

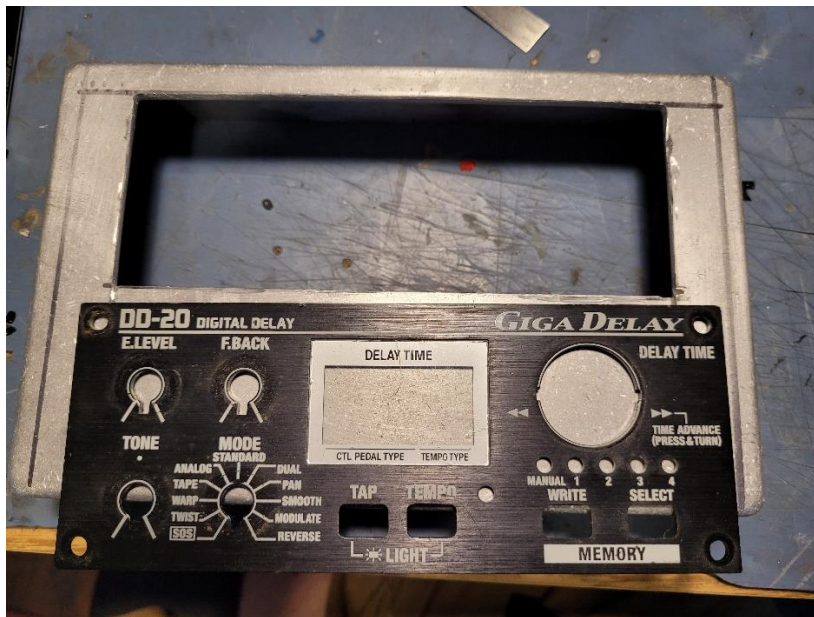
# BOSS DD-20 Rehousing

## Materials:

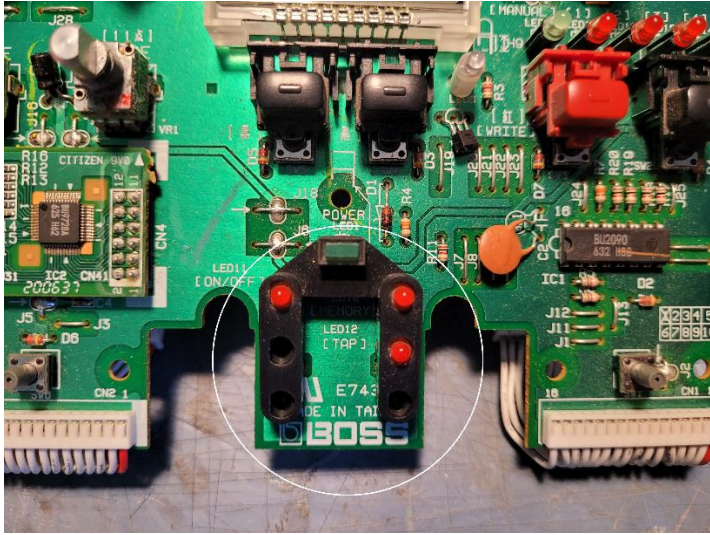
- 1590DD Enclosure
- 2 or 3 Momentary SPST Stomp switches
- 1-4 LED Bezels
- 1-4 LEDs (color of choice)

