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# SLB200 BATTERY INDICATOR BUILD GUIDE

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A brief guide to updating your SLB200 to include a battery indicator



The Yamaha SLB200 is a great instrument, however I always thought it would be nice to have a visual reminder of the battery status. I decided to solve this issue by adapting a portion of the FDeck HPF-Preamp to meet my needs. More information on the FDeck preamp can be found here: <https://sites.google.com/site/hpftechllc/home/technical-diy-stuff/hpf-pre-series-3-technical-info?authuser=0>

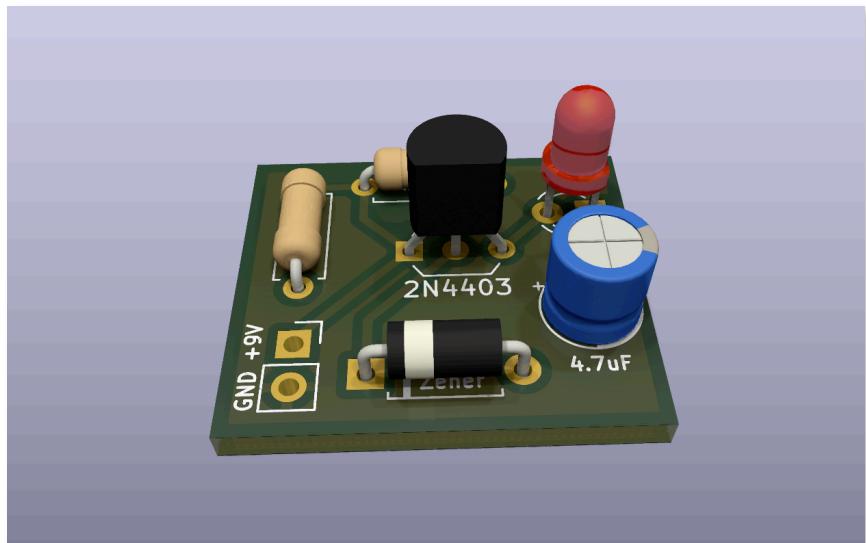
This is a fairly straightforward and simple retrofit and should take less than an hour for those comfortable with soldering and drilling. **\*Note- this will not work on the SLB300 because the minimum voltage is 7.5V for the Zener diode.**

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This guide begins  
AFTER the  
battery indicator  
PCB has been  
populated and  
soldered.

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End user assumes  
all risk involved  
with modifying  
their instrument!



Example of completed  
PCB

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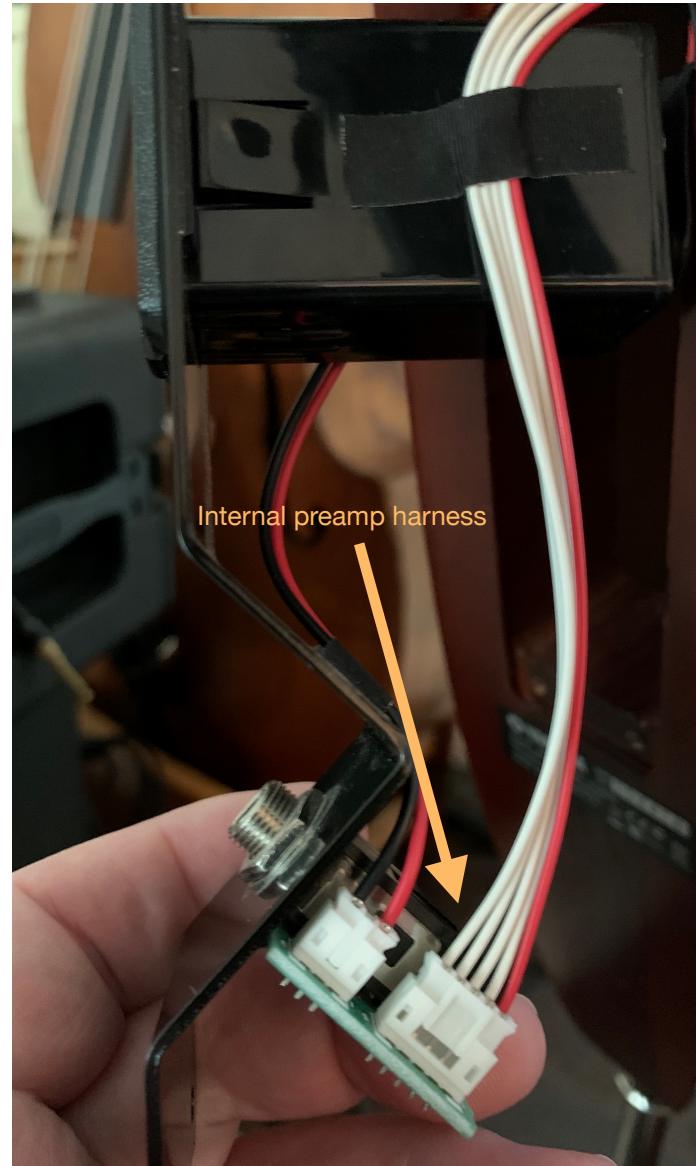
**Step One:** Remove the battery from the SLB200 and set aside.

