

Quick Start Guide



IMPORTANT SAFETY INSTRUCTIONS

Observe the following basic safety instructions when using your machine. Before using this machine, read instruction manual carefully.

DANGER!

To reduce the risk of electrical shock:

- Never leave the machine unattended as long as it is plugged in.
- Always unplug the machine from the electrical outlet immediately after using. Protection against LED radiation:
 - Do not view the LED light directly with optical instruments (e.g. magnifier). The LED light corresponds with protection class 1M.
 - When the LED light is damaged or defective, contact your bernette specialist dealer.

WARNING

To reduce the risk of burns, fire, electric shock or injury to persons:

- To operate the machine always use the supplied power cable. USA and Canada only: Do not connect power plug NEMA 1-15 to circuits exceeding 150 volt-to-ground.
- Use this machine only for purposes as described in this manual.
- Only use the machine in dry rooms.
- Do not use the machine in a damp condition or in a damp environment.
- Do not use this machine as a toy. Close attention is necessary when this machine is used by or near children.
- The machine can be used by children older than 8 or by people with reduced physical, sensory or mental capabilities or if there is a lack of experience and knowledge how to operate the machine as long as they are supervised or have been given instruction concerning the responsible use of the appliance and are aware of the involved risks.
- Children are not allowed to play with this machine.
- Cleaning and maintencance work must not be carried out by children unless they are supervised.
- Never operate this machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Contact the nearest authorized bernette dealer to arrange further details.
- Only use accessory recommended by the manufacturer.
- Don't use this machine when the ventilation openings are blocked. Keep the ventilation openings and the foot control free from the accumulation of lint, dust and loose cloth.
- Never insert any objects into any openings of the machine.

- Do not place any objects on the foot control.
- Always use the machine with a foot control of these types:
 - for b05 CRAFTER: FC-2902D, FC-1902A
 - for b05 ACADEMY: KD-2902, KD-1902
- Do not operate the machine where aerosol products (sprays) or oxygen are being used.
- Keep fingers away from all moving parts. Special care is required around the needle.
- Neither pull nor push the fabric while sewing. This can cause needle breakage.
- When making any adjustments in the needle area such as such as threading the needle, changing the needle, threading the hook or changing the presser foot turn power switch to «0».
- Do not use bent needles.
- Always use the original bernette stitch plate. The wrong stitch plate can cause needle breakage.
- To disconnect, turn power switch to «0» and then remove the plug from the outlet. Do not unplug by pulling the cord, instead grasp the plug to pull it from the outlet.
- Always disconnect the power plug from the electrical outlet when the covers are removed or opened, when the machine is lubricated or during any other maintenance adjustments mentioned in the instruction manual.
- This machine is provided with double insulation (except USA, Canada and Japan). Use only identical replacement parts. See instructions for Servicing of double-insulated products.
- The sound pressure level is lower than 80 dB(A) under normal conditions.

Important information

Availability of the instruction manual

The quick start guide is part of the machine.

- Keep the quick start guide of the machine in a suitable place near the machine and have it ready for reference.
- A detailed instruction manual can be downloaded from www.mybernette.com.
- When passing on the machine to a third party, enclose the quick start guide of the machine.

Proper use

Your bernette machine is conceived and designed for private household use. It answers the purpose to quilt fabrics as it is decribed in this instruction manual. Any other use is not considered appropriate. BERNINA assumes no liability concerning consequences resulting from an inappropriate usage.

Maintenance of double-insulated products

In a double-insulated product two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated product, nor should a means for grounding be added to the product. Servicing a double-insulated product requires extreme care and knowledge of the system and should be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to the original parts in the product. A double-insulated product is marked with the words: "double insulation" or "double-insulated".



The symbol may also be marked on the product.

Protection of the environment



BERNINA is committed to the protection of the environment. We strive to minimize the environmental impact of our products by continuously improving product design and our technology of manufacturing.

The machine is labeled with the symbol of the crossed-out wastebin. This means that the machine must not be disposed of with the household waste when the machine is no longer needed. Improper disposal can result in dangerous substances getting into the groundwater and thus into our food chain, damaging our health.