## How To:

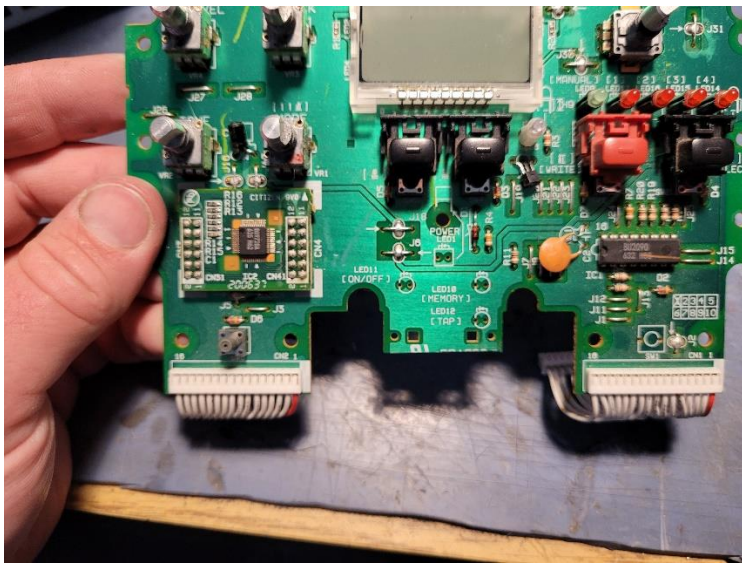
1. Disassemble your DD-20 (not shown) until both boards and faceplate are removed



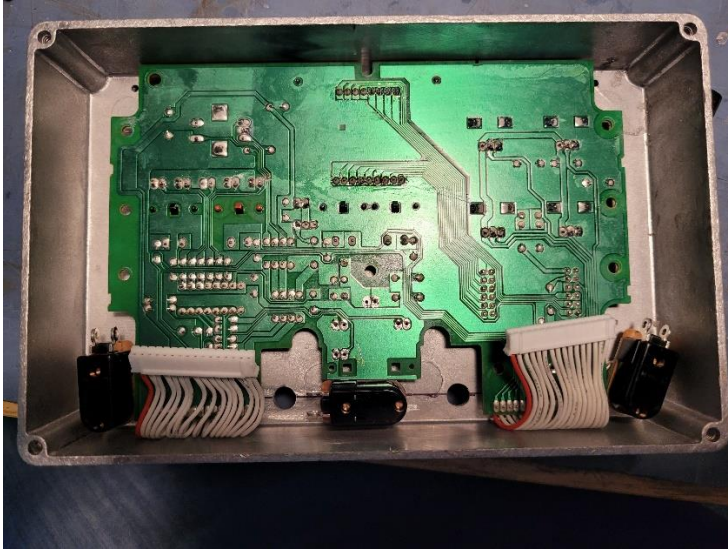
2. The 4 LEDs and plastic bezel will have to be removed from the board to begin fitting the faceplate



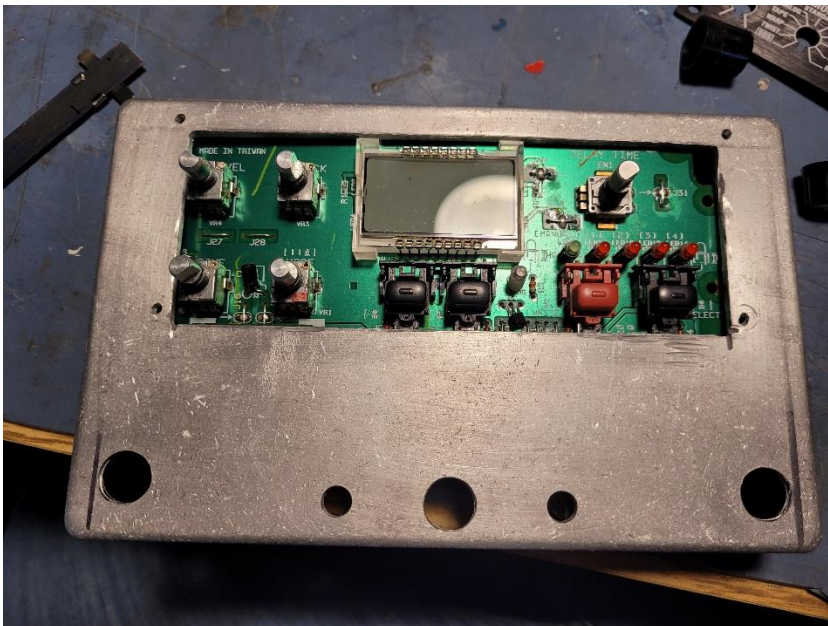
3. Some trimming of the board will have to be done IOT properly fit the board (it's just ground plane, be careful of the LEDs)



