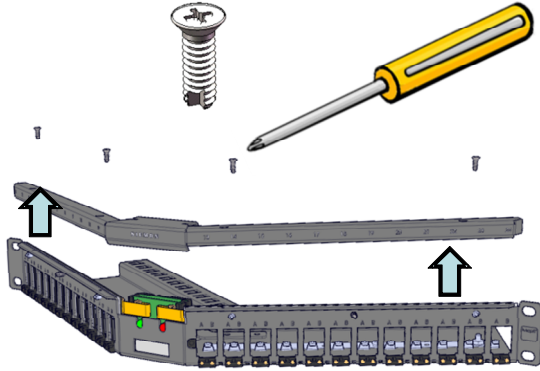
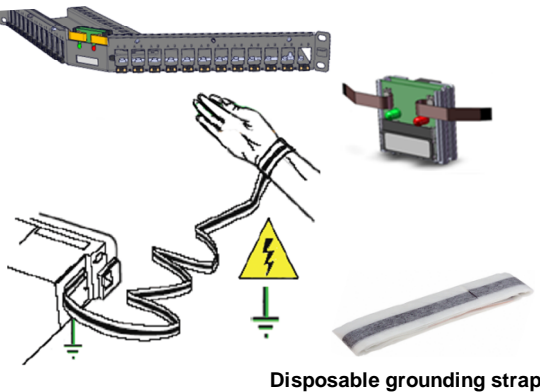
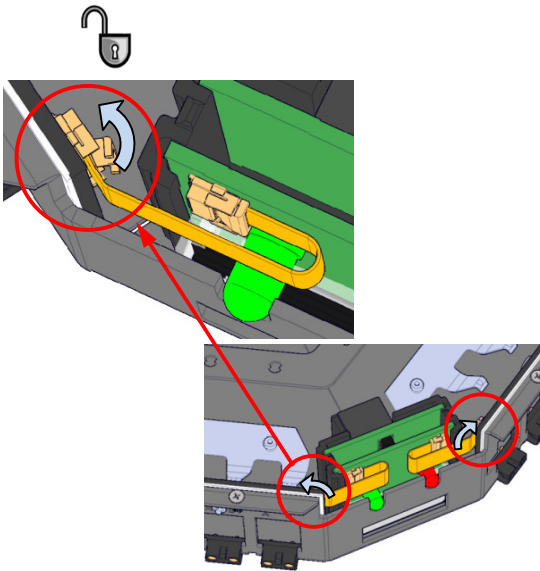


# Field Replacement of defective PCB module in TERA MapIT SPPAT (Smart Patch Panel – angled TERA version)

If you have any questions, you can contact Technical Support at (860) 945-4385 or E-mail at: [technical\\_support@siemon.com](mailto:technical_support@siemon.com).

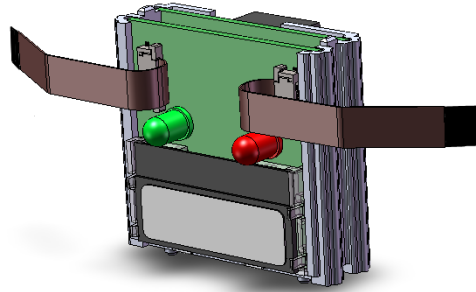
<p><b>Required Tools/Hardware:</b></p> <ul style="list-style-type: none"><li>➤ Large Phillips screwdriver</li><li>➤ Small Phillips screwdriver</li><li>➤ PCBA replacement kit</li></ul> <p><b>Caution:</b> PCB module and boards are static sensitive, be sure to use grounding wrist strap included before handling.</p> 	<p><b>Tools</b></p>  <p><b>Replacement Kit:</b></p>  <p>p/n: M-SPPAT-NEWPCBA</p>
<p><b>1.) Partially detach from rack and pull out approximately 3-to-4 in. (75–100mm) to access control cables and cover screws.</b></p>	<p>If panel is terminated with cable, partially detach from rack - pull out ~3–4 in. (75–100mm) to access cover screws.</p> 
<p><b>2.) Temporarily disconnect both input &amp; output control cords from back of SPPA.</b></p>	