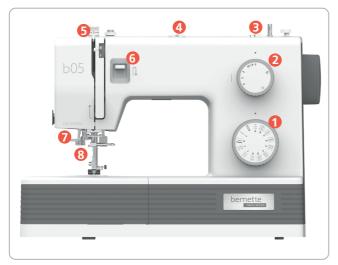
The machine must be returned free of charge to a nearby collection point for waste electrical and electronic equipment or to a collection point for the reuse of the machine. Information on the collection points can be obtained from your local administration. When purchasing a new machine, the dealer is obliged to take back the old machine free of charge and dispose of it properly.

If the machine contains personal data, you are responsible for deleting the data yourself before returning the machine.

Content

Overview of the machine	1
Getting started	2
Bobbin winding	2
Threading the bobbin thread	3
Threading the upper thread	5
Changing presser foot	7
Changing the needle	8
Selecting stitches	9
Maintenance1	3
Troubleshooting10	6
Overview of the stitches19	9

Overview of the machine



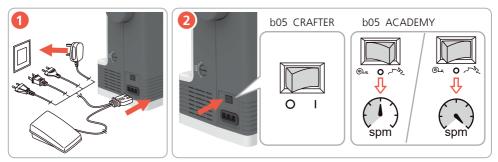
Stitch selection dial

- 2 Stitch length dial
- Stitch width dial
- 4 Needle position dial
- Presser foot pressure dial
- 6 Reverse sewing lever
- **7** Needle threader
- 8 Buttonhole lever

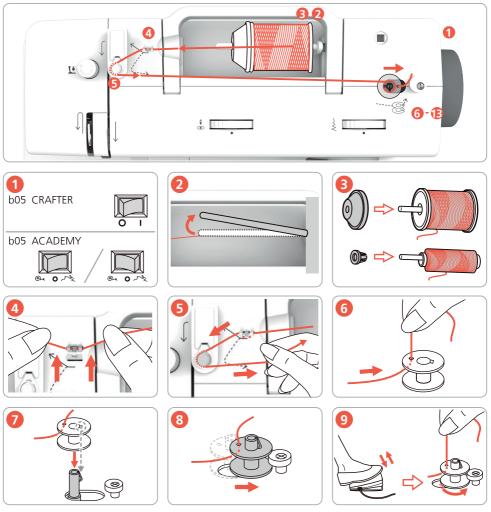


- 9 Hand wheel
- Balance dial
- Power switch with speed limitation (for b05 ACADEMY) Power switch (for b05 CRAFTER)
- Power/foot control connection

