

INSTRUCTIONS AND PARTS LIST

OF THE

№ 14 & № 14B

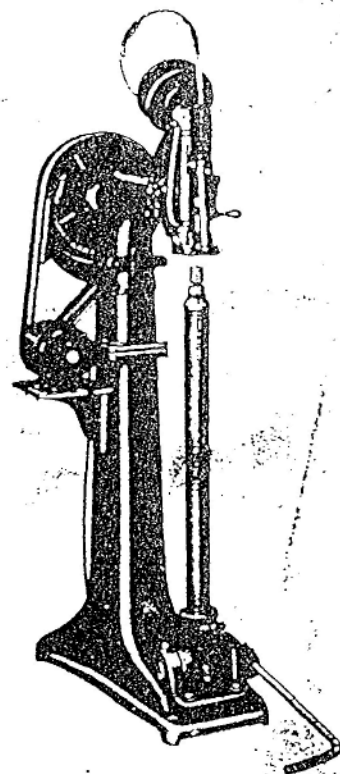
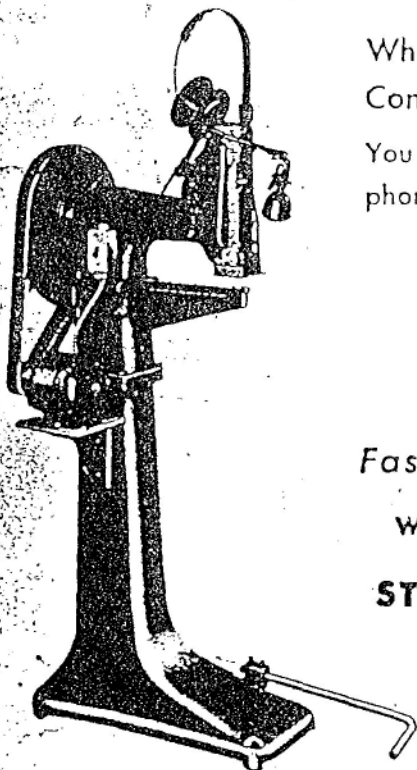
BOSTITCH® WIRE STITCHERS

V BELT DRIVE

USES № 15001D HEAD

When in need of Parts or Service
Contact Your Bostitch Distributor.
You will find "BOSTITCH" listed in
phone books of most large cities.

Fasten It Better and Faster
with **BOSTITCH®**
STAPLERS AND STAPLES



INSTALLATION, OPERATION AND MAINTENANCE of No. 14 AND No. 14B BOSTITCH WIRE STITCHER WITH No. 15001D HEAD

CAPACITY: 9/16"

SIZE OF WIRE: .017 thru .023 Ribbon

No. 1 and 2 Hybar

No. 18x20, 19x21½, 20x24, 20x25 and 21x25 Flat

No. 18, 20, 22, 23, 24 and 25 thru 27 Round

CROWN OR STAPLE WIDTH: ⅜", ½" (Standard), ⅝" and ¾"

SPEED: Up to 300 stitches per minute

Note: This book does not include head instructions. It should be used in conjunction with "Instructions and Parts List for No. 15001D, 18001D, 18001D27 and 19001D Bostitch Wire Stitcher Heads."

1. INTRODUCTION

To obtain satisfactory results from a wire stitcher, as with any other machine, it is necessary that it be properly installed and adjusted, regularly lubricated, and carefully maintained.

In case of any serious trouble, however, you should notify the nearest sales office, sending samples of the defective work and describing the trouble in detail, so as to obtain the benefit of their experience in arriving at the proper solution. Be sure to report the serial number and model of the machine when corresponding in regard to it, so that it may be quickly identified.

2. INSTALLATION

To prevent damaging the machine during its installation, we recommend that the following procedure be closely followed:

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: 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.

c: Since each machine is shipped with some parts disassembled, it is necessary that these parts be reassembled onto the machine.

Attach spool stud and disc, wire guide spring, adjusting screw crank arm, motor bracket, motor, V belts, belt shield and belt guard.

The mounting of motor onto the base is a simple matter which needs no explanation. When assembling belts, make sure that they are only tight

enough to run machine without slippage. Belt tension may be adjusted by moving motor bracket up or down.

d: Place machine on level floor, using shims under base to prevent any movement or rocking.

e: Lubricate machine thoroughly as described in head instructions and as follows: Apply generous supply of oil (S.A.E. 10) to pulley washer as this lubricates clutch. Oil drive shaft through oil cups (2) at top of frame and oil universal joints in drive shaft through large holes (2) in left side of frame.

f: 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.

g: Connect motor cord to power outlet and start motor. See that large pulley or flywheel turns in direction of arrow cast on pulley, or clockwise as viewed from the front of the machine. Should it rotate counter-clockwise, motor wiring should be re-connected by electrician in order to reverse direction of rotation.

h: 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.

The following units are not standard equipment on No. 14 Stitcher and are furnished special to order only. Instructions follow for installing same.

Continuous Feed Device or Tucker Unit:—This is attached by placing groove in same over swivel holder clamp on bonnet and holding same with one screw provided.

Table:—Remove clincher bar. Attach yoke to table, being sure that thin shim is attached with yoke to table. Place table on arm, enter lugs on table in holes in frame, and push in until dowel in arm enters hole in shim. Work guide can now be attached. Clamp from either end.

Parallel Head Attachment:—This is attached in the following manner: Remove head from machine as explained in head instructions. Place one extension block on each of the slides, (adjusting driver and bender) over tongues with screws provided, long end of block to left with oil hole on top. These blocks should be tight. Place long bonnet screws in frame. These are special screws. Attach the extension head block on these screws and turn crank into vertical position. Attach links to two lower extension blocks. Attach head, facing the right, and raise bender bar to top of stroke. Insert crank pin into hole in lower link. Insert ball end of adjusting link into upper block. Move adjustment screw up or down until hole matches ball end. Enter bonnet screws in head and tighten. Attach bonnet guard—A special offset arm is necessary with this attachment.

