



**MEDICAL INSTRUMENTS,
PRODUCTION + TRADING GMBHD-84088 NEUFAHRN NB**

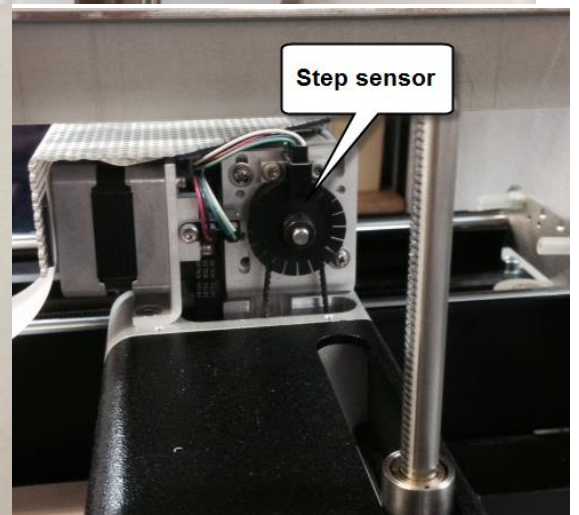
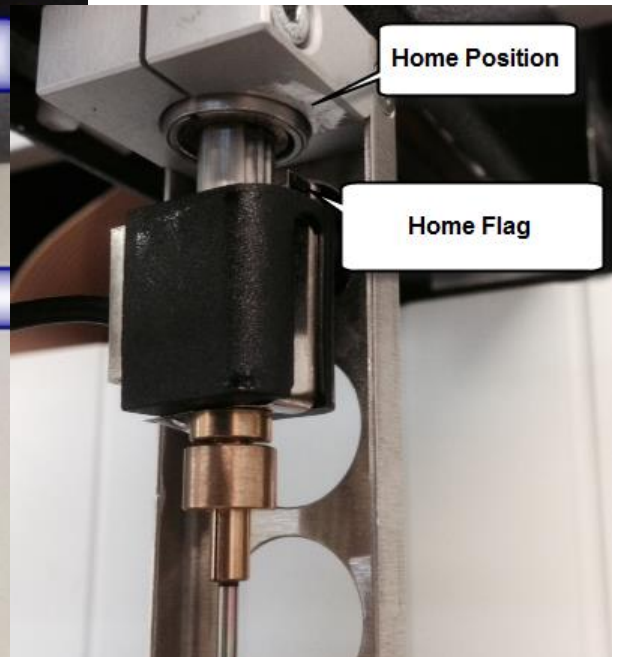
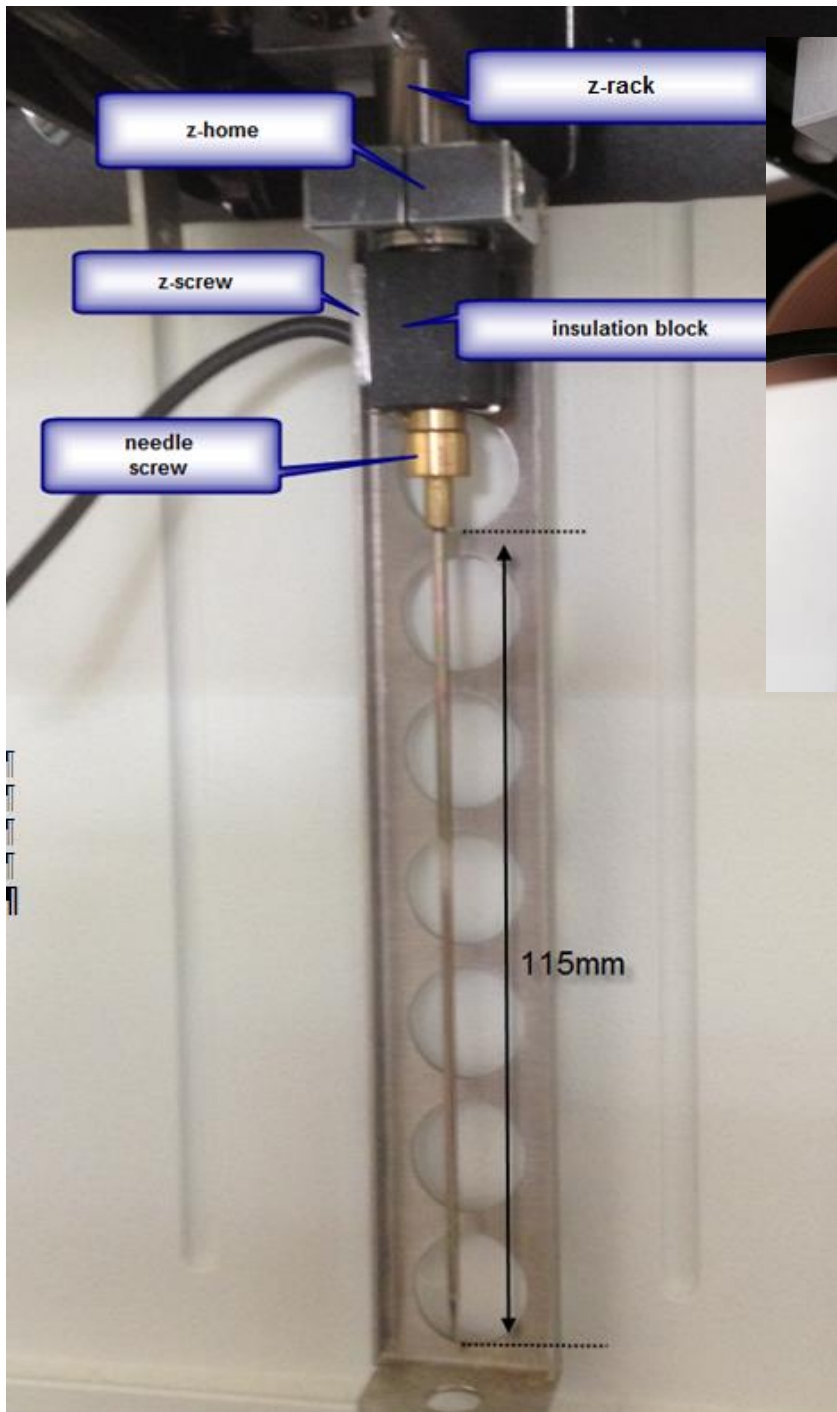
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Malfunction Coatron A4/A6: "Needle Crash"

