

# LH4-B814Mark II

## Lockstitch Button Holer



### Specifications

Model	LH4-B814MK II			
Subclass	-2	-3	-4	-5
Main use	General materials (shirt, blouse, dress etc.)	Knitted materials (Knit underwear etc.)	Knitted materials (sweater, cardigan, jacket etc.)	General materials
Max. sewing speed	3,600 rpm		3,200 rpm	2,800 rpm
No. of stitches per buttonhole	60-360		147-360	60-360
Feed system	Upper and lower feed			Upper feed
Buttonhole length	10-32 mm		10-32 mm	32-48 mm
Buttonhole width	2-6mm			
Max. sewing thickness	4 mm	3.5 mm	6 mm	5 mm
Max. clamp lift	13 mm	12.5 mm	13 mm	12 mm
Needle bar stroke	35.7 mm			
Needle	DP × 5 #14	DP × 5 #11	DP × 5 #14	DP × 5 #14
Lubrication	Automatic			
Tape winder	Option parts			
Ruler	Option parts			

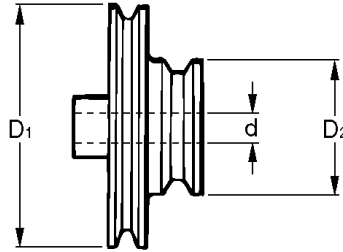
# LH4-B814- Mark II

Subclass	Applicable items	
-2	General materials shirt, blouse, dress etc.	General
-3	Knitted materials knit underwear etc.	General
-4	Knitted materials sweater, cardigan, jacket etc.	Gimp
-5	General materials	Big hole

## Different parts

Parts	Subclass	-2	-3-	-4	-5
Needle DP × 5		107415-014 (#14)	107415-011 (#11)	107415-014 (#14)	107415-014 (#14)
Cutter 5/8		107205-001	107205-001	107205-001	
Cutter 3/8		109837-001	109837-001	109837-001	
Cutter 3/4		107207-001	107207-001	107207-001	
Cutter 1		107210-001	107210-001	107210-001	
Cutter 48					147941-001
Change gear 28 (Q'ty:1)					141375-000
Change gear 30 (Q'ty:1)		141376-000	141376-000		141376-000
Change gear 32 (Q'ty:1)				141377-000	
Change gear 34 (Q'ty:1)			141378-000		141378-000
Change gear 36 (Q'ty:1)		141379-000	141379-000	141379-000	
Change gear 38 (Q'ty:1)		141380-000		141380-000	
Change gear 40 (Q'ty:1)		141381-000	141381-000	141381-000	
Change gear 42 (Q'ty:1)			141382-000		141382-000
Change gear 44 (Q'ty:1)				141383-000	
Change gear 46 (Q'ty:1)		141384-000	141384-000		141384-000
Change gear 48 (Q'ty:1)					141385-000

## Motor pulley and V- belt selection



Machine speed	Frequency	Motor pulley			High speed V-belt	Low-speed V-belt
		Outside diameter	Core	Parts No.		
3,600	50Hz	D1 = 187.5 D2 = 79	d = 14	S33007-002*	S18707-144 (M44)	S18707-141 (M41)
			d = 15.88	S33008-002*		
	60Hz	D1 = 152.8 D2 = 56	d = 14	S31131-002	S18707-142 (M42)	S18707-140 (M40)
d = 15.88	S33009-002					
d = 19.05	S33010-002					
3,200	50Hz	D1 = 160 D2 = 81	d = 14	141707-002	S18707-143 (M43)	S18707-142 (M42)
			d = 15.88	145781-002		
	60Hz	D1 = 134.2 D2 = 69.5	d = 14	141709-002	S18707-141 (M41)	S18707-141 (M41)
d = 15.88	145780-002					
d = 19.05	159830-002					
3,000	50Hz	D1 = 152.8 D2 = 73.4	d = 14	S42051-002	S18707-142 (M42)	S18707-140 (M40)
			d = 15.88	S42052-002		
	60Hz	D1 = 127.6 D2 = 62.2	d = 14	S33254-002	S18707-140 (M40)	S18707-140 (M40)
d = 15.88	S33255-002					
d = 19.05	S33256-002					
2,800	50Hz	D1 = 134.2 D2 = 69.5	d = 14	141709-002	S18707-141 (M41)	S18707-141 (M41)
			d = 15.88	145780-002		
	60Hz	D1 = 119.5 D2 = 69.5	d = 14	143890-002	S18707-141 (M41)	S18707-140 (M40)
d = 15.88	145782-002					
d = 19.05	159831-002					

\*For 3,600 rpm in 50Hz areas, use the motor spacer set (S33043-001).