3. OPERATION

a: Place a spool of wire of the proper size on the spool holder located near the stitching mechanism or head.

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 described in head instructions.

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

Gauge for thickness by placing work under gauge at left of head and adjust crank at right of head until work is tightly pinched under gauge. After turning pulley by hand once so as to be sure that machine is properly set for thickness to be stitched, power can be applied.

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: **CAUTION:** — *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 illustrations in head instruction manual. To 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 instructions book, which shows the type of stitch defect and, if possible, send a sample of the work actually being done on the machine.

5. *THE ESSENTIAL POINTS OF STITCHING

In order 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: Clincher must be in good condition with no pitted or badly worn grooves. For best results in stitching with solid clinchers the compression generally should be such that the ends of bender bar very slightly indent the top of the work.

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 grip must not have edge badly chipped or 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

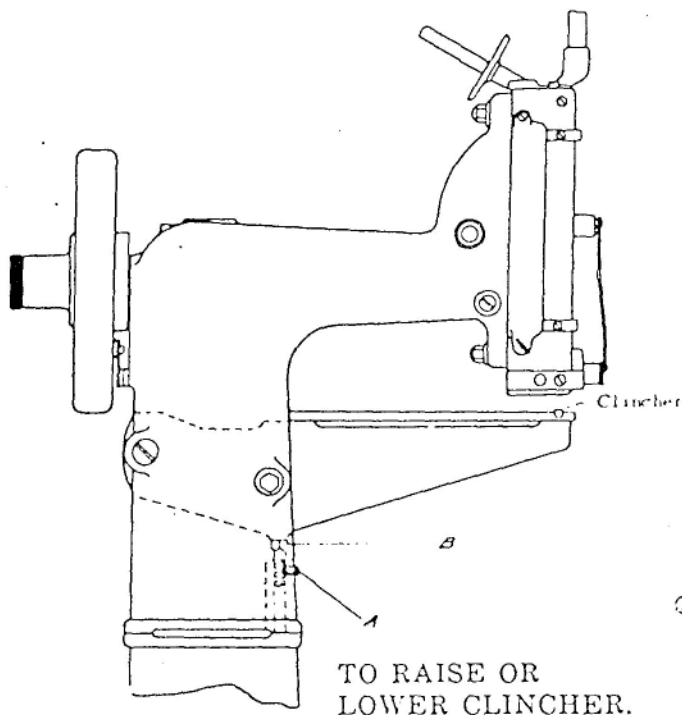
a: Machine should be lubricated regularly as described under heading of "Installation" in this pamphlet and under heading of "Maintenance" in head instructions.

b: The friction clutch is adjusted by means of screw 2340B in brake band 2339A. Screw in if clutch slips. Screw out if clutch knocks. A quarter

turn will make considerable difference in action of the clutch.

c: The adjustment for the clincher is set at the factory and should not be altered unless adjustment has been lost.

For machines with arm, readjustment from side to side may be made by adjusting hex head screws (UA9132.1) at side of frame. See following illustration for vertical adjustment of clincher arm.



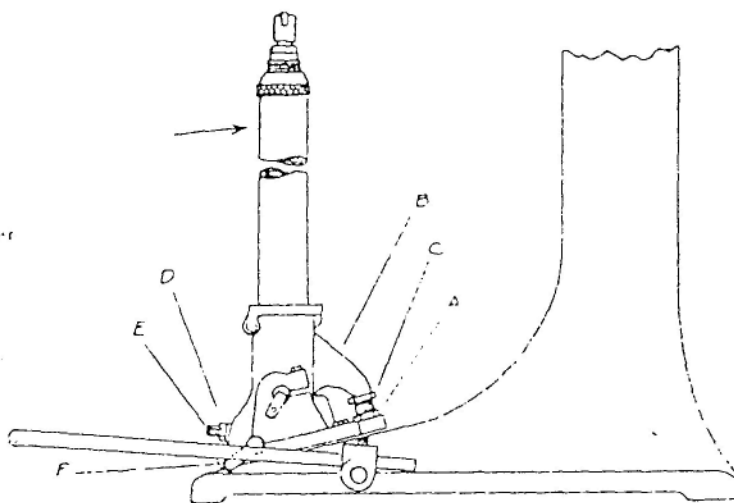
1. Loosen screw A.
2. Turn screw B.
3. Lock screw A.

For machine with post, adjustments can be made as follows:

To set post correctly forward or back, loosen nut (A) and push post by hand in direction shown

until post lug (B) touches screw (C). Keeping post in contact with screw, turn screw (C) until clincher in post is central with wire. Lock screw (C) by means of nut (A).

