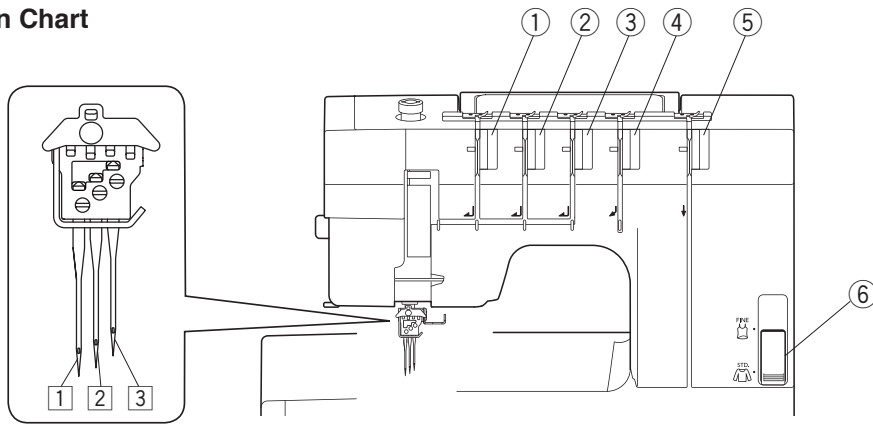


Stitch and Thread Tension Chart



Standard to Heavy fabrics

When sewing standard to heavy fabrics, turn the fine mode switching lever to STD. and adjust the thread tension dials referring to the chart below. Use Schmetz EL X 705 80/12 or 90/14 needles and #90 to #60 spun threads. For top cover stitch, #30 and #8 spun thread can also be used (refer to pages 9, 12 - 18, 22 - 31).

Type of stitch		Needle number	Thread number	Thread tension dials					Fine mode switching lever ^⑥	Stitch
				① Left needle thread	② Center needle thread	③ Right needle thread	④ Top cover thread	⑤ Looper thread		
Top cover stitch	Triple top cover stitch	1 2 3	5	3-6	3-6	3-6	1-5	2-5	STD.	
	Narrow 3 mm (Right)	2 3	4	—	3-6	3-6	2-6	2-5	STD.	
	Wide 6 mm	1 3	4	3-6	—	3-6	1-5	2-5	STD.	
Cover stitch	Triple cover stitch	1 2 3	4	3-6	3-6	3-6	—	2-5	STD.	
	Narrow 3 mm (Left)	1 2	3	3-6	3-6	—	—	2-5	STD.	
	Narrow 3 mm (Right)	2 3		—	3-6	3-6	—	2-5	STD.	
	Wide 6 mm	1 3		3-6	—	3-6	—	2-5	STD.	
Chain stitch	Left needle	1	2	3-6	—	—	—	2-5	STD.	
	Center needle	2		—	3-6	—	—	2-5	STD.	
	Right needle	3		—	—	3-6	—	2-5	STD.	

* When having trouble in feeding fabrics, turn the dial to larger number to have longer stitch length and support sewing by hands.

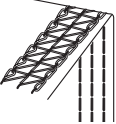
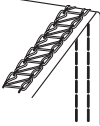
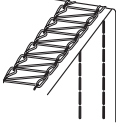
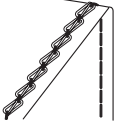
* When sewing heavy fabrics, it will cause skipped stitches, damage of needles or breakage of threads.

* Numbers in this chart are approximate figures. Please adjust dials for your preference.

Stitch and Thread Tension Chart

Fine fabrics

When sewing fine fabrics, turn the fine mode switching lever to FINE and adjust the thread tension dials referring to the chart below. Use Schmetz EL X 705 80/12 or 90/14 needles and #90 to #60 spun thread.

Type of stitch		Needle number	Thread number	Thread tension dials					⑥ Fine mode switching lever	Stitch
				① Left needle thread	② Center needle thread	③ Right needle thread	④ Top cover thread	⑤ Looper thread		
Cover stitch	Triple cover stitch	1 2 3	4	2-5	2-5	2-5	—	1-4	FINE	
	Narrow 3 mm (Left)	1 2	3	2-5	2-5	—	—	1-4	FINE	
	Narrow 3 mm (Right)	2 3		—	2-5	2-5	—	1-4	FINE	
	Wide 6 mm	1 3		2-5	—	2-5	—	1-4	FINE	
Chain stitch	Left needle	1	2	2-5	—	—	—	1-4	FINE	
	Center needle	2		—	2-5	—	—	1-4	FINE	
	Right needle	3		—	—	2-5	—	1-4	FINE	

* When having trouble in feeding fabrics, turn the dial to larger number to have longer stitch length and support sewing by hands.

* Numbers in this chart are approximate figures. Please adjust dials for your preference.