

# Ordering the Back Panel

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Once you have finished your back panel design in Eagle and have output the panel files you are ready to order the laser cut acrylic piece. The instructions here will walk you through ordering laser cut parts from Pololu, however other laser cutting and engraving services should be able to accomplish the same result. If you use another service you will have to adapt these instructions to the order process of the service you use.

Before you can place an order for your back panel you need to request a quote. This is where you upload your design file, tell the service what material you want the part cut from and explain any other special instructions needed.

On the “New quote” page click on the “Browse...” button. In the dialog that opens navigate to your Eagle Projects folder and select the *myBackPanelDesign\_Bottom* file. Click Open to upload the file.

Paste the following text into the “Quantity:” window.

1 copy of layout defined in the file

Paste the following text into the “Special Instructions:” window.

StdBx Series100 Back Panel Design  
Material: 1/8" Black Opaque Acrylic, Black #2025  
Scale: mm, component should be 4.1" by 2.2"  
Layer 244 (yellow): cut all the way through  
layer 245 (magenta): Engraved normal. Text should read correct when viewed from engraved opaque side. Text stroke width should be 0.015 inches. All closed shapes (layer 245 ONLY) should be filled.  
Engrave Depth: .007" (opaque layer to be engraved off leaving engraved area transparent)

Below the Special Instructions window will be a list of all the different materials available. Find the line that looks like the picture below and click the “Use this material” button at the right of the line.

3.0 mm (~1/8")	opaque	black	acrylic/plexiglass	stocked	Black #2025	Use this material
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When you click the “Use this material” button the Pololu page updates with a summary of your request.

Check the box next to “I have read and understand the laser cutting capabilities and limitations...”. Then click the “I am a new customer” radio button and fill out the form to set up an account. Finally, click the “Submit quote request” button.

In a couple of days you should get a quote email that tells you how much your order will cost and provide a link to the quote materials. Click on the link. Once your quote page opens click on the links

for the preview files. These are PDF files that Pololu has interpreted from the design files uploaded. Check these PDFs over carefully. The blue lines are cuts all the way through the material. The black lines and areas are the places that will be engraved. Once you approve the quote Pololu will make the pieces just like the files. If it's wrong on the file and you approve it Pololu will not be responsible.

After you have approved the check files scroll to the bottom of the page and click to place your order. The price goes up the faster you want your parts.

That's it. Your back panel will be shipped to you on the schedule you requested. Of course, you also need to order the parts that will go into your project. For some help ordering the StdBx parts, take a look at the instructions in the file "**Finding Parts for Your StdBx**".