# Field Replacement of defective PCB module in TERA MapIT SPPAT (Smart Patch Panel – angled TERA version)

<p><b>3.) Remove Cover (four machine screws).</b></p>	 <p>The diagram illustrates the removal of the cover. A screwdriver is shown removing four screws from the top of the module. The cover is then lifted away from the PCB module, as indicated by upward-pointing arrows.</p>
<p><b>4.) Remove any static charge before handling exposed panel or new PCB (use disposable grounding strap included with kit).</b></p>	 <p>The diagram shows a hand holding a disposable grounding strap. The strap is connected to a ground point, and a warning symbol (lightning bolt) is present. The strap is labeled "Disposable grounding strap".</p>
<p><b>5.) Gently open ribbon cable connectors (using fingernail or small flat screwdriver) to unlock ribbon cable connection.</b> <i>(Repeat on both sides being careful not to damage connectors).</i></p>	 <p>The diagram shows the process of unlocking the ribbon cable connectors. A small flat screwdriver is used to gently open the connectors. The process is repeated on both sides, as indicated by the "2X" label.</p>

## Field Replacement of defective PCB module in TERA MapIT SPPAT (Smart Patch Panel – angled TERA version)

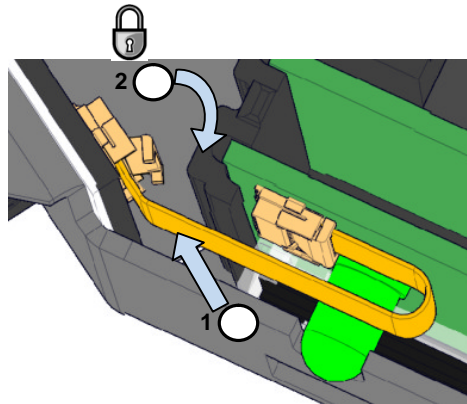
6.) Pull out both ribbon cables, lift out defective PCB assembly and replace with new PCB assembly.



7.) Insert ribbon cables and relock both connectors.

**IMPORTANT:**

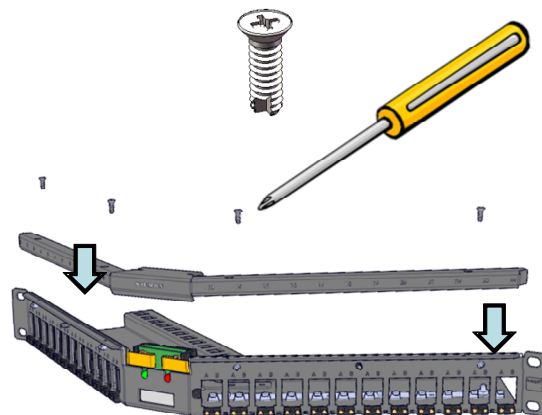
*(Note: Be sure ribbon cable is fully and evenly inserted before locking connectors).*



2X

8.) Reinstall cover and secure with four machine screws.

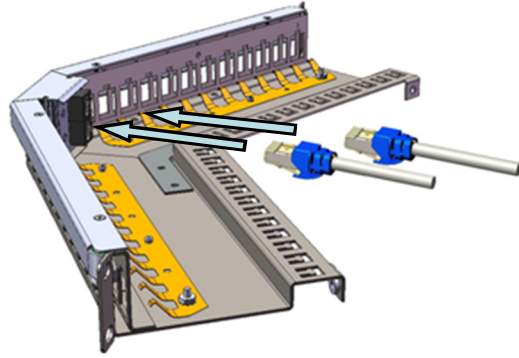
*(Note: Be sure cover and PCB assembly are aligned properly before securing screws).*



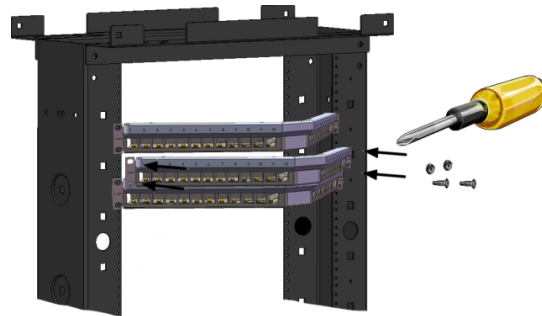
## Field Replacement of defective PCB module in TERA MapIT SPPAT (Smart Patch Panel – angled TERA version)

### 9.) Reinstall control cables.

*(Be sure not to reverse input & output cords or the system will not function properly).*



### 10.) Finally, re-secure panel to frame.



### Firmware update:

*If connected properly the panel firmware and panel ID's will update automatically however, you will want to clear the unused panel(s) that have been replaced. The 'Clear Unused Panel' command is accessed from the setup menu of the associated MCP (Master Control Panel). If additional instructions on performing this operation are required, please reference the MapIT G2 Training Manual.*

END TERA MapIT PCB module replacement