

BOSTITCH®

INSTRUCTIONS FOR OPERATION and MAINTENANCE

NO. 17E WIRE STITCHER WITH NO. 2601E HEADS

CAPACITY: 2 Sheets to ¼" (6.4mm)

SIZE OF WIRE: Standard No. 25 .0204 (.51mm) Round Wire

(Uses No. 25 to 28 .0204 (.51mm) to .016 (.41mm) Round Wires)

Can be furnished with No. 21 .0317 (.81mm) Round or 21 x 25 .0317 x .0204 (.81mm x .51mm) Wire Parts

SPEED: Up to 190 stitches per minute.

Note: This book does not include head instructions. It should be used in conjunction with BSA388 Series Manual; Entitled "Operation and Maintenance Manual for 2001, 2301, and 2601 Series Bostitch Wire Stitcher Heads."

WARNING: NEVER OPERATE MACHINE WITH WIRE FEEDING AND NO STOCK ABOVE CLINCHERS. SERIOUS DAMAGE MAY RESULT IF THIS PRACTICE IS FOLLOWED.

1. INTRODUCTION

A wire stitcher, like any other machine, will give satisfactory results when properly installed, regularly lubricated, correctly adjusted, and carefully maintained. Moving parts will wear in time and require replacement; others may break through accident. Trained service men are not always available. Therefore, a knowledge of the functions of the major parts of a stitcher is important for every person responsible for its operation, in order to know what to do in case of trouble.

We have attempted to present the information in a manner that will make it quickly available and easily understood.

We would urge, however, in case of serious difficulty that you notify our nearest sales office, sending samples of the defective work and describing the trouble in detail.

Be sure to report the serial number and model of the machine when corresponding so that it may be identified quickly.

2. INSTALLATION

(See charts and parts lists for locations and names of parts referred to.)

Any machine can be seriously damaged during its installation if it is not properly set up; therefore, we recommend close adherence to the following procedure:

(a) After uncrating machine, examine carefully for any breakage in transit. If such is found, do not attempt to run machine but report at once to the selling agent. If service man is present, let him examine machine carefully and then report to manufacturer.

(b) Remove Belt Guard (See Belt Guard instructions, pg. 3) See that motor is free to revolve when large pulley or flywheel is turned by hand.

(c) Examine name plate on motor and see that its specifications are the same as those of the power to be used. If not, do not attempt to use.

(d) Since machine is shipped with some parts disassembled, it is necessary that these parts be reassembled onto the machine (i.e. heads, table and gauges, spool bars, spool studs, belt guard, belt shield, motor bracket, motor, etc.)

The mounting of motor onto the bracket is a simple matter which needs no explanation. When assembling belt, make sure that it is only tight enough to run machine without slippage. Belt tension may be adjusted by moving motor bracket up or down.

(e) Place machine on level floor, using shims under base to prevent any movement or rocking.

(f) Lubricate machine thoroughly as described in head instructions and as follows. Apply generous supply of oil (SAE 10) to pulley washer as this lubricates clutch. Oil following parts periodically: Clincher cam slide roll; main shaft, through oil hole covers at back of frame and in adjusting link casting at front end of frame; driving shaft connection; each end of crosshead pinion shaft; each end of crosshead; clincher lever and clincher operating lever pivot. In some instances, no mention is made in instructions of certain obvious places to oil. These can be determined by means of oil hole covers.

(g) Trip the clutch by means of the movable foot pedal at front of machine and turn machine over by hand a few times to see that everything is clear. Then take foot off clutch trip pedal and rotate clutch pulley rapidly, so that clutch will be entirely disengaged. Do not turn electric switch on until pulley rotates freely.

(h) The clincher rail may shift in shipment and its position should be checked. This can be done by attaching a head and a clincher plate at each end of rails, thread up heads and set machine at about middle of adjustment; turn machine by hand until staples have been cut off and formed, turn machine until points of staples project from end of bender bars and see that points enter center of clincher plates. When set, tighten clincher rail screws firmly. Error in this setting will cause staple to roll forward or back on very thin work.