Getting started



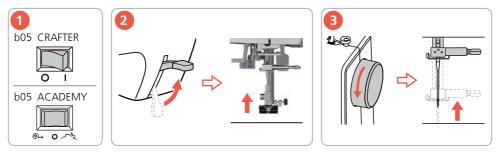
Bobbin winding

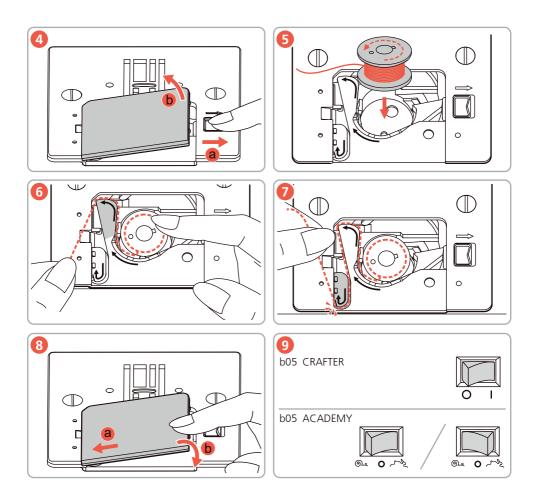




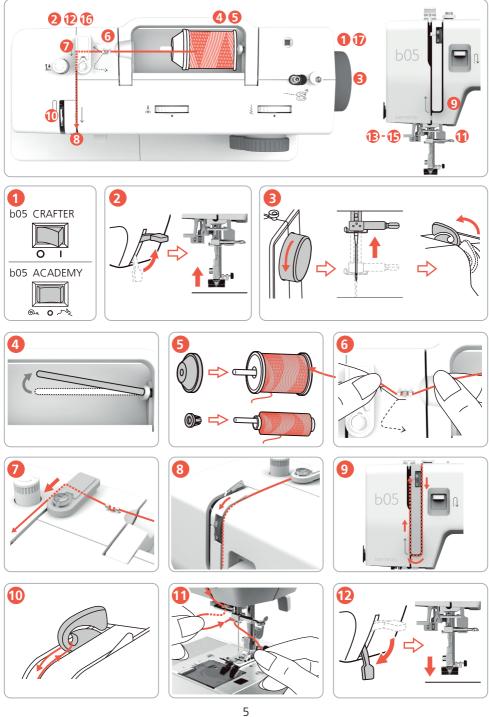
Threading the bobbin thread

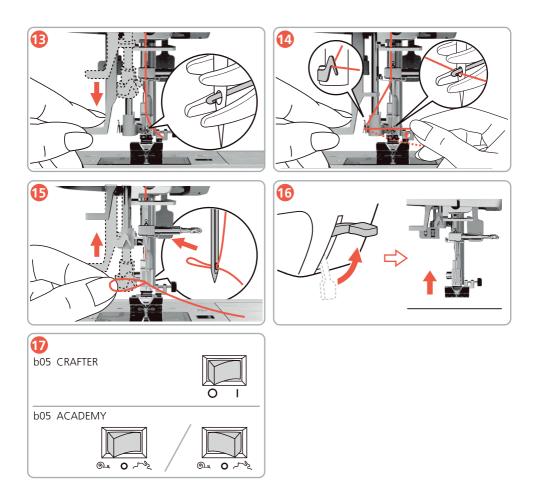




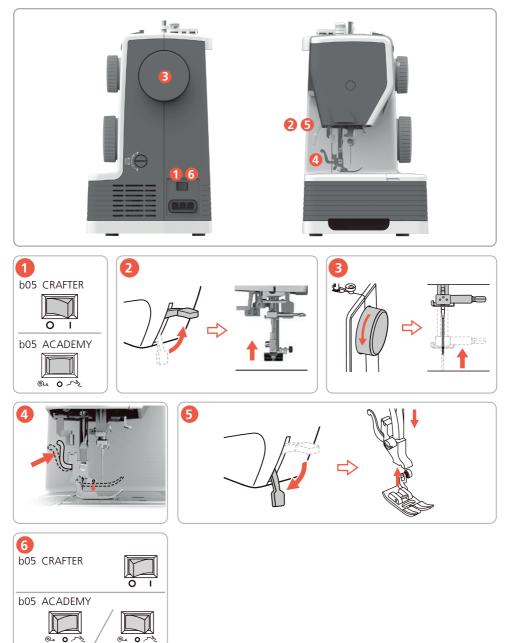


Threading the upper thread

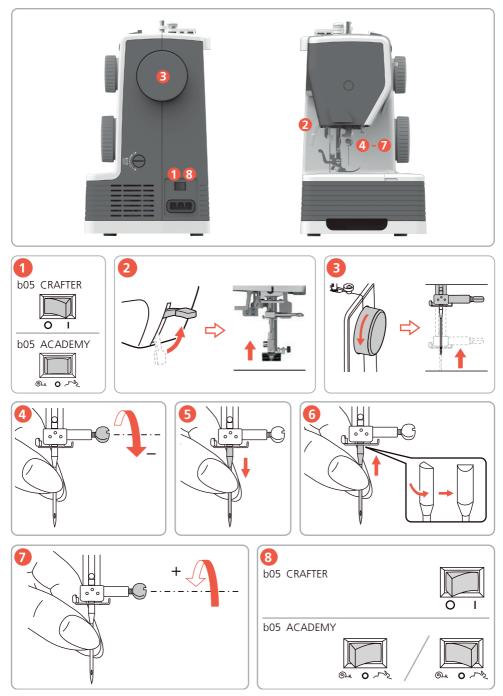




Changing presser foot



Changing the needle

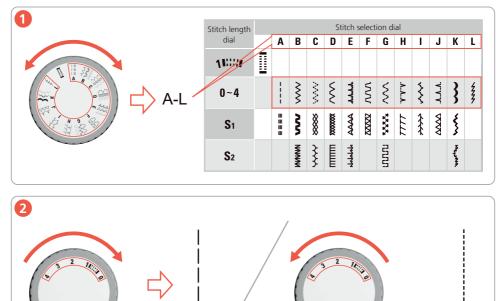


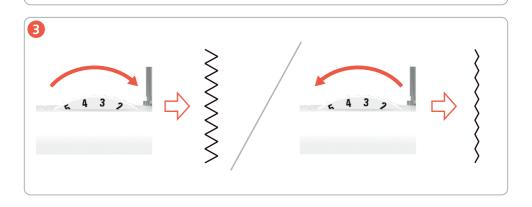
Selecting stitches

Stitch length					Stitch	selecti	on dia	I				
dial	Α	В	C	D	Ε	F	G	Η	I	J	K	L
0~4		$\stackrel{\scriptstyle >}{\underset{\scriptstyle >}{\underset{\scriptstyle >}{\atop}}}$		ξ	Muhuh		\leq	.Λ.Λ.Λ.	$\langle \rangle \langle \rangle$	-Λ-Λ-	}	