**Step Two:** Remove the four screws holding the jack plate assembly onto the SLB200. This will allow you to carefully pull the jack plate away from the body of the bass. Set the screws aside until it is time to reassemble.



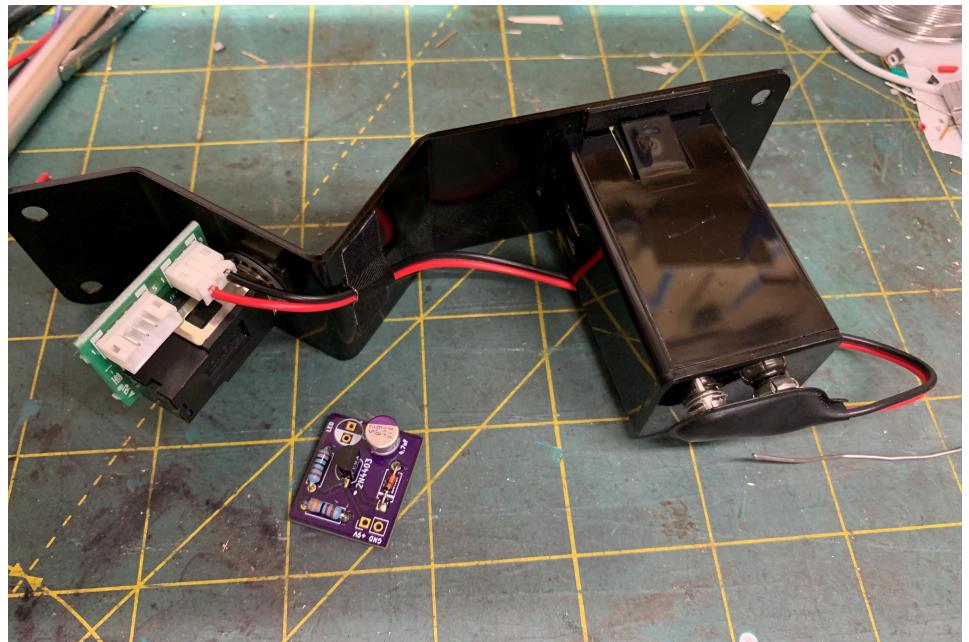
**Step Three:** Carefully unplug the wiring harness that connects the jack plate to the internal preamp. This harness should disconnect with gentle pressure. ***Do not use excessive force to remove!***

**Step Four:** Carefully remove tape holding harness wire to the battery box. This can be reattached after the update has been completed.



Detailed view of jack plate and wiring harness

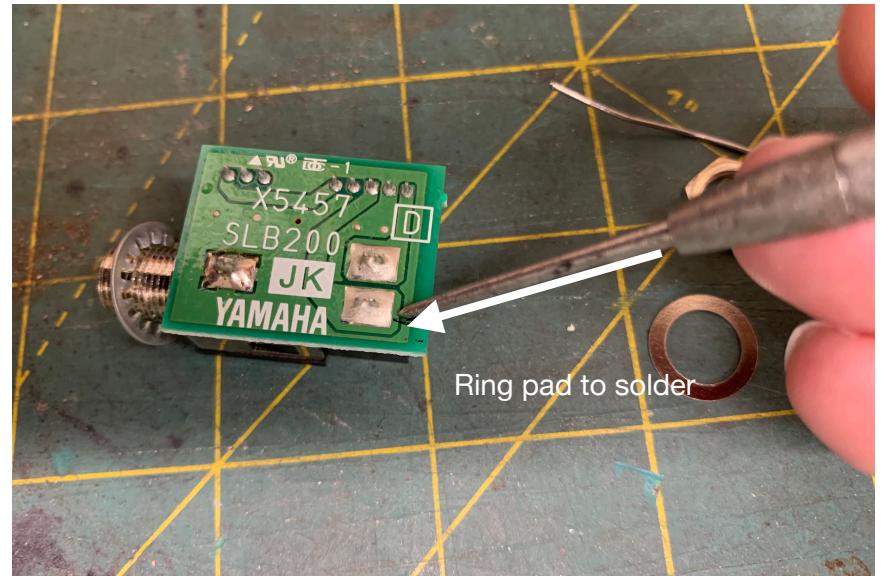
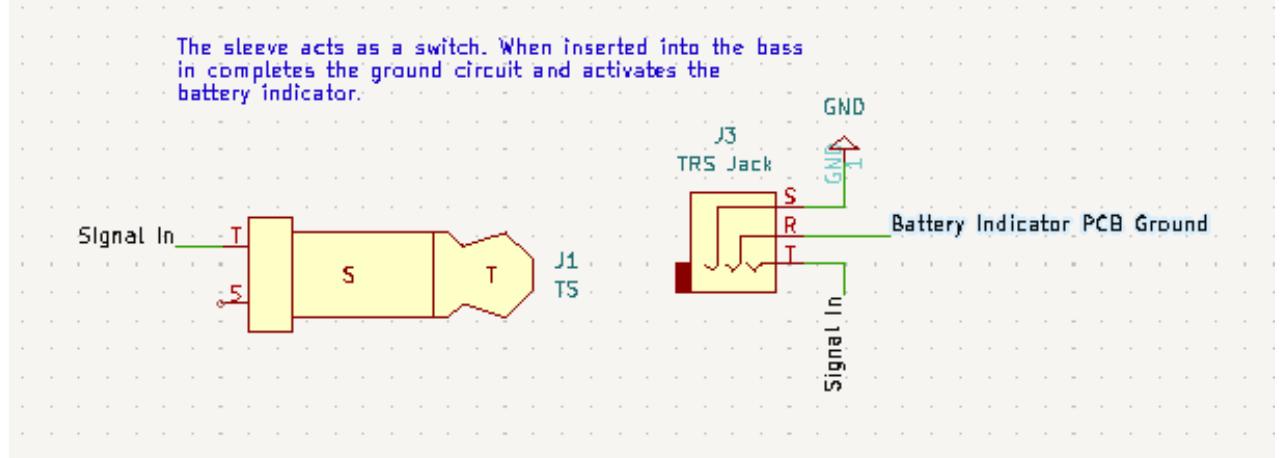
**Step Five:** Unplug the power harness from the jack PCB. Then remove the nut holding the jack to the plate. Once removed you can start the retrofit process.