If one head rolls stitch in this manner while the others are all right, that head may be adjusted by changing aligning screw in back of head. This should be done only when it is certain that an individual head is at fault.

(i) Connect motor cord to power outlet and start motor. See that it runs freely, without undue noise, and that the large pulley rotates clockwise as viewed from the front of the machine. Should it rotate counter-clock-wise, motor wiring should be re-connected by an electrician in order to reverse direction of rotation.

(j) If rotation is correct, push down on foot pedal and start machine operating. Remove foot from pedal and machine will stop. A very little practice will enable operator to know exactly how to stop and start machine exactly when desired.

3. OPERATION

(a) Place spool of proper size wire on the spool studs located near the stitching mechanism or head. Thread machine as described in head instructions.

When loading with wire wound on paper cores: Remove detachable flange from spool and insert coil of wire, replacing flange and turning coil till binding wires are aligned with slots in flanges. Tighten nut till coil is snugly held. Cut binding wires, except the one holding the end of the coil. (They may be pulled out through the slots.) Then grasp end of coil and cut and remove the binding wire which holds it. Thread the machine as instructed.

(b) Referring to head operating adjustment instructions, follow procedure for remainder of operations required, such as wire straightening and adjustment for length of wire.

To gauge for thickness of work, loosen handle at back of frame, swing to desired position and tighten. Horizontal at the left is the position for the thinnest and horizontal at the right for the thickest work within capacity of machine. It is not necessary to measure thickness of work as a very little practice will enable operator to determine position of handle with relation to thickness of work. However, should machine be set for thin work and thicker work be stitched, no harm will be done. Machine will simply feed short wire and can be adjusted when observed. For fine adjustment see head instructions, "How to Adjust Length of Both Legs of Stape." However, most adjustments for longer wire can be made by

simply setting handle at rear of stitcher, for thicker work.

Clinchers can be tightened or loosened by adjusting the screw at bottom of clincher cam slide at back of machine. Refer to head operating adjustment instructions for individual clincher adjustment.

(c) Machine is now ready to do stitching and with directions as outlined above satisfactory results should be obtained. Make several rows of stitches in stock to be used, examining crown and legs for proper appearance. If not satisfactory, adjust machine in accordance with directions given below. See section 4 "Appearance of Stitches" and "Trouble Shooting Chart" in head instructions.

(d) WARNING: NEVER OPERATE MACHINE WITH WIRE FEEDING AND NO STOCK ABOVE CLINCHERS. SERIOUS DAMAGE MAY RESULT IF THIS PRACTICE IS FOLLOWED.

4. APPEARANCE OF STITCHES

If stitching is defective, compare stitch produced with the illustrations in head instruction manual. Then eliminate defect, follow instructions given with illustration that agrees with defect.

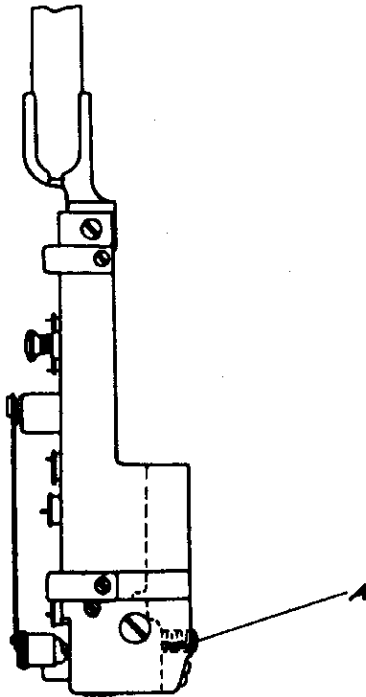
If it is necessary to correspond about any defective stitches or other difficulties with the machine, be sure to refer by letter to the illustration in head instruction manual, which shows the type of stitch defect and if possible, send a sample of the work actually being done on the machine.