S1			*	XXXXXXXX	AAAA	ZXXXX	^ጟ ጟጟጟ	<i>TTTT</i>	11×			
S2		WWW	}		hhhhh						WHYM	

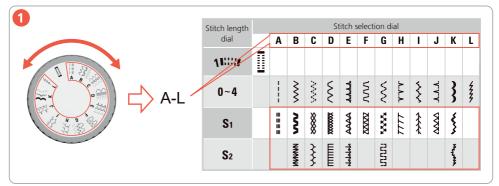


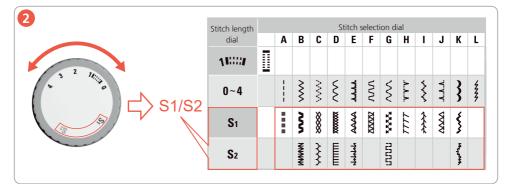
Selecting stitches in basic mode

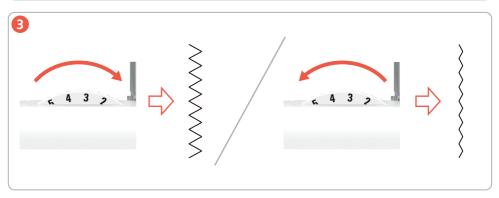




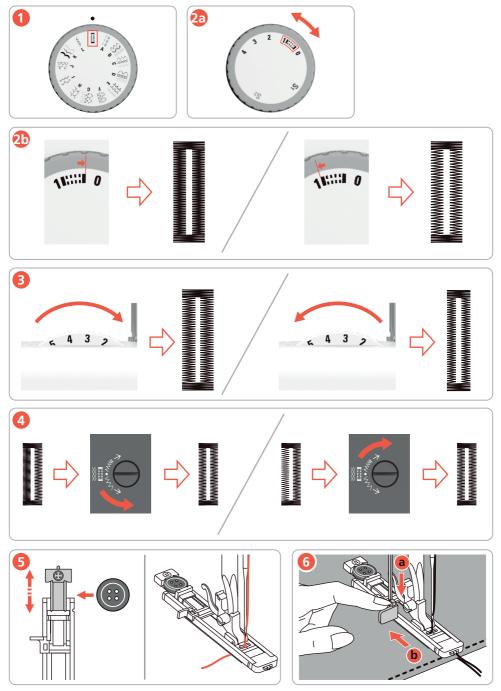
Selecting stitches in Mode S1 or S2





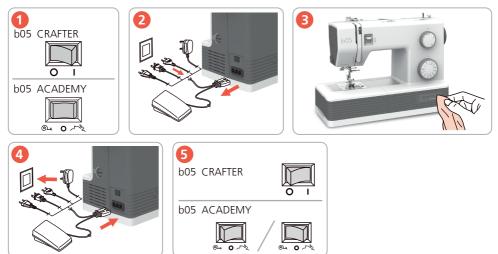


Selecting buttonhole



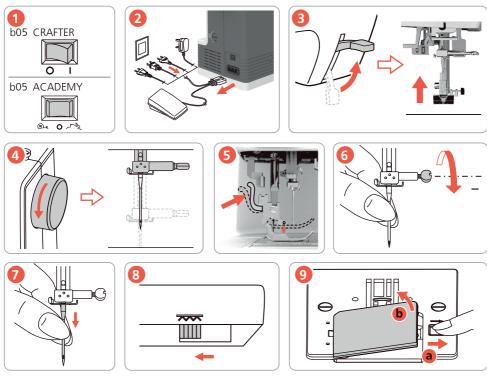
Maintenance

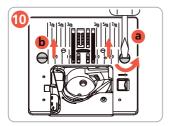
Clean machine surface

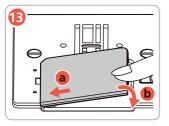


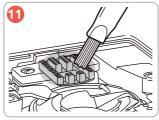
Do not use any organic solvents or detergents.