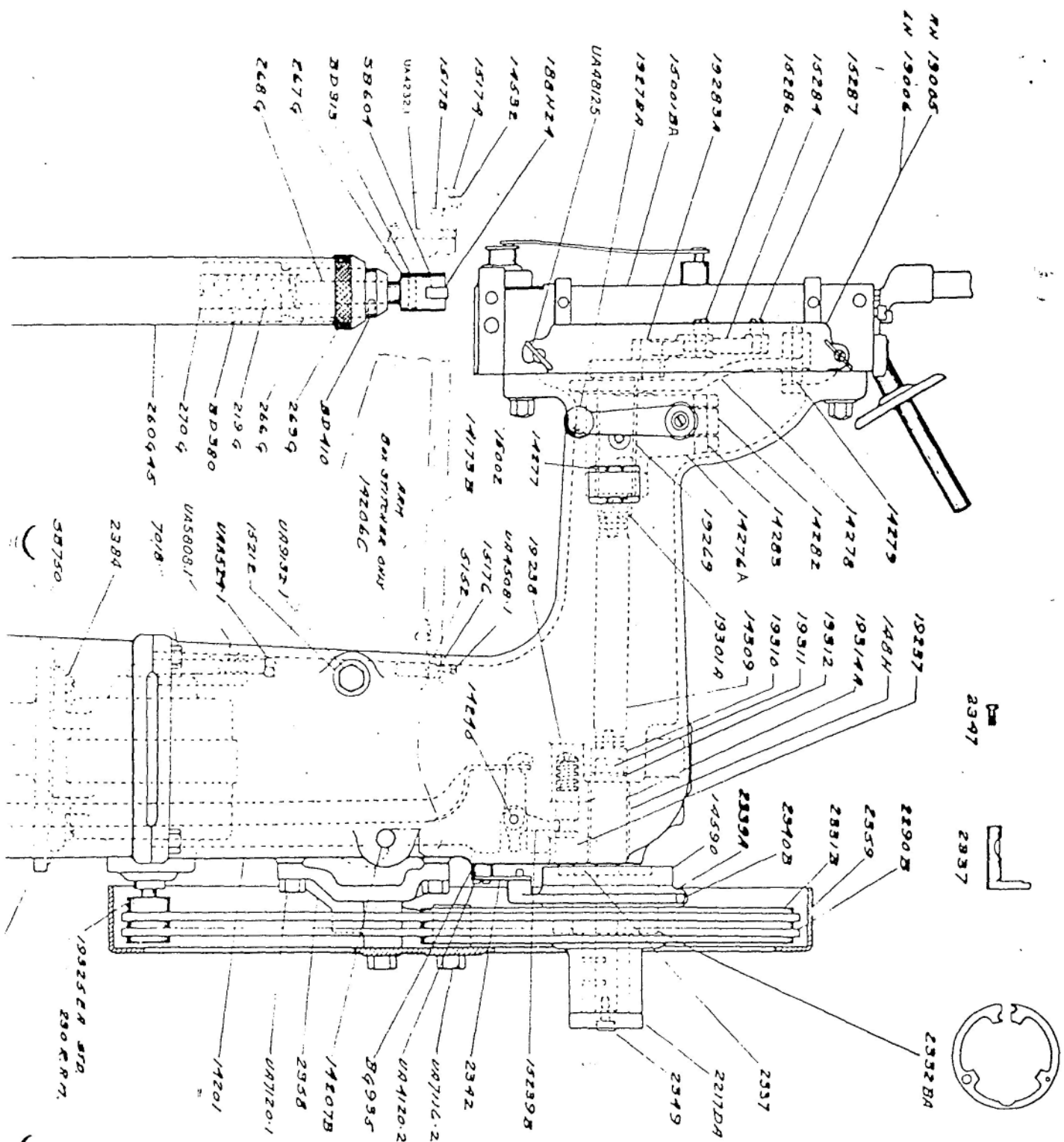
Loosen nut (D) and turn screw (E) with foot pedal depressed until post is rigid. Then tighten nut (D). Setting the post in this manner will allow post to be rigid while stitching and will prevent breakage of post parts due to wrong setting, which may impose abnormal strain on the mechanism. When the right setting has been made and post locking lever (F) has locked post in vertical position, it will be noted that there is a slight motion at the top of the post. However, when the foot pedal is depressed and just before the clutch is actually tripped, the post will be rigid.