Rolled Stitch

If stitch is rolled (in thin work), clincher is out of line with wire grooves. Remedy: Realign same. This is normally a factory adjustment and should never be disturbed unless you are convinced that it must be done to rectify trouble as itemized.

Adjustment forward or back can be made by means of screw "A" in back of each head located near bottom. See following diagram.



5. THE ESSENTIAL POINTS OF STITCHING

To continue to obtain satisfactory stitches it is necessary that the following essentials be observed:

- (a) The legs of the staple must be of the same length.
- (b) Wire must enter cutters as nearly straight as possible.
- (c) The cutters or knives must be sharp and properly set so that there are no burrs on end of wire and wire is cut with a square end (not beveled).
- (d) The clinchers must be adjusted to the proper height, must work freely and be centrally located forward and back. They must also be mechanically in good condition with no pitted or badly worn grooves. Heads must be adjusted for proper compression of work to be stitched.
- (e) The machine must be kept clean and properly oiled.

(f) The wire must be of the correct size for stock to be stitched and must be used only in the proper bender bar. Wire fitting the bender bar grooves too loosely will cause buckling, and too large a wire will also cause buckling in addition to excess wear on the bender bars. Be guided by the operating instructions for the proper size wire.

(g) The wire spool must be free to turn and the wire must not be allowed to become crossed. Short staples and even entire failure to produce staples may result from crossed or tangled wires.

(h) The wire feed grips must not be clogged or the points badly worn. Short leg staples on one side can be caused by these conditions.

*The necessary adjustments, replacements, etc., required to meet conditions as listed above are described in detail in the head and stitcher instructions.

6. MAINTENANCE

(a) Machine should be lubricated regularly as described under heading of "Installation" in this pamphlet and under heading of "Maintenance" in head instructions.

(b) The friction clutch is adjusted by means of set screw (Index No. 100) in brake band (Index No. 103). Screw in if clutch slips. Screw out if clutch knocks. A quarter turn will make considerable difference in action of the clutch.

(c) Clincher points, which are reversible, can be removed by loosening clincher plate binder nuts a sufficient amount to permit moving clincher slide out and downward to disengage from points. Clincher points can then be swung to vertical position and removed. When replacing clincher points, locate same on studs in clincher plate and pivot downward a sufficient amount to permit lip on clincher slide to enter opening in points. To obtain good clinching of staple, clincher points should be free from dirt and particles of wire.

