



Malfunction: Adjust – XYZ

Instrument reject former adjustments and request always a new XYZ adjustment.

Reason for message:

Z-Offset of position P25 < -95

Print a service report

	WASH	REAG	CUV	PAT
OFFSET X:	1	-2	0	0
OFFSET Y:	3	1	0	-5
OFFSET Z:	0	-95	0	850
OFFSET M:	4			
OFFSET P:	0			

Trouble Shooting:

1. Boot instrument normally. Simulator mode is not allowed !
2. Check needle for correct position. 115mm must visible !!
3. Enter service menu and select XYZ-adjustment.
4. Adjust every position in real and check Z-offsets (P25 !!!) particulary .

Be aware that everytime when you start XYZ adjustment the Z-offsets are reset to default. This protect your neddle for crashes and expand the life time greatly !

Everytime when you start XYZ-adjustment , “all” positions must be calibrated new !!!!



How to Adjust

Key 4/6 move needle left/right (X-offset)

Key 2/8 move needle backward/forward (Y-offset)

ARROW $\uparrow/\downarrow$ move needle up/down (Z-offset)

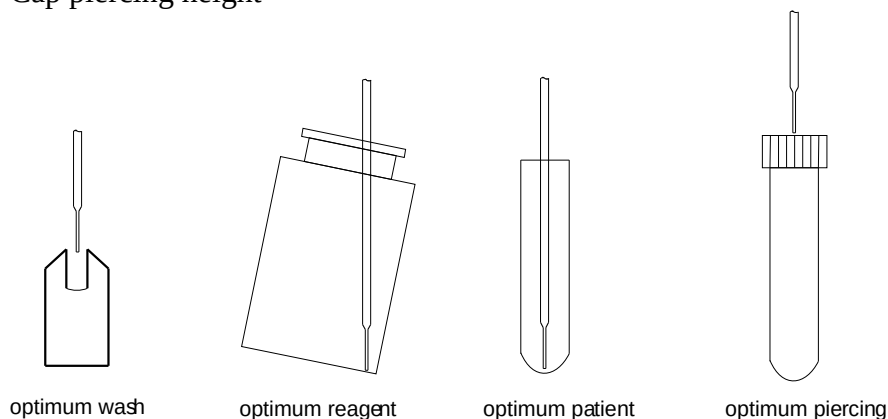
ENTER goto next position

ESC exit adjustment

Ensure yourself, that the needle is straight and correct mounted 115mm in length. Place an empty reagent container to position P27, two empty cuvettes in the tower, an empty plasma tube to position P01 and an unused Sarstedt Monovette® or BD Vacutainer® in position P02. (only if CAP PIERCING option is required)

Five position must be adjusted

- Wash position
- Reagent position
- Cuvette position
- Patient position
- Cap piercing height



1. First the needle will go to wash position. Center the needle exactly. The needle tip must be at same level with top of wash position. Press "ENTER" to come to next position or press "ESC" to quit.
2. Second the needle will go to P27 position. Center the needle. The needle tip should be short before touching the vial bottom. Lift vial to determine the distance. Press "ENTER" to come to next position or press "ESC" to quit.
3. Third the needle will go to cuvette position. Center the needle and afterwards lower the needle until it is short before touching the cuvette. Lift the cuvette to determine the distance. Press "ENTER" to come to next position or press "ESC" to quit.
4. Fourth the needle will go to P01 position. Center the needle. The needle tip should be short before touching the vial bottom. Lift vial to determine the distance. Press "ENTER" to come to next position or press "ESC" to quit.



**MEDICAL INSTRUMENTS,
PRODUCTION + TRADING GMBH D-84088 NEUFABRN NB**

Web: www.teco-gmbh.com
Email: info@teco-gmbh.com

DIESELSTRASSE 1

TEL: #49 8773 910010
FAX: #49 8773 910011

5. Fifth the needle will go to P02 position. Center the needle. The needle tip should be short before touching the cap membrane. Press "ENTER" to test cap piercing or press "ESC" to quit.

 skip cap piercing if not required. The value P-OFFSET must be 0 to deactivate cap piercing.



Important:

To avoid needle crash the z-offset is set to default, before the needle drives to this position. So even if you didn't change the offset, the z-position must be re-adjusted anytime