4. Now with the board trimmed, test fit inside the enclosure (shown with 3 switches installed)



5. Time to cut out the rectangular hole for the faceplate. I kept the hole slightly undersize from the original so I can adjust with a grinder or hand file as required. Drill the 4 corners, then use an angle grinder, Dremel, die grinder or whatever is available to cut it out. Approximate location for the slot is  $\frac{1}{4}$ "- $\frac{3}{8}$ " from the edge.

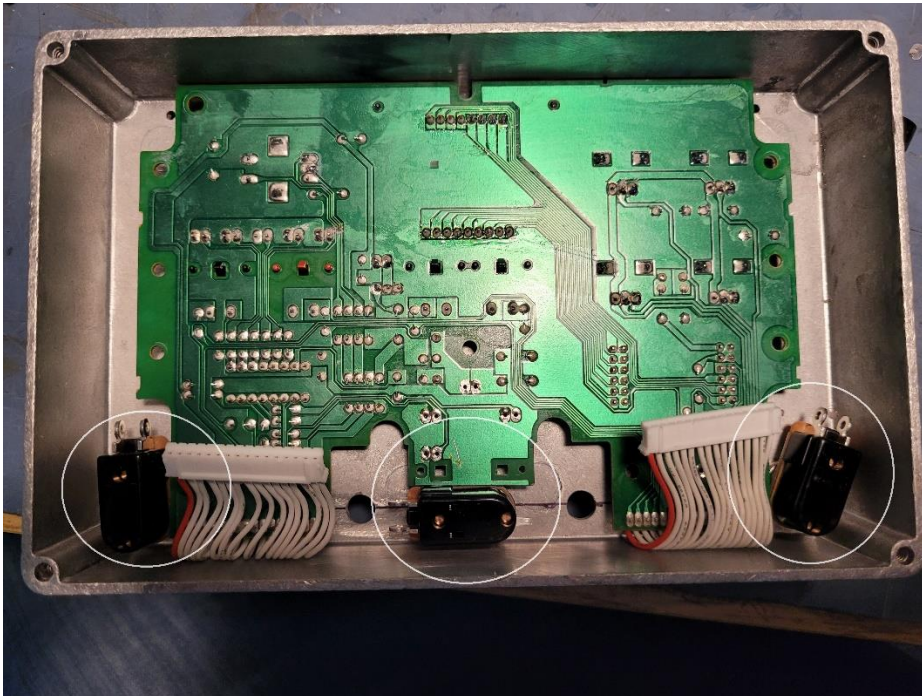




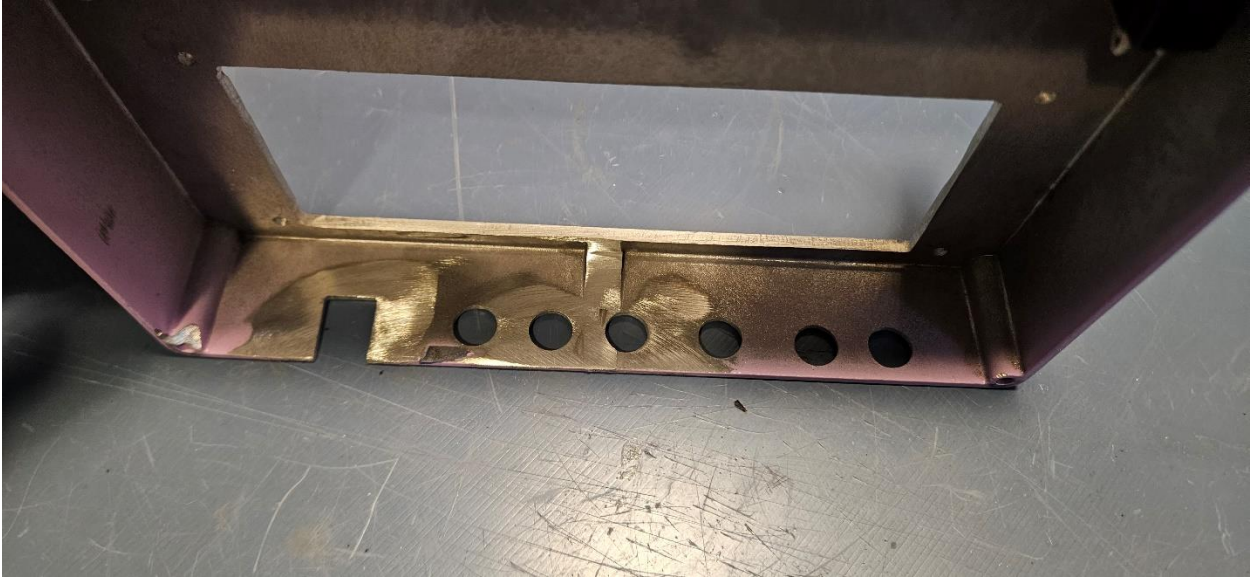
(use the old enclosure as a template)

6. Not shown, but before drilling the 4 holes for the faceplate, I test fit and align with the board, then mark it once I am satisfied with the fitment. Screws or rivets can be used to secure the plate.

