

Alert Level: INFORMATIONAL

Instruments: Sediment Trap (all models)

Software Versions: N/A

Hardware Version: N/A

Subject: Troubleshooting Sediment Trap Motor Alignment

Summary: When the Sediment Trap motor cannot locate the next port, manually realigning the motor may fix the issue.

Technical Details: Two motor re-alignment methods are provided here.

Note – If the motor still cannot locate the next port after using these realignment steps, then a repair may be required for the sensor, cable or bulkhead. Contact mclane@mclanelabs.com.

Realignment Method 1 – Move the Motor Gear Using Manual Operations in the Firmware

1. From the firmware Main menu, select Manual Operations and select Option <3> Fill Containers.
2. Press CTRL+C to stop the motor after 15 seconds.
3. Select Option <3> Fill Containers again.
4. The motor should move to a port.

Realignment Method 2 – Move the Motor Gear by Hand

1. Remove the three screws that attach the motor to the rotator and carefully lower the motor.
2. Looking down on the top view of the motor, manually turn the motor gear 1/4 turn in the clockwise direction.
3. The motor gear will have some resistance, but turning the gear does not damage the motor.
4. Replace the motor onto the rotator and reattach the screws.
5. From the firmware Main menu, select Manual Operations and select Option <3> Fill Containers.
6. The motor should move to a port.