

Appendix D – Needle/Rotary Hook Adjustment

The values stated below are intended to help a specialist make the correct settings.

CAUTION

Changes to these values made by untrained personnel can damage the machine.

Adjusting loop stroke/needle depth

The loop stroke is the distance from the bottom dead center (BDC) of the needle point to the position of the point during the upward movement at which the point of the rotary hook is located centrally behind the needle.

The needle depth is the distance between the top edge of the needle eye and the point of the rotary hook.

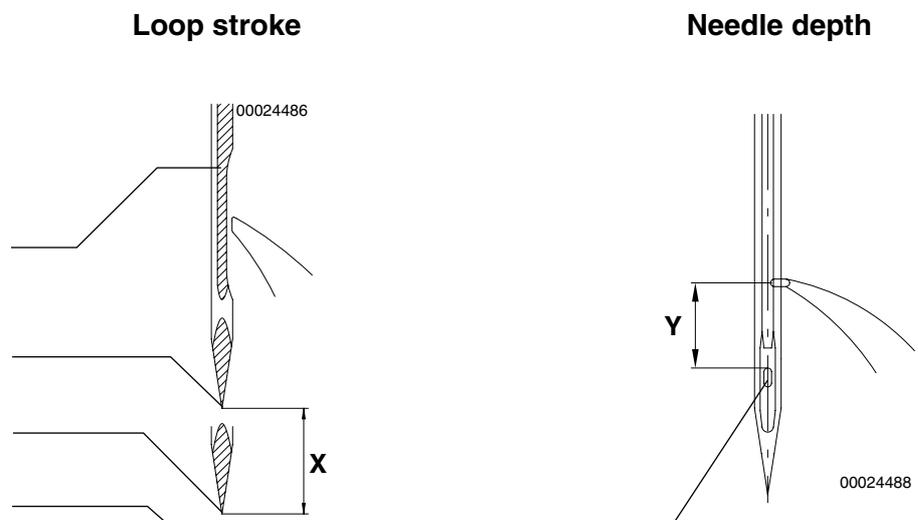
Figure 1:
Needle depth,
adjusting

Needle

Exact loop stroke position

Bottom dead center

Eye of needle



Application	Loop stroke [X=mm]	Needle depth [Y=mm]
Standard machine	2.0	1.0
Curtain / special machines	1.5	1.5
JF/JNF/TF machines	2.0	1.0

Rotary hook clearance

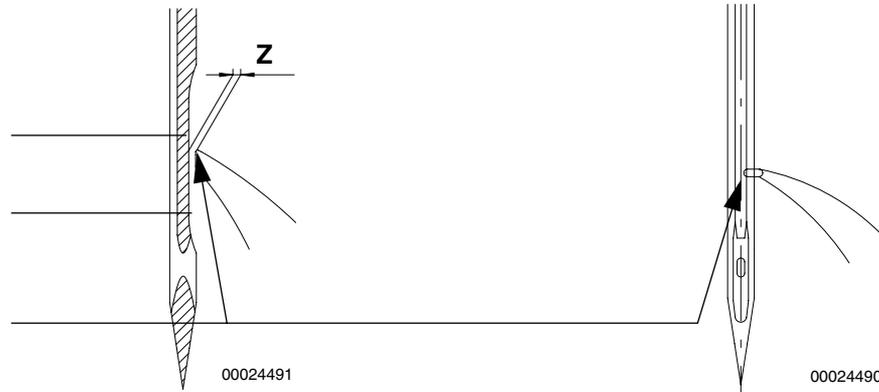
The rotary hook clearance is the distance between the hollow shaft of the needle and the point of the rotary hook.

Figure 2:
Adjusting rotary hook

Needle

Hollow shaft

Point of rotary hook



Application	Clearance [Z=mm]
Standard machines	0.05 - 0.1
JF/JNF/TF machines	0.05 - 0.1