Beam Block User Instructions

Models 350, 360, 370, 380, 390 series
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Default configuration:

DEFAULT Configuration:

Input (Horizontal Polarization) → Output (Vertical Polarization)

Please note:

Alignment lines are engraved into the beam block assembly.
Changing Polarization Setup:

The following provide a step-by-step guide to changing the output polarization from the default (Vertical Polarization) to (Horizontal Polarization). These steps should only be followed if your laser source is set to vertical polarization entering the E-O Modulator.

1. Turn off / shutter laser source
2. Locate (three) set screws (see photo below)
3. Loosen (three) set screws using a 0.05” allen key, approximately 1 turn CCW (counter clockwise)

Please note:
Third set screw is not shown on this photo.
4. Rotate Beam block 90° so the line on the modulator is aligned to the other engraved line on the beam block

5. Re-tighten three set screws, using the 0.05” allen key

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**Changed Polarization:**

| Input (Vertical Polarization) | → | Output (Horizontal Polarization) |

Please Note:

Make sure the beam block does not rotate while the set screws are tightened.
To Allow Rejected Beam to Emit.

1. Turn off / shutter laser source
2. Locate the black cap on the beam block
3. Use a 3/16” allen key to remove the cap,
4. Turn the cap with the allen key CCW to remove

Warning:
During and shortly after operation this black cap can become hot to the touch! Please let the cap cool before handling.

Danger (Eye & Skin Safety):
If the black cap is removed, the laser beam will be free to emit. Please terminate the laser beam safe manner.

Please note:
*Do not remove the beam block from the modulator. Tamper Protection is provided to avoid accidental adjustment on (four) mounting set screws.*
Installation of the Beam Block Cap

1. Start the beam block cap 3-4 threads down from the top
2. Use one hand (right) to rotate the cap, and use your thumb on your left hand to help maintain a 25° angle to keep the cap threading properly
3. Rotate CW (several) turns by hand
4. Use 3/16” allen key to tighten the cap (minimal force required)

Please note

This is requires a combination of holding the black cap the proper angle and rotating it on only one side of the threads until the cap is fully threaded.