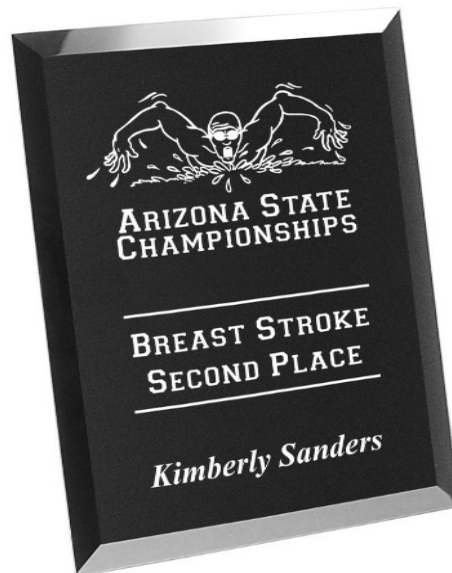


Black 6" x 8" Glass Bevel Plaque

JOHNSONPLASTICS
PLUS

BLACK 6"X8" GLASS BEVEL PLAQUE - Laser Engraving

KUS037



GENERAL LASER ENGRAVING PROCESS

Recommended Equipment & Accessories

- CO2 Laser Engraver
- Isopropyl alcohol and clean cloth
- Normal copy paper or paper towel
- Water or Window Cleaner

Recommended Settings- Laser Engraving	
50-60W Lasers	
Laser Power	70-80%
Laser Speed	25-35%
Resolution (DPI/PPI)	500-600 DPI

General Laser Engraving Instructions

- Use a clean cloth lightly misted with isopropyl alcohol to wipe down the surface of the glass product to ensure any dust, oils, grease, etc. are removed.
- Place a piece of normal copy paper or clean dry paper towel on top of the glass surface.
- Spray the piece of paper or paper towel liberally with window cleaner or water so that the paper/towel is soaked through completely.
- Gently run your finger over the wet paper/towel to remove any air bubbles that may be underneath the paper/towel.
- Place the glass product with wet paper/towel applied onto the laser bed and position to the zero point on the laser bed.
- Adjust the laser focus to the surface of the glass product.
 - Be careful not to move the wet paper/towel while focusing the laser to prevent air bubbles or wrinkles forming underneath the wet paper/towel.
- While setting up the artwork for engraving in the layout software, make sure to set the color fill of the engraved areas to "RGB 80% Black".
- Once the artwork is set up and positioned, engrave using the suggested starting settings.
 - Settings may need adjusted depending on the laser tube wattage.
 - **IMPORTANT: The paper/towel layer must stay wet during the entire engraving process.**
 - For large engraved areas, ensure that the paper/towel layer does not dry out while the engraving is still running. If the paper/towel dries before the engraving is finished, the engraving job may need to be paused so that the paper/towel can be sprayed again with water or window cleaner.
- When finished, remove the glass product from the laser bed.
- Remove the paper/towel layer from the surface and discard.
- If window cleaner was used to spray the paper/towel, run the glass product under water to rinse of any residual window cleaner and then dry with a clean cloth or towel.

Tips and Tricks

- To help with artwork placement, utilize the product template for this item, found on the item's product page on [jpplus.com/.](http://jpplus.com/)
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Troubleshooting

- The engraving is too light.
 - The laser power may need to be increased.
 - The laser speed may need to be decreased.
 - Check to ensure that the laser is focused properly to the surface of the wet paper/towel.
 - Make sure that the fill color of the artwork is set to 80% RGB Black. Engraving using the traditional 100% RGB Black will not produce enough micro-fracturing of the glass surface and therefore will not create as much contrast in the frosted appearance of the engraving.
 - The engraving looks good, but glass chips are flaking off of the surface of the engraving.
 - Make sure that the paper/towel is wet the entire time the engraving is running.
 - The paper/towel may not be wet enough. The paper/towel needs to be soaked almost to the point that the window cleaner or water pools up on top of the glass product.
 - The engraving power may be too high and need to be decreased.
 - The engraving speed may be too low and need to be increased.
 - There are inconsistencies within the engraving of the glass.
 - The glass may be chipping in tiny areas within the engraving due to the glass micro-fracturing too heavily, therefore the laser power may need to be decreased and/or the laser speed increased.
 - The paper/towel layer may be drying out during the engraving and need to be wetted again.
 - The paper/towel layer may have small air bubbles trapped underneath that were not smoothed out before engraving began.
 - Ensure that the glass is completely dry before examining the engraving quality. Any residual moisture, skin oils, etc. can migrate into the micro-fractures of the engraved glass surface and reduce the perceived contrast or frosted appearance of the engraving.
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Templates and Images

- Visit jpplus.com to find the product page for this item. The product template may be found under the Tech Docs and Downloads area of the page.
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For additional product support and troubleshooting, please contact JPPlus Advanced Support Team:

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