Malfunction / Error	Possible cause	
Needle crashing into rack or vials	Needle not correct mounted	
	Robot init z-axis at false height	
	Step loss (mostly x-axis)	
	Cuvette detection error	
	eprom XYZ	
Possible cause	How to check	How to fix
Needle not correct mounted	Needle has a mark at 115mm. It must be visible,	Open z-screw, shift to correct length and close screw
Robot init z-axis at false height	After reboot , needle tip should be around 50mm above reagent block	Ensure that z-home, z-screw and needle screw are tighted correctly to z-rack
Step Loss	Run service/check robotic. At step loss you can see a gradual shift of position.	Check and replace belt drive and involved axis parts (motor, gear wheel, SLD sensor, encoder wheel) for correct adjustment, function, tension and lubrication.
	During worklist you can see gradual shift to wash position.	
Crash sensor not working (system can detect step loss)	Block x-movement by hand. Robot should detect the crash, re-init and continue movement.	Check axis encoder wheel and SLD sensor
Cuvette not in correct position	Run service/adjust motor. Adjust at least 20 cuvettes in sequence. The motor should always stop, when cuvette is centered to optic.	Check cuvette microswitch, shifter , optic for correct function. Reads more information in "malfunction of cuvette detection)
	cuvette motor makes loud noise	Replace motor
	cuvette motor moves with false speed. One complete turn should take 12-18s	Firmware relased 2015 or later may help
XYZ not adjusted	Run service/check robotic. Needle should go to each position correctly.	Run service/adjust XYZ
XYZ not loaded from EEPROM	Check onboard battery if > 3.1V	Replace battery (3.6V)



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