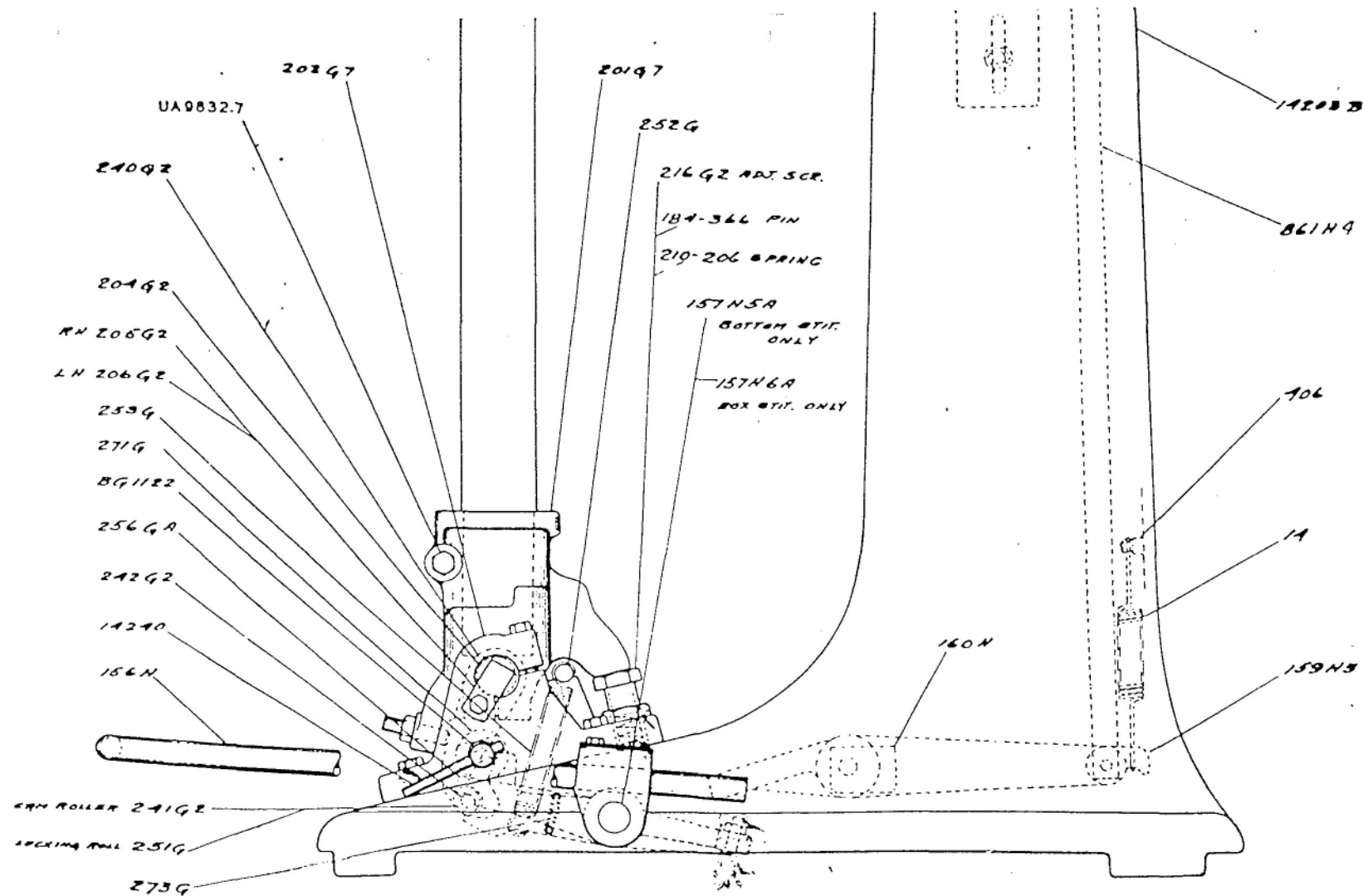


To adjust clincher from side to side, loosen screws on each side of casting, which clamp pivot pin cups and adjust cups in and out as required by means of screws through lugs welded to cups.

Clincher may be raised or lowered by means of knurled hand adjusting sleeve at top of post column.

d: See head instructions for information on removing and attaching head.





NO.14 BOX STITCHER
NO.14B BOTTOMING STITCHER

FRONT TILTING POST

INSTRUCTIONS FOR OPERATING BOSTON WIRE STITCHER HEADS

No. 15 & No. 15D

Sizes of Wire - Ribbon or box stay wire No. 8 to No. 23 - Hybar wire - No. 18 & 19 round wire - No. 20 to 25 round and No. 20 x 24 & 21 x 25 flat.

Width of staple 1/2 regular - 3/8 - 5/8 - 3/4 special.

Capacity in thickness 1/2 inch.

* No. 15D Head.

TO THREAD run wire from under side of spool to left around spring 15151A and under studs and rolls on same. Remove swivel 15066A by lifting lower end of spring 15084A *19084A and swinging to left. Curve wire and enter between straightener rolls 19121 and eccentric 19128A. Pull wire down until crooked wire has passed through rolls. Cut wire off with hard wire cutter just above cutter holder 15105B. Enter wire in grip 15031 and in tension rolls 19121 which are opened by pressing down rod 19145A *19147A. Enter wire in slot in wire cutter 15101 and push down until wire shows through hole in swivel holder 15072.

TO STRAIGHTEN WIRE adjust eccentric 19128A until wire runs straight. Start machine and watch wire feed past opening in swivel holder. Wire should come directly in center of opening. If wire curls to left, straightener is not set tight enough. If wire curls to right, straightener is set too tight. When wire runs straight, replace swivel and attach spring to same.

OIL. Oil connecting links on back of head. Oil swivel operating lever 15078 *19078A. Oil slots at top of head at sides of bracket 15154. Oil driver bar at top of bender bar 15023A. Put drop of oil in angular slot in cutter slide 15115A *15113A where it can be seen through large opening in face plate 15091A *15135A. Put drop of oil on swivel where it slides in swivel holder 15072.

TO ADJUST LENGTH OF WIRE. To change length of both legs of staple, loosen screw 15088 and push face plate 15091A *15135A up to lengthen or down to shorten legs of staple. Tighten screw 15088 after adjusting. To increase left leg of staple, loosen screws 15155 and 56 near the top of head and turn adjusting screw 15156 to right. To shorten left leg, turn to left. Press down firmly on bracket 15154. Tighten screws 56 and 15155. Most adjustments for longer wire can be made by setting machine for thicker work.