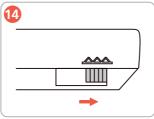
Clean the feed dog

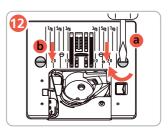


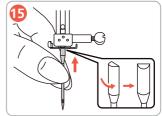


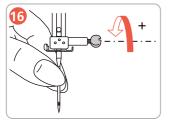






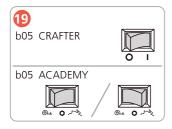




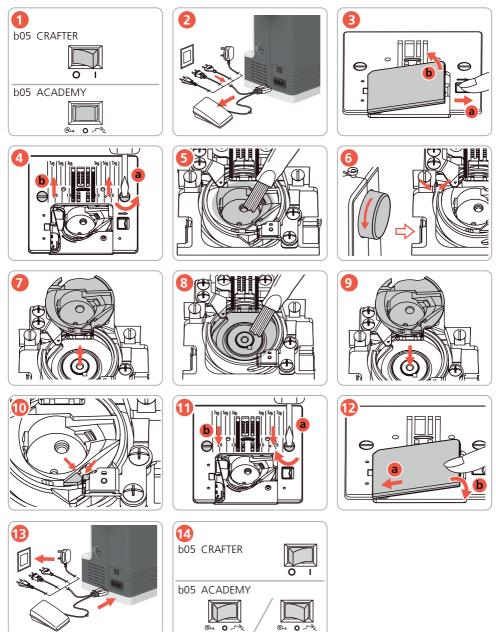




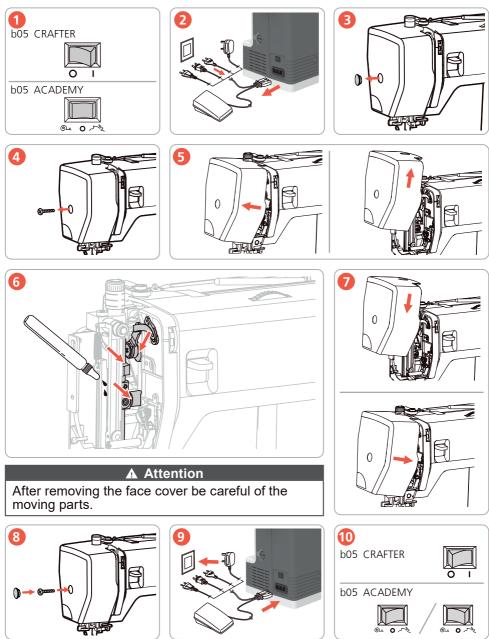




Clean the hook



Oiling the needle bar



Troubleshooting

Fault	Cause	Repair			
	Upper thread too tight or too loose.	Adjust the upper thread tension.			
	Needle blunt or bent.	Replace the needle, make sure that a new BERNINA quality needle is used.			
	Poor quality needle.	Use a new BERNINA quality needle.			
Uneven stitch	Poor quality thread.	Use quality thread.			
formation	Incorrect needle/thread combination.	Match the needle with the thread size.			
	Incorrectly threaded.	Rethread.			
	The fabric has been pulled.	Feed the fabric evenly.			
	Dust or thread remnants under the tension spring of the bobbin case.	Clean the hook.			
	Incorrect needle.	Use the needle system 130/705H.			
	Needle blunt or bent.	Replace the needle.			
	Poor quality needle.	Use a new BERNINA quality needle.			
Skipped stitches	The needle is incorrectly inserted.	Insert the needle with the flat side to the back as far up as it will go into the needle holder and tighten the screw.			
	Incorrect needle point.	Match the needle point to the texture of the material.			
	Thread remnants between the thread tension discs.	Fold a piece of thin material and slide the folded edge (not the raw edges) between the thread tension discs.			
	Incorrectly threaded.	Rethread.			
Faulty stitching	Thread is caught in the hook.	Remove the upper thread and the bobbin case, turn the handwheel backwards and forwards by hand and remove the thread remnants.			
	Incorrect needle/thread combination.	Check the needle/thread combination.			
	Incorrect needle/thread combination.	Match the needle with the thread size.			
	Upper thread is too tight.	Reduce the upper thread tension.			
Upper thread	Incorrectly threaded.	Rethread.			
breaks	Poor quality thread.	Use quality thread.			
	The stitch plate or the hook tip is damaged.	- Contact a specialized bernette dealer to have the damages repaired.			
		- Replace the stitch plate.			