BELT GUARD REMOVAL

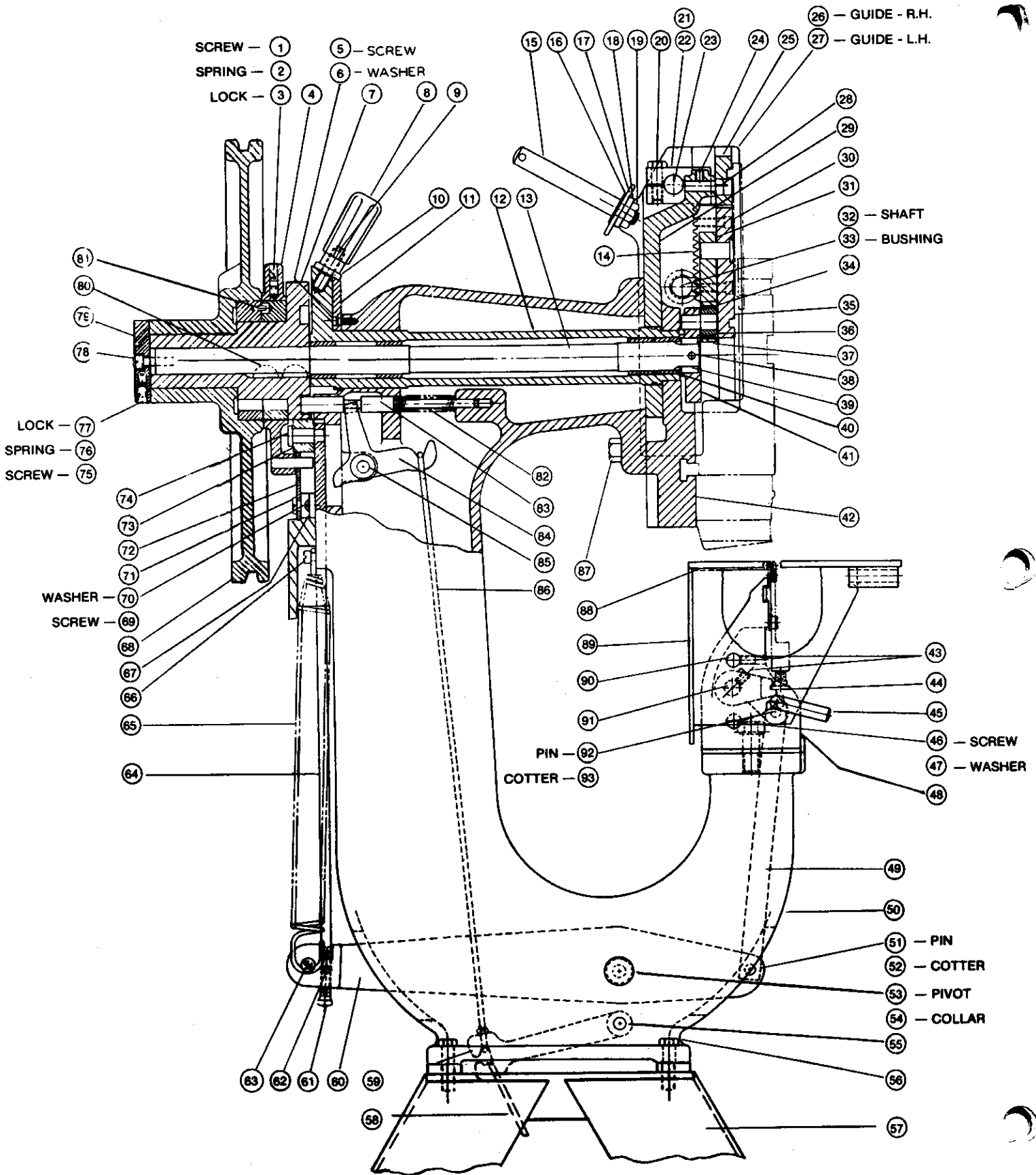
To remove the plastic belt guard, press in on one side tab while prying out locking face. This will release the first tab. Next, pull down slightly on top of guard to release bottom tab. Guard will now be free to lift off remaining tabs on mounting plate.

To reassemble, interlock the top tab, and one side tab. Pull down slightly on top of guard to interlock bottom tab, then squeeze mounting plate and guard together to lock remaining tab, completing assembly.