Jack plate and indicator PCB

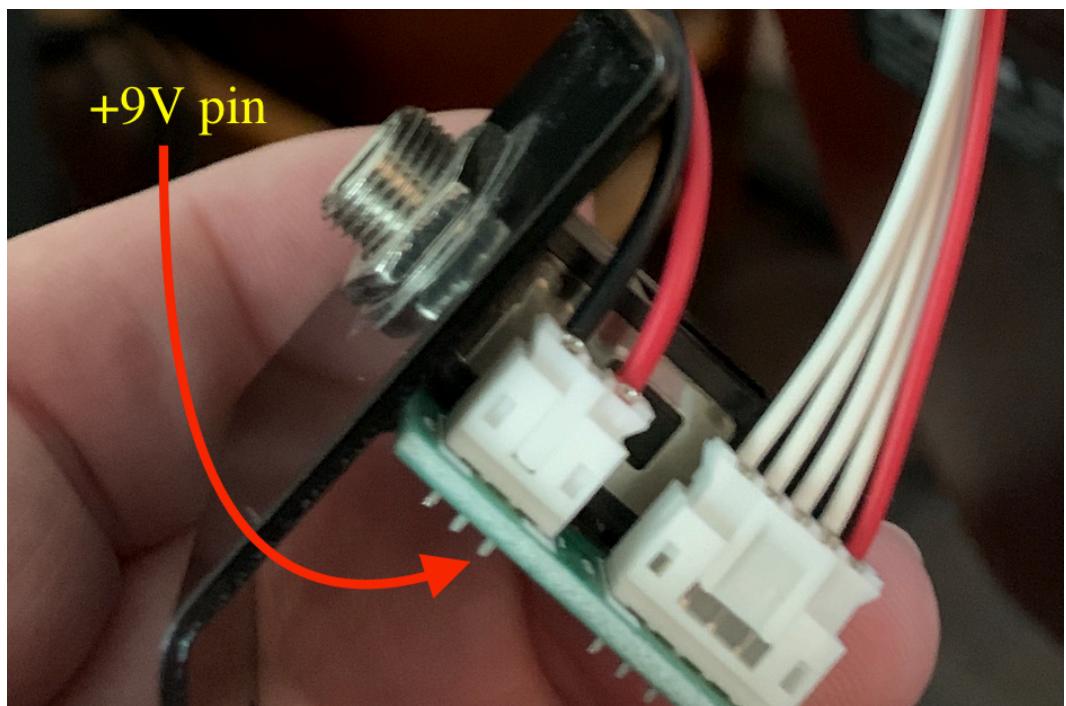
**Step Six:** Determine the location of the LED and drill a hole in the plate. TIP: if you're using a 3mm LED, then you can use a 1/8" drill bit if you do not have access to metric bits.

**Step Seven:** Verify the correct solder pad to attach the PCB ground to. The bass does not have a physical power switch, because this action is performed when you insert the 1/4" TS cable. The Ring of the TRS jack acts as a switch when the TS cable is inserted and closes the circuit



Location of Ring pad on PCB

**Step Eight:** Once the correct pad has been determined, solder two wires to the indicator PCB (+9V and GND) with enough length to reach the pads on the underside of the jack PCB. The simplest way to attach is to place the wiring directly on the solder pad underneath. The jack pin has a small notch that will secure the wire when soldered. The +9V wire will go to the positive input off the battery side and the GND wire will go to the ring pad you identified previously. Next solder two wires for the LED with enough length to allow the LED to reach the hole that was drilled into the jack plate.



**Step Eight:** After everything is connected, attach the battery indicator PCB to the top of the plastic jack housing with double sided foam tape. Then secure any loose wiring with zip ties as shown in the image.



PCB mounted to jack plate

**Step Nine:** Reassemble the jackplate and mount back into the SLB200 body. Once secured, insert the battery and enjoy your updated bass!