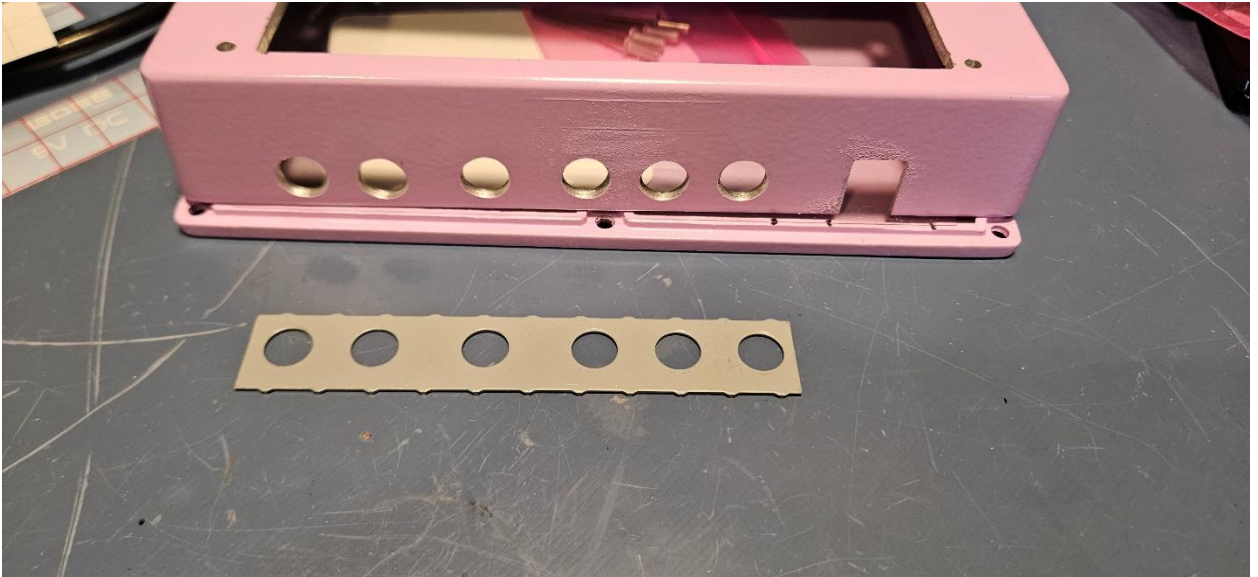
7. The location of the 3 switches isn't exact, just make sure you have room for them. The orientation of them will allow the max amount of room



8. Some 1590DDs take 6 screws. To make everything fit you will have to grind down one of the screw extrusions



9. Jack location is determined by using the second board and centering it in the housing, then using the metal plate from the enclosure to locate the hole spacing. If you use the below plate and bring it to the very edge of the bottom of the enclosure, there will be the perfect amount of room for the board to not short on the lid.