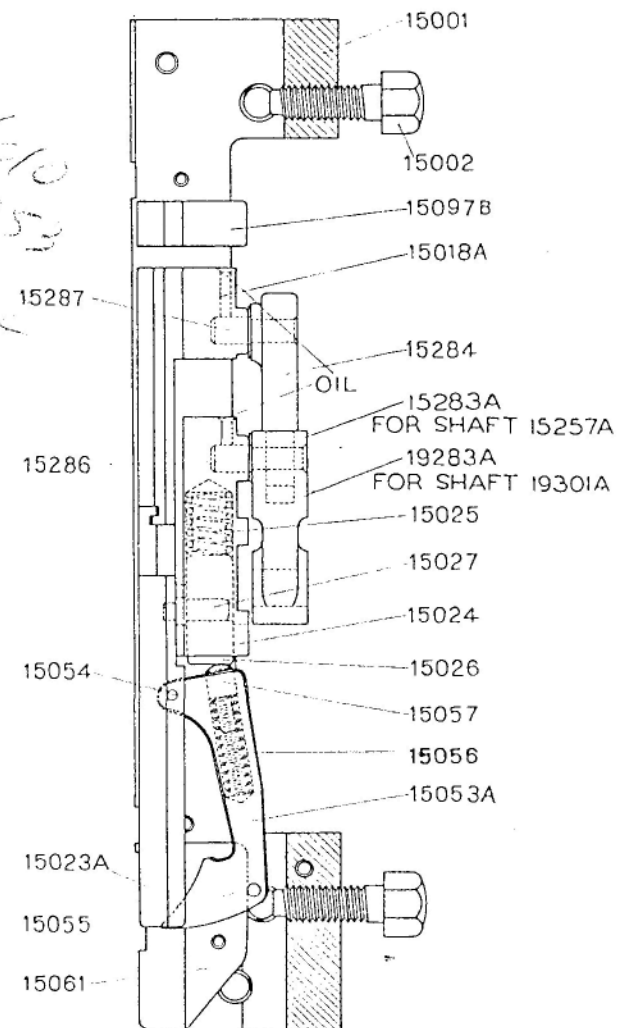
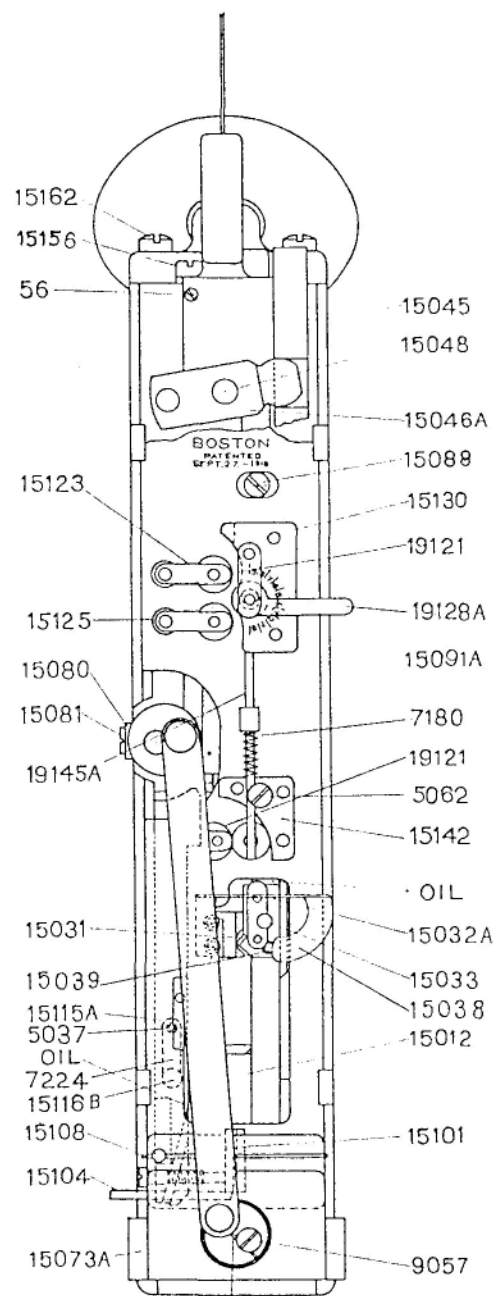
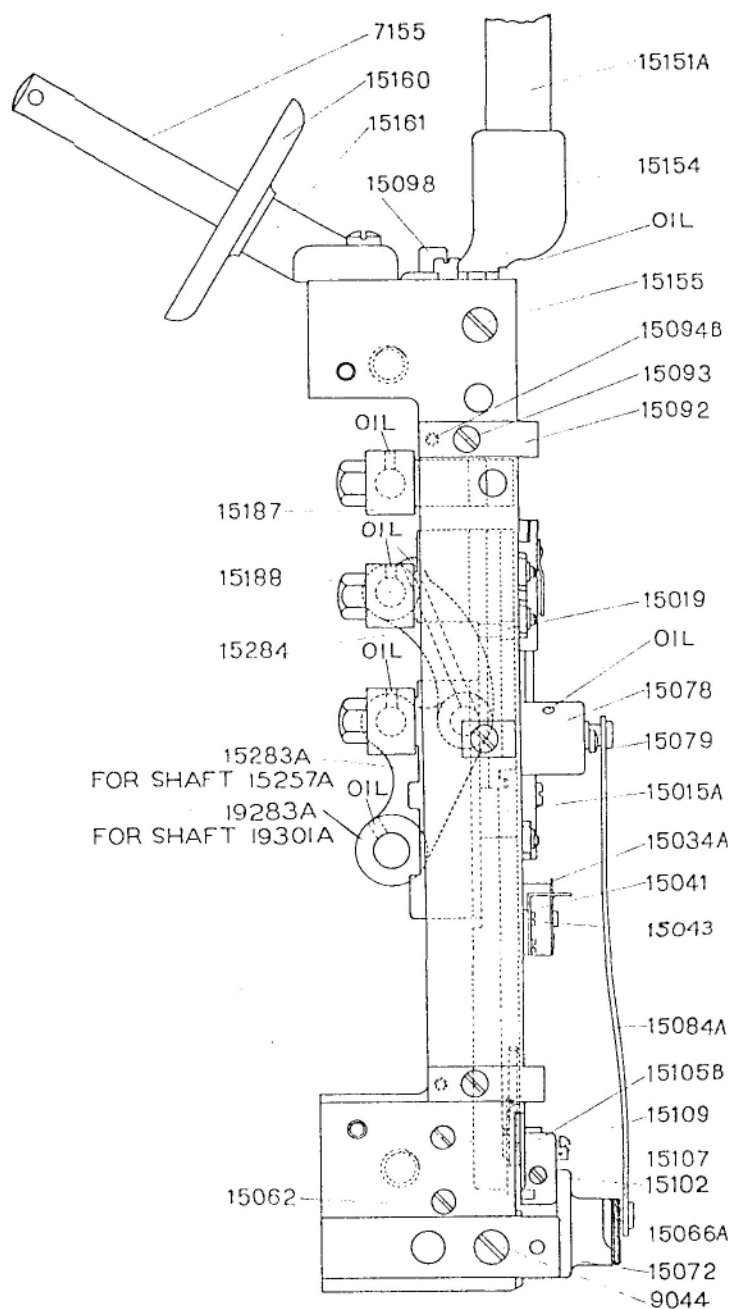
WIRE CUTTERS. To remove cutter 15104, first set machine at minimum adjustment, then pull out slightly on spring 15108 and push the little pin in cutter slide 15115A *15113A to top of opening in face plate. Cutter will then slide out easily. This cutter is double ended. To replace engage tongue on cutter in slot in slide and push slide down to lower end of stroke. When replacing cutter, trip machine and turn pulley by hand to bring the driver below cutter. To remove stationary cutter 15101, loosen screw 15102 at left of cutter holder.