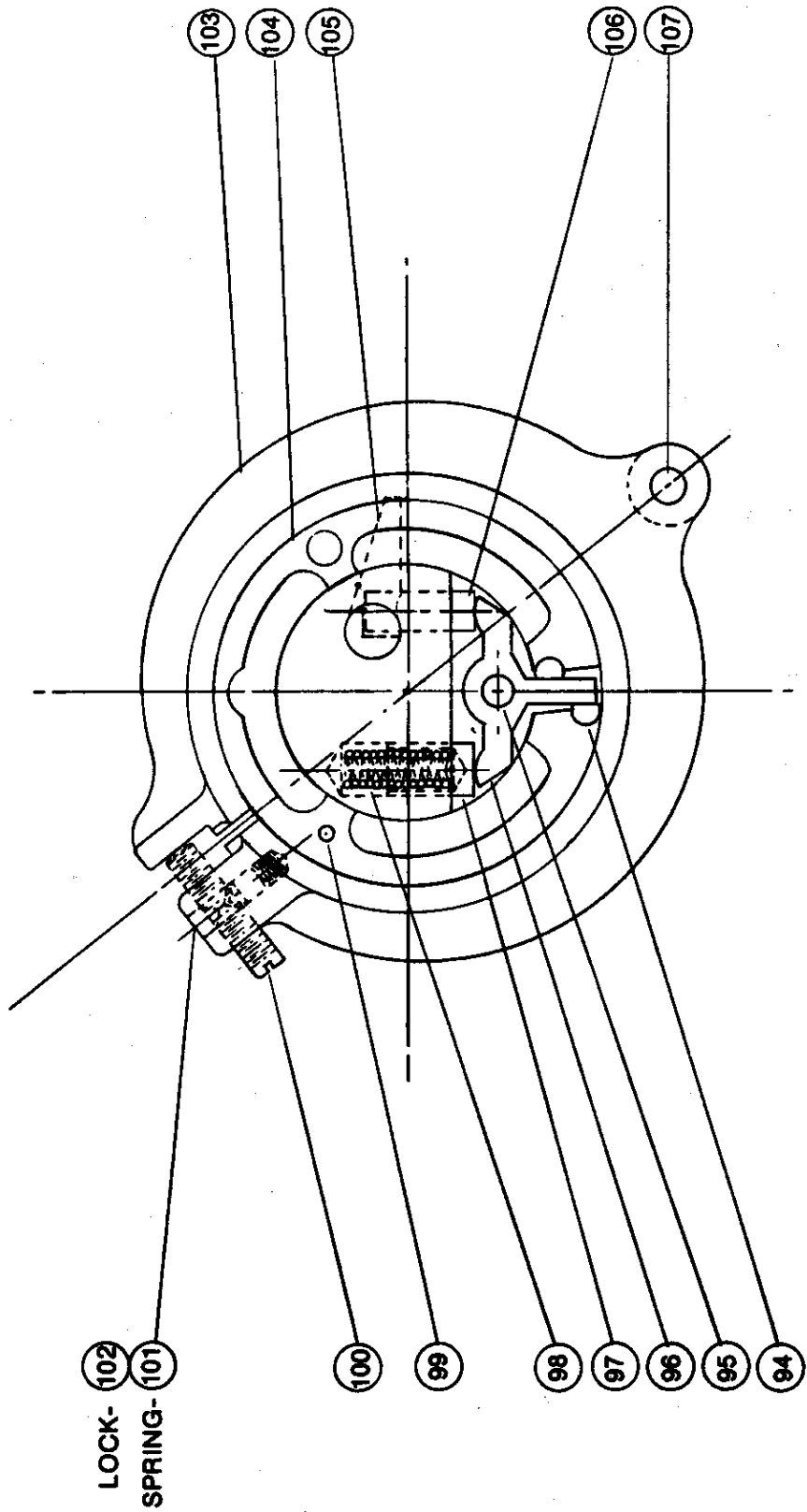
IMPORTANT: When ordering parts or addressing inquiries to seller, please be sure to give **Stitcher Serial Number and Model**, so that the machine may be accurately identified and proper parts furnished.

Do not use any other size of wire on the machine than that for which it is equipped.