10. DC jack can be retained from the DD-20, it requires cutting a slot and thinning the inside of the enclosure until it all fits snug.

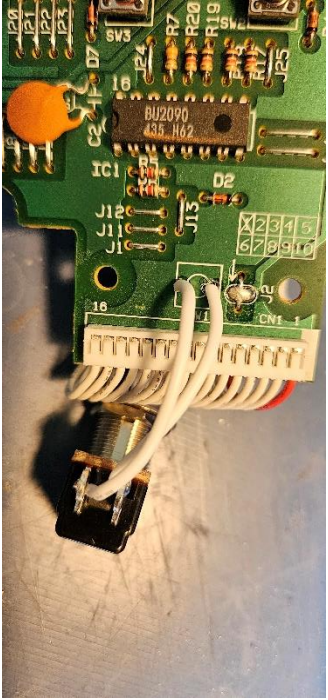


11. With the fitting out of the way, you can paint and label your enclosure as you see fit. "Toss" is the font for Boss, easily found on google.

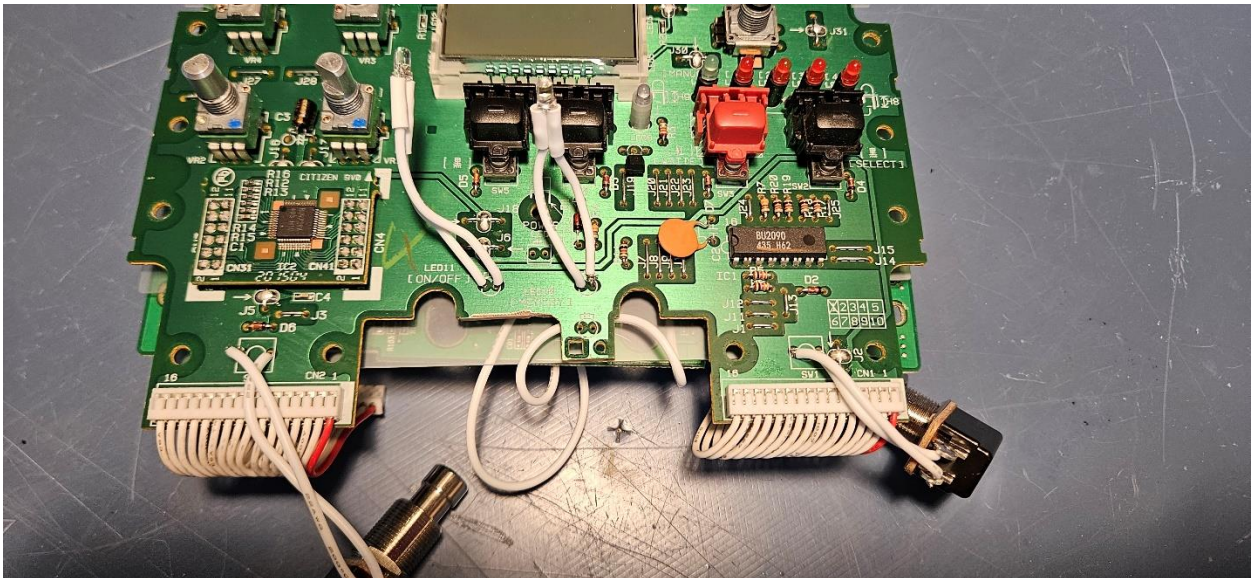
12. Time to desolder the 2 tactile switches



