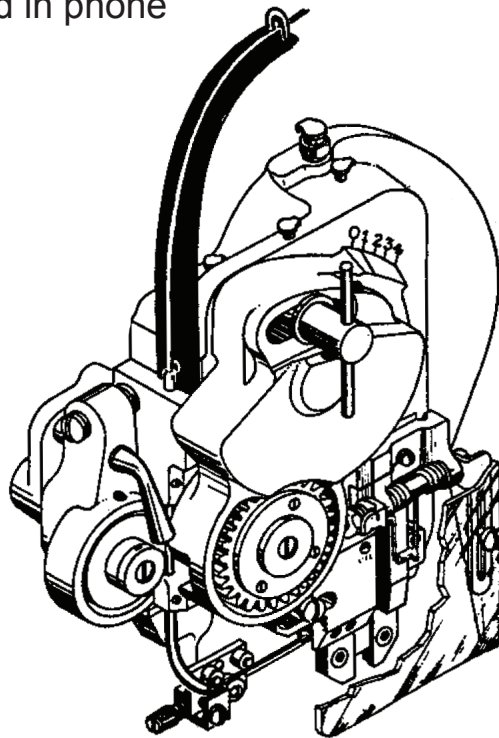


INSTRUCTIONS AND PARTS LIST FOR THE BOSTITCH BLISS WIRE STITCHER HEAD

When in need of Parts or Service
Contact Your Bostitch Distributor.

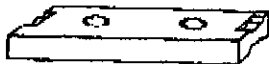
You will find "BOSTITCH" listed in phone
books of most large cities



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

CLINCHERS

PLAIN CLINCHERS



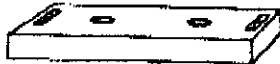
OPEN END CLINCHING SURFACE

(With 2 Drilled Holes)

830H6 - 45° Angle of Contact (Standard)
830H17 - 37½° Angle of Contact

(With 2 Tapped Holes)

830H13 - 45° Angle of Contact



GROOVED CLINCHING SURFACE

830H11 - 45° Angle of Contact

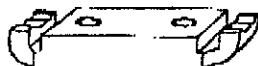


OPEN END CLINCHING SURFACE

(With 1 Tapped Hole)

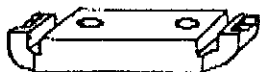
830H19 - 45° Angle of Contact

GARNISH MOULDING CLINCHERS



CLINCHING SURFACE MILLED THRU LIP

830H 45° Angle of Contact



OPEN END CLINCHING SURFACE

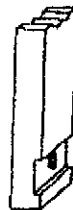
830H8 - 45° Angle of Contact

RAISED CLINCHERS



CLINCHING SURFACE MILLED THRU

830H15 - 45° Angle of Contact Raised ½"
830H21 45° Angle of Contact Raised 1"



SINGLE CLINCHING SURFACE MILLED THRU

830H20 - 45° Angle of Contact Raised 2"

POST CLINCHERS



280G - 45° Angle of Contact (Standard)
280G2 - 37½° Angle of Contact



GROOVED CLINCHING SURFACE

830H39 - 45° Angle of Contact Raised ¼"



PASS-BY CLINCHING SURFACE

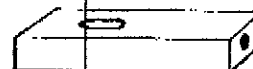
830H47 - Raised ¾"



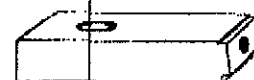
OPEN END CLINCHING SURFACE

830H24 - 45° Angle of Contact (Raised 3")
830H37 - 37½° Angle of Contact (Raised 3")

CLINCHER ADAPTERS

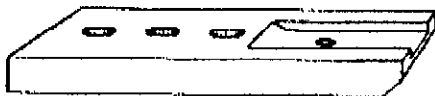


832H - For Use With ½", ¾" and 1" Raised Clinchers

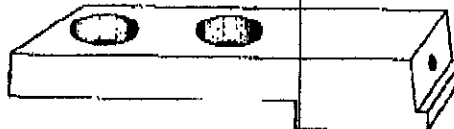


832H2 - For Use With 2" Raised Clincher

CLINCHER HOLDERS



831H2 - With Tapped Clincher Hole (Standard)
831H11 - With Drilled Clincher Hole



831H7 - For Use With 3" Raised Clincher 830H24
831H8 - For Use With 3" Raised Clincher 830H24

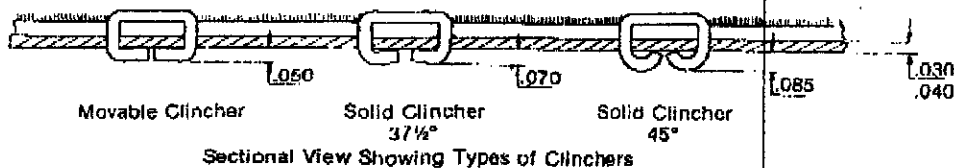


TABLE OF CONTENTS

	PAGE
PART I—OPERATING AND MAINTENANCE INSTRUCTIONS	
Description	4
Table of Wire Sizes and Obtainable Crown Sizes	4
Operating Adjustments	5
How To Thread Wire On Head	5
How To Straighten Wire On Head	5
How To Determine Correct Wire Draw And Make Necessary Adjustments	6
How To Adjust Length Of Staple Left Leg	10
How To Set Movable Cutter	10
How To Align Gripper Bar And Formers	11
How To Adjust Tension Of Wire Feed Gears	11
How To Adjust Wire Feed Brake Tension	11
How To Adjust Wire Guide	11
Maintenance	12
Lubrication	12
Inspection And Replacement Of Worn Parts	13
Wire Feed Gears	13
Wire Feed Tubes	13
Stationary Cutter	13
Movable Cutter	14
Gripper	14
Formers And Driver	15
Supporter	16
Wire Feed Clutch	16
Trouble Shooting	16
Trouble Shooting Chart	17
PART II—PARTS CATALOG	
How To Disassemble And Reassemble Stitcher Head	20
How To Remove Wire Feed, Wire Cutting, And Gripper Assemblies	20
How To Remove Wire Forming And Driving Assemblies	21
How To Reinstall Wire Forming And Driving Assemblies	21
How To Reinstall Wire Feed, Wire Cutting, And Gripper Assemblies	22
Component Parts	23
How To Identify And Order A Part	23
Parts List	26
Parts Numerical Index	36

FOREWORD

This instruction book and parts catalog is provided for operators of single stitch wire stitching machines equipped with the following models of BOSTITCH Bliss Wire Stitcher Heads:

<i>Model Symbol</i>	<i>Description of Model</i>
BHS	Short Wire Draw — $\frac{1}{2}$ " to $1\frac{1}{2}$ "
BH	Standard Wire Draw — $\frac{7}{8}$ " to $1\frac{1}{2}$ "
BHL	Long Wire Draw — $1\frac{5}{16}$ " to $2\frac{3}{8}$ "
BHX	Extra Long Wire Draw — $1\frac{5}{8}$ " to $3\frac{1}{2}$ "
BHN	Narrow Crown — Short Wire Draw
BHO	Openhead — Standard Wire Draw
BHOL	Openhead — Long Wire Draw
BHM	S13E Metal Stitcher — Standard Wire Draw
BHMB	S13E Metal Stitcher with Bracket Type Clincher — Standard Wire Draw
BHC	Caddy Stitcher — Standard Wire Draw
BH485	Head for #485 Stitcher — Standard Wire Draw
BHL485	Head for #485 Stitcher — Long Wire Draw

In preparing this manual, the aim has been to give the essential details covering the operation and maintenance of the Stitcher Head, and to provide a complete breakdown of component parts of the head for the purpose of ordering repair parts.

Part I includes Description, Operating Adjustments, Maintenance Instructions, and Trouble Shooting. Part II includes illustrated parts lists with other pertinent information for ordering repair parts.

The first section of Part I gives a general description of the BOSTITCH Bliss Stitcher Heads, and includes a table listing the full range of wire types and sizes handled by the heads.

The second section, Operating Adjustments, gives detailed instructions, with accompanying illustrations, for making the various required adjustments for the proper operation of the heads. These instructions include simple formulas for calculating the wire draw (length of wire to be fed) for any thickness of work within the stitching capacity of the heads.

The third section of Part I, Maintenance, gives detailed instructions, with accompanying illustrations, covering procedures for properly maintaining the head. A Trouble Shooting Chart, which illustrates perfect and imperfect stitches, and lists the causes of imperfect stitching with instructions for remedying the imperfections, is also included in this section.

In order to expedite the ordering of repair parts, fully illustrated parts lists covering component parts of the above listed models of BOSTITCH Bliss Stitcher Heads are provided in Part II of this book. Instructions on how to order a part, as well as complete instructions for disassembling and reassembling the head, are included in this section. In addition, a Numerical Index (all parts numbers listed in numerical order and cross referenced to the Parts List and illustrations) is provided at the back of the book.

PART I—OPERATING AND MAINTENANCE INSTRUCTIONS

DESCRIPTION

The stitching heads supplied with the many models of BOSTITCH Bliss Heavy Duty Wire Stitchers are basically identical heads. Variations occur in some of the component parts due to the basic head being adapted to short, standard, long, and extra long wire draw operation. In addition, other variations occur in some of the parts due to the head being adapted to a particular model of Stitcher, such as the S13E Metal Stitcher and the RSCA #485 machine.

The BOSTITCH Bliss Heads are designed to accommodate a wide range of wire types and sizes, and staple crown sizes. Figure 1 lists the complete range of wire sizes, with obtainable crown sizes, handled by the full range of models of single stitch BOSTITCH Bliss Stitcher Heads. When work to be stitched requires a wire type or size, and/or size of staple crown, not within the capacity of the particular model of Stitcher Head to be used, it is possible to change-over the

head to meet the required specifications. If it is desired to change-over a particular model of Stitcher Head, consult your BOSTITCH distributor, or BOSTITCH factory, for list of necessary parts and/or cost to make the desired change.

Each of the many models of BOSTITCH Bliss Wire Stitchers is so designed that the head can be easily removed, and another head, of different wire draw capacity, substituted for it, thereby increasing the work thickness range of the machine.

All heads, excepting Model BH485, (RSCA #485 Stitcher Head), are equipped with a wire straightener device and adjustable finger guard.

Operating adjustments are similar on all heads, and are easily accomplished. Oil cups, ball oilers, and oil holes are provided on all of the BOSTITCH Bliss Heads for easy lubrication of hidden moving parts. All parts are easily removed for service or replacement.

TYPE OF WIRE	WIRE SIZE	OBTAINABLE CROWN SIZE
Ribbon	.103 x .028	$\frac{3}{8}$
	.103 x .023	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{5}{8}$, $\frac{3}{4}$
	.103 x .020	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{5}{8}$, $\frac{3}{4}$, $1\frac{3}{8}$
	.103 x .017	$\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $1\frac{1}{4}$, $1\frac{3}{8}$
	.103 x .014	.290, $\frac{7}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $1\frac{1}{4}$
Hybar	#3 (.060 x .028)	$\frac{3}{8}$, $\frac{7}{8}$
	#2 (.060 x .024)	.190, $\frac{1}{4}$, .290, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{2}$, $1\frac{1}{8}$
	#1 (.060 x .020)	.190, $\frac{1}{4}$, .290, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{2}$, $1\frac{1}{8}$
	#000 (.060 x .017)	$\frac{1}{4}$, .290, $\frac{3}{8}$, $\frac{7}{8}$
Flat Bookbinder's	18 x 20 (.0475 x .035)	.290, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{2}$, $\frac{3}{4}$
	19 x 21 $\frac{1}{2}$ (.041 x .030)	$\frac{7}{8}$
	20 x 23 (.035 x .025)	.290, $\frac{3}{8}$, $\frac{7}{8}$
	20 x 24 (.035 x .023)	.290, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{2}$, $\frac{3}{4}$
	20 x 25 (.035 x .0204)	.175, $\frac{1}{4}$, .290, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{2}$, $\frac{3}{4}$
22 x 26 (.028 x .018)	$\frac{3}{8}$	
Round Bookbinder's	#16 (.063)	$\frac{1}{4}$, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{3}{4}$
	#18 (.0475)	$\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{2}$, $\frac{5}{8}$
	#19 (.041)	$\frac{3}{8}$, $\frac{7}{8}$
	#20 (.035)	.175, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{7}{8}$
	#23 (.026)	$\frac{7}{8}$, $\frac{3}{4}$
#25 (.0204)	.175, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{2}$, $\frac{3}{4}$	
Flat Bookbinder's— Shopping Bag Handles	20 x 24 (.035 x .023)	$\frac{3}{8}$
Flat Bookbinder's— Glove Stitch	19 x 21 $\frac{1}{2}$ (.041 x .030)	$\frac{1}{4}$
	.078 x .028	$\frac{1}{4}$
	.078 x .022	$\frac{1}{4}$
	.077 x .023	$\frac{1}{4}$
	.073 x .024	$\frac{1}{4}$
Flat—Stockinette Stitch	18 x 20 (.0475 x .035)	.175, $\frac{3}{8}$
	20 x 25 (.035 x .0204)	.175
Hybar—Stockinette Stitch	#1 (.060 x .020)	$\frac{3}{8}$
Round—Metal Stitch	.051	$\frac{3}{8}$
	#18 (.0475)	$\frac{3}{8}$
Flat—Box Stay	.088 x .037	$1\frac{1}{4}$

Figure 1—Wire Size Table

OPERATING ADJUSTMENTS

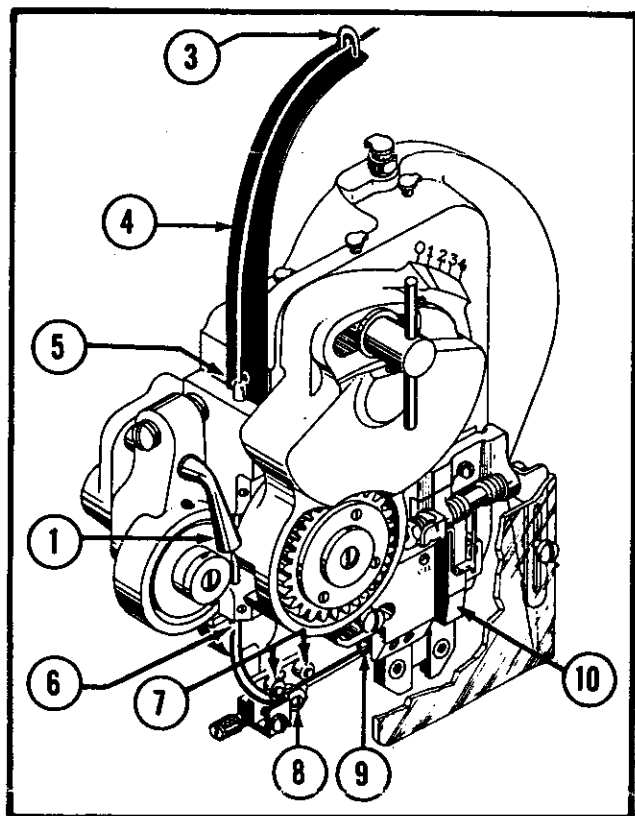


Figure 2—Threading Wire on Head

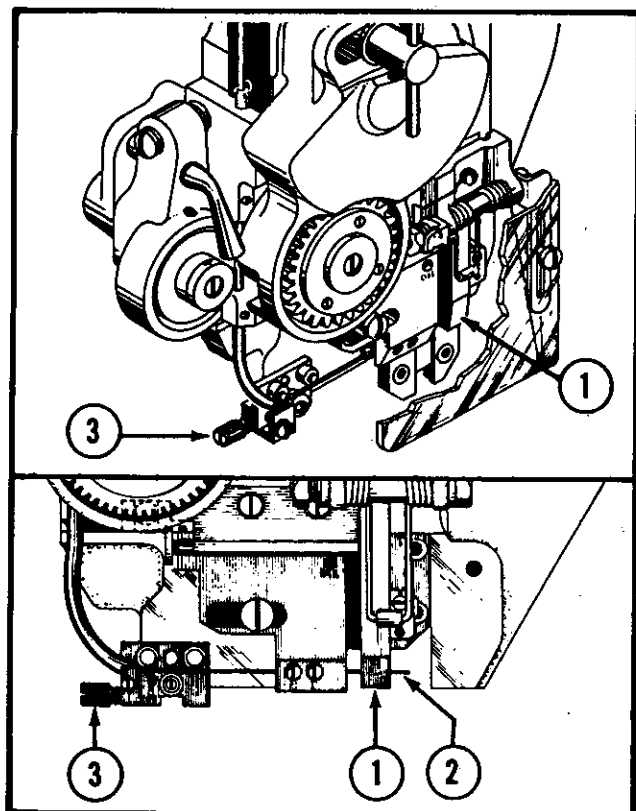


Figure 3—Straightening Wire on Head

The quality and quantity of work that can be produced by a BOSTITCH Bliss Stitcher Head is dependent upon the operator making the various operating adjustments as accurately as possible. The following illustrated instructions are provided so that the operator will clearly understand how to make the various required operating adjustments.

1. HOW TO THREAD WIRE ON HEAD

(See Fig. 2)

a. Raise oiler retainer (not shown) on spring wire guide and disengage wire feed gears by raising (to the left) the gear throwout handle (1) to its open position.

b. Draw wire from wire spool, and, if end of wire is twisted or bent, cut off twisted or bent portion.

c. Straighten out end of wire (about 6") by drawing wire through fingers. The end portion of wire to be threaded into the head must be as straight as possible.

d. Thread the wire through the spring wire guide loop (3), down over the spring wire guide (4), through oiler felt in retainer and then insert end of wire into the upper wire tube (5).

e. Push the wire down through the upper wire tube, past the wire feed gears, and into and through the lower wire tube (6) until the wire appears at the bottom opening of the lower wire tube.

f. Thread the wire between the upper wire straightener rolls (7) and lower adjustable roll (8); then enter and push end of wire into the stationary cutter (9) in cutter block.

NOTE

The head supplied on the #485 Bostitch Stitcher (Model BH485) is not equipped with the wire straightener device. When threading this head, the wire must be drawn from the lower wire tube and inserted directly into the stationary cutter.

g. Lower oiler retainer to position above end of upper wire tube. Reengage wire feed gears by lowering the gear throwout handle (1) to its locked position. Place a piece of work to be stitched into the machine; then turn over machine by hand, and observe that the wire is feeding freely and is being fed into the gripper (10) in a straight line. (Refer to para. 2, immediately following).

2. HOW TO STRAIGHTEN WIRE ON HEAD

(See Fig. 3)

In order to insure perfect stitching it is essential that the wire enters the gripper in as close to a straight line as possible. To check this condition and make the necessary adjustments proceed as follows: (Cont'd on pg. 6)

a. After wire has been threaded into head, as directed in para. 1, immediately preceding, turn over machine by hand until wire has been cut and is being held by the gripper (1). Observe that the wire length being held by the gripper does not curl upward or downward; the cut wire length should be as close to a straight line as possible, as shown at (2) in insert in Fig. 3.

If wire tends to curl upward or downward, turn the wire straightener adjusting screw (3) clockwise or counter-clockwise, as required, until this condition is remedied. (Model BH485 is not equipped with the wire straightener device.)

3. HOW TO DETERMINE CORRECT WIRE DRAW AND MAKE NECESSARY ADJUSTMENTS

a. DETERMINING WIRE DRAW—The BOSTITCH Bliss Stitcher Heads are divided into four types based upon the wire draw (amount of wire fed for each stitch) capacity of the head. The table in Fig. 4 lists the four wire draw types of heads and gives the minimum and maximum wire draw for each type.

In order to insure perfect stitching it is essential that the wire draw be the correct length for the work to be stitched. The length of the wire draw is dependent upon the crown size of the staple to be used and the thickness of the work to be stitched.

As a general rule, stitches having a crown width size within the range of .175" through 1/2" should have sufficient wire draw so that the clinched legs of the staple just about meet, as shown in Fig. 5. For stitches in this range of crown sizes the correct length of wire draw would be: Twice the crown size plus twice the thickness of work to be stitched; or, when reduced to a formula: $Wire\ Draw = 2C + 2T$

For example: If crown size of stitch is 7/8" and thickness of work to be stitched is 3/8", the correct wire draw would be: $2 \times 7/8"$, (or 7/8"), plus $2 \times 3/8"$, (or 3/8"), which equals 1 1/4" wire draw.

Stitches having crown sizes greater than 1/2" should have sufficient wire draw so that each clinched leg of the staple is 3/8" in length, as shown in Fig. 6. For stitches in this range of crown sizes the correct wire draw would be: Crown size plus twice the thickness of work to be stitched plus 3/8"; or, when reduced to a formula: $Wire\ Draw = C + 2T + 3/8"$

For example: If crown size of stitch is 1 1/8" and thickness of work to be stitched is 1/2", the correct wire draw would be: 1 1/8", plus $2 \times 1/2"$, (or 1"), plus 3/8", which equals 2 1/2" wire draw.

The above formulas do not take into consideration the type of material to be stitched. Some (Cont'd on pg. 7)

Type of Head	Wire Draw Limits	
	Minimum	Maximum
Short Wire Draw	1/2"	1 1/2"
Standard Wire Draw	7/8"	1 1/2"
Long Wire Draw	1 1/8"	2 3/8"
Extra Long Wire Draw	1 5/8"	3 1/2"

Figure 4—Wire Draw Table

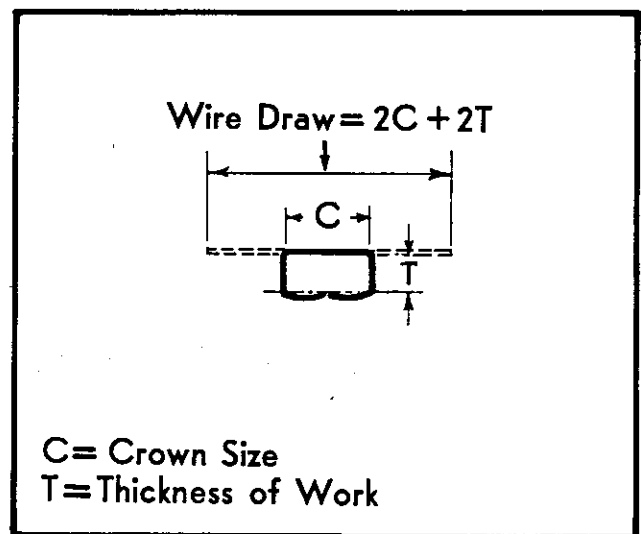


Figure 5—Wire Draw Dimensions and Formula for .175 thru 1/2" Crowns

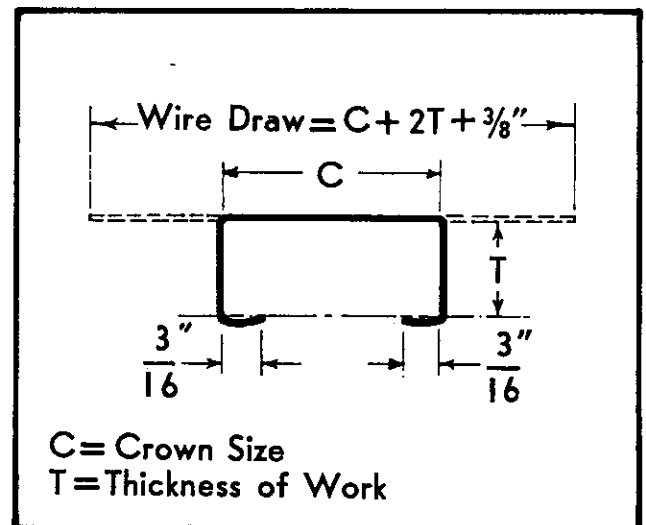


Figure 6—Wire Draw Dimensions and Formula for Crowns Greater Than 1/2"

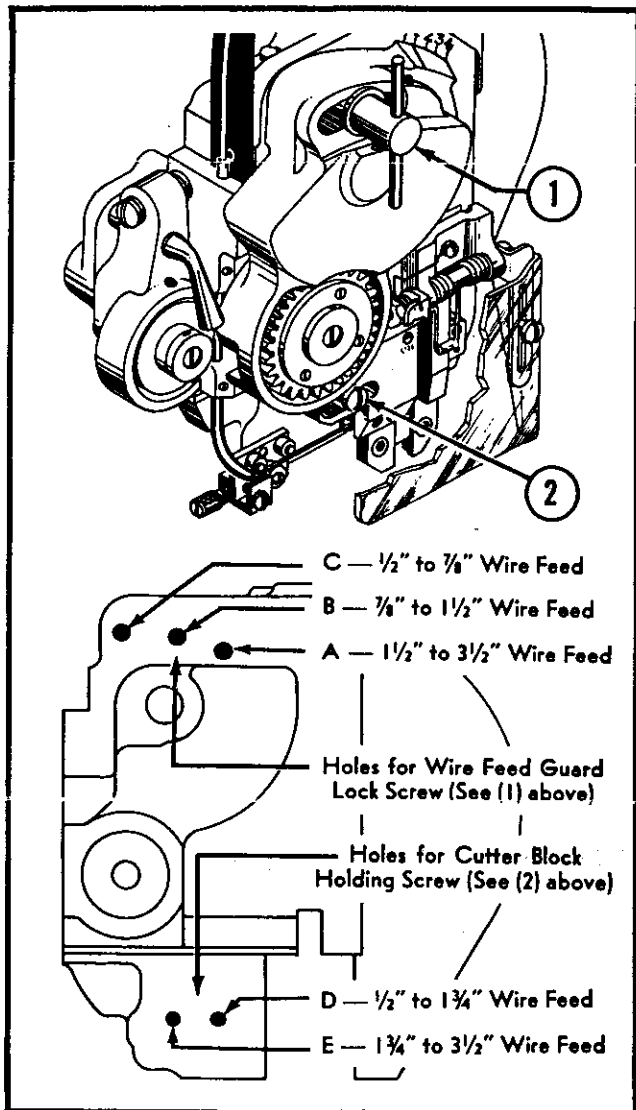


Figure 7—Positioning Wire Feed Lock Screw and Cutter Block Holding Screw

materials might require staple leg lengths different than those shown in Figs. 5 and 6. However, as a general rule the formula given in Fig. 5 can be used for stitches having crown sizes within the range of .175" thru 1/2", while the formula given in Fig. 6 can be used for stitches having crown sizes greater than 1/2".

b. WIRE DRAW ADJUSTMENTS—After determining the correct length of wire draw for the particular work to be stitched, as directed in para. a. immediately preceding, make head wire draw adjustments as follows:

1—Check that the wire feed guard lock screw (1) and cutter block holding screw (2), Fig. 7, are in the correct head plate holes for the desired wire draw. The standard, long, and extra long wire draw head plates have two tapped holes, (A) and (B), Fig. 7, while the short wire draw head plate has an additional (third) hole (C) for insertion of the wire feed guard lock screw. All four types of head plates have two tapped holes, (D) and (E), for insertion of the cutter block holding screw. If the desired length of wire draw approaches the minimum or maximum limits for the head being operated (refer to Wire Draw Table, Fig. 4) it may be necessary to relocate the wire feed guard lock screw and cutter block holding screw.

