# Purpose: To provide step by step instructions on how to remove and replace the XYZ stage within the WOLF G2.

# Definitions & Acronyms: N/A

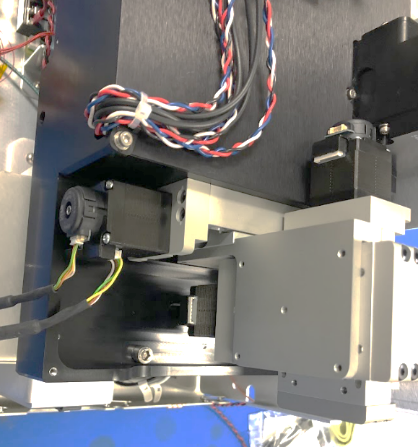
# Tools Guide:

* Examination gloves
* 2.5 mm Hex Bit
* In-Lb Torque Driver

# Preparing the WOLF G2:

1. This procedure begins with a unit that has the top cover and cartridge fixture removed. Refer to the disassembly portion of the WOLF G2 Cartridge Fixture Replacement Procedure for instructions to get to this stage.

# Disconnection of Motor and Encoder Cables



Z-Axis

Y-Axis

X-Axis

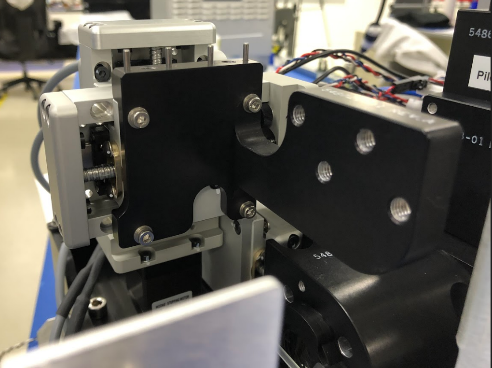
Carefully disconnect all 3 motor cables and all 3 encoder cables. See NOTE above for removing cable mount.

**NOTE:** Remove M3 SHCS from this location to detach Z-Axis cables from the stage.

Encoder

Motor

# Removal of Fixture Mounting Plate

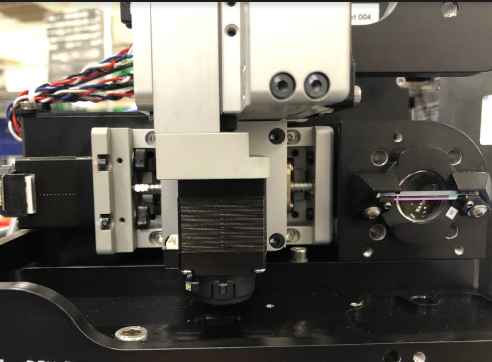


Remove the 4 indicated screws with their corresponding Belleville washers,

Take care not to drop the washers during removal.

Set aside the fixture mounting plate for re-assembly.

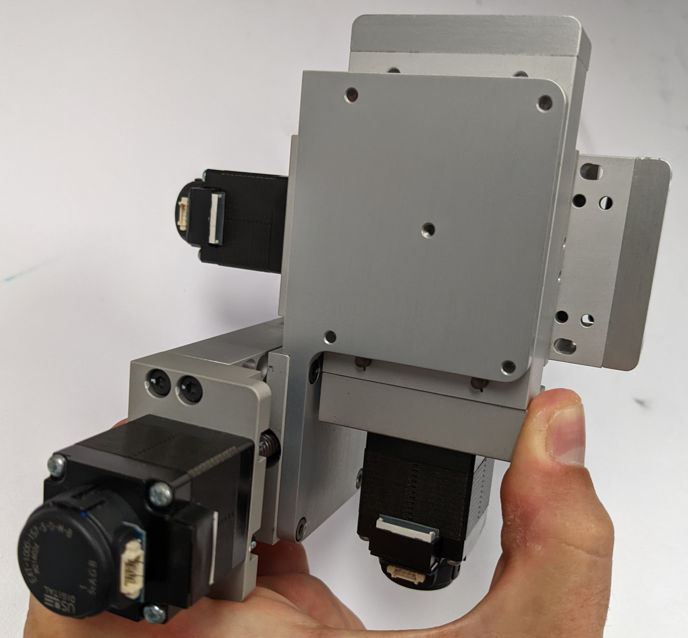
# Old XYZ Stage Removal



Manually slide the X axis of the stage so that all 4 of the mounting screws are exposed.

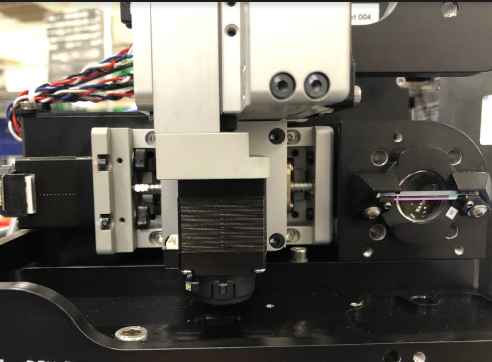
While holding the stage with one hand to support its weight, loosen the 4 mounting M3 screws.

Remove the stage assembly.



Stage Assembly

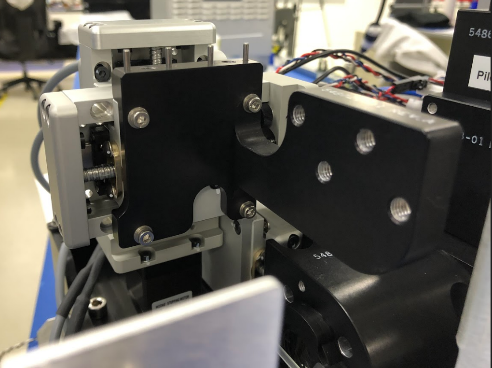
# New XYZ Stage Installation



Mount using the 4 screws + serrated washers from the old XYZ stage, inserted in the oval holes on the bracket, hold against the right and bottom datum “Blue Arrow” and tighten in a “crisscross” pattern as shown when tightening, “Green Arrows”.

Torque 10 in-lb.

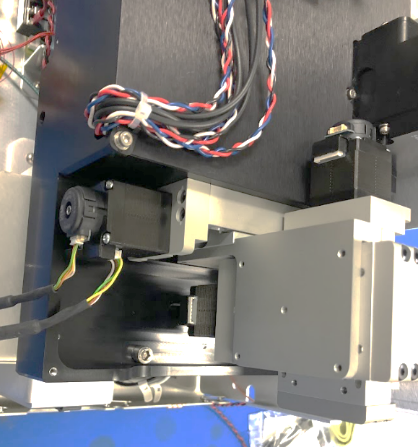
Re-Assembly of Fixture Mounting Plate



Hold in the direction of the blue arrow to datum the bracket while tightening.

4X SHCS + Belleville washer - torque 10 in-lb.

# Reconnection of Motor and Encoder Cables



Z-Axis

Y-Axis

X-Axis

Plug in the provided cables, match the label on the cable with the axis shown above.

Reattach the cable mount using the existing M3 SHCS and Belleville washer - torque 5 in-lb.

**NOTE: Re-attach Z-Axis cables to the stage.**

# Functional Verification

Correct function should be verified by performing the WOLF G2 Installation QC procedure.

# Revision History:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **ISSUED DATE** | **Description of Change** | **Author** |
| A | 07/5/2022 | Original draft | M. Benchimol |
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