13. Solder a wire to each hole where you removed the switch and connect them to either side of the new momentary stomp switch

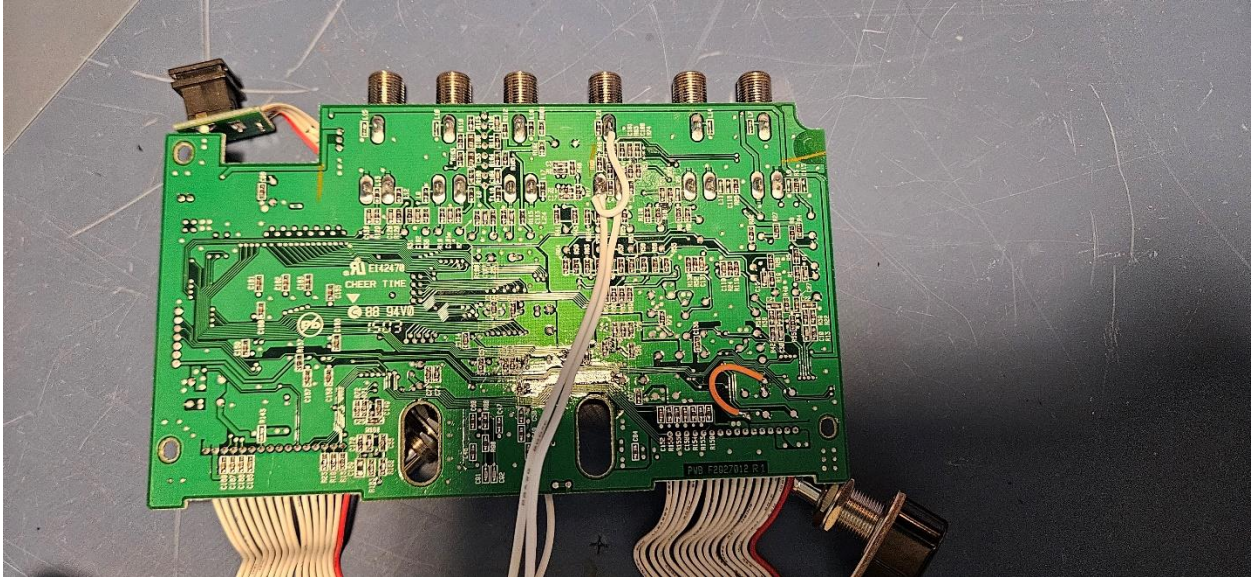


14. Time to solder the new LEDs in. At this point you can decide which LEDs you want to reinstall. The board is clearly marked for polarity. Add new extension wires to the LEDs and solder away. I chose to only keep 2 (on/off and memory”



15. Tap/Tempo install. This can be omitted if you don't want the switch in the enclosure and would rather use a remote switch. Solder a jumper to 2 lugs

of the Control jack and a long length to one side of a momentary switch. Then solder the other lug to the other side of the switch. Below shows where to solder the wires to.



16. Time to reassemble. Not shown. Pretty much the same as disassembly. Remember to install the insulator between both boards so nothing shorts. The boards don't get screwed down to anything. The bottom board is held in with the jacks. At this point I recommend another insulator, some form of thin plastic sheet or what not just to make sure the lid doesn't contact the boards. Then you will have something kind of like below.





**DD-20** DIGITAL DELAY

**GIGA DELAY**

E.LEVEL

F.BACK

DELAY TIME

DELAY TIME

TONE

MODE

STANDARD

DUAL

PAN

SMOOTH

MODULATE

REVERSE

REVERSE

REVERSE

REVERSE

REVERSE

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TAP

TEMPO

LIGHT

MANUAL 1

2

3

4

WRITE

SELECT

MEMORY

производства  
SPARKBOX FX  
модель  
сериял  
часть