The following table (Fig. 8) indicates the correct hole locations for the two screws to obtain the minimum or maximum wire draw for each type of head. The diagram in Fig. 7 shows the five holes and gives the obtainable wire draw range for each hole.

2—If it is found necessary to relocate the wire feed guard lock screw, (1) Fig. 9, and cutter block holding screw (2), remove both screws, and then shift the wire feed guard casting, (3)

(Cont'd on pg. 8)

Type of Head	Wire Feed Guard Lock Screw		Cutter Block Holding Screw	
	Min. Wire Draw	Max. Wire Draw	Min. Wire Draw	Max. Wire Draw
Short Wire Draw	Hole C	Hole B	Hole D	Hole D
Standard Wire Draw	Hole B	Hole B	Hole D	Hole D
Long Wire Draw	Hole B	Hole A	Hole D	Hole E
Extra Long Wire Draw	Hole A	Hole A	Hole D	Hole E

Figure 8—Table of Hole Locations for Wire Feed Guard Lock Screw and Cutter Block Holding Screw (See Fig. 7)

WIRE DRAW ADJUSTMENTS (Cont'd)

sufficiently to the left or right, as required, so that the wire feed guard lock screw (1) can be inserted into the alternate hole (A, B, or C, Fig. 7); do not tighten screw at this point.

3—The short and standard wire draw heads are so designed that the cutter block, (4) Fig. 9, automatically shifts to the left or right when the wire feed guard is shifted. If head being operated is either of these two types, relocate the cutter block holding screw (2) in its alternate hole (D or E, Fig. 7), and tighten screw securely. If head is of the Metal Stitcher type (Model BHM or BHMB), relocate the cutter block holding screw (2) with washer, in its alternate hole (D or E, Fig. 7), but do not tighten. If head being operated is either the long or extra long draw type (Model BHL, BHX, BHOL or BHL485), the cutter block must be shifted manually. Move cutter block, as required, and relocate holding screw and washer (hex head screw and washer used on long and extra long draw heads only); do not tighten screw at this point.

4—If it is not found necessary to relocate the wire feed guard lock screw, (1) Fig. 9, and cutter block holding screw (2), and head being operated is either the short or standard wire draw type, loosen (do not remove) only the wire feed guard lock screw (1); if head is either the metal stitcher type or long or extra long draw type, loosen (do not remove) both screws.

5—To increase or decrease the wire draw on the short and standard wire draw heads, shift the wire feed guard casting, (3) Fig. 9, to the right or left. As mentioned in step (3) above, any shifting of the wire feed guard automatically adjusts the position of the cutter block so that both legs of the staple are increased or decreased an equal amount.

The short and standard wire draw heads are equipped with a length of wire draw scale, (1) Fig. 10, on the head plate, and an alignment marker (2) on the wire feed guard (If head being operated is the short draw type, there may be two alignment markings on the wire feed guard, in which case use the right hand marking). The scale and marker provide a means of setting the wire draw according to the desired length. On the short wire draw head the "O" scale marking represents $\frac{1}{2}$ " of wire draw; on the standard draw head the "O" marking represents 1" of wire draw. Each of the other graduations in the scale on both heads represent approximately $\frac{1}{8}$ " additional wire draw. Thus, if

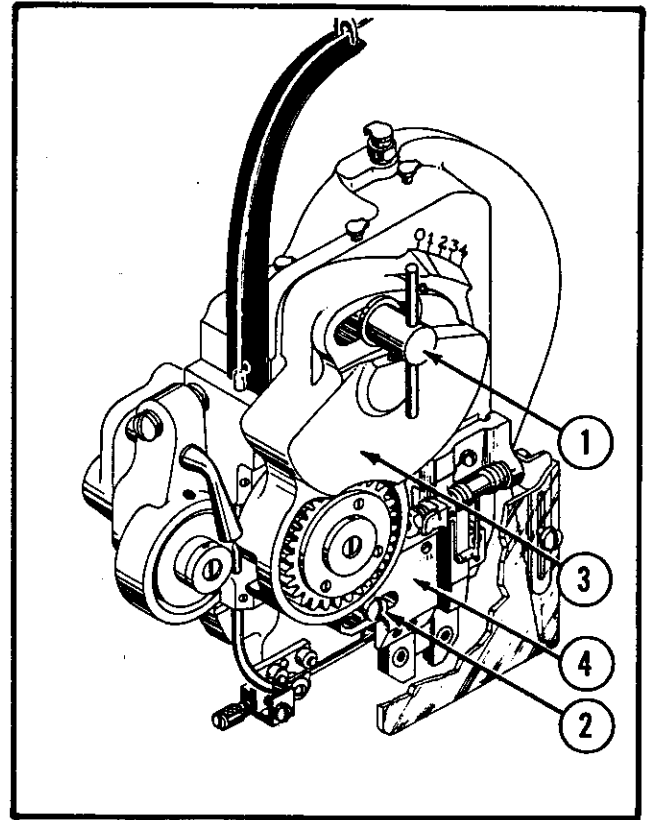


Figure 9—Wire Draw Adjustments

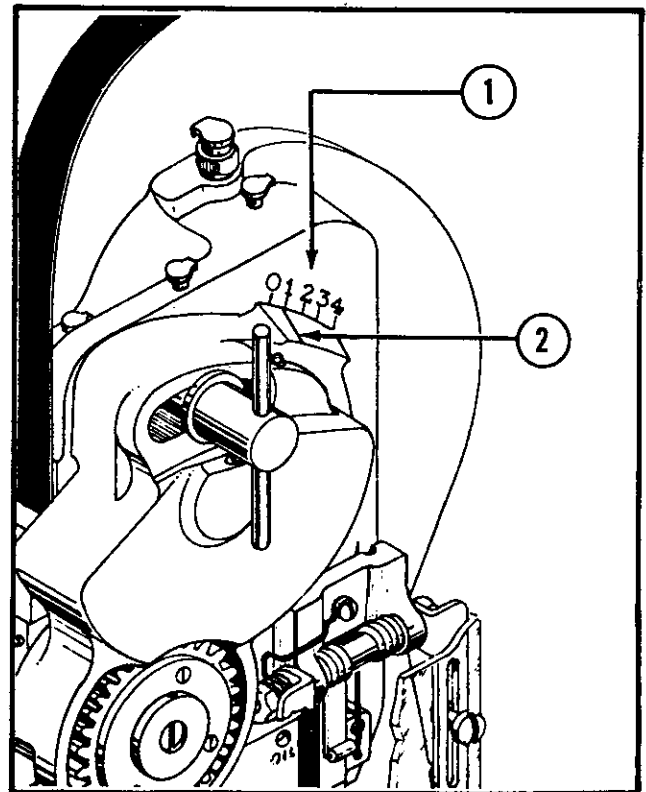


Figure 10—Wire Draw Scale

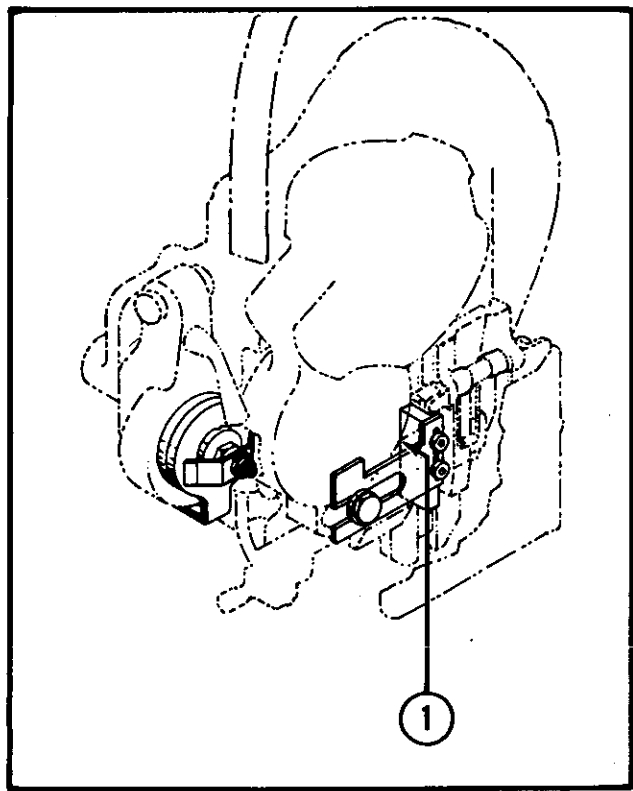
(Cont'd on pg. 9)

the head being operated is a standard wire draw head, a setting on the "3" marking will result in a wire draw of $1\frac{3}{8}$ " , whereas the same setting on the short draw head will result in a wire draw of $\frac{7}{8}$ " .

After the setting has been made, tighten the wire feed guard lock screw, (1) Fig. 9. If head is of the metal stitcher type (Model BHM or BHMB), also tighten the cutter block holding screw, (2) Fig. 9.

6—On the long and extra long wire draw heads (BHL, BHX, BHOL and BHL485) wire draw is increased or decreased exactly the same as for the short and standard draw heads: by shifting the wire feed guard casting to the right or left. However, on these two types of heads the cutter block is not linked to the wire feed guard, so that any increase or decrease of wire draw affects only the right leg of the staple. It is necessary therefore, when changing the wire draw setting on either of these heads, to manually move the cutter block to the left or right, thereby adjusting the length of the staple left leg.

A length of wire draw scale, similar to that on the short and standard wire draw heads, is pro-



**Figure 11—Cutter Block Scale
(Long and Extra Long Draw Heads)**

vided on the long and extra long wire draw head plates. In addition, another scale corresponding to the wire draw scale is provided on the cutter block and its holding plate, (1) Fig. 11. This scale provides a means of adjusting the staple left leg (positioning the cutter block) according to the wire draw setting. On these two scales the extreme right hand mark represents the maximum length of wire draw—i.e., on long wire draw head $2\frac{3}{8}$ " , and on extra long wire draw head $3\frac{1}{2}$ " . The other graduations in the scale do not represent any definite length of wire draw, but are used for setting the cutter block to coincide with the setting of the wire feed guard. If the wire feed guard is set at maximum wire draw—extreme right hand marking—the cutter block must be set at the same marking, etc.

After setting the wire feed guard and cutter block, tighten the wire feed guard lock screw and cutter block holding screw, (1) and (2) Fig. 9.

7—After the above settings have been made, turn over the machine manually to the point where the new wire length has been cut off by the cutters and is being held by the gripper; check that wire is the desired length (wire draw setting). Then continue turning over machine manually until staple legs have been formed but not clinched; check that both legs of staple are of equal length.

If left leg is too short or too long, make left leg adjustment, as directed in para. 4, pg. 10.

If head being operated is either the short or standard wire draw type, and right leg is not the correct length, make left leg the same length as the right one (refer to para. 4, pg. 10); then, increase or decrease the wire draw, as directed in step (5), pg. 8, until both legs are the correct length.

If head being operated is either the long or extra long wire draw type, and right leg is not the correct length, increase or decrease the wire draw (shift wire feed guard) to approximate length of wire draw required. Shift cutter block to the point where the left leg of staple is the desired length; then, equalize both legs of staple by readjusting wire draw (shifting wire feed guard).

After correct staple leg length is obtained, securely tighten wire feed guard lock screw and cutter block holding screw.

4. HOW TO ADJUST LENGTH OF STAPLE LEFT LEG LEG (See Fig. 12)

If staple is off center (one leg longer than the other) the length of the staple left leg can be changed as follows:

a. If head being operated is either the short or standard wire draw type, loosen (do not remove) cutter block holding screw (1) and adjusting screw lock screw (2). To lengthen leg, turn cutter block adjusting screw (3) clockwise, thereby moving cutter block away from gripper; to shorten leg, turn adjusting screw counterclockwise, thereby moving cutter block toward gripper. After adjustment has been made, securely tighten adjusting screw lock screw (2) and holding screw (1).

b. If head being operated is either the long or extra long wire draw type, (Model BHL, BHX, BHOL or BHL485) loosen (do not remove) cutter block holding screw (1). To lengthen leg, manually move the cutter block (4) to the left (away from gripper); to shorten leg, move cutter block to the right (toward gripper). After adjustment has been made, securely tighten cutter block holding screw (1).

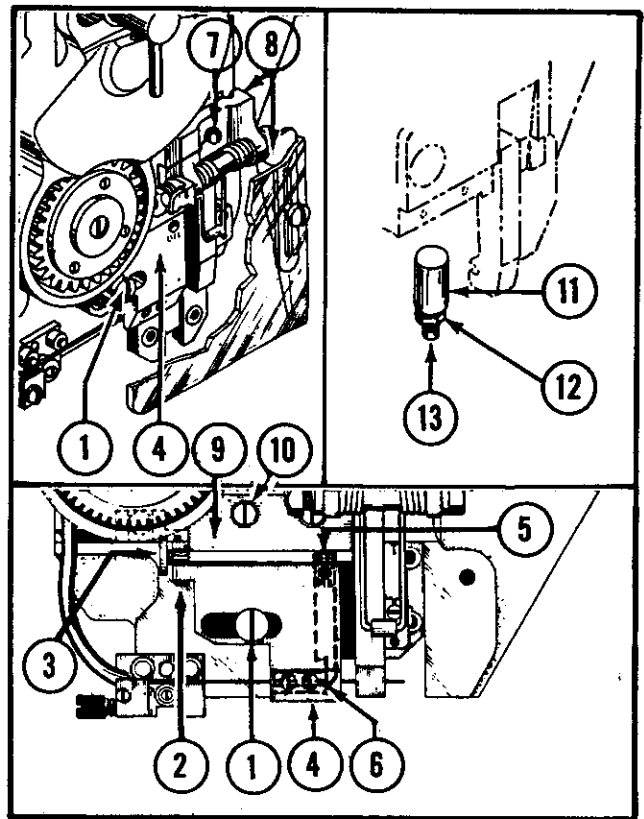


Figure 12—Staple Left Leg and Movable Cutter Adjustments

5. HOW TO SET MOVABLE CUTTER

(See Fig. 12)

The cutter block movable cutter (5) is activated by an adjustable plunger in the head plate. The plunger adjustment should be such that when the movable cutter has reached the limit of its down stroke, the cutting edge of the cutter should be just below the wire opening in the stationary cutter (6). If the movable cutter continues down past that point, the cut off wire length may be bent downward by the continued downward movement of the cutter.

If it is found necessary to adjust the stroke of the cutter, proceed as follows:

a. Unscrew the gripper spring bracket screw (7), and remove the gripper spring and finger guard assembly (8).

b. Remove the cutter block holding screw (1), permitting the removal of the cutter block assembly (4) from its holding plate (9).

c. Remove the two screws (10) in the cutter block holding plate, allowing the holding plate and cutter block operating plunger (11) to be removed from the head plate.

d. Loosen the plunger adjusting screw nut (12), and then move the plunger adjusting screw (13) in or out, as required, to raise or lower the cutter stroke. After the adjustment has been made, tighten the adjusting screw nut (12) and replace the parts and assemblies removed.

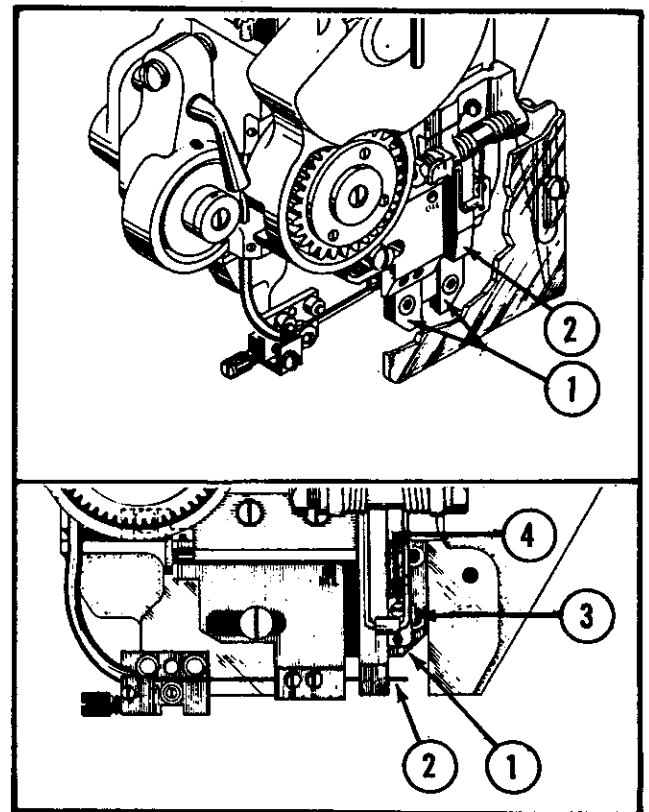


Figure 13—Adjustments for Aligning Gripper Bar and Formers

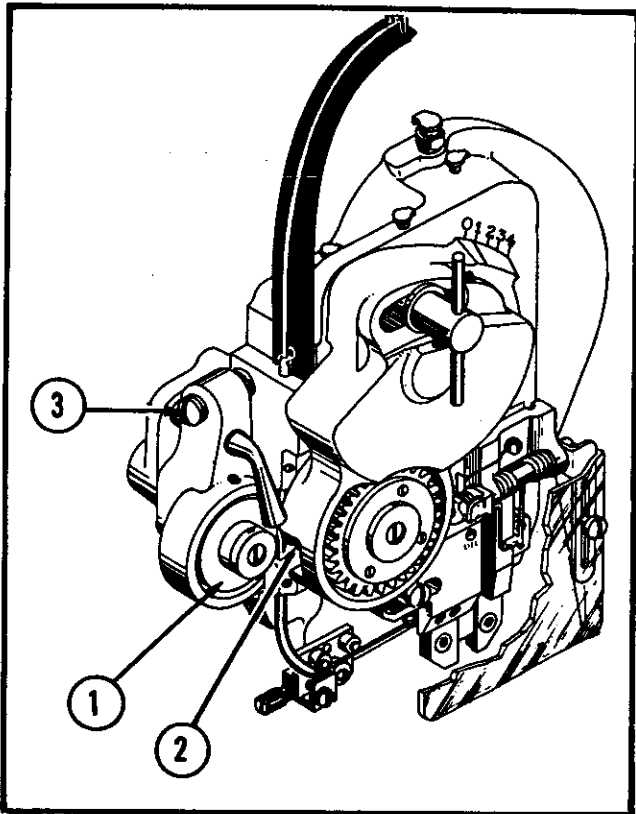


Figure 14—Wire Feed Gear Tension Adjustment

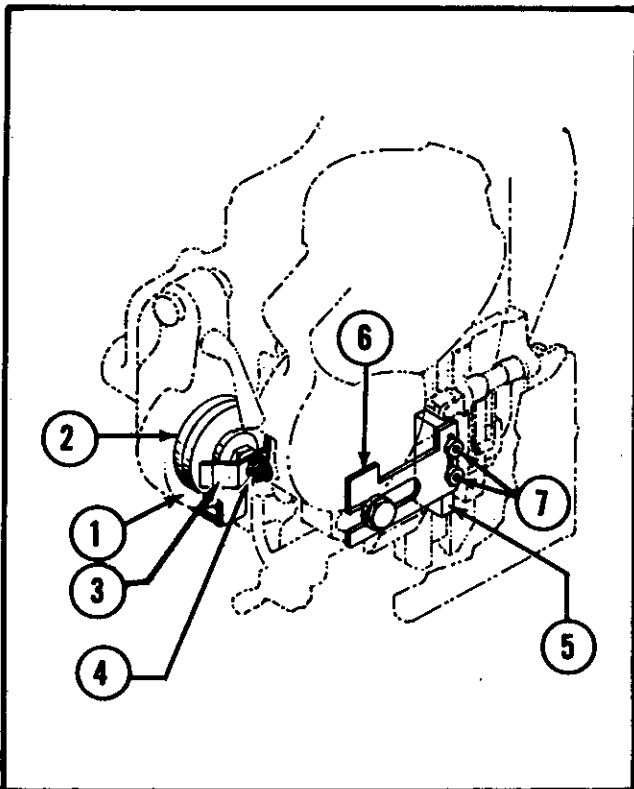


Figure 15 — Wire Feed Brake Tension and Wire Guide Adjustments (Long and Extra Long Draw Heads)

6. HOW TO ALIGN GRIPPER BAR AND FORMERS (See Fig. 13)

a. Turn over the machine manually and, as the formers (1) descend, check that the grooves in the formers are in exact alignment with the wire length being held by the gripper bar (2).

b. If they are not in alignment, (usually resulting in deformed crown surface), loosen the clamp block holding screw (3). Then turn gripper bar adjusting screw (4) in or out, as required, until alignment is correct. After adjustment has been made, tighten clamp block holding screw (3).

7. HOW TO ADJUST TENSION OF WIRE FEED GEARS (See Fig. 14)

The wire feed idler gear (1) operates with the drive gear (located behind the wire feed guard (2) to feed the wire into the head. The tension of the two wire feed gears is adjustable by means of the tension adjustment screw (3).

The tension of the wire feed gears should be such that the wire feeds freely without slipping or binding. If tension is too loose, wire will slip, usually resulting in staples being off center. If tension is too tight, wire will bind and may be rolled out of shape, causing wire curvature and preventing proper handling in the gripper.

8. HOW TO ADJUST WIRE FEED BRAKE TENSION — Models BHL, BHX, BHOL and BHL485 Only (See Fig. 15)

Models BHL, BHX, BHOL and BHL485 are equipped with a friction braking device (1) to prevent wire feed overrun. Due to normal wear of the leather brake friction (2) it may be necessary to increase the tension of the friction spring (3). This is accomplished by means of the brake tension nut (4).

To check the spring tension, turn the brake friction spring (3) by hand; if spring turns too freely, tighten brake tension nut (4); if spring cannot be turned by hand, loosen tension nut.

9. HOW TO ADJUST WIRE GUIDE — Models BHL, BHX, BHOL and BHL485 Only (See Fig. 15)

Because of the wide gap between the cutter block and the gripper bar on the long and extra long wire draw heads, these heads are equipped with a wire guide (5). The guide serves to lead the wire into the gripper bar slot.

The wire guide plate (6), which supports the wire guide, is adjustable to the left or right for positioning the wire guide depending upon length of wire draw. The wire guide can also be adjusted up or down, by loosening the wire guide screws (7); an Allen wrench for these screws is supplied with the head.

The wire guide should be so positioned that the wire is fed from the cutter block directly into the gripper bar.

MAINTENANCE

To insure continuous operation of the BOSTITCH Bliss Stitcher Head the operator should be sure that the head is regularly lubricated and carefully maintained. The operator should periodically inspect all moving parts for signs of wear, and, when required, replace any worn part.