WS

COMPONENT PARTS
OF THE
Nº 15 & Nº 15D
BOSTON WIRE STITCHER
HEADS

TRADE MARK
BOSTITCH
REG. U. S. PAT. OFF.

BOSTON WIRE STITCHER COMPANY
EAST GREENWICH, R. I.

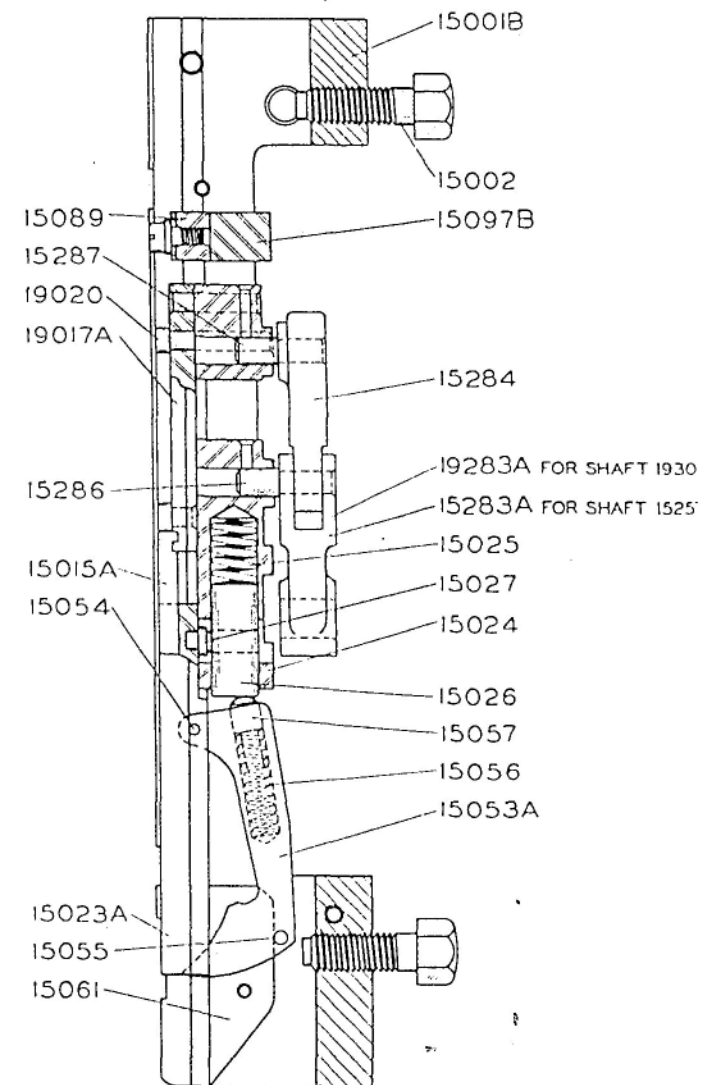
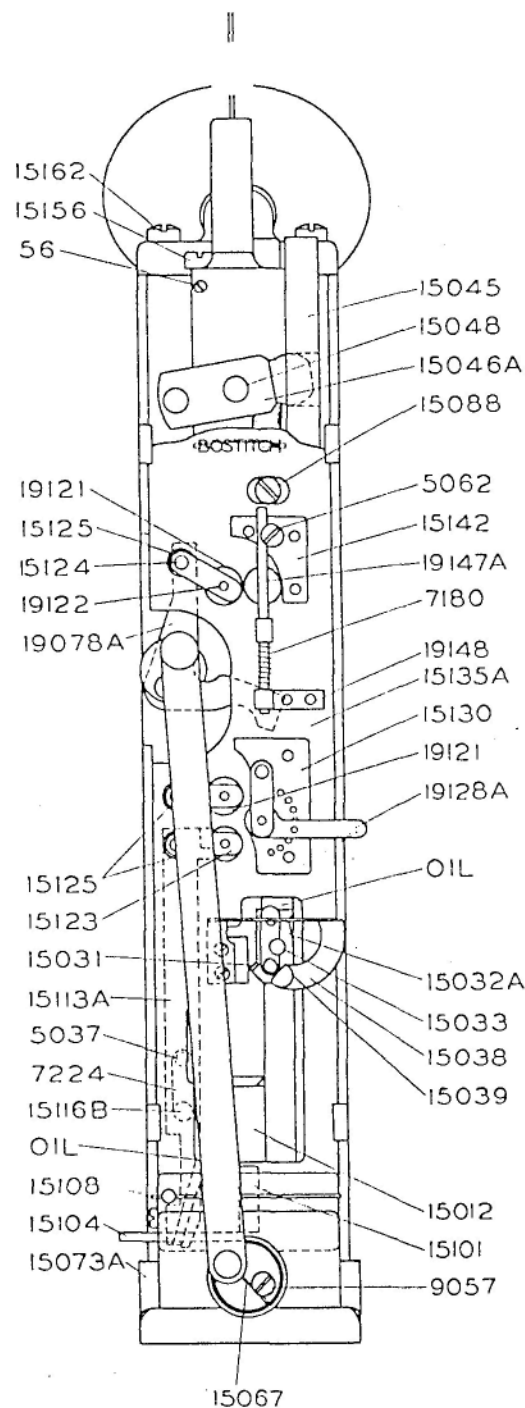
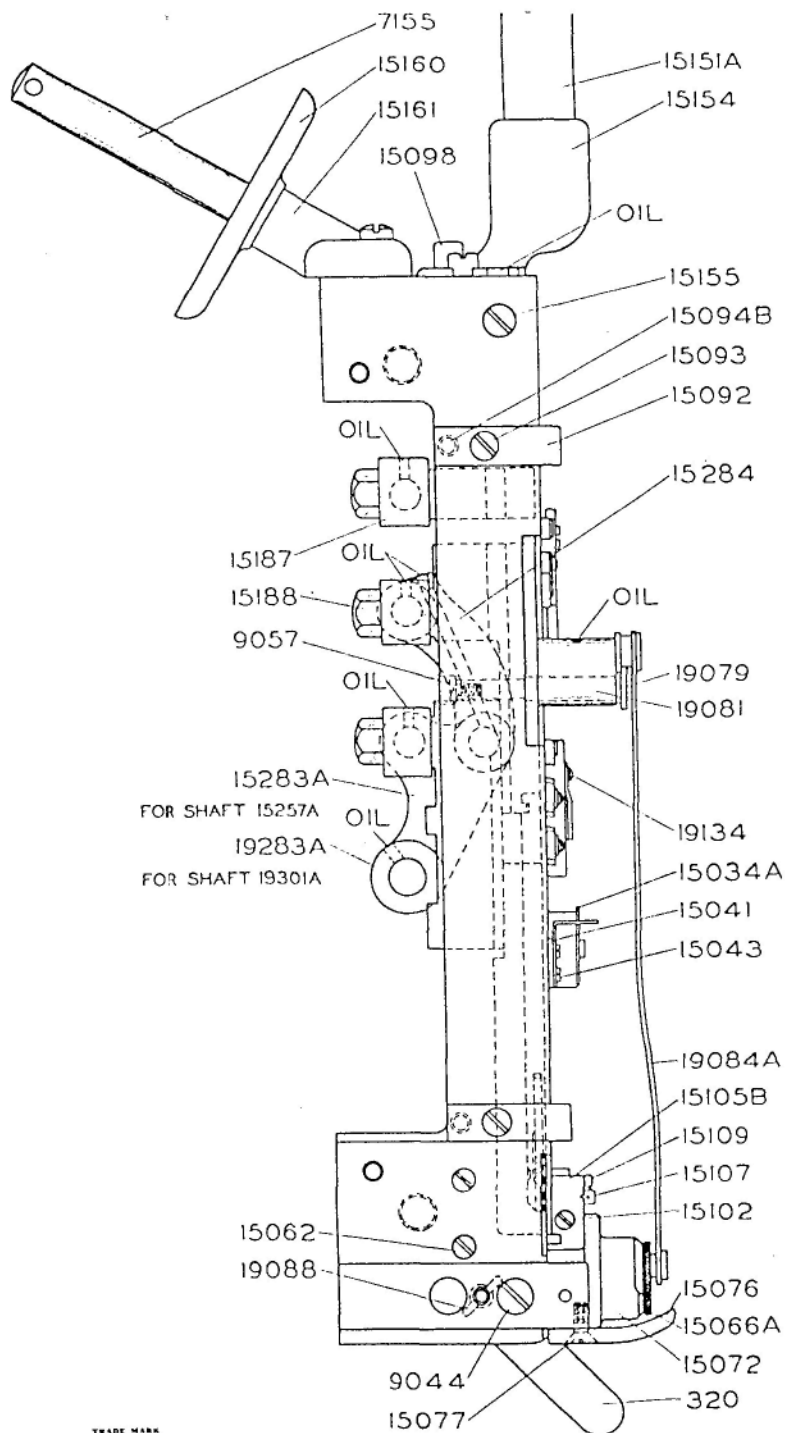


TRADE MARK
BOSTITCH
MADE IN U.S.A.

LINKS IN PARALLEL POSITION.

BOSTON WIRE STITCHER CO.
COMPONENT PARTS OF
15 HEAD

LINKS IN RIGHT ANGLE POSITION.



TRADE MARK
BOSTITCH
BOS. W. W. PAT. OFF.

LINKS IN PARALLEL POSITION

BOSTON WIRE STITCHER CO.