MODEL NO 17E BOSTITCH STITCHER



BRAKE UNIT



PARTS LIST

INDEX NO.	NAME OF PART	PART NO.	INDEX NO.	NAME OF PART	PART NO.
1	Brake Band Adj. Screw	2340B	56	Frame Screw	UA61
2	Brake Band Adj. Screw Lock Spring	9051	57	Base	17203B
3	Brake Band Adj. Screw Lock	2341	58	Treadle Connection - Lower	2274
4	Brake Band Assembly	2339A	59	Treadle Connection Guide Lever	2275
5	Eccentric Quill Binder Sector Screw	9080	60	Clincher Operating Lever	17270
6	Eccentric Quill Binder Sector Screw Lock Washer	LW10	61	Clincher Operating Lever Screw	UA5524.1
7	Clincher Cam	16067	62	Clincher Operating Lever Screw Binder	38
8	Eccentric Quill Binder Nut	2209	63	Clincher Operating Lever Spring	406
9	Eccentric Quill Binder Stud	2207		Pin	
10	Eccentric Quill Binder Washer	2208	64	Clincher Cam Slide Assembly	2232A
11	Eccentric Quill Binder Sector	2710	65	Clincher Operating Lever Spring	0014
12	Eccentric Quill Assembly	17230BA	66	Clincher Operating Spring Lever Screw	UA4112.1
13	Driving Shaft Assembly	17238EA	67	Belt Guard Bracket	7669B
14	Crosshead Rack	16119C	68	Driving Pulley	2331E
15	Spool Stud - Short	7155	69	Clincher Cam Slide Strap Screw	UA3308.2
16	Spool Stud Washer	174	70	Clincher Slide Strap Screw Lock Washer	LW10
17	Spool Stud Washer (Large)	2245			
18	Spool Bar	17280	71	Brake Band Link Stud	2343
19	Spool Stud Nut	HN3816.2	72	Brake Band Link	17244
20	Adj. Bar Equalizing Lever Screw	UA5116.1	73	Clincher Cam Roll	48
21	Adj. Bar Equalizing Lever	17249	74	Clincher Cam Roll Stud	49
22	Adj. Bar Equalizing Lever Pin	16131	75	Driving Pulley Washer Set Screw	UA5804.1
23	Adj. Bar Equalizing Lever Shaft	17133	76	Driving Pulley Washer Lock Spring	030
24	Adj. Link Eccentric Binder	38	77	Driving Pulley Washer Lock	2350
25	Adjusting Bar	17248	78	Driving Pulley Washer Screw	2349
26	Crosshead Guide - Right	17245	79	Driving Pulley Washer Assembly	2217DA
27	Crosshead Guide - Left	17246	80	Driving Shaft Key	66B
28	Adj. Link Eccentric	17250	81	Clutch Ring Safety Pin	29
29	Adjusting Link	17247	82	Stop Plunger Spring	2225
30	Crosshead Rack Screw	UA4810.1	83	Stop Plunger	2224
31	Crosshead Connection Pin Washer	16114	84	Stop Plunger Lever	2226D
32	Pinion Shaft	17125	85	Stop Plunger Lever Pivot	17227
33	Pinion Shaft Bushing	16126	86	Treadle Connection - Upper	2273
34	Driving Shaft Crank Pin Washer	16049C	87	Bonnet Rail Screw	UA6124.1
35	Crosshead Assembly	17115JA	88	Work Table Filling Piece	17149
36	Spherical Bearing	87921	89	Work Table	17145FA
37	Driving Shaft Connection	16050DA	90	Work Table Pivot	17146
38	Roll Pin	UB3126.1	91	Clincher Lever Pivot	17111
39	Key	17055	92	Clincher Lever Link Pin	16079
40	Needle Bearing	87920	93	Clincher Lever Link Pin Cotter	UB2912.3
41	Driving Shaft Head Assembly	17239DA	94	Clutch Ring Expanding Pin	2347
42	Bonnet Rail	17101D	95	Clutch Lever Pivot Pin	2334
43	Clincher Lever Pivot Set Screw	38	96	Clutch Lever	2333
43	Work Table Pivot Screw	38	97	Clutch Lever Spring Plunger	2336
44	Clincher Lever	17110B	98	Clutch Lever Spring	2335
45	Work Table Lock Pin	16148	99	Clutch Ring Safety Pin	29
46	Clincher Rail Screw	16107	100	Brake Band Adj. Screw	2340B
47	Clincher Rail Screw Washer	174	101	Brake Band Adj. Screw Lock Spring	9051
48	Clincher Rail	17106D	102	Brake Band Adj. Screw Lock	2341
49	Clincher Lever Link	16077	103	Brake Band Assembly	2339A
50	Frame	17201	104	Clutch Ring Assembly	2332CA
51	Clincher Lever Link Pin	16079	105	Clutch Pawl	2337
52	Clincher Lever Link Pin Cotter	UB2912.3	106	Clutch Pawl Plunger	2338
53	Clincher Operating Lever Pivot	17271	107	Brake Band Pin	2344
54	Clincher Operating Lever Pivot Collar	2238			
55	Treadle Connection Guide Lever Pivot	17223			