The following instructions are provided so that the operator will clearly understand how to lubricate the head, and how to check and replace worn parts. Included in this section is a Trouble Shooting Chart which provides a quick means of remedying any troubles that may occur due to incorrect settings or adjustments, or normal wear of the head.

CAUTION

After replacing the above mentioned parts, or after installing a new part, turn over machine *manually* and check that head operates freely. Do not operate machine under power until certain that head is operating freely.

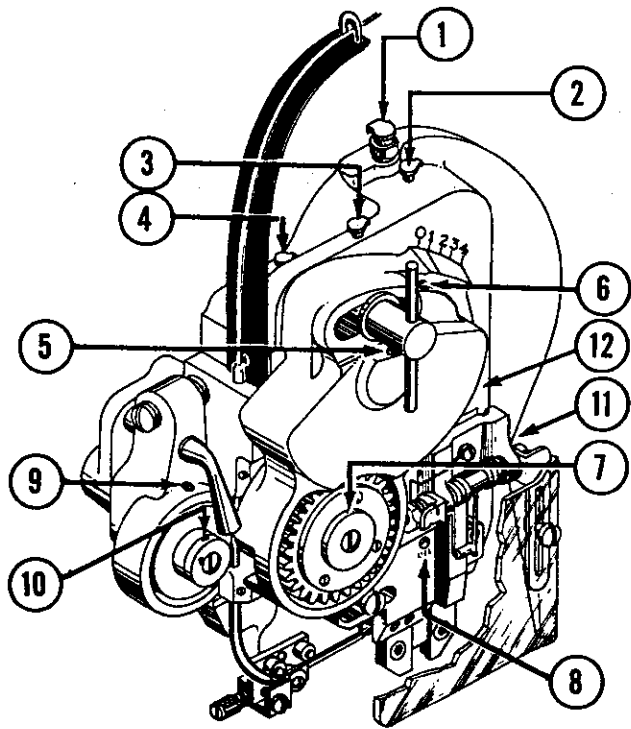
1. LUBRICATION (See Fig. 16)

Use an S.A.E. No. 10 oil for lubricating the BOSTITCH Bliss Stitcher Head. Machines that are in constant operation should be lubricated daily; machines that are operated periodically should be lubricated just prior to running a job.

Except for Lubrication Point #1 on Models BHM and BHMB, usually only a drop of oil is required at each point of lubrication. Lubrication Point #1 on Models BHM and BHMB is a wick type oil cup which requires a greater quantity of oil in order to keep the wick saturated.

Depending upon the type of work being stitched, care must be taken that those parts of the head that contact the work are free of oil. Lubricate regularly instead of excessively. After lubricating the head, wipe off any excess oil.

- 1—Oil cup in top of head plate for former slide, driver bar, and other internal parts
- 2—Oil cup in top of head plate for wire feed operating link
- 3—Oil cup in top of head plate for wire feed operating lever and sliding head
- 4—Oil cup in top of head plate for wire feed operating lever pivot stud
- 5—Ball oiler in wire feed guard for wire feed guard crank stud
- 6—Ball oiler in wire feed guard for wire feed crank sector
- 7—Oil hole in retaining washer for wire feed drive gear stud
- 8—Oil hole in cutter block for movable cutter
- 9—Ball oiler in wire feed idler gear arm for wire feed idler gear
- 10—Oil hole in retaining washer for wire feed idler gear stud
- 11—Oil cup in head plate, directly over gripper pivot screw—Model BHS only
- 12—Three oil holes in front face of head plate—Model BHC only



In addition to the above lubricating points, apply a few drops of oil as required to wire oiler felt (not shown in illustration) to clean and lubricate stitching wire. Friction points of all sliding, rotating or oscillating parts, for which oil cups or holes are not provided, should be oil moistened just prior to running a job. It is recommended that a tooth pick, or matchstick, tipped with oil moistened cotton dressing be used to lubricate these parts.

Figure 16—Lubrication Points

2. INSPECTION AND REPLACEMENT OF WORN PARTS

Obviously, all moving parts may eventually require replacement due to normal wear of the parts. However, regular lubrication will aid in lengthening the life of the parts. Usually, those parts that are in actual contact with the wire during feeding, cutting, forming and clinching of the wire will be the first parts to show signs of wear. Imperfect stitching, not caused by incorrect machine settings or adjustments, is usually due to normal wear of wire feed gears, wire tubes, stationary and moving cutters, gripper parts, formers, driver, or supporter. These parts should be regularly inspected for signs of wear, and replaced when required, as directed in the following instructions.

a. WIRE FEED GEARS (See Fig. 17)—The wire feed gears (Fig. 17 shows the left, or idler, gear (1), the right, or drive, gear being located behind the wire feed guard) should be checked for smooth and parallel wire gripping surface. Worn surfaces may result in wire slipping thereby not feeding properly; if surfaces are not parallel, wire may be rolled on one side causing

wire curvature and resulting in imperfect stitches.

If head being checked is equipped with a grooved wire feed drive (right) gear, check that groove is clean (not clogged) and not worn.

For instructions on removing the wire feed gears, refer to How To Disassemble and Reassemble Head, para. 1, pg. 20.

b. WIRE FEED TUBES (See Fig. 17)—The upper and lower wire tubes, (2) and (3), should be checked for any obstructions in the tube passages which may interfere with free movement of wire. Slots may eventually appear in tube passages, due to normal wear, which will cause the wire to catch and bind, thereby resulting in improper feeding.

To remove worn tubes, loosen the upper and lower wire tube screws, (4) and (5). Remove the lower wire tube clamp (6), (all heads other than Model BH485) and withdraw the tubes from the head plate.

c. STATIONARY CUTTER (See Fig. 17)—The stationary cutter (7) should be periodically checked for any obstructions in the wire passage which may interfere with free movement of wire. Check that cutting end is sharp; dull cutter may be resharpened, but eventually must be replaced.

To remove and replace the stationary cutter, proceed as follows:

1—Loosen stationary cutter screws (8) and withdraw cutter from cutter block.

2—When reinstalling cutter be sure that cutting end is inserted into cutter block. (Opposite, (countersunk) end is the end which protrudes from the cutter block). If installing a ribbon wire cutter, face flat side of cutter toward front of head. If installing a round wire 30° or 45° sharp stitch cutter (side not flattened), face angled end cutting surface toward back of head.

3—With cutter positioned as directed above, slide cutter into cutter block until cutting end contacts and is parallel with flat cutting surface of movable cutter (9). Upon contact with stationary cutter, movable cutter cutting face will automatically align itself with cutting surface of stationary cutter.

4—With stationary cutter fully inserted in cutter block and aligned with movable cutter, tighten cutter holding screws (8). Then turn over machine by hand and check that movable cutter operates freely.

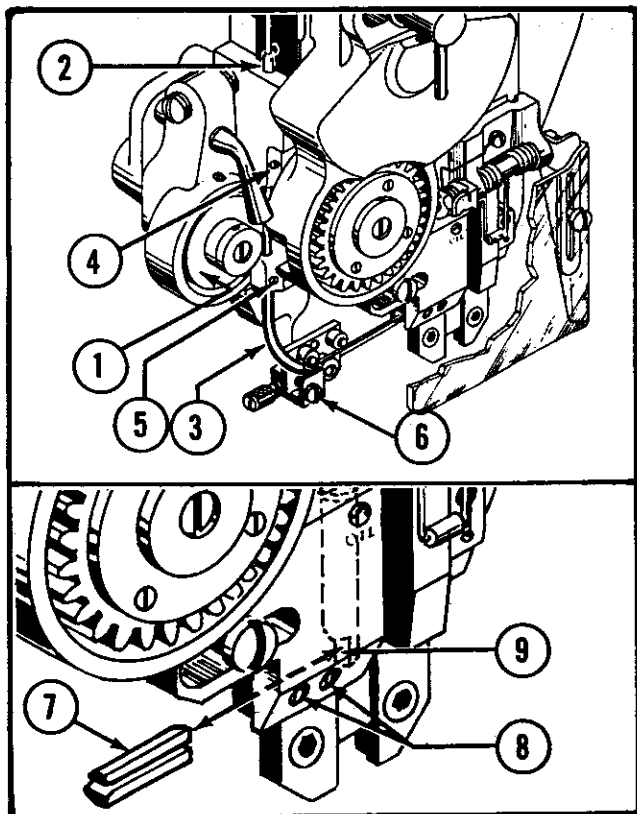


Figure 17—Inspecting Wire Feed Gears, Tubes, and Stationary Cutter

d. **MOVABLE CUTTER** (See Fig. 18)—The cutting edge of the movable cutter should be periodically checked for sharpness. A dull cutter can be resharpened but eventually must be replaced.

To remove and reinstall movable cutter for sharpening or replacing, proceed as follows:

1—Unscrew and remove cutter block holding screw, (1) and remove the cutter block (2) from its holding plate (3).

2—Manually holding cutter plunger (4) under spring tension, back-out cutter plunger holding screw (5) sufficiently to release plunger (4) and cutter (6) from cutter block.

3—To replace cutter into cutter block, first loosen stationary cutter holding screws (7) and back-out stationary cutter (8) slightly.

4—Fit top of movable cutter (6) into groove in plunger (4), with flat cutting surface of cutter turned toward plunger. Slide cutter and plunger into their holes in cutter block, and then compress plunger by hand until top of plunger is just below the top of cutter block body; then, tighten plunger holding screw (5) until it engages slot in side of plunger, thereby holding plunger in place. (If plunger holding screw (5) protrudes from its hole in cutter block body, it is not correctly engaged with slot in plunger.)

5—Slide stationary cutter (8) back into cutter block body until its cutting end surface contacts and is parallel with cutting surface of movable cutter. (Upon contact with stationary cutter, movable cutter will automatically align itself with stationary cutter.) When cutters are correctly aligned, tighten stationary cutter holding screws (7).

6—Reinstall cutter block (2) onto its holding plate (3). On all heads other than Models BHL, BHX, BHOL and BHL485 be sure to position cutter block so that the cutter block adjusting screw head (9) engages in the first (left side) slot in the cutter block control slide (10). (Models BHL, BHX, BHOL and BHL485 are not equipped with this control slide). With cutter block correctly positioned, replace and tighten cutter block holding screw (1).

7—Turn over machine by hand and check that movable cutter operates freely; check that cutter stroke is correct. If cutter has been resharpened, or a new cutter has been installed, cutter stroke may need resetting. (Refer to para. 5, pg. 10)

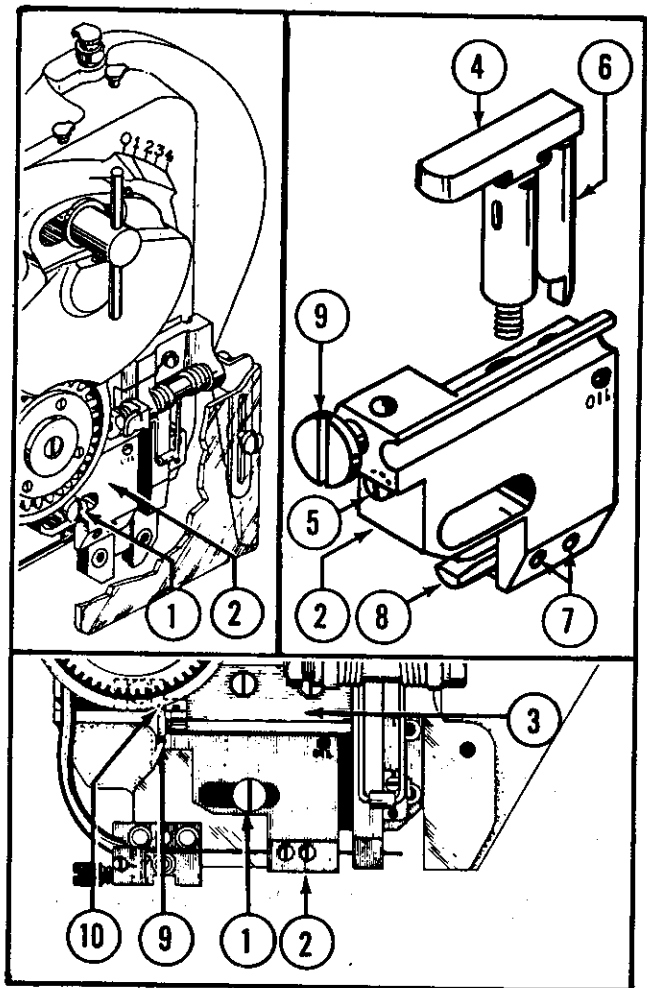


Figure 18—Removing and Replacing Movable Cutter

e. **GRIPPER** (See Fig. 19)—Check for excessive wear at edges of gripper bar (1) anvil (surface upon which staples are formed), usually evidenced by rounded corners on formed staple.

Check for signs of wear on gripping surface of gripper bar clamp piece (see Index No. 152 in Fig. 23); check for sufficient tension in gripper bar clamp piece spring. If clamp piece is overly worn, or spring tension is not sufficient, wire will slip while being held in the gripper usually resulting in a one-legged staple.

To remove and reinstall gripper assembly, proceed as follows:

1—Turn over machine to neutral (stop) position.

2—Unscrew gripper spring bracket screw (2), and remove gripper spring bracket and finger guard assembly (3) from head.

3—Unscrew and remove gripper pivot screw (4), permitting gripper assembly to be removed from head.

(Cont'd on next page)

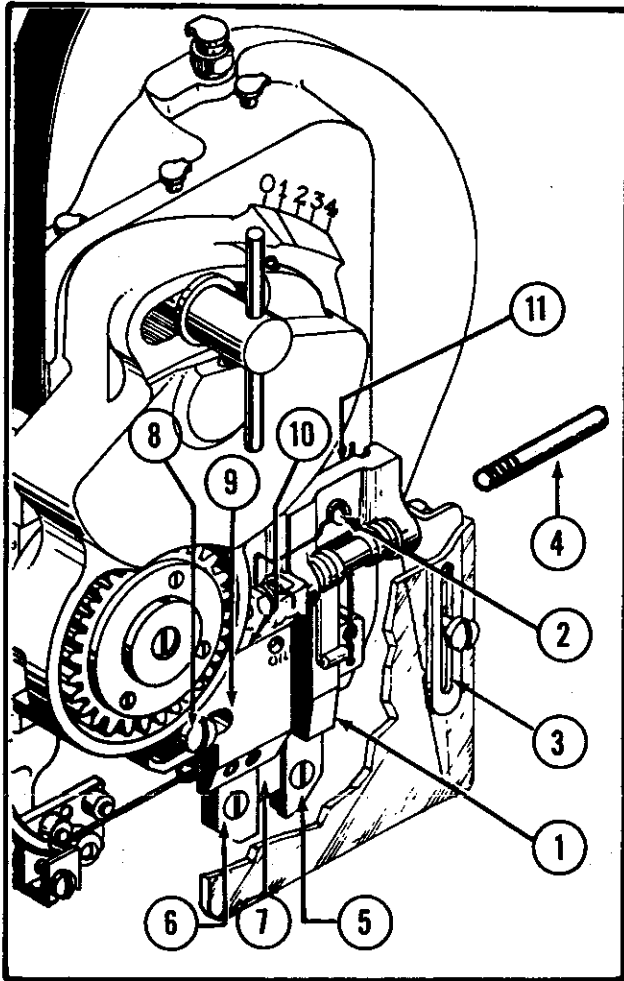


Figure 19—Removing and Replacing Gripper, Formers and Driver

4—When reinstalling gripper assembly in head, be sure that upper stud in gripper bar clamp piece, (153), Fig. 23, engages in slot in gripper clamp piece control slide, (167), Fig. 23; then replace and tighten gripper pivot screw, (4), Fig. 19.

5—Check that gripper bar is in alignment with formers (refer to para. 6, pg. 11).

f. FORMERS AND DRIVER (See Fig. 19)
—Check for wear in grooves of formers (5) and (6), usually evidenced by buckled staple legs. The formers supplied with Models BHM and BHMB are double-ended, thereby permitting these formers to be reversed when one end is worn.

The driver (7) should be checked for broken tips, or worn ends or sides. Some types of drivers are double-ended and can be reversed in the formers when one end is worn.

To remove and reinstall the formers and/or driver, proceed as follows:

1—Disconnect Stitcher machine power cord from power outlet.

2—Unscrew gripper spring bracket screw (2) and remove gripper spring and finger guard assembly (3).

3—Manually rotate Stitcher clutch pulley to the point where the formers (5) and (6) are at the lower end of their stroke. Remove gripper throwout cam block. (See (175) Fig. 23.)

4—Further rotate clutch pulley until clutch is disengaged. Remove screws from right former, (5) slide former down and off former slide. The driver (7) can now be removed by sliding driver to the right.

5—If it is desired to remove the left former (6), unscrew and remove the cutter block holding screw (8) and remove the cutter block (9) from its holding plate (10). Remove the screws from the left former, slide former down and off former slide.

6—To replace the formers and driver, first check that clutch is disengaged and then reinstall left former (6) on former slide and securely tighten attaching screws. Reinstall cutter block, as directed in step (6) of para. d., on page 14.

7—Slide driver (7) into place on the driver bar, with driving boss of driver bar keyed into slot in rear face of driver, and left side of driver engaged in groove of left former.

8—Slide right former (5) up into position on former slide, making sure that driver is engaged in former groove; then replace and securely tighten right former screws.

9—Manually rotate Stitcher clutch pulley to the point where the formers are at the lower end of their stroke. Reinstall gripper throwout cam block, (175) Fig. 23, on former slide, making sure that attaching screw is securely tightened.

10—Reinstall gripper spring and finger guard assembly making sure that gripper spring bracket (11) fits squarely in slot in head plate; tighten attaching screw (2) securely.

11—Manually turn over machine and check that parts operate freely. If new formers have been installed, run machine for a short time using oiled wire, in order to wear-in former grooves, thereby preventing binding of wire.

g. **SUPPORTER** (See (196) Fig. 23)—If legs of staple buckle, it may be caused by a worn supporter, (196), Fig. 23. Examine supporter for signs of excessive wear on the surface that first contacts the wire. Due to the wire always striking the supporting surface at the same point, a slight groove may eventually develop at this point, causing the wire to jump when it contacts the groove, resulting in staple legs buckling.

The supporter should also be examined for worn (sharp) edges which may cause wire breakage.

Staple crown buckling may be caused by supporter retracting too easily, due to insufficient tension in supporter spring, necessitating replacement of the spring.

For instructions on removing the supporter assembly, refer to para. b, steps (12) thru (15), pg. 21.

h. **WIRE FEED CLUTCH** (See Fig. 20)—The wire feed clutch (1) is a friction roller type of clutch that operates (grips) on the wire feed stroke (counter-clockwise rotation of clutch ring gear (2)), and slips on the return stroke. If the clutch slips on the wire feed stroke, causing uneven wire feed, it is probably due to excessive clutch lubrication. (Clutch is lubricated at oil hole in retaining washer (3).) In this event, the clutch assembly should be removed and washed with gasoline. (Be sure to relubricate clutch after clutch is reassembled in head.)

To remove the clutch assembly, remove the retaining washer screw (4) and retaining washer (3) permitting the removal of the clutch assembly from the wire feed drive gear stud.

If clutch is disassembled, make sure that clutch rollers and springs, (5) and (6), are reassembled in the clutch spider (7) as shown in Fig. 20.

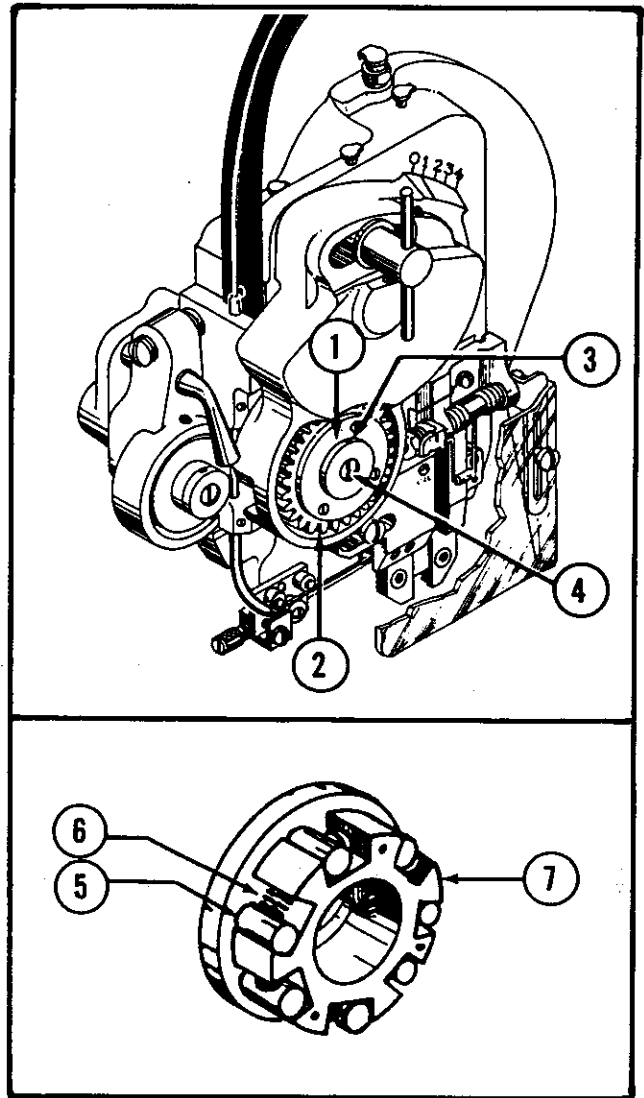


Figure 20—Removing and Assembling Wire Feed Clutch

TROUBLE SHOOTING

The quality and quantity of work that can be produced with BOSTITCH Bliss Wire Stitcher Heads are dependent upon the operator making all adjustments as accurately as possible, and carefully maintaining the heads. The cause of staple imperfections usually can be traced to inaccurate settings or adjustments, or normal wear of parts. In the event of trouble of this nature occurring, the operator can, by referring to the following Trouble Shooting Chart, quickly locate and remedy the cause, or causes, of the trouble, thereby reducing to a minimum the time the Stitcher is non-operative.






The first column of the chart illustrates per-

fect and imperfect stitches; the second column describes the imperfections (troubles); the third column lists the probable cause, or causes, for the given trouble, while the fourth column lists the remedy, or remedies, for the troubles. Reference is also made in the fourth column to the paragraph in this book in which will be found detailed information for making the necessary remedial adjustments.

If stitching is defective, the operator can compare the staple produced with the stitches illustrated in the chart and, by carefully reading the information given for each type of imperfect stitch, remedy the cause of the imperfection.

TROUBLE SHOOTING CHART



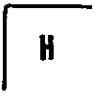


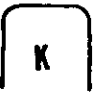
FORMED STAPLES

<i>Staple</i>	<i>Trouble</i>	<i>Cause</i>	<i>Remedy</i>
	Perfect staple		
	Right leg short	Wire spool dragging	Adjust wire spool tension
		Wire slipping in wire feed gears	Check tension setting of wire feed gears (refer to para. 7 page 11).
		Upper and/or lower wire tube clogged or worn	Check wire feed tubes (refer to para. b page 13).
		Cutter block not properly positioned with relation to gripper	Make adjustments as directed in step (7) of Wire Draw Adjustments on page 9
		Improper wire feed due to over lubricated or worn wire feed clutch	Check operation of wire feed clutch (refer to para. h page 16)
		Wire slipping in gripper due to normal wear of gripper bar clamp piece or insufficient tension in clamp piece spring	Check gripper bar clamp piece and spring (refer to para. e page 14).
	Left leg short	Cutter block not properly positioned with relation to gripper	Adjust length of left leg (refer to para. 4 page 10).
		Wire slipping in gripper due to normal wear of gripper bar clamp piece or insufficient tension in clamp piece spring	Check gripper bar clamp piece and spring (refer to para. e page 14).
	Staple corner buckled	Chipped or broken driver	Check driver ends for signs of damage; reverse or replace driver (refer to para. f page 15)
	Either or both legs buckled	Wrong size wire being used for work being stitched	Check wire size for work being stitched
		Dull wire cutters	Check movable and stationary cutters; sharpen or replace cutters (refer to para. c and d page 13 and 14).
		Worn supporter, or supporter retracts too easily due to insufficient spring tension	Check for worn supporter and broken or weak supporter spring (refer to para. g page 16).