Fault	Cause	Repair			
	The bobbin is not inserted correctly.	- Remove and reinsert the bobbin and pull on the thread.			
		\rightarrow The thread should run easily.			
Lower thread	Bobbin is wound incorrectly.	Check bobbin and thread correctly.			
breaks	The stitch hole in the stitch plate is damaged.	- Contact a specialized bernette dealer to have the damages repaired.			
		- Replace the stitch plate.			
	Needle blunt or bent.	Replace the needle.			
	The needle is incorrectly inserted.	Insert the needle with the flat side to the back as far up as it will go into the needle holder and tighten the screw.			
	The fabric has been pulled.	Feed the fabric evenly.			
Needle breaks	Thick fabric has been pushed.	- Use the appropriate presser foot, e.g. Jeans foot, for thick material.			
		- Use the height compensating tool when sewing over a thick seam.			
	Knotted thread.	Use quality thread.			
	The machine is not turned on.	Turn on the machine.			
The	The presser foot lifter is raised.	Lower the presser foot lifter.			
machine doesn't start	The machine is not plugged in.	Connect the power cord to the electric outlet.			
	The machine is damaged.	Contact a specialized bernette dealer.			
Neither the sewing light nor the light on the free arm lights up	The sewing light is defect.	Contact a specialized bernette dealer.			

Overview of the stitches

Dettern NO				V I		\cap	Nee	edle Pos	ition
Pattern	NO.	~~~		Ŀ	Tension		•••	•••	0-
1::::1	BH	4~6	0.3~0.5	2	4		V	V	V
	A	0	0.5~4	2	4	V	V	V	V
====	S1_A	0	S1	2	4		V	V	V
~~~~	В	2~6	0.3~4	2	4	V	V	V	V
///////	S1_B	3~6	S1	2	4		V	V	V
NNNNN	S2_B	3~6	S2	2	4		V	V	V
~~~~	с	3~6	0.5~2.5	2	4	V	V	V	V
****	S1_C	3~6	S1	2	4		V	V	V
~~~~	S2_C	3~6	S2	2	4		V	V	V
	D	3~6	1~3	2	4	V	V	V	V
	S1_D	3~6	S1	2	4		V	V	V
mmm	S2_D	3~6	S2	2	4		V	V	V
~~~~~	E	3~6	0.5~1.5	2	4	V	V	V	V
<u> </u>	S1_E	3~6	S1	2	4		V	V	V
ተተተተ	S2_E	3~6	S2	2	4		V	V	V
	F	3~6	0.5~2	2	4	V	V	V	V
777777	S1_F	3~6	S1	2	4		V	V	V
\sim	G	3~6	0.5~2	2	4	V	V	V	V
*****	\$1_G	3~6	S1	2	4		V	V	V
ากกก	S2_G	3~6	S2	2	4		V	V	V

		. /		VI	- .	\cap	Needle Position			
Pattern	NO.	~~~		Tension		$\left \right\rangle$	- 0	⊳ ()	- ()	
.ΛΛ	н	3~6	1~2.5	2	4	V	V	V	V	
	S1_H	3~6	0.5~4	2	4		V	V	V	
~~~~	I	3~6	0.5~2	2	4	V	V	V	V	
~~~~	S1_I	3~6	S1	2	4		V	V	V	
·v··v··	J	3~6	1~2.5	2	4	V	V	V	V	
	S1_J	3~6	S1	2	4		V	V	V	
\sim	к	3~6	0.5~1.5	2	4	V	V	V	V	
~~~~	S1_K	3~6	S1	2	4		V	V	V	
MATINA	S2_K	3~6	S2	2	4		V	V	V	
m	L	1~2.5	3~4	2	4		V	V	V	

For complete instructions, you can link to the online user manual and how to videos www.bernette.com or scan the QR-Code with your smart phone.

4

4

3

N

h



www.bernette.com/b05ACADEMY



2

N

5200105.0.04 / 021Q6K0101 | en 2023-06 © BERNINA International AG Steckborn CH, www.bernina.com

N

h

h

h

h

5

h

3

4

h

www.bernette.com/b05CRAFTER