NUMERICAL INDEX

PART NO.	NAME	INDEX NO.	PART NO.	NAME	INDEX NO.
LW10	Eccentric Quill Binder Sector Screw	6	UA6412	Belt Guard Bracket Screw - Left	—
	Lock Washer		7155	Spool Stud - Short	15
LW10	Clincher Cam Slide Strap Screw Washer	70	9051	Brake Band Adj. Screw Lock Spring	101
0014	Clincher Operating Lever Spring	65	*9065	Wire Straightener Eccentric Roll	—
29	Clutch Ring Safety Pin	81,99	*9067	Wire Straightener Eccentric Nut	—
030	Driving Pulley Washer Lock Spring	76	*9068	Wire Straightener Eccentric Bushing	—
*PW38	Washer Motor Bracket	—	*9069	Wire Straightener Eccentric Spring	—
38	Clincher Lever Pivot Set Screw	43	*9070	Wire Straightener Eccentric Pointer	—
38	Clincher Operating Lever Screw Binder	62	*9078	Eccentric Quill Sector Pin	—
38	Adj. Link Eccentric Binder	24	9080	Eccentric Quill Binder Sector Screw	5
38	Work Table Pivot Screw	43	*9103	Wire Straightener Roll	—
48	Clincher Cam Roll	73	850699	Wire Straightener Roll Clip	—
49	Clincher Cam Roll Stud	74	*9146	Wire Straightener Eccentric	—
*63	Work Stop Set Screw	—	*9147	Wire Straightener Roll Stud	—
*63	Back Gauge Bar Screw	—	*11243	Bonnet Rail Dowel	—
66B	Driving Shaft Key	80	UA4112.1	Clincher Operating Spring Lever Screw	66
UA5848.1	Spool Bar Bracket Screw	—	*16010D	Motor Bracket	—
*172	Name Plate Pin	—	*7669B	Belt Guard Bracket	—
174	Spool Stud Washer	16	16049C	Driving Shaft Crank Pin Washer	34
174	Clincher Rail Screw Washer	47	16050DA	Driving Shaft Connection	37
406	Clincher Operating Lever Spring Pin	63	16067	Clincher Cam	7
*425	Back Gauge Screw	—	16077	Clincher Lever Link	49
*425	Wire Guide Bracket Screw	—	16079	Clincher Lever Link Pin	51,92
*BD454	Crosshead Guide Dowel	—	16107	Clincher Rail Screw	46
				Crosshead Connection Pin Washer	31
2207	Eccentric Quill Binder Stud	9	16119C	Crosshead Rack	14
2208	Eccentric Quill Binder Washer	10	16126	Pinion Shaft Bushing	33
2209	Eccentric Quill Binder Nut	8	16131	Adj. Bar Equalizing Lever Pin	22
2217DA	Driving Pulley Washer Assembly	79	16148	Work Table Lock Pin	45
*2218	Driving Pulley Washer Oil Tube	—	*16160	Back Gauge	—
2224	Stop Plunger	83	17055	Key	39
2225	Stop Plunger Spring	82	17101D	Bonnet Rail	42
2226D	Stop Plunger Lever	84	17106D	Clincher Rail	48
2232A	Clincher Cam Slide Assembly	64	17110B	Clincher Lever	44
2238	Clincher Operating Lever Pivot Collar	54	17111	Clincher Lever Pivot	91
2245	Spool Stud Washer (Large)	17	17115JA	Crosshead Assembly	35
*2247	Treadle	—	17125	Pinion Shaft	32
2273	Treadle Connection - Upper	86	17133	Adj. Bar Equalizing Lever Shaft	23
2274	Treadle Connection - Lower	58	17145FA	Work Table	89
2275	Treadle Connection Guide Lever	59	17146	Work Table Pivot	90