(Cont'd on pg. 18)

TROUBLE SHOOTING CHART (Cont'd)

FORMED STAPLES

<i>Staple</i>	<i>Trouble</i>	<i>Cause</i>	<i>Remedy</i>
 F	Bent crown	Wrong size wire being used for work being stitched	Check wire size for work being stitched
		Supporter retracts too easily	Check for weak supporter spring (refer to para. g page 16).
		Wrong setting of Stitcher adjustment for thickness of work being stitched	Check Stitcher adjustment for thickness of work being stitched
 G	Left leg missing	Wire slipping in gripper due to normal wear of gripper bar clamp piece or clamp piece spring	Check gripper bar clamp piece and clamp piece spring (refer to para. e page 14).
		Gripper out of alignment with formers	Check to see that formers and gripper are in proper alignment (refer to para. 6 page 11).
 H	Right leg missing	Wire slipping in wire feed gears	Check tension setting of wire feed gears (refer to para. 7 page 11); check for worn gears (refer to para. a page 13).
		Refer to Causes for "Left leg missing"	Refer to Remedies for "Left leg missing"
		Gripper not operating properly due to broken or weak gripper bar holding springs	Check for broken or weak gripper springs (see Index Nos. 140 and 141 in Fig. 22).
 I	Staple comes out in pieces	See Causes for Left and Right legs missing	Refer to Remedies for Left and Right legs missing
		Supporter edges worn sharp	Check for worn supporter (refer to para. g page 16)
		Wire too hard	Check wire being used
 J	Corner of staple broken or nearly broken thru	Wire too hard	Check wire being used
		Supporter edges worn sharp	Check for worn supporter (refer to para. g page 16).
		Driver corners too sharp; or worn formers	Check for worn formers and driver (refer to para. f page 15).
 K	Corner of staple rounded	Worn anvil surface of gripper bar	Check for worn gripper bar (refer to para. e page 14).

DRIVEN AND CLINCHED STAPLES

Staple	Trouble	Cause	Remedy
 	<p>Perfect Stitch (.175 to 1/2" Crown Width)</p> <p>Perfect Stitch (Crown Widths greater than 1/2")</p>		
	Loose clinch	Wrong setting of Stitcher adjustment for thickness of work, and clinchers set too low	Check setting of Stitcher for thickness of work being stitched, and raise clinchers.
	Legs spread	Worn wire cutters	Check movable and stationary cutters; sharpen or replace cutters (refer to para. c and d, page 13 and 14)
		Former grooves worn	Check formers; replace if grooves are worn (refer to para. f page 15).
		Wire straightener not properly adjusted	Check setting of wire straightener (refer to para. 2 page 5).
		Thickness of work beyond capacity of machine	Check thickness capacity of Stitcher
	Staple legs contracted	Worn wire cutters	Check movable and stationary cutters; sharpen or replace (refer to para. c and d page 13 and 14).
		Wire straightener not properly adjusted	Check setting of wire straightener (refer to para. 2 page 5)
	Crown buckled, tearing work	Wrong setting of machine adjustment for thickness of work	Check setting of Stitcher for thickness of work being stitched
	Only one leg clinched in	Clincher not in alignment with driver	Align clincher and driver
	Short legs	Insufficient wire draw	Increase amount of wire draw (refer to para. 3 page 6).
	Legs cross	Wire draw too great	Decrease amount of wire draw (refer to para. 3 page 6).
	Uneven clinching	Clincher not level and parallel with formers	Adjust clincher setting

PART II—PARTS CATALOG

The instructions, illustrations and parts lists included in the following pages are provided to expedite the ordering of repair parts for the BOSTITCH Bliss Stitcher Heads.

1. HOW TO DISASSEMBLE AND REASSEMBLE STITCHER HEAD (See Fig. 21)

NOTE

Figure 21 illustrates the disassembling and reassembling procedures only and is not intended to identify parts for purposes of ordering parts. For ordering parts see Fig. 22 and 23, and the accompanying Parts List.

Always disconnect Stitcher machine power cord from power outlet before disassembling head.

a. HOW TO REMOVE WIRE FEED, WIRE CUTTING, AND GRIPPER ASSEMBLIES (See Fig. 21).

1—Remove gripper spring bracket screw (1), and remove bracket and finger guard unit (2).

2—Remove wire feed guard lock screw (3).

3—Remove wire feed clutch retaining washer screw (4) and retaining washer (5), permitting the removal of the wire feed guard (6) and wire feed clutch assembly (7).

4—Remove the wire feed crank sector (8) and wire feed operating lever sliding head (9).

5—Disengage wire feed gears by raising the gear throwout handle (10) to its open position.

6—Remove lower wire tube clamp (11) and loosen the two wire tube screws (12).

7—Withdraw upper and lower wire tubes, (13) and (14), sufficiently so that the wire feed drive gear (15) can be slipped off from its stud (16).

8—Remove wire feed idler gear retaining washer screw (17) and retaining washer (18), permitting the removal of the wire feed idler gear (19) from its stud (20).

If head being disassembled is either a long or extra long draw type of head (Model BHL, BHX, BHOL or BHL485), remove the brake tension nut (21), brake friction spring (22), and idler gear stud nut and retaining washer (23) and (24); then loosen brake friction plate screw (25), and remove the brake friction plate (26) and brake friction (27); the idler gear (19) can now be removed from its stud.

9—Remove the cutter block holding screw (28), permitting the removal of the cutter block assembly (29) from its holding plate (30).

10—Remove the two screws (31) from the cutter block holding plate (30) permitting the holding plate to be removed from the head plate; the removal of the cutter block holding plate (30) releases the cutter block operating plunger (32) and

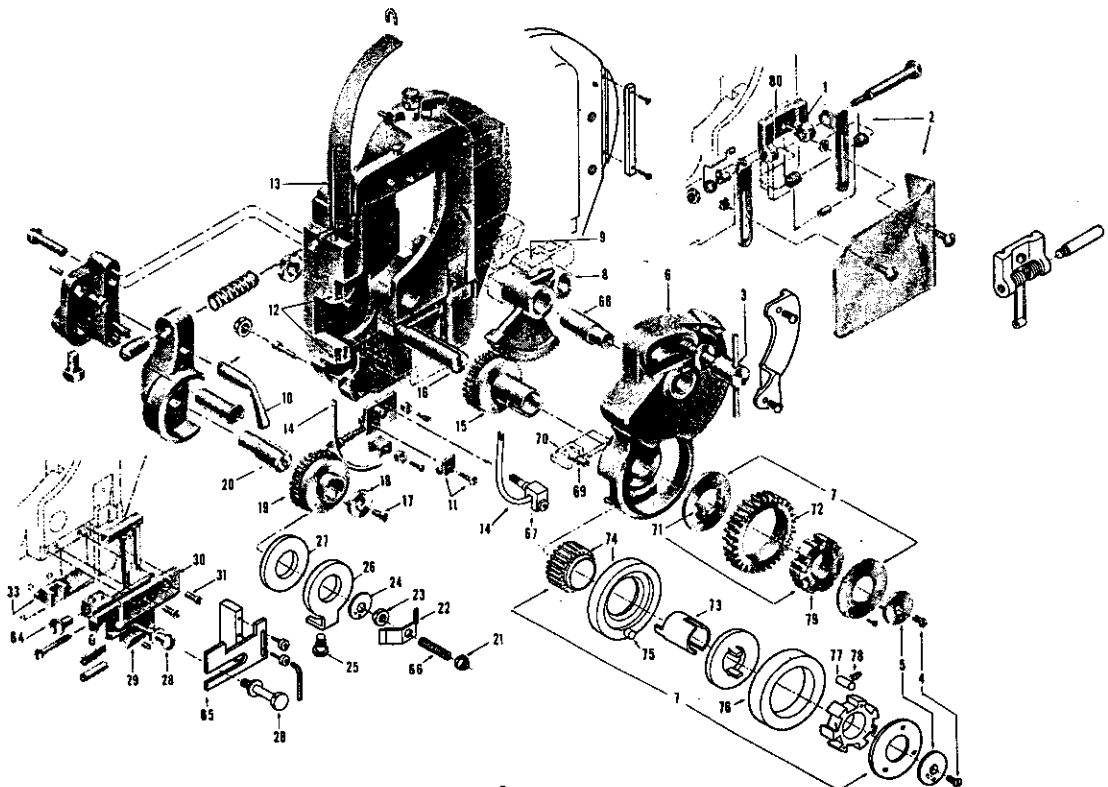


Figure 21—Disassembling and Reassembling Stitcher Head

control slide (33). (The long and extra long wire draw heads (Models BHL, BHX, BHOL and BHL485) are not equipped with the control slide).

11—Unscrew and withdraw the gripper pivot screw (34), permitting the removal of the gripper assembly (35) from the head plate.

The preceding steps outline the procedure for removing wire feed, wire cutting, and gripper assemblies. For removal of wire forming and driving assemblies, proceed as per the following instructions.

b. HOW TO REMOVE WIRE FORMING AND DRIVING ASSEMBLIES (See Fig. 21).

12—Remove the three screws securing the head to the machine frame, and carefully remove head from frame; remove driver bar link (36) and former slide roller (37).

13—Remove supporter spring bracket screws (38), and remove supporter spring bracket (39) from head plate.

If head being disassembled is equipped with wide crown type of supporter unit, remove screws (81) and remove former slide plates (82) and (83) from head plate.

If head being disassembled is the RSCA #485 Stitcher Head (Model BH485 or BHL 485), remove the attaching screws (43) and remove the left and right hand supporter brackets (44) and (45) from the head plate.

14—Remove cutter block trip crank holding screw (46), and withdraw trip crank (47) from head plate.

15—The former slide (48), driver bar (49), and gripper clamp piece control slide (50), can now be removed from the head plate. The supporter (55) and (56), is removed from the former slide (48) by driving out the supporter pivot pin (57) and (58).

If head is equipped with the wide crown supporter unit, remove the attaching screws (40) and (41), and remove supporter box (42) from the former slide.

16—To remove the driver bar (49) from the former slide (48), remove the left hand former (51) and driver (52), permitting the driver bar to be separated from the former slide.

17—Remove the wire feed operating link (53) from the operating lever (54); swing the wire feed operating lever (54) to its vertical position and remove the lever from the front of the head plate.

c. HOW TO REINSTALL WIRE FORMING AND DRIVING ASSEMBLIES (See Fig. 21).

1—Replace wire feed operating lever (54) thru front opening of head plate with pivot stud (59) inserted in hole in head plate; swing operating lever to horizontal position and replace operating link (53) on operating lever crank stud (60).

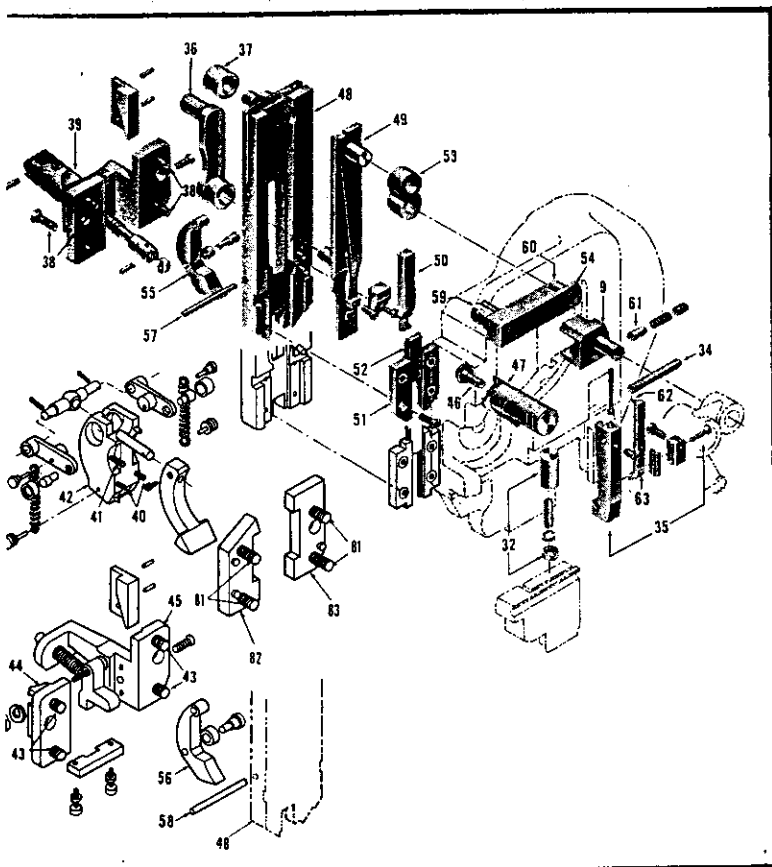
2—Insert gripper clamp piece control slide (50) into its slot in rear of head plate with slide upper notch engaged with friction bolt (61).

3—If driver bar has been removed from former slide, reassemble driver bar (49), formers (51), and driver (52) on former slide (48); if supporter, (55) or (56), has been removed from former slide (48), reinstall supporter and its pivot pin, (57) or (58), in former slide, or if head is for a wide crown staple, assemble supporter box (42) to former slide (48) with screws (40) and (41); install the assembled unit in rear of head plate, with driver bar (49) upper stud engaged in wire feed operating link (53).

4—Insert cutter block trip crank (47) into its hole in rear of head plate, and then replace and tighten trip crank holding screw (46).

5—Install supporter spring bracket (39), former slide plates (82) and (83), or supporter left and right hand brackets (44) and (45), (depending upon type of head being assembled), on rear of head plate; tighten the four attaching screws securely.

6—Place former slide roller (37) on former slide (48) stud, and driver bar link (36) on driver bar (49) lower stud. With stitcher machine in stop position, position head on machine frame so that driver bar link (36) enters hole in



stitcher machine drive cam, and former slide roller (37) enters groove in drive cam. Make sure that head locating dowels are engaged in corresponding holes in machine frame, and then replace and securely tighten the three attaching screws.

If the wire feed, wire cutting, and gripper assemblies have been removed from the head, re-install those parts as follows:

d. HOW TO REINSTALL WIRE FEED, WIRE CUTTING, AND GRIPPER ASSEMBLIES (See Fig. 21).

7—Position gripper assembly (35) in its opening in front of head plate, making sure that upper stud (62) of gripper clamp piece (63) engages in slot in clamp piece control slide (50); then, insert and tighten gripper pivot screw (34).

8—Insert cutter block operating plunger (32) into its hole in head plate, and, if head being assembled is either the short or standard wire draw head, place cutter block control slide (33) into its slot in head plate then, replace the cutter block holding plate (30) onto the head plate, and replace and tighten the two holding screws (31).

9—Install the cutter block assembly (29) onto its holding plate (30). If head being assembled is either the short or standard wire draw head, position the cutter block assembly so that the head of the cutter block adjusting screw (64) engages in the first (left) slot in the cutter block control slide (33). Replace and tighten cutter block holding screw (28). If head being assembled is either the long or extra long wire draw type (Model BHL, BHX, BHOL or BHL485), place the wire guide unit (65) into position on the cutter block and then replace its holding screw and washer.

10—Slip wire feed idler gear (19) onto its stud (20), and replace retaining washer (18) and screw (17). If head being assembled is either the long or extra long wire draw type (Model BHL, BHX, BHOL or BHL485), slip wire feed idler gear (19) onto its stud (20). If idler gear stud screw (66) has been removed, replace and tighten screw. Then, slip brake friction (27) and friction plate (26) onto idler gear hub, and tighten friction plate screw (25). Replace retaining washer (24) and nut (23), and tighten nut securely. Slip brake friction spring (22) onto idler gear stud screw, and replace and tighten brake tension nut (21). (After head has been completely assembled, adjust brake tension as directed in para. 8 on page 11.)

11—Slip wire feed drive gear (15) onto its stud (16), making sure that gear is in complete engagement with idler gear (19).

12—Push the upper and lower wire tubes, (13) and (14), into operating position, and then tighten the two wire tube screws (12).

13—Replace the lower wire tube clamp (11) on wire straightener, and tighten its holding screw. (Since the RSCA #485 Stitcher head (Model BH485) is not equipped with a wire straightener, the lower wire tube clamp is of a different type, as shown at (67). This clamp does not require removal for disassembly of the head.)

14—Place wire feed operating lever sliding head (9) onto the operating lever (54); install wire feed crank sector (8), with sliding head pin engaged in crank hole of wire feed crank sector.

15—Slip wire feed guard (6) onto wire feed drive gear (15) hub, with guard stud (68) inserted into wire feed crank sector (8). If head is either the short or standard draw, make sure that guard stop stud (69) engages in cutter block control slide (33), as shown at (70).

16—Slip wire feed clutch assembly (7) onto drive gear (15) hub, with clutch spider (71) keying into notch in hub of drive gear (15), and clutch ring gear (72) meshing with crank sector (8). Then, replace retaining washer and screw (5) and (4).

If head being assembled is either the long or extra long draw type (Model BHL, BHX, BHOL or BHL485), slip wire feed clutch connecting sleeve (73) onto drive gear stud (16), making sure that it keys into notch in hub of drive gear (15). Slip wire feed clutch flange and gear (74) onto connecting sleeve (73) and hub of drive gear (15), so that gear meshes with crank sector (8). Then slip remaining parts of wire feed clutch assembly (7) onto wire feed clutch connecting sleeve (73), with clutch spider keying into notch in connecting sleeve, and clutch flange stud (75) engaged in hole in clutch ring (76). Replace retaining washer and screw (5) and (4).

NOTE

If clutch assembly (7) has been disassembled, make sure that clutch rollers and springs (77) and (78) are reassembled in spider as shown in illustration at (79).

17—Replace and tighten wire feed guard lock screw and washer (3).

18—Replace gripper spring bracket and finger guard unit (2), making sure that bracket (80) keys into slot in head plate; tighten holding screw (1) securely.

This unit on the RSCA #485 Stitcher head (Model BH485 or BHL485) is not equipped with the finger guard parts.

19—After the head has been completely reassembled, as directed in the above instructions, turn over machine by hand and check that all parts operate freely. After making certain that parts operate freely, connect stitcher power cord, thread wire on head, and make a check run of the stitcher head.

2. COMPONENT PARTS

The Parts List and accompanying exploded views of the head, Fig. 22 and 23, identify all component parts of the following models of BOSTITCH Bliss Stitcher Heads:

<i>Model Symbol</i>	<i>Description of Model</i>
BHS	Short Wire Draw— $\frac{1}{2}$ " to $1\frac{1}{2}$ "
BH	Standard Wire Draw— $\frac{7}{8}$ " to $1\frac{1}{2}$ "
BHL	Long Wire Draw— $1\frac{5}{16}$ " to $2\frac{3}{8}$ "
BHX	Extra Long Wire Draw— $1\frac{5}{8}$ " to $3\frac{1}{2}$ "
BHN	Narrow Crown—Short Wire Draw
BHO	Openhead—Standard Wire Draw
BHOL	Openhead—Long Wire Draw
BHM	S13E Metal Stitcher—Standard Wire Draw
BHMB	S13E Metal Stitcher with Bracket Type Clincher—Standard Wire Draw
BHC	Caddy Stitcher—Standard Wire Draw
BH485	Head for #485 Stitcher—Standard Wire Draw
BHL485	Head for #485 Stitcher—Long Wire Draw

As previously explained in the Description section of this book, all BOSTITCH Bliss Stitcher Heads are basically similar. However, variations do occur in some of the component parts, due to adapting the basic head to the four different wire draw types of heads, as well as adapting the head for use on particular models of Stitchers.

All parts listed are common to all of the above models of heads except where otherwise noted in the Parts List and accompanying illustrations. Those parts illustrated in line drawing in the accompanying illustrations, Fig. 22 and 23, are parts or assemblies used in heads other than the Standard Wire Draw head.

The component parts illustrated in the exploded views, Fig. 22 and 23, are identified by "Index Numbers" (circled numbers); these numbers are listed numerically in the first column of the accompanying Parts List.

NOTE

The Index Numbers are not to be confused with the Parts Numbers, and serve only as a means of keying the illustrations to the Parts List. When ordering parts, order the required part by Part Number and not by Index Number.

The second column of the Parts List gives the Name and Description of the parts. Where there is more than one Part Number listed for a given Index Number, the Description (wire draw, type or size of wire, width of crown, or other identifying characteristics) serves to locate the required part number.

It will be noted that in the Name and Description column (second column) of the parts list, certain parts are designated as an Assembly, as for instance, "Wire Feed Clutch Assembly" (Refer to Index Number 89 in the Parts List.) All those parts immediately following the part designated as an assembly, and indented in the Name and Description column, make up the assembly; if the Assembly part number is ordered, all of those parts will be shipped assembled. In the case of this assembly, all those parts listed from Index No. 90 to 95 would be shipped assembled if the Assembly part number, 75H2, were ordered. However, any one of the individual parts of the assembly may be purchased separately, if desired.

Some parts, while not designated as assemblies, are made up of two or more parts, as in the case of the "Gear Arm Holding Plate," Index No. 101. If the "Gear Arm Holding Plate" part number were ordered (Part No. 58H), those parts immediately following and indented in the Name and Description column (Index Nos. 102 to 104), would be shipped attached to the Gear Arm Holding Plate. However, any one of the individual parts may be purchased separately, if desired.

NOTE

Those parts designated by an asterisk (*) preceding the name of the part are parts that, due to their nature or setting requirements, should be installed by a BOSTITCH service man.

The third column of the Parts List gives the Part Numbers of all procurable parts, and it is this number that must be specified when ordering a required part.

3. HOW TO IDENTIFY AND ORDER A PART

a. Locate the required part in the exploded views of the head, Fig. 22 and 23, and note the Index No. (circled number) identifying the part in the illustration.

b. Locate the part Index No. in the first column of the Parts List.

c. Copy the Part Number listed for that particular part as given in the Part No. column (third column) of the Parts List.

d. When more than one Part Number is listed for a given Index Number, locate the part description, in the Name and Description (second) column of the Parts List, that conforms with the specifications of the required part; then copy the Part No. given for that particular part description.

e. Order the required part, or assembly, by specifying the Part Number exactly as given in the Parts List.

BOLTS TO MOUNT BLISS
 (5) 7/16-14 2 1/2" LONG

UA7140.1

This illustration shows component parts of Wire Feeding and Cutting Units, Index Nos. 1 thru 149. For following numbers, Gripper, Forming, and Driving Units, see Fig. 23.

