Para-dox™

Parallel Synthesis & Photoredox Optimization Plates

Set-up Instructions

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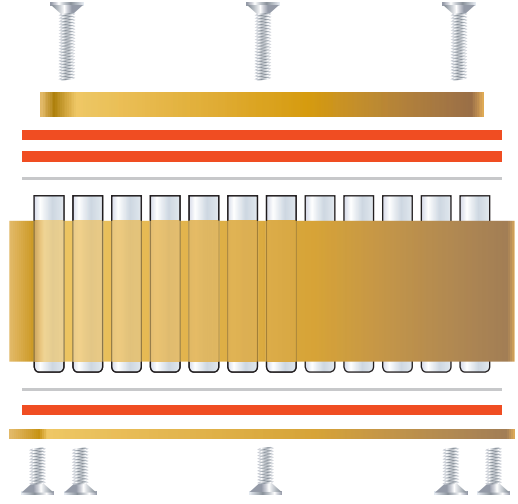
Photoredox/Parallel Synthesis
24 and 96-Well Block Set-up



Sealing the Plate - Rubber Mats

- **Sealing the plate properly is critical to reaction success and is an evolving process**
  - **Sealing mats:**
    - **Silicone rubber mats** - Plates use 2 orange silicone rubber mats on top, and one on the bottom to provide compression sealing
    - **PFA Mats** - One chemically compatible teflon PFA mat is used on top to provide seal, and one on the bottom to keep the glass reaction vials from sticking to the silicone rubber mats when heating

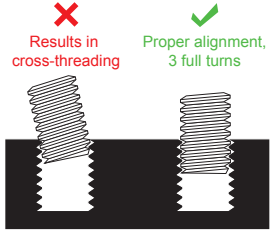
Sealing the Plate - Screwing Down Cover

Sealing the plate properly is critical to reaction success

– Procedure for screwing down the plates - even pressure, not too tight, keeping top cover flat

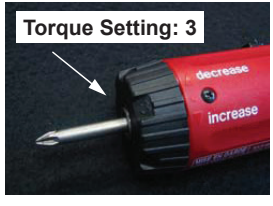
1. **Insert screws and hand tighten each screw 3 complete turns.**
   Note: ***DO NOT FORCE*** *screw into hole. The screw should twist into the hole in the block with ease. If the screw starts to bind, back the screw out, realign and try again.*

   Important*: before proceeding, make sure all screws are properly threaded and fastened. Check by pulling up on each screw to make sure they wont pull out. If screw comes out of hole, repeat step 1.*

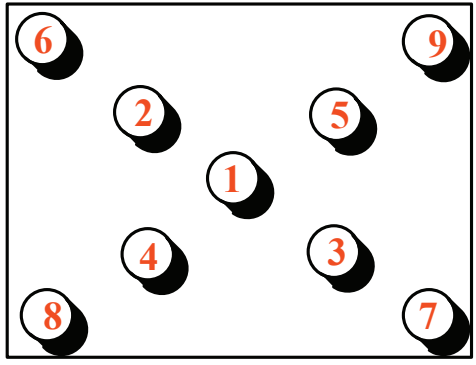


2. **Level cover plate:** Following the pattern shown at right, screw down each screw so that they are flush (but not tight) with cover plate. To speed process up, if needed, use a power-driver to complete the plate assembly *(power-driver should only be used after manually turning screw three complete rotations)*.

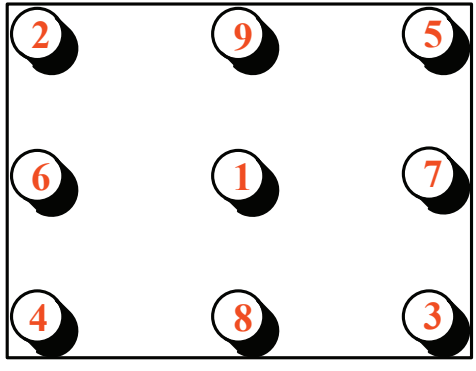
3. **Tighten screws:** Once the screws are flush and the cover plate is level and secure, tighten the screws using the same cross-pattern. Using torque control with a **setting of 3**, proceed with two rounds of tightening.



4. **Additional steps:** Tighten in the same cross-pattern using a standard phillips head screwdriver until tight. **DO NOT OVERTIGHTEN**. Repeat.



Screw pattern for
24-Well Reaction Plates



Screw pattern for
96-Well Reaction Plates