850730	V-Belt	—	17149	Work Table Filing Piece	88
2331E	Driving Pulley	68	*17161A	Back Gauge Bar Assembly	—
2332CA	Clutch Ring Assembly	104	17201	Frame	50
2333	Clutch Lever	96	17203B	Base	57
2334	Clutch Lever Pivot Pin	95	17209B	Treadle Shaft	—
2335	Clutch Lever Spring	98	17223	Treadle Connection Guide Lever	55
2336	Clutch Lever Spring Plunger	97		Pivot	—
2337	Clutch Pawl	105	17227	Stop Plunger Lever Pivot	85
2338	Clutch Pawl Plunger	106	17230BA	Eccentric Quill Assembly	12
2339A	Brake Band Assembly	4,103	17238EA	Driving Shaft Assembly	13
2340B	Brake Band Adj. Screw	1,100	17239DA	Driving Shaft Head	41
2341	Brake Band Adj. Screw Lock	3,102	17244	Brake Band Link	72
2343	Brake Band Link Stud	71	17245	Crosshead Guide - Right	26
2344	Brake Band Pin	107	17246	Crosshead Guide - Left	27
2347	Clutch Ring Expanding Pin	94	17247	Adjusting Link	29
2349	Driving Pulley Washer Screw	78	17248	Adjusting Bar	25
2350	Driving Pulley Washer Lock	77	17249	Adjusting Bar Equalizing Lever	21
2170B	Belt Guard Mounting Plate	—	17250	Adj. Link Eccentric	28
7671B	Belt Guard	—	17270	Clincher Operating Lever	60
2710	Eccentric Quill Binder Sector	11	17271	Clincher Operating Lever Pivot	53
*2810	Work Stop	—	17280	Spool Bar	18
UB2912.3	Clincher Lever Link Pin Cotter	52, 93	*17281	Spool Bar Screw - Short	—
UB3126.1	Roll Pin	38	*17282	Spool Bar Bracket	—
UA3308	Belt Guard Bracket Screw - Top	69	*17284	Spool Bar Brace	—
*UB3916.1	Treadle Shaft Cotter	—	*17286	Spool Stud - Long	—
*UB4116.1	Crosshead Rack Dowel	—	*17288	Wire Guide Spring Bracket	—
UA4810.1	Crosshead Rack Screw	30	*17289	Wire Guide Spring Bracket Bar	—
UA4816.1	Belt Guard Bracket Screw - Bottom	—	*17291A	Wire Straightener Plate Assembly	—
HN3816.2	Spool Stud Nut	19	*17292	Spool Bar Screw - Long	—
*5057	Driving Pulley Washer Dowel	—	*19325CA	Motor Pulley	—
UA5116.1	Adj. Bar Equalizing Lever Screw	20	*85200	Oil Hole Cover	—
*UA5210.0	Spool Bar Brace Screw	—	*85221	Driving Pulley Washer Oiler	—
*UA5210.1	Wire Guide Spring Bracket Bar Screw	—	87920	Needle Bearing	40
UA5524.1	Clincher Operating Lever Screw	61	87921	Spherical Bearing	36
UA5804.1	Driving Pulley Washer Set Screw	75	*85222	Oil Hold Cover - (Adjusting Link)	—
UA5812.2	Foot Rest Set Screw	—	*87922	Oil Hole Cover - (Clincher Rail)	—
UA6124.1	Bonnet Rail Screw	87			
UA6124.1	Frame Screw	56			
*UA6124.1	Motor Bracket Screw	—	*53	AVAILABLE ACCESSORIES	
*UA6816.2	Crosshead Guide Screw	—	*2618AB	Work Table Extension (Rear)	—
			17300	Centering Fork (Assembly)	—
			17301A	Plastic Head Guard	—
			F173B	Mounting Bar	—
				Spacer	—

BOSTITCH TEXTRON

Bostitch Division of Textron Inc.

East Greenwich, R.I. 02818 U.S.A.