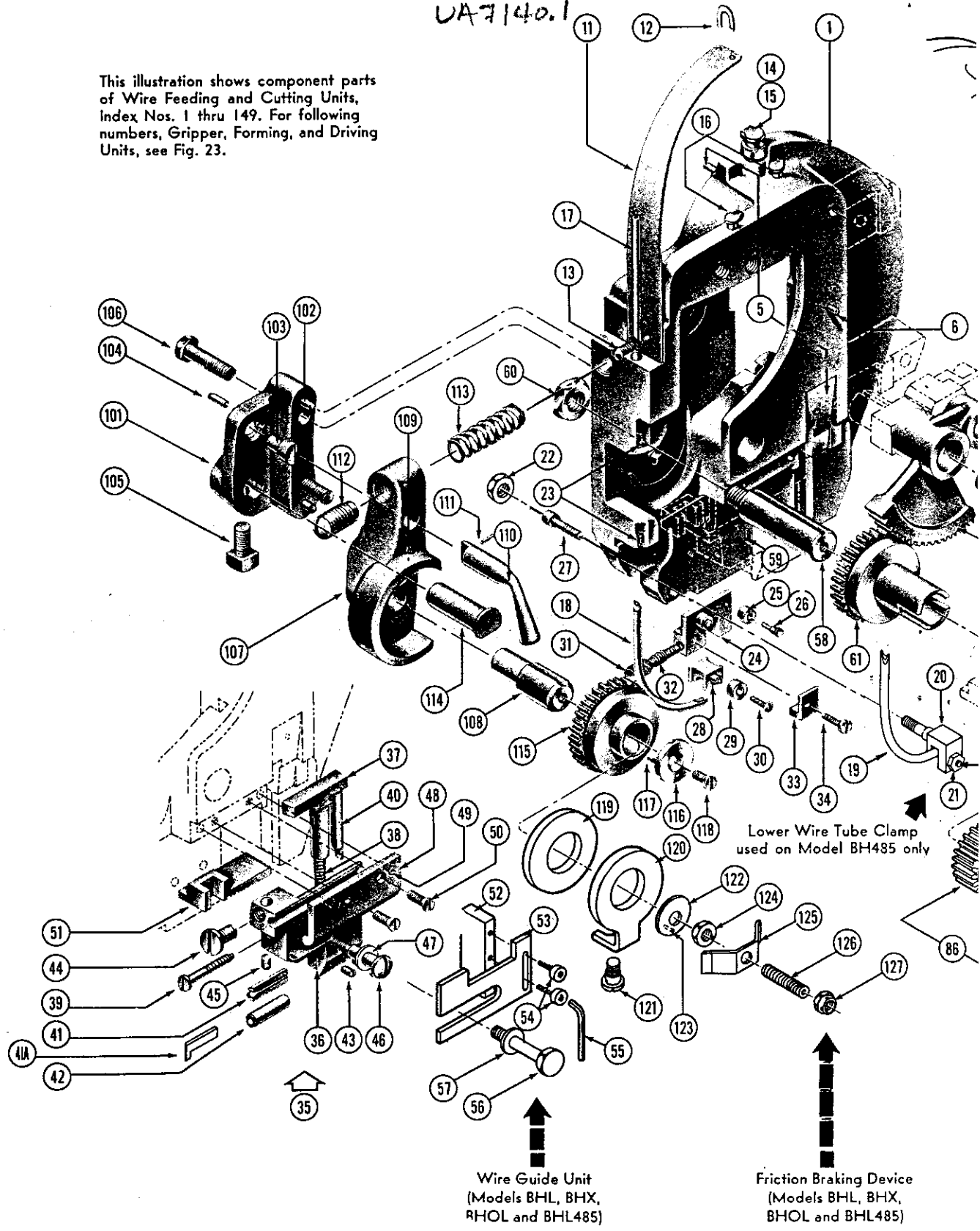


Figure 22—Stitcher Head Component Part

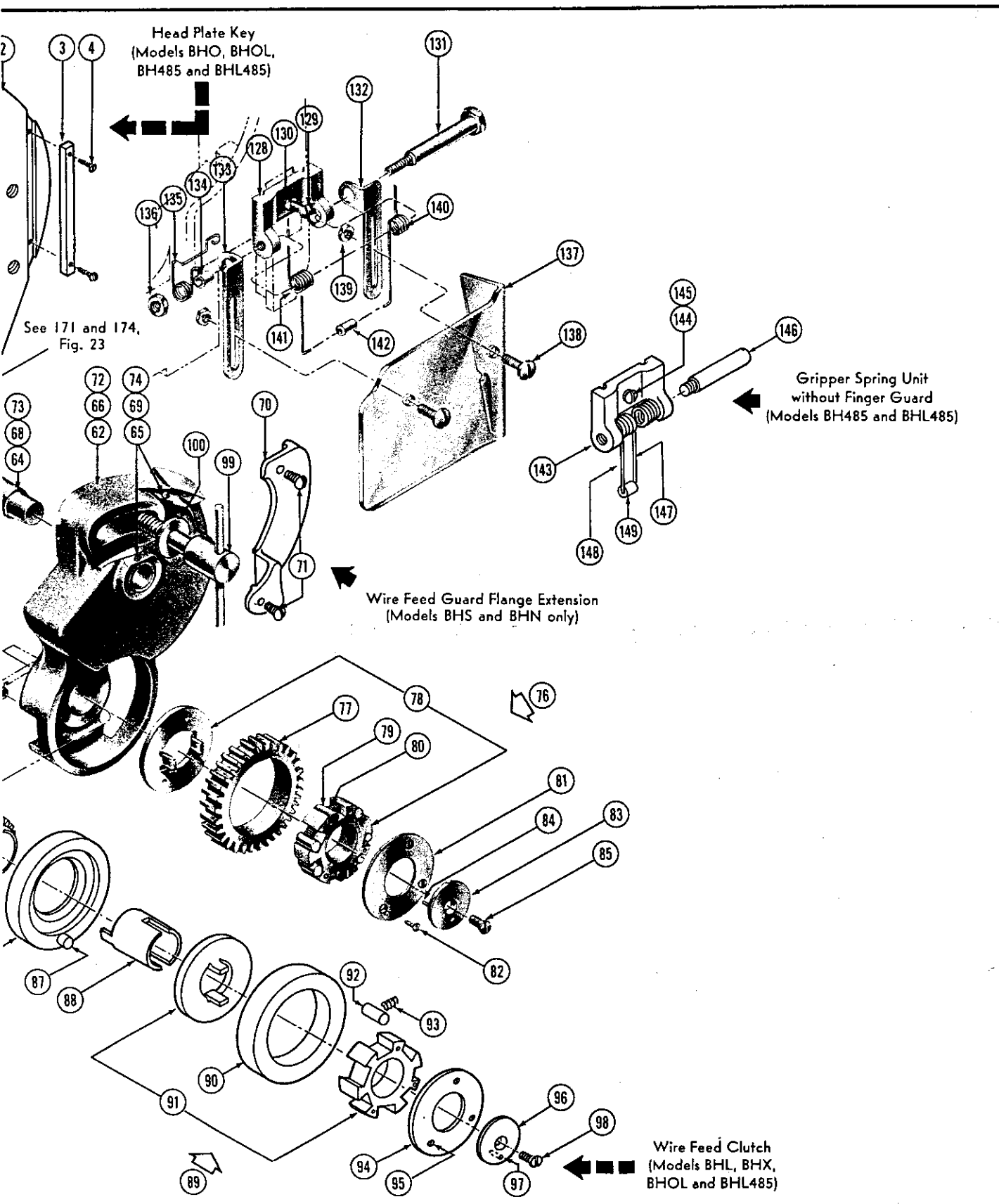
Head Plate Key
(Models BHO, BHOL,
BH485 and BHL485)

See 171 and 174,
Fig. 23

Gripper Spring Unit
without Finger Guard
(Models BH485 and BHL485)

Wire Feed Guard Flange Extension
(Models BHS and BHN only)

Wire Feed Clutch
(Models BHL, BHX,
BHOL and BHL485)



-Wire Feeding and Cutting Assemblies

PARTS LIST

For parts identified by Index Nos. 1 to 149 inclusive
see Fig. 22 on pages 24 and 25

Index No.	Name and Description	Part Number	Index No.	Name and Description	Part Number
1	Head Plate— Model BHN and BHS50H20 Model BH and BHM50H Model BHL and BHX (3/8" thru 1 1/8" Crown)..50H16 Model BHL and BHX (1 1/4" Crown)50H9 Models BHL and BHX (1 3/8" crown)50H10B Model BHMB50H15 Model BHC50H3		20	Lower Wire Tube Holding Clamp—Model BH485 Only251424	
2	Head Plate— Models BHO and BH485..50H2 Models BHOL and BHL485..50H17		20A	Lower Wire Tube Retaining Screw—Model BH485 OnlyUA3808.5	
3	Head Plate Key— Models BHO, BHOL, BH485 and BHL48550X2H2		21	Lower Wire Tube Retaining Screw Nut—Model BH485 OnlyHN1032	
4	Head Plate Key Screw— Models BHO, BHOL, BH485 and BHL485UA1408.1		22	Lower Wire Tube Hold- ing Clamp Nut—Model BH485 OnlyHN1420.2	
5	Head Locating DowelBD350		23	Wire Tube ScrewSB401	
6	Wire Feed Guard Stop Pin 184-291		24	Wire Straightener Plate931H3	
11	Spring Wire Guide— All Models except BH485 and BHL48588H		25	Wire Straightener Roll— Upper Stationary935H3	
12	Spring Wire Guide LoopBF50		26	Wire Straightener Upper Roll Stud938H2	
13	Spring Wire Guide Screw ..UA3308.2		27	Wire Straightener Plate ScrewUA4812.2	
*13A	Oiler Felt Retainer2166		28	Wire Straightener Slide Block947H	
*13B	Oiler Felt2167		29	Wire Straightener Roll— Lower Adjustable — Ribbon, Hybar, and Flat Wire936H3 Round Wire936H4	
*13C	Oiler Felt Retainer.....69H		30	Wire Straightener Roll ScrewUA2308.2	
*13D	Oiler Felt70H		31	Wire Straightener Adjusting Screw— All Models except BH485 and BHL485UA4016.2 Model BHL48525670	
*13E	Oiler ScrewUA3820		32	Wire Straightener Adjusting Screw Friction Spring All Models except BH4859069	
14	Oiler85220		33	Lower Wire Tube Clamp— All Models except BH- 485 (see Index No. 20)..946H2	
15	Oiler—Model BHM and BHMB Only85216		34	Lower Wire Tube Clamp Screw—All Models ex- cept BH485UA2210.1	
16	Oiler85202				
17	Upper Wire Tube— Ribbon Wire87H Hybar, Flat, and Round Wire87H2				
18	Lower Wire Tube— Ribbon Wire — All Models except BH485 (see Index No. 19) 85H8 Hybar, Flat, and Round Wire85H9				
19	Lower Wire Tube—Ribbon Wire—Model BH485 Only85H				

Not Used on Model BH485

Models BH485 and BHL485
All Models except
BH485 and BHL485

*Not shown on Fig. 21 & 22.

<i>Index No.</i>	<i>Name and Description</i>	<i>Part Number</i>
35	Cutter Block Assembly— All Models except BHX, BHS, and BHN— Ribbon Wire— Square Cut Off 100H44 45° Sharp Stitch 100H45 Hybar and Flat Wire— Square Cut Off 100H47 45° Sharp Stitch 100H54 #16 (.063) Wire— Square Cut Off 100H59 45° Sharp Stitch 100H43 30° Sharp Stitch 100H58 #18 (.0475) and .051 Round Wire— Square Cut Off 100H41 #19 (.041) thru #21 (.032) Round Wire —Square Cut Off 100H49 #22 (.029) thru #27 (.017) Round Wire —Square Cut Off 100H50 Model BHX— Ribbon Wire — Square Cut Off 100H63 45° Sharp Stitch 100H64 Hybar and Flat Wire— Square Cut Off 100H65 45° Sharp Stitch 100H67 #16 (.063) Wire— Square Cut Off 100H68 45° Sharp Stitch 100H69 30° Sharp Stitch 100H70 #18 (.0475) Wire— Square Cut Off 100H66 .088 x .037 Wire Square Cut Off 100H80 Model BHS and BHN Ribbon Wire— Square Cut Off 100H44B	
36	Cutter Block Body 101H25	
37	Cutter Plunger 102H25	
38	Cutter Plunger Spring 103H2	
39	Cutter Plunger Holding Screw UA4021	
40	Movable Cutter— For #18 (.0475) Wire..... 104H23 For all Ribbon, Hybar, Flat and Round Bookbinders Wire other than #18 (.0475) Wire..... 104H25	

<i>Index No.</i>	<i>Name and Description</i>	<i>Part Number</i>
	Cutter Block Ass'y (Cont'd)—	
41	Stationary Cutter (Ribbon, Hybar, and Flat Wire)— All Models except BHX— Ribbon Wire— Square Cut Off 105H44 45° Sharp Stitch 105H45 Hybar and Flat Wire— Square Cut Off 105H47 45° Sharp Stitch 105H54 Model BHX— Ribbon Wire— Square Cut Off 105H63 45° Sharp Stitch 105H64 Hybar and Flat Wire— Square Cut Off 105H65 45° Sharp Stitch 105H67 .088 x .037 Wire Square Cut Off ... 105H80	
41A	Stationary Knife Plate All Models 108H32	
42	Stationary Cutter (Rd. Wire) All Models except BHX #16 (.063) Wire— Square Cut Off 105H59 45° Sharp Stitch 105H43 30° Sharp Stitch 105H58 #18 (.0475) and .051 Round Wire— Square Cut Off 105H41 #19 (.041) thru #21 (.032) Round Wire —Square Cut Off 105H49 #22 (.029) thru #27 (.017) Round Wire —Square Cut Off 105H50 Model BHX— #16 (.063) Wire— Square Cut Off 105H68 45° Sharp Stitch 105H69 30° Sharp Stitch 105H70 #18 (.0475) Wire— Square Cut Off 105H66	
43	Stationary Cutter Screw..... SB403	
44	Cutter Block Adj. Screw..... SB601	
45	Cutter Block Adjusting Screw Lock Screw SB401	
46	Cutter Block Holding Screw All Models except BHL, BHX, BHOL and BHL485 SB407	
47	Cutter Block Holding Screw Washer—Model BHM and BHMB only 228-69	

When ordering part specify Part Number

PARTS LIST (Cont'd)

Index No.	Name and Description	Part Number	Index No.	Name and Description	Part Number
48	Cutter Block Holding Plate— All Models except BHL, BHx, BHOL and BHL485	106H	63	Wire Feed Guard Stop Stud	BF402
	Models BHL, BHx, BHOL and BHL485	106H2	64	Wire Feed Guard Crank Stud	BF902
49	Cutter Block Holding Plate Dowel	BD301	65	Oiler	85225
50	Cutter Block Holding Plate Screw	UA3408.1	66	Wire Feed Guard—Models BHS and BHN	51H20
51	Cutter Block Control Slide— Models BH, BHC, BHM, BHMB, BHO and BH485	107H3	67	Wire Feed Guard Stop Stud	BF402
	Models BHS and BHN	107H20	68	Wire Feed Guard Crank Stud	BF902
52	Wire Guide	45H3	69	Oiler	85225
53	Wire Guide Plate	44H	70	Flange Extension (Used only on Models BHS and BHN)	945H
54	Wire Guide Screw	UA2808.1	71	Flange Extension Screw (Used only on Models BHS and BHN)	UA3306.1
55	Wire Guide Screw Wrench..	BSA52	72	Wire Feed Guard— Models BHL, BHx, BHOL and BHL485	51HS3
56	Cutter Block Holding Screw	UA4024.1	73	Wire Feed Guard Crank Stud	BF902
57	Cutter Block Holding Screw Washer	C496	74	Oiler	85225
58	Wire Feed Drive Gear Stud— Models BH, BHC, BHM, BHMB, BHN, BHO, BHS and BH485.....	78H	75	Wire Feed Crank Sector— Models BHS and BHN.....	53H20
	Models BHL, BHx, BHOL and BHL485	78HS2		Models BH, BHO, BHC, and BH485	53H
59	Wire Feed Drive Gear Stud Pin	BD75		Models BHL, BHOL and BHL485	53HS2
60	Wire Feed Drive Gear Stud Nut	HN1213.2		Model BHx	53HS5
61	Wire Feed Drive Gear— Models BH, BHC, BHN, BHO, BHS and BH485 —Ribbon, Hybar and Flat Wire, or Round Wire .032 and smaller..	80H		Models BHM and BHMB	53H3
	Models BHL, BHx, BHOL and BHL485—Ribbon, Hybar and Flat Wire, or Round Wire .032 and smaller	80H3	76	Wire Feed Clutch Assembly Models BHS, BHN, BH, BHO, BHC, and BH485 ..	75H
	Models BHL, BHx and BHOL — Round Wire #20 (.035) and larger..	80H4		Models BHM and BHMB	75H3
	Models BH, BHM, BHMB, BHN, BHO and BHS— Round Wire #20 (.035) and larger	80H2	77	Clutch Ring Gear— Models BHS, BHN, BH, BHO, BHC, and BH485	71H
62	Wire Feed Guard— Models BH, BHC, BHM, BHMB, BHO and BH485	51H6		Models BHM and BHMB	71H3
			78	Clutch Spider	72H
			79	Clutch Roller	73H
			80	Clutch Roller Spring	74H
			81	Clutch Front Plate	76H
			82	Clutch Front Plate Screw..	UA1404.1
			83	Wire Feed Clutch Retainer Washer	77H
			84	Wire Feed Clutch Retain- er Washer Pin	BD75
			85	Wire Feed Clutch Retainer Washer Screw	UA3408.1

Used only on Models BHL, BHx, BHOL and BHL485

Index No.	Name and Description	Part Number
86	Wire Feed Clutch Flange and Gear— Models BHL, BHOL and BHL485	49HS
	Model BHX Only	49HS2
87	Wire Feed Clutch Flange Stud	BF218
88	Wire Feed Clutch Connecting Sleeve— Models BHL, BHX, BHOL and BHL485	47HS2
89	Wire Feed Clutch Assembly— Models BHL, BHX, BHOL and BHL485	75H2
90	Clutch Ring— Models BHL, BHX, BHOL and BHL485	71HS
91	Clutch Spider	72H
92	Clutch Roller	73H
93	Clutch Roller Spring	74H
94	Clutch Front Plate	76H
95	Clutch Front Plate Screw	UA1404.1
96	Wire Feed Clutch Retainer Washer	77H
97	Wire Feed Clutch Retainer Washer Pin	BD75
98	Wire Feed Clutch Retainer Washer Screw	UA3408.1
99	Wire Feed Guard Lock Screw	52H
100	Wire Feed Guard Lock Screw Washer	BG1114
101	Gear Arm Holding Plate	58H
102	*Gear Arm Holding Plate Locating Pin	BD300
103	*Gear Arm Holding Plate Rod	BF602
104	*Gear Arm Holding Plate Rod Pin	UB3104.1
105	Gear Arm Pivot Lock Screw	UA6510.1
106	Gear Arm Holding Plate Screw	UA6120.1
107	Wire Feed Idler Gear Arm— All Models except BHL, BHX, BHOL and BHL485	54H
	Models BHL, BHX, BHOL and BHL485	54H2
108	Wire Feed Idler Gear Arm Stud— All Models except BHL, BHX, BHOL and BHL485	56H
	Models BHL, BHX, BHOL and BHL485	56H2
109	Oiler	85225
110	*Wire Feed Idler Gear Throwout Handle	55H
111	Throwout Handle Stop Pin	BD150

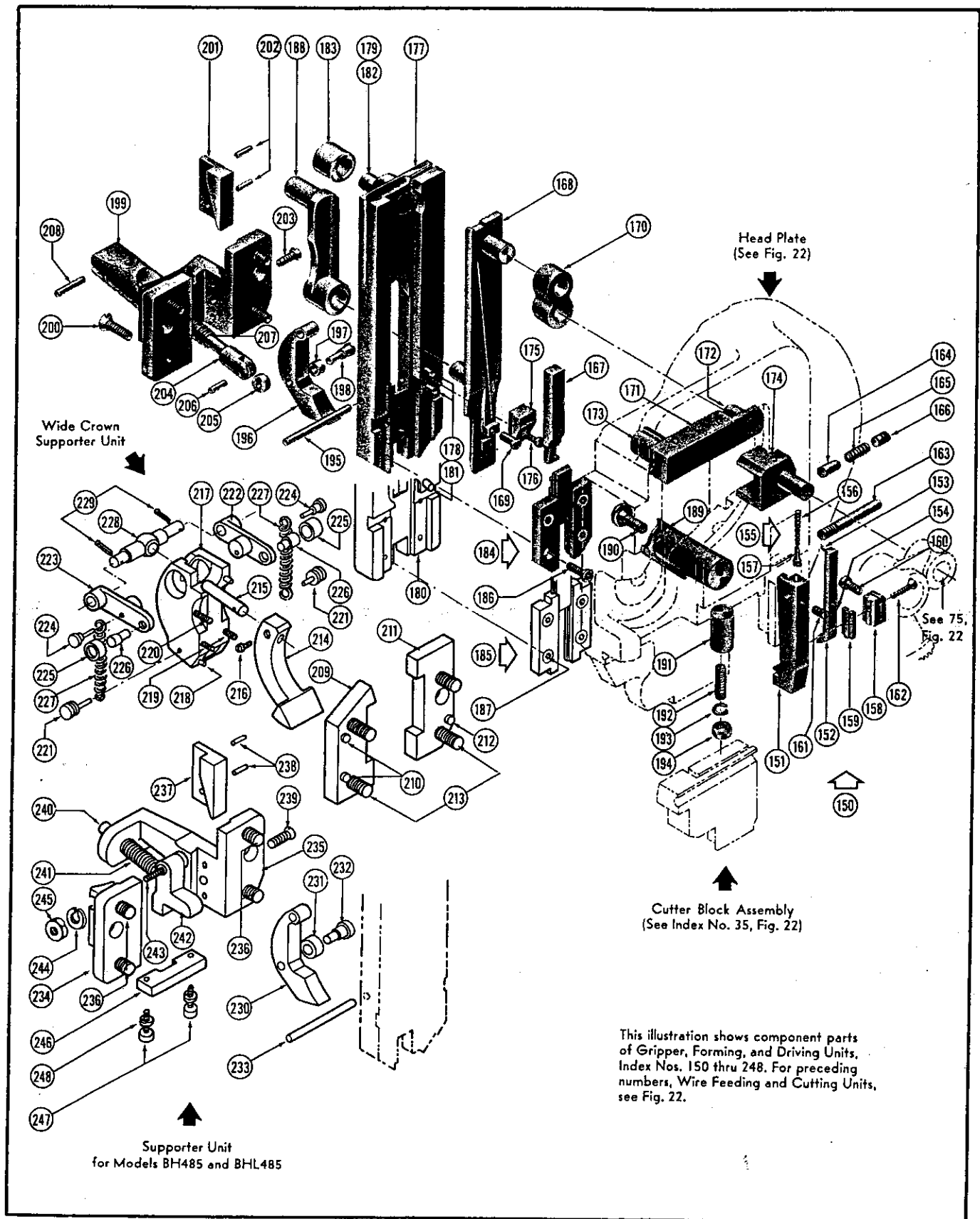
Index No.	Name and Description	Part Number
112	Wire Feed Pressure Adjusting Screw	59H
113	Wire Feed Pressure Tension Spring	60H
114	Wire Feed Idler Gear Arm	
115	Wire Feed Idler Gear	81H2
116	Wire Feed Idler Gear Retaining Washer— All Models except BHL, BHX, BHOL and BHL485	82H
117	Gear Retaining Washer Pin	BD75
118	Wire Feed Idler Gear Retaining Washer Screw	85308
119	Brake Friction	1005H
120	Brake Friction Plate	1006H
121	Brake Friction Plate Screw	1008H
122	Wire Feed Idler Gear Retaining Washer	82H2
123	Gear Retaining Washer Pin	BD75
124	Wire Feed Idler Gear Stud Screw Nut	HN1428.2
125	Brake Friction Spring	1007H
126	Wire Feed Idler Gear Stud Screw	UA4820.4
127	Brake Tension Nut	HN1428.3
128	Gripper Spring Bracket	129H4
129	Gripper Spring Bracket Screw	UA3314.1
130	Gripper Spring Bracket Screw Washer	LW10.4
131	Gripper Spring Pivot	UA4041.1
132	Finger Guard Bracket—R. H.	1000HR
133	Finger Guard Bracket—L. H.	1000HL
134	Gripper Spring Pivot Bushing	7242
135	Finger Guard Spring	1002H
136	Gripper Spring Pivot Nut	HN1420.2
137	Finger Guard	1001H
138	Finger Guard Screw	UA3008.4
139	Finger Guard Screw Nut	HN1032
140	Gripper Spring R. H.	129H3R
141	Gripper Spring L. H.	129H3L
142	Gripper Spring Roll	129H6
143	Gripper Spring Bracket—Models BH485 and BHL485	129H4
144	Gripper Spring Bracket Screw — Models BH485 and BHL485	UA3314.1
145	Gripper Spring Bracket Screw Washer — Models BH485 and BHL485	LW10.4
146	Gripper Spring Pivot—Used only on Models BH485 and BHL485	129H5
147	Gripper Spring R.H.—Model BH485 and BHL485	129H3R
148	Gripper Spring L.H.—Model BH485 and BHL485	129H3L
149	Gripper Spring Roll—Model BH485 and BHL485	129H6

Used only on Models BHL, BHX, BHOL and BHL485
 All Models except BH485 and BHL485

* Part should be installed by BOSTITCH service man

PARTS LIST Continued on page 31

When ordering part specify Part Number



**Figure 23—Stitcher Head Component Parts
Gripper, Wire Forming, and Driving Assemblies**

PARTS LIST (Cont'd)

