“OTC column stuck in upper position”

APPLICABLE TO: Intuition systems

ERROR MESSAGE: [No error message present]

INFORMATION: This instruction covers how you move the column downwards again in case it is stuck.

HOW THE AFFECTED FUNCTIONALITY IN THE SYSTEM *SHOULD* WORK:

When powered on it should always be possible to maneuver the OTC up and down from the handlebar. This is not depending on certain modes or protocol settings.

SYMPTOMS OF THIS ERROR:

OTC column is stuck in its upper position. It is not possible to drive it down.

POSSIBLE CAUSES:

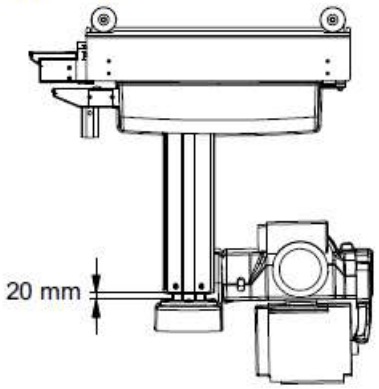
- OTC has been driven into its mechanical end stop. The upper software end stop has been removed or calibrated incorrectly.
- OTC has been driven into its mechanical end stop from service mode where software end stops are overridden.

OTC Z high end stop

Note!

The Z high end stop is calibrated from factory, only perform the calibration if necessary.

The correct position for setting the high end stop is approximately 20 mm below the mechanical end stop, which is placed in the column.

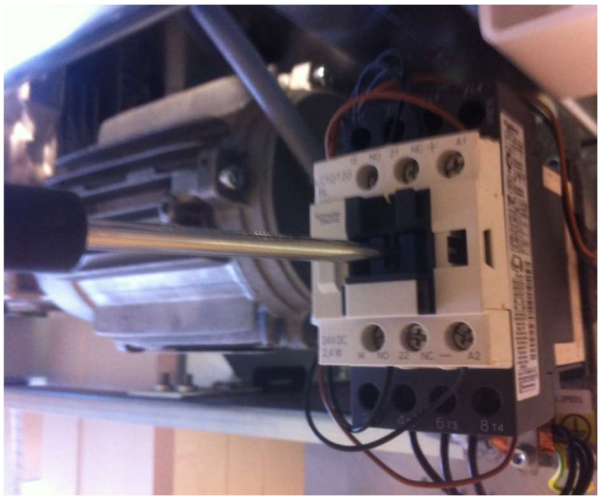


ACTION STEPS:

Driving down using the frequency converter 1.2FRE01

1. Make sure the frequency converter is in Ready state (rdy) as shown in the picture.

2. Activate contactor [1.2RE01] on the back of the electrical plate by pushing it as shown below.



3. While keeping the contactor activated. Use a wire jumper to control the movement of the Z-column as shown in the picture below:

NOTE!

+24V – LI2 => Movement DOWN

+24V – LI1 => Movement UP

Release column bolts

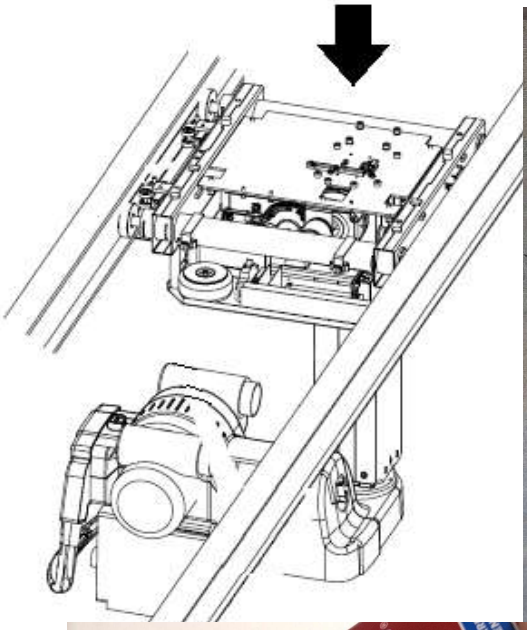
4. See picture below. Release the highlighted bolts slightly to create space for movement and try steps 1-3 again.

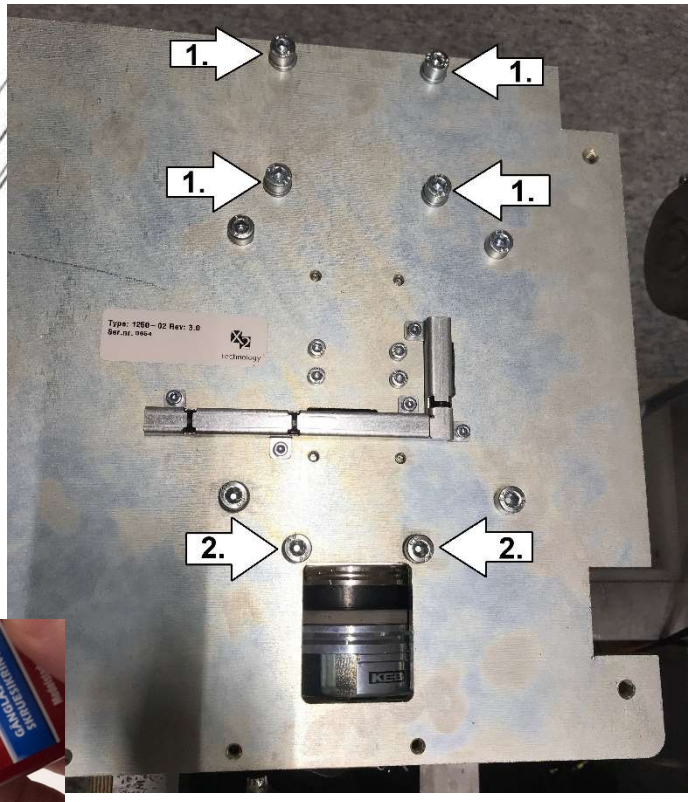
WARNING! The bolts are holding the column so do not release more than necessary. Bolts should not be released more than three turns.

The bolts must not be removed under any circumstances in this step.

WARNING! The bolts must be re-tightened as soon as the column has been moved down to a working position.

- Re-tighten bolts marked 1. with torque of 24Nm.
- Re-tighten bolts marked 2. with Loctite 243 or equivalent and a torque of 24Nm.
    - With one bolt tightened, remove the other, apply Loctite and tighten.
    - Repeat for the second bolt.





5. Re-calibrate the high and low end stops according to the Installation & Service manual.

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