## Change gear

No. of stitches	Change gear L	Change gear R	No. of stitches	Change gear L	Change gear R
360	(54)141388-000	(22)141372-001	133	(36)141379-000	(40)141381-000
319	(52)141387-000	(24)141373-001	119	(34)141378-000	(42)141382-000
283	(50)141386-000	(26)141374-000	107	(32)141377-000	(44)141383-000
252	(48)141385-000	(28)141375-000	96	(30)141376-000	(46)141384-000
226	(46)141384-000	(30)141376-000	86	(28)141375-000	(48)141385-000
203	(44)141383-000	(32)141377-000	77	(26)141374-000	(50)141386-000
182	(42)141382-000	(34)141378-000	68	(24)141373-001	(52)141387-000
164	(40)141381-000	(36)141379-000	60	(22)141372-001	(54)141388-000
147	(38)141380-000	(38)141380-000			

# Gauge parts list

## Cutter

<p>109837-001</p>	<p>107204-001</p>	<p>107200-001</p>	<p>S03278-001</p>	<p>107205-001</p>	<p>S25641-001</p>
<p>107207-001</p>	<p>S25642-001</p>	<p>109838-001</p>	<p>107210-001</p>	<p>151837-001</p>	<p>151838-001</p>
<p>151839-001</p>	<p>S03279-001</p>	<p>151840-001</p>	<p>151841-001</p>	<p>153340-001</p>	<p>159722-001</p>
<p>S30294-001</p>		<p>143780-001</p>		<p>147987-001</p>	
<p>147941-001</p>		<p>147233-001</p>			

# Gauge parts list

\*1 Work clamp assy, W/F-G

\*2 Work clamp assy

\*3 Work clamp

< For "-2" >		
*1 S37125-001	*1 S37124-001	*1 S37117-001
*2 150763-001 (16 mm)	*2 147112-001 (16 mm)	*2 150764-001 (25 mm)
*3 145146-001 (With rubber)	*3 147113-001	*3 144498-001 (With rubber)
< For "-2" >		< For "-3" >
*1 S37127-001	*1 S37118-001	*1 S37126-001
*2 144493-001 (25 mm)	*2 150765-001 (32 mm)	*2 150767-001 (16 mm)
*3 144494-001	*3 144575-001 (With rubber)	*3 145136-001 (With rubber)
< For "-3" >		< For "-4" >
*1 S37119-001	*1 S37120-001	*1 S37129-001
*2 1510768-001 (25 mm)	*2 150769-001 (32 mm)	*2 147721-101 (16 mm)
*3 144630-001 (With rubber)	*3 144632-001 (With rubber)	*3 147722-001 (With rubber)
< For "-4" >		
*1 S37121-001	*1 S37128-001	*1 S37122-001
*2 150770-001 (25 mm)	*2 147719-001 (25 mm)	*2 150771-001 (32 mm)
*3 145362-001	*3 147720-001 (With rubber)	*3 145375-001
< For "-4" > Light-weight materials		< For "-5" >
*1 S37130-001	*1 S37123-001	
*2 151610-101 (16 mm)	*2 150766-001 (50 mm)	
*3 151611-001	*3 147230-001	
< For "-2" > Option parts (For Shin-gosen)		
S35762-001 16 mm <Option>	S35763-001 25 mm <Option>	S35764-001 32 mm <Option>
159761-001 (S)	159762-001 (S)	159763-001 (S)

# Gauge parts list

## Needle plate

<-2>	147312-001 1.2 mm	151612-001 1.2 mm	145244-001 1.4 mm	147314-001 1.6 mm
<-4>	147313-001	151613-001	145246-001	147315-001
	Needle plate (O) 151842-001 1.2 mm	Plastic plate 151843-001	Base plate (U) 145245-001	

<-3>	144633-001 1.2 mm	144636-001 1.4 mm	144638-001 1.6 mm
	144635-001	144637-001	144639-001
	Needle plate 156611-001 1.2 mm	Plastic plate 156612-001	Base plate 144634-001

Needle plate 1.4 mm 141536-001	Needle plate 1.4 mm 147234-001
<-3>	<-5>

## Option parts

S35993-001(S) 1.2 mm	S35759-001(S) 1.2 mm	S35760-001(S) 1.4 mm
S35761-001(S) 1.6 mm	Plastic plate S01270-001	