Following parts, Index Nos. 150 to 248, inclusive,
are shown in Fig. 23, page 30

Index No.	Name and Description	Part Number	Index No.	Name and Description	Part Number
150	Gripper Assembly—		159	Gripper Assembly (Cont'd)	
	.175 Crown	119H7 119H7C		Gripper Bar Adjusting	
	.190 "	119H21 —		Screw Clamp Block	
	1/4 "	119H13 119H13B		Spacer (For 1 1/8, 1 1/4,	
	.290 "	119H3 119H3B		& 1 3/8 Crowns Only)..	125H2
	3/8 "	119H2 119H2B	160	Gripper Bar Adjusting	
	7/8 "	119H 119HB		Screw	124H
	1/2 "	119H6 119H6B	161	Gripper Bar Clamp Piece	
	5/8 "	119H12 119H12B		Spring Retaining Screw..	SB301
	3/4 "	119M 119MB	162	Gripper Clamp Block	
	1 1/8 "	119H8 —		Holding Screw (For all	
	1 1/4 "	119H15 —		Crowns other than 1 1/8,	
	1 1/4 "	119H15B (.088 x		1 1/4 & 1 3/8)	SB315
	1 3/8 "	119H10 —	162	Gripper Clamp Block	
151	Gripper Bar—			Holding Screw (For 1 1/8,	
	.175 Crown	120H7 120H7C		1 1/4 & 1 3/8 Crowns	
	.190 "	120H21 —		Only	UA3014.1
	1/4 "	120H13 120H13B	163	Gripper Pivot Screw	SB406
	.290 "	120H3 120H3B	164	Gripper Clamp Piece Con-	
	3/8 "	120H2 120H2B		trol Slide Friction Bolt..	127H
	7/8 "	120H 120HB	165	Gripper Clamp Piece Con-	
	1/2 "	120H6 120H6B		trol Slide Friction	
	5/8 "	120H12 120H12B		Spring	128H
	3/4 "	120M 120MB	166	Gripper Clamp Piece Con-	
	1 1/8 "	120H8 —		trol Slide Friction Ad-	
	1 1/4 "	120H15 —		justing Screw	SB602
	1 1/4 "	120H15B (.088 x	167	Gripper Clamp Piece Con-	
	1 3/8 "	120H10 —		trol Slide	126H2
152	Gripper Bar Clamp Piece—		168	Driver Bar—	
	.175 Crown	121H7 121H7C		All Models except BHM	
	.190 "	121H13 —		and BHMB	
	1/4 "	121H13 121H13B		.175 Crown	113H7
	.290 "	121H3 121H3B		.190 "	113H7
	3/8 "	121H2 121H2B		1/4 "	113H41
	7/8 "	121H 121HB		.290 "	113H41
	1/2 "	121H 121HB		3/8 thru 1 3/8	113H21B —
	5/8 "	121H12 121H12		Models BHM and BHMB	
	3/4 "	121M 121MB		only	113H21C
	1 1/8 "	121M —	169	Driver Bar Lock Stud.....	BF311
	1 1/4 "	121M —	170	Wire Feed Operating Link	
	1 3/8 "	121H10 —		All Models except BHL,	
153	Gripper Bar Clamp			BHX, BHOL and	
	Piece Stud	BF53		BHL485	66H
154	Gripper Bar Clamp			Models BHL, BHX,	
	Piece Stud	BF51		BHOL and BHL485.....	66H2
155	Gripper Bar Clamp Piece		171	Wire Feed Operating Lever	67H
	Spring Assembly	122H	172	Wire Feed Operating	
156	Gripper Bar Clamp			Lever Crank Stud	BF702
	Piece Spring	122X1H	173	Wire Feed Operating	
157	Gripper Bar Clamp			Lever Pivot Stud	BF903
	Piece Spring Plug	BG150			
158	Gripper Bar Adjusting				
	Screw Clamp Block	125H			

(Cont'd on pg. 32)

When ordering part specify Part Number

PARTS LIST (Cont'd)

<i>Index No.</i>	<i>Name and Description</i>	<i>Part Number</i>
174	Wire Feed Operating Lever Sliding Head	68H
175	Gripper Throwout Cam Block—	
	.175 thru 1/2 Crown....	123H10
	5/8 and 3/4 "	123M
	1 1/8 "	123H9
	1 1/4 and 1 3/8 "	123H8
176	Gripper Throwout Cam Block Screw—	
	.175 thru 1/2 Crown....	UA3806.3
	5/8 and 3/4 "	SB316
	1 1/8 "	UA3210.1
	1 1/4 and 1 3/8 "	UA2210.1

<i>Index No.</i>	<i>Name and Description</i>	<i>Part Number</i>
177	Former Slide—All Models except BHM and BHMB	
	.175 Crown	110H7
	.190 thru 7/8 Crown....	110H13
	1/2 Crown	110H6
	5/8 and 3/4 Crown	110H12
	1 1/8 Crown	110X1H8
	1 1/4 and 1 3/8 Crown....	110X1H10
178	Former Slide Dowel	BD250
179	Former Slide Driving Stud —(Supplied as part of Former Slide)	BF1102
180	Former Slide —Model BHX	
	1 1/4—1 3/8 Crown	110H25
180	Former Slide — Models BHM and BHMB only	110H21
181	Former Slide Dowel	BD250
182	Former Slide Driving Stud—(Supplied as part of Former Slide)	BF1102
183	Former Slide Roller	111H2

Index No. 184 *Name and Description*
Formers and Driver—All Models except BHM and BHMB, and Specials listed below

	<i>Part Number</i>	
<i>L.H. Former</i>	<i>Driver</i>	<i>R.H. Former</i>

Ribbon Wire

.103 x .028 Wire			
7/8 Crown	116H135	117H135	115H135
.103 x .023 Wire			
1/4 Crown	116H173	117H173	115H173
3/8 "	116H57	117H107	115H57
7/8 "	116H55	117H108	115H55
5/8 "	116H193	117H193	115H193
3/4 "	116H106	117H106	115H106
.103 x .020 Wire			
1/4 Crown	116H173	117H173	115H173
3/8 "	116H26	117H151	115H26
7/8 "	116H34	117H150	115H34
5/8 "	116H164	117H164	115H164
3/4 "	116H179	117H179	115H179
1 3/8 "	116H10	117H98	115H10
.103 x .017 Wire			
3/8 Crown	116H26	117H151	115H26
7/8 "	116H34	117H150	115H34
1/2 "	116H87	117H87	115H87
5/8 "	116H164	117H164	115H164
3/4 "	116H179	117H179	115H179
1 1/4 "	116H113	117H113	115H113
1 3/8 "	116H10	117H98	115H10
.103 x .014 Wire			
.290 Crown	116H75	117H64	115H75
7/8 "	116H32	117H136	115H32
1/2 "	116H87	117H87	115H87
5/8 "	116H99	117H99	115H99
1 1/4 "	116H113	117H113	115H113

Flat Wire

.088 x .037 Wire			
1 1/4 Crown	116H216	117H216C	115H216

Hybar Wire

#3 (.060 x .028) Wire			
3/8 Crown	116H71	117H111	115H71
7/8 "	116H62	117H138	115H62

Index No.	Name and Description	Part Number		
		L.H. Former	Driver	R.H. Former
184 (Cont'd)	Formers and Driver (Cont'd)			
	Hybar Wire (Cont'd)			
	#2 (.060 x .024) Wire			
	.190 Crown	116H171	117H171	115H171
	1/4 "	116H154	117H154	115H154
	.290 "	116H56	117H56	115H56
	3/8 "	116H71	117H111	115H71
	7/8 "	116H62	117H138	115H62
	1/2 "	116H81	117H65	115H81
	1 1/8 "	116H102	117H102	115H102
	#1 (.060 x .020) Wire			
	.190 Crown	116H171	117H171	115H171
	1/4 Crown	116H115	117H115	115H115
	.290 "	116H54	117H54	115H54
	3/8 "	116H39	117H123	115H39
	7/8 "	116H33	117H139	115H33
	1/2 "	116H81	117H65	115H81
	1 "	116H209	117H209	115H209
	1 1/8 "	116H102	117H102	115H102
	#000 (.060 x .017) Wire			
	1/4 Crown	116H115	117H115	115H115
	.290 "	116H52	117H52	115H52
	3/8 "	116H83	117H83	115H83
	7/8 "	116H53	117H53	115H53
	Flat Bookbinder's Wire			
	18 x 20 (.0475 x .035) Wire			
	.290 Crown	116H92	117H3S2C	115H92
	3/8 "	116H79	117H124	115H79
	7/8 "	116H67	117H140	115H67
	1/2 "	116H61	117H6S2B	115H61
	3/4 "	116H170	117H170	115H170
	19 x 2 1/2 (.041 x .030) Wire			
	7/8 Crown	116H68	117H1S4H	115H68
	20 x 23 (.035 x .025) Wire			
	.290 Crown	116H76	117H3S2	115H76
	3/8 "	116H74	117H125	115H74
	7/8 "	116H69	117H141	115H69
	20 x 24 (.035 x .023) Wire			
	.290 Crown	116H76	117H3S2	115H76
	3/8 "	116H74	117H125	115H74
	7/8 "	116H69	117H141	115H69
	1/2 "	116H65	117H6S2C	115H65
	3/4 "	116H158	117H158	115H158
	20 x 25 (.035 x .0204) Wire			
	.175 Crown	116H101	117H101	115H101
	1/4 "	116H117	117H117	115H117
	.290 "	116H88	117H3S2B	115H88
	3/8 "	116H74	117H125	115H74
	7/8 "	116H69	117H141	115H69
	1/2 "	116H65	117H6S2C	115H65
	3/4 "	116H158	117H158	115H158
	22 x 26 (.028 x .018) Wire			
	3/8 Crown	116H73	117H126	115H73
	Round Bookbinder's Wire			
	#16 (.063) Wire			
	1/4 Crown	116H191	117H191	115H191
	3/8 "	116H80	117H2S5F	115H80
	7/8 "	116H37	117H1S4E	115H37
	3/4 "	116H174	117H175	115H174

(Cont'd on following page)

PARTS LIST (Cont'd)

Index No. 184 (Cont'd)	Name and Description	Part Number		
		L.H. Former	Driver	R.H. Former
	Formers and Driver (Cont'd)			
	Round Bookbinder's Wire (Cont'd)			
	#18 (.0475) Wire			
	3/8 Crown METAL STITCHER	116H64	117H2S5H	115H64
	1/8 "	116H60	117H1S4D	115H60
	1/2 "	116H94	117H6S2D	115H94
	5/8 "	116H105	117H105	115H105
	#19 (.041) Wire			
	3/8 Crown	116H89	117H2S5J	115H89
	1/8 "	116H58	117H145	115H58
	#20 (.035) Wire			
	.175 Crown	116H82	117H7S2D	115H82
	1/4 "	116H104	117H104	115H104
	3/8 "	116H72	117H129	115H72
	1/8 "	116H29	117H146	115H29
	#21 (.032) Wire			
	1 Crown	116H95	117H95	115H95
	#23 (.026) Wire			
	1/8 Crown	116H93	117H1S4K	115H93
	3/4 "	116H172	117H172	115H172
	#25 (.0204) Wire			
	.175 Crown	116H160	117H160	115H160
	3/8 "	116H41	117H131	115H41
	1/8 "	116H30	117H148	115H30
	1/2 "	116H96	117H6S2E	115H96
	3/4 "	116H186	117H186	115H186
	Special—Shopping Bag Handles			
	Flat Wire			
	20 x 24 (.035 x .023) Wire			
	3/8 Crown	116H74	117H114	115H74
	Special—Glove Stitch			
	Flat Wire			
	19 x 21 1/2 (.041 x .030) Wire			
	1/4 Crown	116H84	117H7S2E	115H84
	.078 x .028 Wire Size			
	1/4 Crown	116H165	117H7S2J	115H165
	.078 x .022 Wire Size			
	1/4 Crown	116H78	117H7S2B	115H78
	.077 x .023 Wire Size			
	1/4 Crown	116H78	117H7S2B	115H78
	.073 x .024 Wire Size			
	1/4 Crown	116H78	117H7S2B	115H78
	Special—Stockinette Stitch			
	Flat Wire			
	18 x 20 (.0475 x .035) Wire			
	.175 Crown	116H7S1	117H7S2	115H7S1
	3/8 "	116H79	117H7S2F	115H79
	20 x 25 (.035 x .0204) Wire			
	.175 Crown	116H7S1B	117H7S1B	115H7S1B
	Hybar Wire			
	#1 (.060 x .020) Wire			
	3/8 Crown	116H39	117H7S2H	115H39
185	Formers and Driver—Models BHM and BHMB Only			
	Round Wire			
	.051 Wire Size			
	3/8 Crown	115H169	117H169 (Standard)	115H169 (Short)
	#18 (.0475) Wire			
	3/8 Crown	115H183	117H183 (Standard)	115H183 (Short)

Index No.	Name and Description	Part Number
186	Former Screw— For use with Former Slides Nos. 110H6, 110H7, 110H12, and 110H13	UA3410.4
	For use with Former Slides Nos 110H8 and 110H10	UA2808.1
187	Former Screw—For use with Former Slide No. 110H21	UA3808.1
188	Driver Bar Link	114H
189	Cutter Block Trip Crank	97H
190	Cutter Block Trip Crank Holding Screw	SB405
191	Cutter Block Operating Plunger	98H2
192	Cutter Block Operating Plunger Adjusting Screw	SB416
193	Adjusting Screw Lock Washer	LW14
194	Adjusting Screw Nut	BG612
195	Supporter Pivot Pin	BD342
196	Supporter—.175 thru $\frac{1}{8}$ Crowns Only (For Model BH485 see Index No. 230. For larger Crown Sizes see Index No. 214)	
	.175 Crown	64H7
	.190 "	64H21
	$\frac{1}{4}$ "	64H13
	.290 "	64H3
	$\frac{3}{8}$ "	64H2
	$\frac{1}{2}$ "	64H
197	Supporter Roll	BG408
198	Supporter Roll Stud	BF222
199	Supporter Spring Bracket	61H2
200	Supporter Spring Bracket Screw	UA4412.1
201	Supporter Cam	63H2
202	Supporter Cam Dowel	184-557
203	Supporter Cam Screw	UA3408.1
204	Supporter Plunger	65H2
205	Supporter Plunger Roll	BG653
206	Supporter Plunger Roll Pin	BD341
207	Supporter Plunger Spring (Std.)	141H3
	(Heavy)	141H6
208	Supporter Plunger Cross Pin	184-573
209	Former Slide Plate—	95H
210	Former Slide Plate Dowel	BD302
211	Former Slide Plate—	96H

Used only for .175 thru $\frac{1}{8}$ Crowns

$\frac{1}{2}$ thru $\frac{1}{8}$ Crowns

Index No.	Name and Description	Part Number
212	Former Slide Plate Dowel	BD302
213	Former Slide Plate Screw	UA4412.1
214	Supporter— $\frac{1}{2}$ thru $\frac{1}{8}$ Crowns—	
	$\frac{1}{2}$ Crown	136H6
	$\frac{5}{8}$ "	136H12
	$\frac{3}{4}$ "	136H5
	$\frac{11}{8}$ "	136H8
	$\frac{11}{4}$ "	136H16
	$\frac{13}{8}$ "	136H10
215	Supporter Pin	137H
216	Supporter Pin Holding Screw	SB107
217	Supporter Box	135H14
218	Supporter Box Locating Dowel	UB3104.1
219	Supporter Box Screw-Short	SB305
220	Supporter Box Screw-Long	SB314
221	Supporter Box Spring End Stud	BF401
222	Supporter Spr. Lever-R.H.	139H
223	Supporter Spr. Lever-L.H.	140H
224	Supporter Spring Lever Spring End Stud	BF300
225	Supporter Spring Lever Roller	139X2H
226	Supporter Spring Lever Roller Stud	BF200
227	Supporter Spring	141H
228	Supporter Pin Cross Bar	138H
229	Supporter Pin Cross Bar Cotter Pin	UB2908.1
230	Supporter—	
	$\frac{3}{8}$ Crown	64H2
	$\frac{1}{2}$ "	64H
231	Supporter Roll	BG408
232	Supporter Roll Stud	BF222
233	Supporter Pivot Pin	BD342
234	Supporter Bracket—L.H.—	25618
235	Supporter Bracket—R.H.—	25619
236	Supporter Bracket Screw—	UA4414.1
237	Supporter Cam	63H2
238	Supporter Cam Dowel	184-557
239	Supporter Cam Screw	UA3408.1
240	Supporter Plunger	25623
241	Supporter Plunger Spring	141H3
242	Supporter Plunger Shoe	25621
243	Supporter Plunger Shoe Stud	25622
244	Supporter Plunger Shoe Stud Lock Washer	LW10
245	Supporter Plunger Shoe Stud Nut	HN1032
246	Supporter Plunger Shoe Stop	25620
247	Supporter Plunger Shoe Stop Screw	UA3810.1
248	Supporter Plunger Shoe Stop Screw Washer	LW10

Used only for $\frac{1}{2}$ thru $\frac{1}{8}$ Crowns
Models BH485 and BHL 485

When ordering part specify Part Number

PARTS NUMERICAL INDEX

Part Number	Name and Description	Index No.		Part Number	Name and Description	Index No.
44H	Wire Guide Plate — Models BHL, BHX, BHOL and BHL485	53		56H	Wire Feed Idler Gear Arm Stud —All Models except BHL, BHX, BHOL and BHL485....	108
45H3	Wire Guide—Models BHL, BHX, BHOL and BHL485....	52		56H2	Wire Feed Idler Gear Arm Stud —Models BHL, BHX, BHOL and BHL485	108
47HS2	Wire Feed Clutch Connecting Sleeve—Models BHL, BHX, BHOL and BHL485.....	88		57H	Wire Feed Idler Gear Arm Pivot...	114
49HS	Wire Feed Clutch Flange and Gear—Models BHL, BHOL and BHL485	86		58H	Gear Arm Holding Plate	101
49HS2	Wire Feed Clutch Flange and Gear—Model BHX only	86		59H	Wire Feed Pressure Adjusting Screw...	112
50H	Head Plate—Model BH and BHM...	1		60H	Wire Feed Pressure Tension Spring	113
50H2	Head Plate—Model BHO and BH485	2		61H2	Supporter Spring Bracket—.175 thru $\frac{7}{8}$ Crowns	199
50H3	Head Plate—Model BHC	1		63H2	Supporter Cam—.175 thru $\frac{7}{8}$ Crowns	201, 237
50H9	Head Plate—Model BHL and BHX— $1\frac{1}{4}$ Crown	1		64H	Supporter— $\frac{7}{8}$ Crown	196, 230
50H10B	Head Plate — Models BHL and BHX — $1\frac{3}{8}$ Crown.....	1		64H2	Supporter— $\frac{3}{8}$ Crown	196, 230
50H15	Head Plate—Model BHMB.....	1		64H3	Supporter—.290 Crown	196
50H16	Head Plate—Model BHL and BHX— $\frac{3}{8}$ thru $1\frac{1}{8}$ Crown ...	1		64H7	Supporter—.175 Crown	196
50H17	Head Plate—Models BHOL and BHL485	2		64H13	Supporter— $\frac{1}{4}$ Crown	196
50H20	Head Plate—Model BHS and BHN ..	1		64H21	Supporter—.190 Crown	196
50X2H2	Head Plate Key—Models BHO, BHOL, BH485 and BHL485	3		65H2	Supporter Plunger—.175 thru $\frac{7}{8}$ Crowns	204
51H6	Wire Feed Guard—Models BH, BHC, BHM, BHMB, BHO and BH485	62		66H	Wire Feed Operating Link—All Models except BHL, BHX, BHOL and BHL485	170
51H20	Wire Feed Guard—Models BHS and BHN	66		66H2	Wire Feed Operating Link—Models BHL, BHX, BHOL and BHL485 ..	170
51HS3	Wire Feed Guard—Models BHL, BHX, BHOL and BHL485	72	Models BH485 and BHL485	67H	Wire Feed Operating Lever	171
52H	Wire Feed Guard Lock Screw	99		68H	Wire Feed Operating Lever Sliding Head	174
53H	Wire Feed Crank Sector—Models BH, BHO, BHC and BH485...	75		69H	Oiler	13C
53H3	Wire Feed Crank Sector—Models BHM and BHMB	75			(Not shown on Fig. 21 and 22)	
53H20	Wire Feed Crank Sector—Models BHS and BHN	75		70H	Oiler Felt.....	13D
53HS2	Wire Feed Crank Sector—Models BHL, BHOL and BHL485	75			(Not shown on Fig. 21 and 22)	
53HS5	Wire Feed Crank Sector—Model BHX	75		71H	Clutch Ring Gear—Models BHS, BHN, BH, BHO, BHC, and BH485 ...	77
54H	Wire Feed Idler Gear Arm—All Models except BHL, BHX, BHOL and BHL485	107		71H3	Clutch Ring Gear—Models BHM and BHMB	77
54H2	Wire Feed Idler Gear Arm—Models BHL, BHX, BHOL and BHL485	107		71HS	Clutch Ring — Models BHL, BHX, BHOL and BHL485....	90
55H	Wire Feed Idler Gear Throw-out Handle	110		72H	Clutch Spider	78,91
			73H	Clutch Roller	79,92	
			74H	Clutch Roller Spring	80,93	
			75H	Wire Feed Clutch Assembly—Models BHS, BHN, BH, BHO, BHC, and BH485	76	
			75H2	Wire Feed Clutch Assembly—Models BHL, BHX, BHOL and BHL485	89	
			75H3	Wire Feed Clutch Assembly—Models BHM and BHMB ..	76	
			76H	Clutch Front Plate	81,94	
			77H	Clutch Retainer Washer	83,96	
			78H	Wire Feed Drive Gear Stud—Models BH, BHC, BHM, BHMB, BHN, BHO, BHS and BH485 ..	58	

Part Number	Name and Description	Index No.	Part Number	Name and Description	Index No.
78HS2	Wire Feed Drive Gear Stud— Models BHL, BHX, BHOL and BHL485	58	100H47	Cutter Block Assembly—Hybar and Flat Wire—Square Cut Off	35
80H	Wire Feed Drive Gear—Models BH, BHC, BHN, BHO, BHS and BH485— Ribbon, Hybar and Flat Wire, or Round Wire .032 and smaller	61	100H49	Cutter Block Assembly — #19 (.041) thru #21 (.032) Round Wire—Square Cut Off	35
80H2	Wire Feed Drive Gear—Models BH, BHM, BHMB, BHN, BHO and BHS—Round Wire #20 (.035) and larger	61	100H50	Cutter Block Assembly — #22 (.029) thru #27 (.017) Round Wire—Square Cut Off	35
80H3	Wire Feed Drive Gear—Models BHL, BHX, BHOL and BHL485— Ribbon, Hybar and Flat Wire, or Round Wire .032 and smaller	61	100H54	Cutter Block Assembly—Hybar and Flat Wire—45° Sharp Stitch	35
80H4	Wire Feed Drive Gear—Models BHL, BHX and BHOL—Round Wire #20 (.035) and larger	61	100H58	Cutter Block Assembly—#16 (.063) Wire—30° Sharp Stitch	35
81H2	Wire Feed Idler Gear	115	100H59	Cutter Block Assembly—#16 (.063) Wire—Square Cut Off	35
82H	Wire Feed Idler Gear Retaining Washer—All Models except BHL, BHX, BHOL and BHL485	116	100H63	Cutter Block Assembly—Rib- bon Wire—Square Cut Off....	35
82H2	Wire Feed Idler Gear Retaining Washer—Models BHL, BHX, BHOL and BHL485	122	100H64	Cutter Block Assembly— Ribbon Wire—45° Sharp Stitch	35
85H	Lower Wire Tube—Ribbon Wire—Model BH485 only....	19	100H65	Cutter Block Assembly—Hy- bar and Flat Wire—Square Cut Off	35
85H8	Lower Wire Tube—Ribbon Wire— All Models except BH485	18	100H66	Cutter Block Assembly—#18 (.0475) Wire—Square Cut Off	35
85H9	Lower Wire Tube—Hybar, Flat, and Rd. Wire	18	100H67	Cutter Block Assembly—Hy- bar and Flat Wire—45° Sharp Stitch	35
87H	Upper Wire Tube—Ribbon Wire	17	100H68	Cutter Block Assembly—#16 (.063) Wire—Square Cut Off	35
87H2	Upper Wire Tube—Hybar, Flat, and Rd. Wire	17	100H69	Cutter Block Assembly—#16 Rd. Wire—45° Sharp Stitch..	35
88H	Spring Wire Guide—All Models except BH485 and BHL485..	11	100H70	Cutter Block Assembly—#16 (.063) Wire—30° Sharp Stitch	35
95H	Former Slide Plate	209	100H80	Cutter Block Assembly — .088 x .037 Flat Wire Square Cut Off	35
96H	Former Slide Plate	211	101H25	Cutter Block Body	36
97H	Cutter Block Trip Crank	189	102H25	Cutter Plunger	37
98H2	Cutter Block Operating Plunger	191	103H2	Cutter Plunger Spring	38
100H41	Cutter Block Assembly—All Models except BHX, BHS, and BHN—#18 (.0475)—.051 Rd. Wire—Square Cut Off	35	104H23	Movable Cutter— For #18 (.0475) Wire.....	40
100H43	Cutter Block Assembly—All Models except BHX, BHS, and BHN—#16 (.063) Wire—45° Sharp Stitch	35	104H25	Movable Cutter—For all Ribbon, Hybar, Flat and Round Book- binders Wire other than #18 (.0475) Wire	40
100H44	Cutter Block Assembly—All Models except BHX, BHS, and BHN—Ribbon Wire— Square Cut Off	35	105H41	Stationary Cutter—#18 (.0475)— .051 Rd. Wire—Square Cut Off	42
100H44B	Cutter Block Assembly— Models BHS and BHN— Ribbon Wire—Square Cut Off	35	105H43	Stationary Cutter—#16 (.063) Wire—45° Sharp Stitch	42
100H45	Cutter Block Assembly—Rib- bon Wire—45° Sharp Stitch..	35	105H44	Stationary Cutter—Ribbon Wire—Square Cut Off	41
			105H45	Stationary Cutter—Ribbon Wire—45° Sharp Stitch	41
			105H47	Stationary Cutter—Hybar and Flat Wire—Square Cut Off ..	41

All Models except BHX,
BHS, and BHN

All Models except BHX,
BHS, and BHN

Model BHX Only

All Models
except BHX

PARTS NUMERICAL INDEX (Cont'd)

