

91020 Nikon TE2000/Ti

This guide provides step-by-step instructions for assembling a Nikon TE2000/Ti model (Chroma part number [91020](#)), designed for precise alignment of optical filters in fluorescence microscopy systems. Proper assembly ensures optimal performance and system reliability.

For those new to handling optical filters, we recommend reviewing our [Cleaning & Handling Instructions](#) before assembling your filter cube.

Required filter sizes

Exciter (x)	Ø25mm
Emitter (m)	Ø25mm
Beamsplitter	25.5 x 36mm



Required tools

- You don't need anything. It's push-and-click for the beamsplitter, and the retaining rings are screwed in by hand (the emitter ring requires a delicate touch to find the sweet spot needed to properly thread the ring).

<p>Step 1: Disassemble the cube. You should have the exciter cap and reversible retaining ring, the emitter mount and retaining ring, and the clip and spring for the beam splitter.</p>	<p>Step 2: Gently drop the beam splitter down into the cube at an angle with the arrow on the side of the filter pointing down.</p> <p>Place the spring gently on top of the beam splitter. Push the clip on top of the spring and push until you hear a click.</p>



Step 3: Place the exciter into the exciter port in front of the cube with the arrow facing in towards the beam splitter.

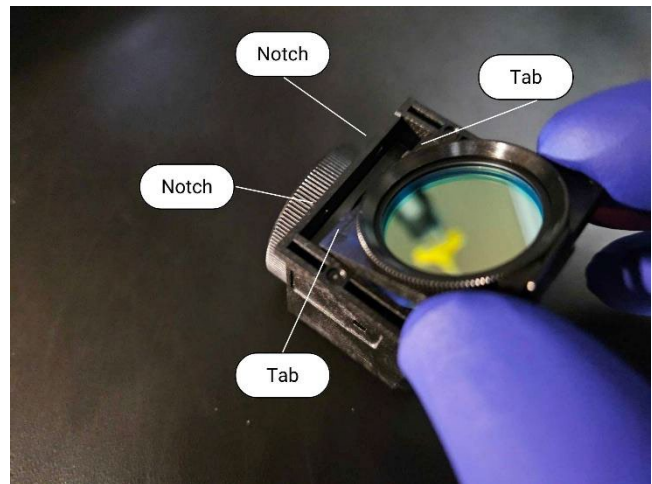


Step 4: A note for mounting the exciter – depending on the thickness of the filter, the retaining ring can be reversed. For thicker filters, insert the ring into the cap with the wider side facing towards it (as seen in the photo). For thin filters, reverse the ring.



Step 5: The emitter goes into the emitter port on the top of the cube, or the piece currently separated from the cube, with the arrow pointing down.

Screw in the retaining ring to secure the filter.



Step 6: The emitter hold is then placed back on the cube. The end tabs go in first, aligning with the notches in the cube. Once the front is in, push the back end down until it clicks.