COMPONENT PARTS OF

15 D-HEAD

LINKS IN RIGHT ANGLE POSITION

PARTS FOR NO. 15 HEAD ONLY

SEE NO. 15 HEAD CHART

15001	Bonnet	45.00
15018A	Driving Slide	9.25
15019	Driving Slide Swivel Oper. Pin	.15
15078	Swivel Operating Lever	2.75
15079	Swivel Operating Lever Stud	.60
15080	Swivel Operating Lever Stop	.55
15081	Swivel Operating Lever Stop Screw	.15
15084A	Swivel Operating Spring	2.50
15091A	Face Plate - Ribbon and Hybar Wire	19.55
15115A	Wire Cutter Operating Slide	3.35
19091A	Face Plate - Round Wire	19.55
19145A	Tension Roll Spring Rod	.75

PARTS FOR NO. 15D HEAD ONLY

SEE NO. 15D CHART

15001B	Bonnet	45.00
15113A	Wire Cutter Operating Slide	
15135A	Face Plate - Ribbon and Hybar Wire	
19017A	Driving Slide	
19020	Driving Slide Swivel Oper. Pin	
19078A	Swivel Operating Lever	
19079	Swivel Operating Lever Stud	
19081	Swivel Operating Lever Hub	
19084A	Swivel Operating Spring	
19135A	Face Plate - Round Wire	
19147A	Tension Roll Spring Rod	
19148	Tension Roll Spring Rod Guide	

PARTS FOR BOSTON WIRE STITCHER HEADS NO. 15 AND NO. 15D

56	Adjusting Screw Binder	.05	15088	Face Plate Adj. Screw	.25
320	Finger Guard	.35	15089	Face Plate Adj. Screw Nut	.25
5037	Driver Retaining Spring Rivet	.05	15092	Face Plate Clip	.80
5062	Tension Roll Spring Rod Retainer	.25	15093	Face Plate Clip Screw	.20
5160	Driver Release Pin	.10	15094B	Face Plate Clip Spring	.05
7155	Spool Stud	.35	15097B	Face Plate Adj. Slide	4.80
7180	Tension Roll Spring	.10	15098	Face Plate Adj. Slide Pin	.25
7224	Wire Cutter Slide Friction Spring	.05	15100	Stationary Wire Cutter - Round Wire	1.00
7232	Swivel Hook	.20	15101	Stationary Wire Cutter - Ribbon Wire	.75
7233	Swivel Hook Pivot Pin	.05	15102	Stationary Wire Cutter Screw	.20
7234	Swivel Hook Spring	.05	15104	Sliding Wire Cutter	.70
9010	Driver Retaining Spring	.05	15105B	Wire Cutter Holder	4.50
9044	Swivel Holder Clamp Screw	.05	15107	Wire Cutter Lock Pin	.25
9057	Swivel Oper. Lever Stud Screw	.05	15108	Wire Cutter Lock Pin Spring	.10
15002	Bonnet Screw	.40	15109	Wire Cutter Lock Pin Spring Screw	.30
15011	Driver - round wire	2.00	15116B	Wire Cutter Slide Friction	.15
15012	Driver - ribbon wire	2.00	15123	Wire Straightener Roll Clip	.10
15012H	Driver - Hybar wire	5.00	15124	Wire Straightener Roll Clip Rivet	.10
15015A	Driver Bar	2.25	15125	Wire Straightener Roll Clip Spacer	.15
15022A	Bender Bar - round wire	10.00	15130	Wire Straightener Eccentric Block - Ribbon Wire	2.00
15023A	Bender Bar - ribbon wire	10.00	15142	Tension Roll Block - Ribbon Wire	1.50
15023HA	Bender Bar - Hybar wire	12.00	15150A	Wire Guide Spring - Round Wire	1.50
15024	Bender Slide	4.20	15151A	Wire Guide Spring - Ribbon Wire	1.50
15025	Bender Slide Spring	.30	15154	Wire Guide Spring Bracket	3.50
15026	Bender Slide Spring Plunger	.80	15155	Wire Guide Spring Bracket Screw	.45
15027	Bender Slide Connection Pin	.40	15156	Wire Guide Spring Bracket Adj. Screw	.10
15031	Grip - Ribbon Wire	.35	15160	Spool Stud Friction Disc	.75
15032A	Grip Holder	2.40	15161	Spool Stud Bracket	1.25
15033	Grip Holder Stud	.30	15162	Spool Stud Bracket Screw	.30
15034A	Grip Retaining Spring	.15	15187	Parallel Slide Extension	4.00
15038	Grip Spring	.25	15188	Parallel Slide Extension Screw	.25
15039	Grip Spring Pin	.30	15283A	Bender Link	8.50
15041	Grip Block - Ribbon Wire	.90	15284	Driver Link	3.50
15042	Grip Block - Round Wire	.90	15286	Bender Link Connection Pin	.20
15043	Grip Block Screw	.05	15287	Driver Link Connection Pin	.20
15045	Grip Release Slide	1.25	19011	Driver - 20 x 24 Wire	2.00
15046A	Grip Release Lever	1.65	19022A	Bender Bar - 20 x 24 Wire	10.00
15048	Grip Release Lever Pivot	.20	19065A	Swivel - Round Wire	9.00
15053A	Supporter	5.25	19088	Finger Guard Screw	.10
15054	Supporter Pivot Pin	.15	19121	Wire Straightener Roll	.25
15055	Supporter Guide Pin	.15	19122	Wire Straightener Roll Stud	.10
15056	Supporter Spring	.15	19128A	Wire Straightener Eccentric	.75
15057	Supporter Spring Plunger	.20	19130	Wire Straightener Eccentric Block - Round Wire	3.00
15061	Supporter Guide Plate	1.05	19133	Wire Straightener Eccentric Clip Rivet	.10
15062	Supporter Guide Plate Screw	.05	19134	Wire Straightener Eccentric Clip Spacer	.15
15066A	Swivel - Ribbon Wire	9.00	19142	Tension Roll Block	2.00
15067	Swivel Wire Retainer	.30	19283A	Bender Link	7.00
15070A	Swivel - Hybar Wire	12.00			
15072	Swivel Holder	7.50			
15073A	Swivel Holder Clamp	1.05			
15076	Swivel Holder Guard	2.25			
15077	Swivel Holder Guard Screw	.15			