Part Number	Name and Description	Index No.	Part Number	Name and Description	Index No.		
All Models except BHX	105H49	Stationary Cutter—#19 (.041) thru #21 (.032) Round Wire—Square Cut Off	42	110H25	Former Slide — Model BHX 1¼ — 1⅜ Crown	180	
	105H50	Stationary Cutter—#22 (.029) thru #27 (.017) Round Wire—Square Cut Off	42	110X1H8	Former Slide—1⅛ Crown—All Models except BHM and BHMB	177	
	105H54	Stationary Cutter—Hybar and Flat Wire—45° Sharp Stitch	41	110X1H10	Former Slide—1¼ and 1⅜ Crowns—All Models except BHM and BHMB	177	
	105H58	Stationary Cutter — #16 (.063) Wire—30° Sharp Stitch	42	111H2	Former Slide Roller	183	
	105H59	Stationary Cutter—#16 (.063) Wire—Square Cut Off	42	113H7	Driver Bar—.175 & .190 Crowns	168	
	Model BHX only	105H63	Stationary Cutter—Ribbon Wire—Square Cut Off	41	113H21B	Driver Bar—¾ thru 1⅜ Crowns	168
		105H64	Stationary Cutter—Ribbon Wire—45° Sharp Stitch	41	113H21C	Driver Bar—Models BHM and BHMB only	168
		105H65	Stationary Cutter—Hybar and Flat Wire—Square Cut Off ..	41	113H41	Driver Bar—¼ and .290 Crowns	168
		105H66	Stationary Cutter—#18 (.0475) Wire—Square Cut Off	42	114H	Driver Bar Link	188
		105H67	Stationary Cutter—Hybar and Flat Wire—45° Sharp Stitch	41	115H10	Former—R.H.—.103 x .020 and .103 x .017 Ribbon Wire—1⅜ Crown	184
105H68		Stationary Cutter—#16 (.063) Wire—Square Cut Off	42	115H26	Former—R.H.—.103 x .020 and .103 x .017 Ribbon Wire—¾ Crown	184	
105H69		Stationary Cutter—#16 (.063) Wire—45° Sharp Stitch	42	115H29	Former—R.H.—#20 (.035) Rd. Wire—⅞ Crown	184	
105H70		Stationary Cutter—#16 (.063) Wire—30° Sharp Stitch	42	115H30	Former—R.H.—#25 (.0204) Rd. Wire—⅞ Crown	184	
105H80		Stationary Cutter — .088 x .037 Flat Wire — Square Cut Off	41	115H32	Former—R.H.—.103 x .014 Ribbon Wire—⅞ Crown	184	
106H		Cutter Block Holding Plate—All Models except BHL, BHX, BHOL and BHL485	48	115H33	Former—R.H.—#1 (.060 x .020) Hybar Wire—⅞ Crown	184	
106H2	Cutter Block Holding Plate—Models BHL, BHX, BHOL and BHL485	48	115H34	Former—R.H.—.103 x .020 & .103 x .017 Ribbon Wire—⅞ Crown	184		
107H3	Cutter Block Control Slide—Models BH, BHC, BHM, BHMB, BHO and BH485	51	115H37	Former—R.H.—#16 (.063) Rd. Wire—⅞ Crown	184		
107H20	Cutter Block Control Slide—Models BHS and BHN	51	115H39	Former—R.H.—#1 (.060 x .020) Hybar Wire—¾ Crown	184		
108H32	Stationary Knife Plate—All Models	41A	115H41	Former—R.H.—#25 (.0204) Rd. Wire—¾ Crown	184		
110H6	Former Slide—½ Crown—All Models except BHM and BHMB	177	115H52	Former—R.H.—#000 (.060 x .017) Hybar Wire—.290 Crown	184		
110H7	Former Slide—.175 Crown—All Models except BHM and BHMB	177	115H53	Former—R.H.—#000 (.060 x .017) Hybar Wire—⅞ Crown	184		
110H12	Former Slide—⅝ and ¾ Crowns—All Models except BHM and BHMB	177	115H54	Former—R.H.—#1 (.060 x .020) Hybar Wire—.290 Crown	184		
110H13	Former Slide—.190 thru ⅞ Crowns—All Models except BHM and BHMB	177	115H55	Former—R.H.—.103 x .023 Ribbon Wire—⅞ Crown	184		
110H21	Former Slide—Models BHM and BHMB only	180	115H56	Former—R.H.—#2 (.060 x .024) Hybar Wire—.290 Crown	184		
			All Models except BHM and BHMB	115H57	Former—R.H.—.103 x .023 Ribbon Wire—¾ Crown	184	
				115H58	Former—R.H.—#19 (.041) Rd. Wire—⅞ Crown	184	
				115H60	Former—R.H.—#18 (.0475) Rd. Wire—⅞ Crown	184	
				115H61	Former—R.H.—18 x 20 (.0475 x .035) Wire—½ Crown	184	
				115H62	Former—R.H.—#2 and #3 (.060 x .024 and .060 x .028) Hybar Wire—⅞ Crown	184	

Part Number	Name and Description	Index No.
115H64	Former—R.H.—#18 (.0475) Rd. Wire— $\frac{3}{8}$ Crown	184
115H65	Former—R.H.—20 x 24 and 20 x 25 (.035 x .023 and .0204) Wire— $\frac{1}{2}$ Crown....	184
115H67	Former—R.H.—18 x 20 (.0475 x .035) Wire— $\frac{7}{8}$ Crown	184
115H68	Former—R.H.—19 x 21 $\frac{1}{2}$ (.041 x .030) Wire— $\frac{7}{8}$ Crown ..	184
115H69	Former—R.H.—20 x 23, 20 x 24 and 20 x 25 (.035 x .025, .023 and .0204) Wire— $\frac{7}{8}$ Crown 184	184
115H71	Former—R.H.—#2 and #3 (.060 x .024 and .028) Wire— $\frac{3}{8}$ Crown	184
115H72	Former—R.H.—#20 (.035) Rd. Wire— $\frac{3}{8}$ Crown	184
115H73	Former—R.H.—22 x 26 (.028 x .018) Wire— $\frac{3}{8}$ Crown	184
115H74	Former—R.H.—20 x 23, 20 x 24 and 20 x 25 (.035 x .025, .023 and .0204) Wire— $\frac{3}{8}$ Crown 184	184
115H75	Former—R.H.—.103 x .014 Ribbon Wire—.290 Crown ..	184
115H76	Former—R.H.—20 x 23 and 24 (.035 x .025 and .023) Wire— .290 Crown	184
115H78	Former—R.H.—.078 x .022, .077 x .023, .073 x .024 Flat Wire— $\frac{1}{4}$ Crown	184
115H79	Former—R.H.—18 x 20 (.0475 x .035) Flat Wire— $\frac{3}{8}$ Crown 184	184
115H80	Former—R.H.—#16 (.063) Rd. Wire— $\frac{3}{8}$ Crown	184
115H81	Former—R.H.—#1 and #2 (.060 x .020 and .024) Wire— $\frac{1}{2}$ Crown	184
115H82	Former—R.H.—#20 (.035) Rd. Wire—.175 Crown	184
115H83	Former—R.H.—#000 (.060 x .017) Wire— $\frac{3}{8}$ Crown	184
115H84	Former—R.H.—19 x 21 $\frac{1}{2}$ (.041 x .030) Wire— $\frac{1}{4}$ Crown	184
115H87	Former—R.H.—.103 x .017 and .103 x .014 Ribbon Wire— $\frac{1}{2}$ Crown	184
115H88	Former—R.H.—20 x 25 (.035 x .0204) Wire—.290 Crown 184	184
115H89	Former—R.H.—#19 (.041) Rd. Wire— $\frac{3}{8}$ Crown	184
115H92	Former—R.H.—18 x 20 (.0475 x .035) Wire—.290 Crown	184
115H93	Former—R.H.—#23 (.026) Rd. Wire— $\frac{7}{8}$ Crown	184
115H94	Former—R.H.—#18 (.0475) Rd. Wire— $\frac{1}{2}$ Crown	184

All Models except BHM and BHMB

Part Number	Name and Description	Index No.
115H95	Former—R.H.—#21 (.032) Rd. Wire—1 Crown.....	184
115H96	Former—R.H.—#25 (.0204) Rd. Wire— $\frac{1}{2}$ Crown	184
115H99	Former—R.H.—.103 x .014 Ribbon Wire— $\frac{5}{8}$ Crown	184
115H101	Former—R.H.—20 x 25 (.035 x .0204) Wire—.175 Crown	184
115H102	Former—R.H.—#1 and #2 (.060 x .020 and .024) Wire— $\frac{1}{8}$ Crown	184
115H104	Former—R.H.—#20 (.035) Rd. Wire— $\frac{1}{4}$ Crown	184
115H105	Former—R.H.—#18 (.0475) Rd. Wire— $\frac{5}{8}$ Crown	184
115H106	Former—R.H.—.103 x .023 Ribbon Wire— $\frac{3}{4}$ Crown	184
115H113	Former—R.H.—.103 x .017 and .103 x .014 Ribbon Wire— $\frac{1}{4}$ Crown	184
115H115	Former—R.H.—#1 and #000 (.060 x .020 and .017) Wire — $\frac{1}{4}$ Crown	184
115H117	Former—R.H.—20 x 25 (.035 x .0204) Wire— $\frac{1}{4}$ Crown	184
115H135	Former—R.H.—.103 x .028 Ribbon Wire— $\frac{7}{16}$ Crown	184
115H154	Former—R.H.—#2 (.060 x .024) Wire— $\frac{1}{4}$ Crown	184
115H158	Former—R.H.—20 x 24 and 25 (.035 x .023 and .0204) Wire — $\frac{3}{4}$ Crown	184
115H160	Former—R.H.—#25 (.0204) Rd. Wire—.175 Crown	184
115H164	Former—R.H.—.103 x .020 and .103 x .017 Ribbon Wire— $\frac{5}{8}$ Crown	184
115H165	Former—R.H.—.078 x .028 Flat Wire— $\frac{1}{4}$ Crown	184
115H169	Former—R.H. and L.H.— Models BHM and BHMB Only—.051 Rd. Wire— $\frac{3}{8}$ Crown	185
115H170	Former—R.H.—18 x 20 (.0475 x .035) Wire— $\frac{3}{4}$ Crown	184
115H171	Former—R.H.—#1 and #2 (.060 x .020 and .024) Wire— .190 Crown	184
115H172	Former—R.H.—#23 (.026) Rd. Wire— $\frac{3}{4}$ Crown	184
115H173	Former—R.H.—.103 x .023 and .103 x .020 Ribbon Wire— $\frac{1}{4}$ Crown	184
115H174	Former—R.H.—#16 (.063) Rd. Wire— $\frac{3}{4}$ Crown	184
115H179	Former—R.H.—.103 x .020 and .103 x .017 Ribbon Wire— $\frac{3}{4}$ Crown	184

All Models except BHM and BHMB

All Models except BHM and BHMB

When ordering part specify Part Number

PARTS NUMERICAL INDEX (Cont'd)

Part Number	Name and Description	Index No.	Part Number	Name and Description	Index No.
115H183	Former—R.H. and L.H.— Models BHM and BHMB Only—#18 (.0475) Rd. Wire — $\frac{3}{8}$ Crown	185	116H61	Former—L.H.—18 x 20 (.0475 x .035) Wire— $\frac{1}{2}$ Crown	184
115H186	Former—R.H.—#25 (.0204) Rd. Wire— $\frac{3}{4}$ Crown	184	116H62	Former—L.H.—#2 and #3 (.060 x .024 and .028) Wire— $\frac{1}{8}$ Crown	184
115H191	Former—R.H.—#16 (.063) Rd. Wire— $\frac{1}{4}$ Crown	184	116H64	Former—L.H.—#18 (.0475) Rd. Wire— $\frac{3}{8}$ Crown	184
115H193	Former—R.H.—.103 x .023 Ribbon Wire— $\frac{5}{8}$ Crown	184	116H65	Former—L.H.—20 x 24 and 25 (.035 x .023 and .0204) Wire — $\frac{1}{2}$ Crown	184
115H209	Former—R.H.—#1 (.020 x .060) Wire—1 Crown	184	116H67	Former—L.H.—18 x 20 (.0475 x .035) Wire— $\frac{1}{8}$ Crown	184
115H216	Former—R.H.—.088 x .037 Flat Wire— $1\frac{1}{4}$ Crown	184	116H68	Former—L.H.—19 x 21 $\frac{1}{2}$ (.041 x .030) Wire— $\frac{1}{8}$ Crown	184
115H7S1	Former—R.H.—18 x 20 (.0475 x .035) Wire—175 Crown	184	116H69	Former—L.H.—20 x 23, 24, and 25 (.035 x .025, .023 and .0204) Wire— $\frac{1}{8}$ Crown	184
115H7S1B	Former—R.H.—20 x 25 (.035 x .0204) Wire—175 Crown	184	116H71	Former—L.H.—#2 and #3 (.060 x .024 and .028) Wire— $\frac{3}{8}$ Crown	184
116H10	Former—L.H.—.103 x .020 and .103 x .017 Ribbon Wire— $1\frac{3}{8}$ Crown	184	116H72	Former—L.H.—#20 (.035) Rd. Wire— $\frac{3}{8}$ Crown	184
116H26	Former—L.H.—.103 x .020 and .103 x .017 Ribbon Wire— $\frac{3}{8}$ Crown	184	116H73	Former—L.H.—22 x 26 (.028 x .018) Wire— $\frac{3}{8}$ Crown	184
116H29	Former—L.H.—#20 (.035) Rd. Wire— $\frac{1}{8}$ Crown	184	116H74	Former—L.H.—20 x 23, 24, and 25 (.035 x .025, .023, and .0204) Wire— $\frac{3}{8}$ Crown	184
116H30	Former—L.H.—#25 (.0204) Rd. Wire— $\frac{1}{8}$ Crown	184	116H75	Former—L.H.—.103 x .014 Ribbon Wire—290 Crown	184
116H32	Former—L.H.—.103 x .014 Ribbon Wire— $\frac{1}{8}$ Crown	184	116H76	Former—L.H.—20 x 23 and 24 (.035 x .025, and .023) Wire —290 Crown	184
116H33	Former—L.H.—#1 (.060 x .020) Wire— $\frac{1}{8}$ Crown	184	116H77	Former—L.H.—.078 x .022, .077 x .023, and .073 x .024 Flat Wire— $\frac{1}{4}$ Crown	184
116H34	Former—L.H.—.103 x .020 & .103 x .017 Ribbon Wire— $\frac{1}{8}$ Crown	184	116H79	Former—L.H.—18 x 20 (.0475 x .035) Wire— $\frac{3}{8}$ Crown	184
116H37	Former—L.H.—#16 (.063) Rd. Wire— $\frac{1}{8}$ Crown	184	116H80	Former—L.H.—#16 (.063) Rd. Wire— $\frac{3}{8}$ Crown	184
116H39	Former—L.H.—#1 (.060 x .020) Wire— $\frac{3}{8}$ Crown	184	116H81	Former—L.H.—#1 and #2 (.060 x .020 and .024) Wire — $\frac{1}{2}$ Crown	184
116H41	Former—L.H.—#25 (.0204) Rd. Wire— $\frac{3}{8}$ Crown	184	116H82	Former—L.H.—#20 (.035) Rd. Wire—175 Crown	184
116H52	Former—L.H.—#000 (.060 x .017) Wire—290 Crown	184	116H83	Former—L.H.—#000 (.060 x .017) Wire— $\frac{3}{8}$ Crown	184
116H53	Former—L.H.—#000 (.060 x .017) Wire— $\frac{1}{8}$ Crown	184	116H84	Former—L.H.—19 x 21 $\frac{1}{2}$ (.041 x .030) Wire— $\frac{1}{4}$ Crown	184
116H54	Former—L.H.—#1 (.060 x .020) Wire—290 Crown	184	116H87	Former—L.H.—.103 x .017 and .103 x .014 Ribbon Wire— $\frac{1}{2}$ Crown	184
116H55	Former—L.H.—.103 x .023 Ribbon Wire— $\frac{1}{8}$ Crown	184	116H88	Former—L.H.—20 x 25 (.035 x .0204) Wire—290 Crown ..	184
116H56	Former—L.H.—#2 (.060 x .024) Wire—290 Crown	184	116H89	Former—L.H.—#19 (.041) Rd. Wire— $\frac{3}{8}$ Crown	184
116H57	Former—L.H.—.103 x .023 Ribbon Wire— $\frac{3}{8}$ Crown	184	116H92	Former—L.H.—18 x 20 (.0475 x .035) Wire—290 Crown	184
116H58	Former—L.H.—#19 (.041) Rd. Wire— $\frac{1}{8}$ Crown	184	116H93	Former—L.H.—#23 (.026) Rd. Wire— $\frac{1}{8}$ Crown	184
116H60	Former—L.H.—#18 (.0475) Rd. Wire— $\frac{1}{8}$ Crown	184			

All Models except BHM and BHMB

All Models except BHM and BHMB

All Models except BHM and BHMB

Part Number	Name and Description	Index No.
116H94	Former—L.H.—#18 (.0475) Rd. Wire— $\frac{1}{2}$ Crown	184
116H95	Former—L.H.—#21 (.032) Rd. Wire—1 Crown	184
116H96	Former—L.H.—#25 (.0204) Rd. Wire— $\frac{1}{2}$ Crown	184
116H99	Former—L.H.—.103 x .014 Ribbon Wire— $\frac{5}{8}$ Crown	184
116H101	Former—L.H.—20 x 25 (.035 x .0204) Wire—.175 Crown	184
116H102	Former—L.H.—#1 and #2 (.060 x .020 and .024) Wire— $\frac{1}{8}$ Crown	184
116H104	Former—L.H.—#20 (.035) Rd. Wire— $\frac{1}{4}$ Crown	184
116H105	Former—L.H.—#18 (.0475) Rd. Wire— $\frac{5}{8}$ Crown	184
116H106	Former—L.H.—.103 x .023 Ribbon Wire— $\frac{3}{4}$ Crown	184
116H113	Former—L.H.—.103 x .017 and .103 x .014 Ribbon Wire— $\frac{1}{4}$ Crown	184
116H115	Former—L.H.—#1 and #000 (.060 x .020 and .017) Wire— $\frac{1}{4}$ Crown	184
116H117	Former—L.H.—20 x 25 (.035 x .0204) Wire— $\frac{1}{4}$ Crown	184
116H135	Former—L.H.—.103 x .028 Ribbon Wire— $\frac{7}{16}$ Crown	184
116H154	Former—L.H.—#2 (.060 x .024) Wire— $\frac{1}{4}$ Crown	184
116H158	Former—L.H.—20 x 24 and 25 (.035 x .023 and .0204) Wire — $\frac{3}{4}$ Crown	184
116H160	Former—L.H.—#25 (.0204) Rd. Wire—.175 Crown	184
116H164	Former—L.H.—.103 x .020 and .103 x .017 Ribbon Wire— $\frac{5}{8}$ Crown	184
116H165	Former—L.H.—.078 x .028 Flat Wire— $\frac{1}{4}$ Crown	184
116H170	Former—L.H.—18 x 20 (.0475 x .035) Wire— $\frac{3}{4}$ Crown	184
116H171	Former—L.H.—#1 and #2 (.060 x .020 and .024) Wire— .190 Crown	184
116H172	Former—L.H.—#23 (.026) Rd. Wire— $\frac{3}{4}$ Crown	184
116H173	Former—L.H.—.103 x .023 and .103 x .020 Ribbon Wire— $\frac{1}{4}$ Crown	184
116H174	Former—L.H.—#16 (.063) Rd. Wire— $\frac{3}{4}$ Crown	184
116H179	Former—L.H.—.103 x .020 and .103 x .017 Ribbon Wire— $\frac{3}{4}$ Crown	184
116H186	Former—L.H.—#25 (.0204) Rd. Wire— $\frac{3}{4}$ Crown	184

All Models except BHM and BHMB

Part Number	Name and Description	Index No.
116H191	Former—L.H.—#16 (.063) Rd. Wire— $\frac{1}{4}$ Crown	184
116H193	Former—L.H.—.103 x .023 Ribbon Wire— $\frac{5}{8}$ Crown	184
116H209	Former—L.H.—#1 (.020 x .060) Wire—1 Crown	184
116H216	Former—L.H.—.088 x .037 Flat Wire— $\frac{1}{4}$ Crown	184
116H7S1	Former—L.H.—18 x 20 (.0475 x .035) Wire—.175 Crown ..	184
116H7S1B	Former—L.H.—20 x 25 (.035 x .0204) Wire—.175 Crown	184
117H52	Driver—#000 (.060 x .017) Wire—.290 Crown	184
117H53	Driver—#000 (.060 x .017) Wire— $\frac{1}{8}$ Crown	184
117H54	Driver—#1 (.060 x .020) Wire —.290 Crown	184
117H56	Driver—#2 (.060 x .024) Wire —.290 Crown	184
117H64	Driver—.103 x .014 Ribbon Wire—.290 Crown	184
117H65	Driver—#1 and #2 (.060 x .020 and .024) Wire— $\frac{1}{2}$ Crown	184
117H83	Driver—#000 (.060 x .017) Wire— $\frac{3}{8}$ Crown	184
117H87	Driver—.103 x .017 and .103 x .014 Ribbon Wire— $\frac{1}{2}$ Crown	184
117H95	Driver—#21 (.032) Rd. Wire 1 Crown	184
117H98	Driver—.103 x .020 and .103 x .017 Ribbon Wire— $\frac{1}{8}$ Crown	184
117H99	Driver—.103 x .014 Ribbon Wire— $\frac{5}{8}$ Crown	184
117H101	Driver—20 x 25 (.035 x .0204) .175 Crown	184
117H102	Driver—#1 and #2 (.060 x .020 and .024) Wire— $\frac{1}{8}$ Crown	184
117H104	Driver—#20 (.035) Rd. Wire — $\frac{1}{4}$ Crown	184
117H105	Driver—#18 (.0475) Rd. Wire — $\frac{5}{8}$ Crown	184
117H106	Driver—.103 x .023 Ribbon Wire— $\frac{3}{4}$ Crown	184
117H107	Driver—.103 x .023 Ribbon Wire— $\frac{3}{8}$ Crown	184
117H108	Driver—.103 x .023 Ribbon Wire— $\frac{1}{8}$ Crown	184
117H111	Driver—#2 and #3 (.060 x .024 and .028) Wire— $\frac{3}{8}$ Crown	184
117H113	Driver—.103 x .017 and .103 x .014 Ribbon Wire— $\frac{1}{4}$ Crown	184
117H114	Driver—20 x 24 (.035 x .023) Wire— $\frac{3}{8}$ Crown—Shopping Bag Handle Stitch	184

PARTS NUMERICAL INDEX (Cont'd)

<i>Part Number</i>	<i>Name and Description</i>	<i>Index No.</i>	<i>Part Number</i>	<i>Name and Description</i>	<i>Index No.</i>
117H115	Driver—#1 and #000 (.060 x .020 and .017) Wire— $\frac{1}{4}$ Crown	184	117H173	Driver—.103 x .023 and .103 x .020 Ribbon Wire— $\frac{1}{4}$ Crown (All Models except BHM and BHMB)	184
117H117	Driver—20 x 25 (.035 x .0204) Wire— $\frac{1}{4}$ Crown	184	117H174	Driver—(Short) Models BHM and BHMB Only—.051 Rd. Wire— $\frac{3}{8}$ Crown	185
117H123	Driver—#1 (.060 x .020) Wire— $\frac{3}{8}$ Crown	184	117H175	Driver—#16 (.063) Rd. Wire— $\frac{3}{4}$ Crown (All Models except BHM and BHMB)	184
117H124	Driver—18 x 20 (.0475 x .035) Wire— $\frac{3}{8}$ Crown	184	117H179	Driver—.103 x .020 and .103 x .017 Ribbon Wire— $\frac{3}{4}$ Crown (All Models except BHM and BHMB)	184
117H125	Driver—20 x 23, 24, and 25 (.035 x .025, .023, and .0204) Wire— $\frac{3}{8}$ Crown	184	117H183	Driver—(Standard) Models BHM and BHMB Only—#18 (.0475) Rd. Wire— $\frac{3}{8}$ Crown	185
117H126	Driver—22 x 26 (.028 x .018) Wire— $\frac{3}{8}$ Crown	184	117H184	Driver—(Short) Models BHM and BHMB Only—#18 (.0475) Rd. Wire— $\frac{3}{8}$ Crown	185
117H129	Driver—#20 (.035) Rd. Wire— $\frac{3}{8}$ Crown	184	117H186	Driver—#25 (.0204) Rd. Wire— $\frac{3}{4}$ Crown	184
117H131	Driver—#25 (.0204) Rd. Wire— $\frac{3}{8}$ Crown	184	117H191	Driver—#16 (.063) Rd. Wire— $\frac{1}{4}$ Crown	184
117H135	Driver—.103 x .028 Ribbon Wire— $\frac{7}{16}$ Crown	184	117H193	Driver—.103 x .023 Ribbon Wire— $\frac{5}{8}$ Crown	184
117H136	Driver—.103 x .014 Wire— $\frac{1}{8}$ Crown	184	117H209	Driver—#1 (.020 x .060) Wire—1 Crown	184
117H138	Driver—#2 and #3 (.060 x .024 and .028) Wire— $\frac{7}{8}$ Crown	184	117H216C	Driver—.088 x .037 Flat Wire— $1\frac{1}{4}$ Crown	184
117H139	Driver—#1 (.060 x .020) Wire— $\frac{7}{8}$ Crown	184	117H1S4H	Driver—19 x $21\frac{1}{2}$ (.041 x .030) Wire— $\frac{7}{8}$ Crown	184
117H140	Driver—18 x 20 (.0475 x .035) Wire— $\frac{7}{8}$ Crown	184	117H1S4K	Driver—#23 (.026) Rd. Wire— $\frac{7}{8}$ Crown	184
117H141	Driver—20 x 23, 24, and 25 (.035 x .025, .023, and .0204) Wire— $\frac{7}{8}$ Crown	184	117H2S5F	Driver—#16 (.063) Rd. Wire— $\frac{3}{8}$ Crown	184
117H1S4E	Driver—#16 (.063) Rd. Wire— $\frac{7}{8}$ Crown	184	117H2S5H	Driver—#18 (.0475) Rd. Wire— $\frac{3}{8}$ Crown	184
117H1S4D	Driver—#18 (.0475) Rd. Wire— $\frac{7}{8}$ Crown	184	117H2S5J	Driver—#19 (.041) Rd. Wire— $\frac{3}{8}$ Crown	184
117H145	Driver—#19 (.041) Rd. Wire— $\frac{7}{8}$ Crown	184	117H3S2	Driver—20 x 23 and 20 x 24 (.035 x .025 and .023) Wire—.290 Crown	184
117H146	Driver—#20 (.035) Rd. Wire— $\frac{7}{8}$ Crown	184	117H3S2B	Driver—20 x 25 (.035 x .0204) Wire—.290 Crown	184
117H148	Driver—#25 (.0204) Rd. Wire— $\frac{7}{8}$ Crown	184	117H3S2C	Driver—18 x 20—(.0475 x .035) Wire—.290 Crown	184
117H150	Driver—.103 x .020 & .103 x .017 Ribbon Wire— $\frac{7}{8}$ Crown	184	117H6S2B	Driver—18 x 20 (.0475 x .035) $\frac{1}{2}$ Crown	184
117H151	Driver—.103 x .020 and .103 x .017 Ribbon Wire— $\frac{3}{8}$ Crown	184	117H6S2C	Driver—20 x 24 and 20 x 25 (.035 x .023 and .0204) Wire $\frac{1}{2}$ Crown	184
117H154	Driver—#2 (.060 x .024) Wire— $\frac{1}{4}$ Crown	184	117H6S2D	Driver—#18 (.0475) Rd. Wire— $\frac{1}{2}$ Crown	184
117H158	Driver—20 x 24 and 20 x 25 (.035 x .023, and .0204) Wire— $\frac{3}{4}$ Crown	184	117H6S2E	Driver—#25 (.0204) Rd. Wire— $\frac{1}{2}$ Crown	184
117H160	Driver—#25 (.0204) Rd. Wire—.175 Crown	184	117H7S1B	Driver—20 x 25 (.035 x .0204) Wire—.175 Crown—Stockinette Stitch	184
117H164	Driver—.103 x .020 and .103 x .017 Ribbon Wire— $\frac{5}{8}$ Crown	184	117H7S2	Driver—18 x 20 (.0475 x .035) Wire—.175 Crown—Stockinette Stitch	184
117H169	Driver—(Standard) Models BHM and BHMB Only—.051 Rd. Wire— $\frac{3}{8}$ Crown	185	117H7S2B	Driver—.078 x .022, .077 x .023; and .073 x .024 Flat Wire— $\frac{1}{4}$ Crown—Glove Stitch	184
117H170	Driver—18 x 20 (.0475 x .035) Wire— $\frac{3}{4}$ Crown	184	117H7S2D	Driver—#20 (.035) Rd. Wire—.175 Crown	184
117H171	Driver—#1 and #2 (.060 x .020 and .024) Wire—.190 Crown	184			
117H172	Driver—#23 (.026) Rd. Wire— $\frac{3}{4}$ Crown	184			

All Models except BHM and BHMB

All Models except BHM and BHMB

All Models except BHM & BHMB

	Part Number	Name and Description	Index No.		Part Number	Name and Description	Index No.
All Models except BHM and BHM	117H7S2E	Driver—19 x 21½ (.041 x .030) Wire—¼ Crown—Glove Stitch	184	All wires except #16, 18, and 19 Rd.	121H7	Gripper Bar Clamp Piece—.175 Crown	152
	117H7S2F	Driver—18 x 20 (.0475 x .035) Wire—⅜ Crown—Stockinette Stitch	184		121H10	Gripper Bar Clamp Piece—.1⅜ Crown	152
	117H7S2H	Driver—#1 (.060 x .020) Wire—⅜ Crown—Stockinette Stitch	184		121H12	Gripper Bar Clamp Piece—.⅝ Crown	152
	117H7S2J	Driver—.078 x .028 Flat Wire—¼ Crown—Glove Stitch	184		121H13	Gripper Bar Clamp Piece—.190 and ¼ Crowns	152
All wires except #16, 18, and 19 Rd.	119H	Gripper Assembly—⅞ Crown	150	All wires except #16, 18, and 19 Rd. wires	121M	Gripper Bar Clamp Piece—.¾, 1⅛, 1¼ Crowns	152
	119H2	" " —⅜ Crown	150		121HB	Gripper Bar Clamp Piece—.⅞ and ½ Crowns	152
	119H3	" " —.290 Crown	150		121H2B	Gripper Bar Clamp Piece—.⅜ Crown	152
	119H6	" " —½ Crown	150		121H3B	Gripper Bar Clamp Piece—.290 Crown	152
	119H7	" " —.175 Crown	150		121H7C	Gripper Bar Clamp Piece—.175 Crown	152
	119H8	" " —1⅛ Crown	150		121H12	Gripper Bar Clamp Piece—.⅝ Crown	152
	119H10	" " —1⅜ Crown	150		121H13B	Gripper Bar Clamp Piece—.¼ Crown	152
	119H12	" " —⅝ Crown	150		121MB	Gripper Bar Clamp Piece—.¾ Crown	152
	119H13	" " —¼ Crown	150		122H	Gripper Bar Clamp Piece Spring Assembly	155
	119H15	" " —1¼ Crown	150		122X1H	Gripper Bar Clamp Piece Spring	156
	119H15B	" " —1¼ Crown .088 x .037 Flat Wire	150		123H8	Gripper Throwout Cam Block—1¼, 1⅜ Crown	175
	119H21	" " —.190 Crown	150		123H9	Gripper Throwout Cam Block—1⅛ Crown	175
	119M	" " —¾ Crown	150		123H10	Gripper Throwout Cam Block—.175 thru ½ Crown	175
	119HB	Gripper Assembly—⅞ Crown	150		123H13	Gripper Throwout Cam Block 1¼ Crown .088 x .037 Flat Wire Model BHX	175
	119H2B	" " —⅜ Crown	150		123M	Gripper Throwout Cam Block—⅝, ¾ Crown	175
119H3B	" " —.290 Crown	150	124H	Gripper Bar Adjusting Screw	160		
119H6B	" " —½ Crown	150	125H	Gripper Bar Adjusting Screw Clamp Block	158		
119H7C	" " —.175 Crown	150	125H2	Gripper Bar Adjusting Screw Clamp Block Spacer—1⅛, 1¼, 1⅜ Crowns Only	159		
119H12B	" " —⅝ Crown	150	126H2	Gripper Clamp Piece Control Slide	167		
119H13B	" " —¼ Crown	150	127H	Gripper Clamp Piece Control Slide Friction Bolt	164		
119MB	" " —¾ Crown	150	128H	Gripper Clamp Piece Control Slide Friction Spring	165		
All wires except #16, 18, and 19 Rd.	120H	Gripper Bar—⅞ Crown	151	129H3L	Gripper Spring—L.H.	141,148	
	120H2	" " —⅜ Crown	151	129H3R	Gripper Spring—R.H.	140,147	
	120H3	" " —.290 Crown	151	129H4	Gripper Spring Bracket	128,143	
	120H6	" " —½ Crown	151	129H5	Gripper Spring Pivot—Models BH485 and BHL485	146	
	120H7	" " —.175 Crown	151	129H6	Gripper Spring Roll	142,149	
	120H8	" " —1⅛ Crown	151				
	120H10	" " —1⅜ Crown	151				
	120H12	" " —⅝ Crown	151				
	120H13	" " —¼ Crown	151				
	120H15	" " —1¼ Crown	151				
	120H15B	" " —1¼ Crown .088 x .037 Flat Wire	151				
	120H21	" " —.190 Crown	151				
	120M	" " —¾ Crown	151				
	120HB	Gripper Bar—⅞ Crown	151				
	120H2B	" " —⅜ Crown	151				
120H3B	" " —.290 Crown	151					
120H6B	" " —½ Crown	151					
120H7C	" " —.175 Crown	151					
120H12B	" " —⅝ Crown	151					
120H13B	" " —¼ Crown	151					
120MB	" " —¾ Crown	151					
All wires except #16, 18, & 19 Rd.	121H	Gripper Bar Clamp Piece—.⅞ and ½ Crowns	152				
	121H2	Gripper Bar Clamp Piece—.⅜ Crown	152				
	121H3	Gripper Bar Clamp Piece—.290 Crown	152				

When ordering part specify Part Number

PARTS NUMERICAL INDEX (Cont'd)

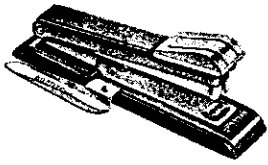
	<i>Part Number</i>	<i>Name and Description</i>	<i>Index No.</i>		<i>Part Number</i>	<i>Name and Description</i>	<i>Index No.</i>
1/2 thru 1 3/8 Crowns	135H14	Supporter Box	217	Models BH485 and BHL485	25621	Supporter Plunger Shoe	242
	136H5	Supporter—3/4 Crown	214		25622	Supporter Plunger Shoe Stud ..	243
	136H6	" —1/2 Crown	214		25623	Supporter Plunger	240
	136H8	" —1 1/8 Crown	214		25670	Wire Straightener Adjusting Screw—Model BHL485 only	31
	136H10	" —1 3/8 Crown	214		85202	Oiler	16
	136H12	" —5/8 Crown	214		85216	Oiler—Models BHM and BHMB only	15
	136H16	" —1 1/4 Crown	214		85220	Oiler	14
	137H	Supporter Pin	215		85225	Oiler	65,69,74,109
	138H	Supporter Pin Cross Bar	228		85308	Wire Feed Idler Gear Retaining Washer Screw	118
	139H	Supporter Spring Lever—R.H.	222		251424	Lower Wire Tube Holding Clamp—Model BH485 only ..	20
139X2H	Supporter Spring Lever Roller	225	184-291	Wire Feed Guard Stop Pin	6		
140H	Supporter Spring Lever—L.H.	223	184-557	Supporter Cam Dowel — Used for .175 thru 7/16 Crowns	202, 238		
141H	Supporter Spring	227	184-573	Supporter Plunger Cross Pin —Used only for .175 thru 7/8 Crowns	208		
141H3	Supporter Plunger Spring—(Std.) Used only for .175 thru 7/16 Crowns	207, 241	228-69	Cutter Block Holding Screw Washer—Models BHM and BHMB only	47		
141H6	Supporter Plunger Spring (Heavy)	207	BD75	Wire Feed Drive Gear Stud Pin	59		
All Models except BH485	931H3	Wire Straightener Plate	24	BD75	Wire Feed Clutch Retaining Washer Pin	84,97	
	935H3	Wire Straightener Roll— Upper Stationary	25	BD75	Wire Feed Idler Gear Retain- ing Washer Pin	117,123	
	936H3	Wire Straightener Roll—Lower Adjustable—Ribbon, Hybar, and Flat Wire	29	BD150	Throwout Handle Stop Pin	111	
	936H4	Wire Straightener Roll- Lower Adjustable—Rd. Wire	29	UB3104.1	Gear Arm Holding Plate Rod Pin	104	
	938H2	Wire Straightener Upper Roll Stud	26	UB3104.1	Supporter Box Locating Dowel—For 1/2 thru 1 3/8 Crowns only	218	
	945H	Wire Feed Guard Flange Ex- tension—Model BHS and BHN only	70	BD250	Former Slide Dowel	178,181	
	946H2	Lower Wire Tube Clamp—All Models except BH485	33	BD300	Gear Arm Holding Plate Locating Pin	102	
	947H	Wire Straightener Slide Block— All Models except BH485	28	BD301	Cutter Block Holding Plate Dowel	49	
	1000HL	Finger Guard Bracket—L.H. ..	133	BD302	Former Slide Plate Dowel	210,212	
	1000HR	Finger Guard Bracket—R.H. ..	132	BD341	Supporter Plunger Roll Pin— Used only for .175 thru 7/8 Crowns	206	
All Models except BH485 and BHL485	1001H	Finger Guard	137	BD342	Supporter Pivot Pin—Used only for .175 thru 7/16 Crowns	195,233	
	1002H	Finger Guard Spring	135	RD350	Head Locating Dowel	5	
	1005H	Brake Friction	119	BF50	Spring Wire Guide Loop	12	
	1006H	Brake Friction Plate	120	BF51	Gripper Bar Clamp Piece Stud	154	
	1007H	Brake Friction Spring	125	BF53	Gripper Bar Clamp Piece Stud	153	
	1008H	Brake Friction Plate Screw	121	BF200	Supporter Spring Lever Roller Stud—Used only for 1/2 thru 1 3/8 Crowns	226	
	2166	Oiler Felt Retainer	13A	BF218	Wire Feed Clutch Flange Stud— Models BHL, BHX, BHOL and BHL485	87	
	2167	Oiler Felt	13B	BF222	Supporter Roll Stud—Used only for .175 thru 7/16 Crowns	198,232	
	7242	Gripper Spring Pivot Bushing— All Models except BH485 and BHL485	134				
	9069	Wire Straightener Adjusting Screw Friction Spring—Not used on Model BH485	32				
Models BH485 and BHL485	25618	Supporter Bracket—L.H.	234				
	25619	Supporter Bracket—R.H.	235				
	25620	Supporter Plunger Shoe Stop ..	246				

<i>Part Number</i>	<i>Name and Description</i>	<i>Index No.</i>	<i>Part Number</i>	<i>Name and Description</i>	<i>Index No.</i>
BF300	Supporter Spring Lever Spring End Stud—Used only for 1/2 thru 1 3/8 Crowns	224	HN1428.3	Brake Tension Nut—Models BHL, BHX, BHOL and BHL485	127
BF311	Driver Bar Lock Stud	169	LW10	Supporter Plunger Shoe Stud Washer—Models BH485 and BHL485	244
BF401	Supporter Box Spring End Stud—Used only for 1/2 thru 1 3/8 Crowns	221	LW10	Supporter Plunger Shoe Stop Screw Washer—Models BH485 and BHL485	248
BF402	Wire Feed Guard Stop Stud— All Models except BHL and BHX	63, 67	LW10.4	Gripper Spring Bracket Screw Washer	130, 145
BF602	Gear Arm Holding Plate Rod	103	LW14	Cutter Block Operating Plunger Adjusting Screw Washer	193
BF702	Wire Feed Operating Lever Crank Stud	172	SB107	Supporter Pin Holding Screw —Used only for 1/2 thru 1 3/8 Crowns	216
BF902	Wire Feed Guard Crank Stud	64, 68, 73	SB301	Gripper Bar Clamp Piece Spring Retaining Screw	161
BF903	Wire Feed Operating Lever Pivot Stud	173	SB305	Supporter Box Screw—Short— Used only for 1/2 thru 1 3/8 Crowns	219
BF1102	Former Slide Driving Stud— (Supplied as part of Former Slide)	179, 182	SB314	Supporter Box Screw—Long— Used only for 1/2 thru 1 3/8 Crowns	220
BG150	Gripper Bar Clamp Piece Spring Plug	157	SB315	Gripper Clamp Block Holding Screw—For all Crowns other than 1 1/8, 1 1/4 & 1 3/8	162
BG408	Supporter Roll—Used only for .175 thru 1/8 Crowns	197, 231	SB316	Gripper Throwout Cam Block Screw—5/8 and 3/4 Crowns	176
BG612	Cutter Block Operating Plunger Adjusting Screw Nut	194	SB401	Wire Tube Screw	23
BG653	Supporter Plunger Roll—Used only for .175 thru 1/8 Crowns	205	SB401	Cutter Block Adjusting Screw Lock Screw	45
BG1114	Wire Feed Guard Lock Screw Washer	100	SB403	Stationary Cutter Screw	43
BSA52	Wire Guide Screw Wrench— Models BHL, BHX, BHOL and BHL485	55	SB405	Cutter Block Trip Crank Holding Screw	190
C496	Cutter Block Holding Screw Washer—Models BHL, BHX, BHOL and BHL485	57	SB406	Gripper Pivot Screw	163
HN1032	Lower Wire Tube Retaining Screw Nut—Model BH485 only	21	SB407	Cutter Block Holding Screw— All Models except BHL, BHX, BHOL and BHL485....	46
HN1032	Finger Guard Screw Nut — All Models except BH485 and BHL485	139	SB416	Cutter Block Operating Plunger Adjusting Screw	192
HN1032	Supporter Plunger Shoe Stud Nut —Models BH485 and BHL485	245	SB601	Cutter Block Adjusting Screw ..	44
HN1213.2	Wire Feed Drive Gear Stud Nut	60	SB602	Gripper Clamp Piece Control Slide Friction Adjusting Screw ...	166
HN1420.2	Gripper Spring Pivot Nut—All Models except BH485 and BHL485	136	UA1404.1	Clutch Front Plate Screw	82, 95
HN1420.2	Lower Wire Tube Holding Clamp Nut—Model BH485 only	22	UA1408.1	Head Plate Key Screw—Models BHO, BHOL, BH485 and BHL485	4
HN1428.2	Wire Feed Idler Gear Stud Screw Nut—Models BHL, BHX, BHOL and BHL485	124	UA2210.1	Lower Wire Tube Clamp Screw—All Models except BH485	34
			UA2210.1	Gripper Throwout Cam Block Screw—1 1/4 and 1 3/8 Crowns	176
			UA2308.2	Wire Straightener Lower Roll Screw—Not used on Model BH485	30

When ordering part specify Part Number

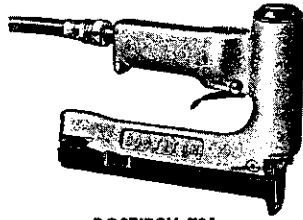
PARTS NUMERICAL INDEX (Cont'd)

<i>Part Number</i>	<i>Name and Description</i>	<i>Index No.</i>	<i>Part Number</i>	<i>Name and Description</i>	<i>Index No.</i>
UA2808.1	Wire Guide Screw—Models BHL, BHX, BHOL and BHL485	54	UA3810.1	Supporter Plunger Shoe Stop Screw—Models BH485 and BHL485	247
UA2808.1	Former Screw—For Former Slides 110H8, 110H10	186	UA3820	Oiler Screw	13E
UA3008.4	Finger Guard Screw—All Models except BH485 and BHL485	138		Models BH485 and BHL485 (Not shown on Fig. 21 and 22)	
UA3014.1	Gripper Clamp Block Holding Screw—1 $\frac{1}{8}$, 1 $\frac{1}{4}$ & 1 $\frac{3}{8}$ Crowns only	162	UA4016.2	Wire Straightener Adjusting Screw—Not used on Models BH485 and BHL485	31
UA3210.1	Gripper Throwout Cam Block Screw—1 $\frac{1}{8}$ Crown	176	UA4021	Cutter Plunger Holding Screw	39
UA3306.1	Wire Feed Guard Flange Ex- tension Screw—Models BHS and BHN only	71	UA4024.1	Cutter Block Holding Screw — Models BHL, BHX, BHOL and BHL485	56
UA3308.2	Spring Wire Guide Screw	13	UA4041.1	Gripper Spring Pivot—All Models except BH485 and BHL485	131
UA3314.1	Gripper Spring Bracket Screw	129,144	UA4412.1	Supporter Spring Bracket Screw—.175 thru $\frac{7}{8}$ Crowns	200
UA3408.1	Cutter Block Holding Plate Screw	50	UA4412.1	Former Slide Plate Screw — $\frac{1}{2}$ thru 1 $\frac{3}{8}$ Crowns	213
UA3408.1	Wire Feed Clutch Retaining Washer Screw	85,98	UA4414.1	Supporter Bracket Screw— Models BH485 and BHL485	236
UA3408.1	Supporter Cam Screw—Used only for .175 thru $\frac{7}{8}$ Crowns	203, 239	UA4812.2	Wire Straightener Plate Screw— Not used on Model BH485..	27
UA3410.4	Former Screw—For Former Slides 110H6, 110H7, 110H12, and 110H13	186	UA4820.4	Wire Feed Idler Gear Stud Screw —Models BHL, BHX, BHOL and BHL485	126
UA3806.3	Gripper Throwout Cam Block Screw—.175 thru $\frac{1}{2}$ Crowns	176	UA6120.1	Gear Arm Holding Plate Screw	106
UA3808.1	Former Screw—For Former Slide 110H21, 110H25	187	UA6510.1	Gear Arm Pivot Lock Screw ...	105
UA3808.5	Lower Wire Tube Retaining Screw—Model BH485 only..	20A	UB2908.1	Supporter Pin Cross Bar Cotter Pin—Used only for $\frac{1}{2}$ thru 1 $\frac{3}{8}$ Crowns	229



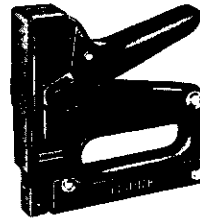
BOSTITCH B8R
Four-in-One
Fastener

Desk Fastener, stapling plier, and tacker. Fastens papers, seals packages, tacks notices and labels, has many other uses. Complete with handy attached staple remover.



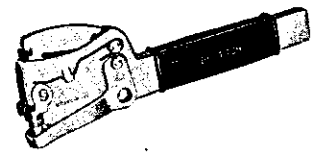
BOSTITCH T21
Air Tacker

Staples into the hardest furniture framing and other woods. Even drives through light metals. Operates on low air pressures — far less than the usual requirements for air economy and reduced recoil.



BOSTITCH T5
Spring-Driven Tacker

Compressing lever shoots staple into work. Places staple accurately. For tacking tags and labels, insulation, many other tacking jobs.



BOSTITCH H2
Self-feeding Hammer

One-hand, one-blow, drives staples as fast as you can flick your wrist. Much more convenient than hammer and tacks.



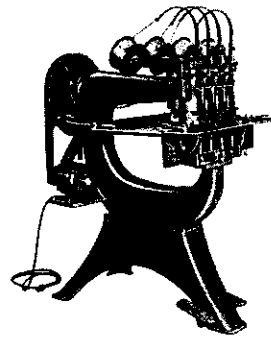
BOSTITCH EHT
Foot or Motor-Operated
Staplers

Leaves both hands free to control work. Numerous types of machines and many sizes of staples to meet exact requirements.



BOSTITCH FC95
Box Bottomer

Features time and labor-saving advantages never before available for faster, more efficient container assembly. Drives 4000 wide-crown staples without reloading. Almost completely eliminates usual time lost in loading. Motor operated.



BOSTITCH
Multiple-Head Stitchers

For high speed production where several staples (or stitches) must be driven at each operation. Several models available.



BOSTITCH
Wire Stitchers

Fifty models to handle almost any stitching job, from two sheets of paper to .060" cold rolled steel.

The Bostitch Method is the use of the right stapling, tacking, or wire stitching machine with the appropriate size and type of staple to achieve the most efficient fastening result.

To provide the right machine, the Bostitch line comprises over eight hundred models, from B8R desk staplers to powerful wire stitchers that stitch through steel. More than a hundred varieties of staples furnish the appropriate size and type for almost every stapling requirement.

Sixty-five years experience with fastening problems — Over 350 Bostitch Economy Men, operating out of some 125 Bostitch offices. Write your nearest Bostitch distributor for information if you have a fastening problem. You will find "Bostitch" listed in phone books of most large cities.

Fasten it better and faster with



Trade Mark "BOSTITCH" registered U. S. Patent Office and foreign countries.