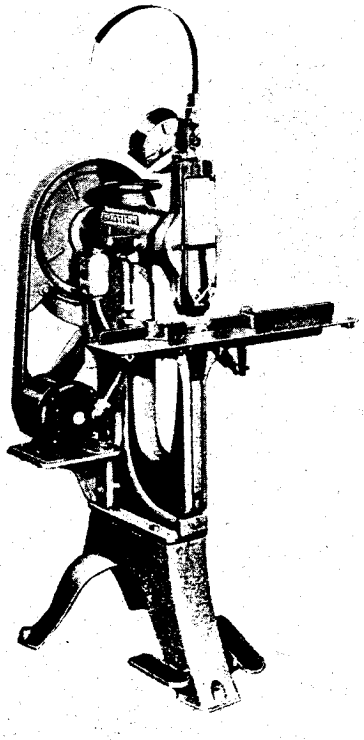
BOSTITCH®

7 STITCHER



OPERATION and MAINTENANCE MANUAL

FOREWORD

This instruction book and parts catalog is provided for operators of the Bostitch No. 7 Book Stitcher. In preparing this manual, the aim has been to give the essential details covering the operation and maintenance of the machine, and to provide a complete breakdown of component parts for the purpose of ordering repair parts.

Part I of this book includes Description, Operating Adjustments, Maintenance Instructions, and Trouble Shooting Chart.

Part II includes illustrated parts lists together with other pertinent information for ordering repair parts.

The first section of Part I, Description, gives a general description of the No. 7 Stitcher in order to acquaint the operator with the functional units of the machine.

The second section, Operating Adjustments, gives detailed instructions, with accompanying illustrations, for making the various adjustments required for the proper operation of the Stitcher.

The third section of Part I, Maintenance, gives detailed instructions, with accompanying illustrations, covering procedures for properly maintaining the machine. A Trouble Shooting Chart, which illustrates perfect and imperfect stitches, and lists the causes of the imperfect stitches 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 the component parts of the No. 7 Stitcher are included in Part II of this book. Instructions on how to order a part as well as instructions on how to disassemble the clutch and head of the Stitcher are provided in this part of the book. In addition, a Numerical Index (all parts numbers listed in numerical order and cross referenced to the parts lists and illustrations) is provided at the back of the book.

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PART I

PART II

PART I—OPERATING AND MAINTENANCE INSTRUCTIONS

- DESCRIPTION
- OPERATING ADJUSTMENTS
- MAINTENANCE PROCEDURES
- TROUBLE SHOOTING CHART

DESCRIPTION

The BOSTITCH No. 7 Book Stitcher is a combination light and heavy duty stitcher designed to staple both flat and saddle work ranging in thickness from a few sheets to 7/8".

The recommended wire sizes to be used on the No. 7 Stitcher are as follows: Round Wire—28 to 24; Flat Wire—20x24, 20x25, and 21x25. The above wire sizes can be used without changing parts. However, for heavy flat work it is recommended that the special flat work Driver be substituted for the standard Driver. Work requiring the use of 19x21½ flat wire can also be stitched on the No. 7 machine by substituting a special Bender Bar and Driver for the standard parts. (Refer to para. 3 on page 7.)

The Stitcher is easily adjustable for changing from saddle work to flat work by means of the tilting work table. Figure 1 shows the Stitcher set for flat work operation. An adjustable work guide and adjustable work stops are easily attached to the work table and provide for accurate registering of flat work for uniform spacing of staples. When the work guide is not being used it can be attached to the right side of the Stitcher frame, where screw holes are provided for attaching the guide (using the same screws which attach it to the work table), thereby providing a convenient storing place for the guide. In addition, work table extensions, both front and back, are provided to accommodate the larger sizes of work to be stitched.

The Stitcher is foot-treadle operated and is belt driven by a ⅓ HP motor, making possible operating speeds up to 125 stitches per minute. The motor is mounted on an adjustable bracket which can be raised or lowered for adjusting the driving belt tension. The machine driving mechanism is thoroughly shielded thus preventing the possibility of personal injury.

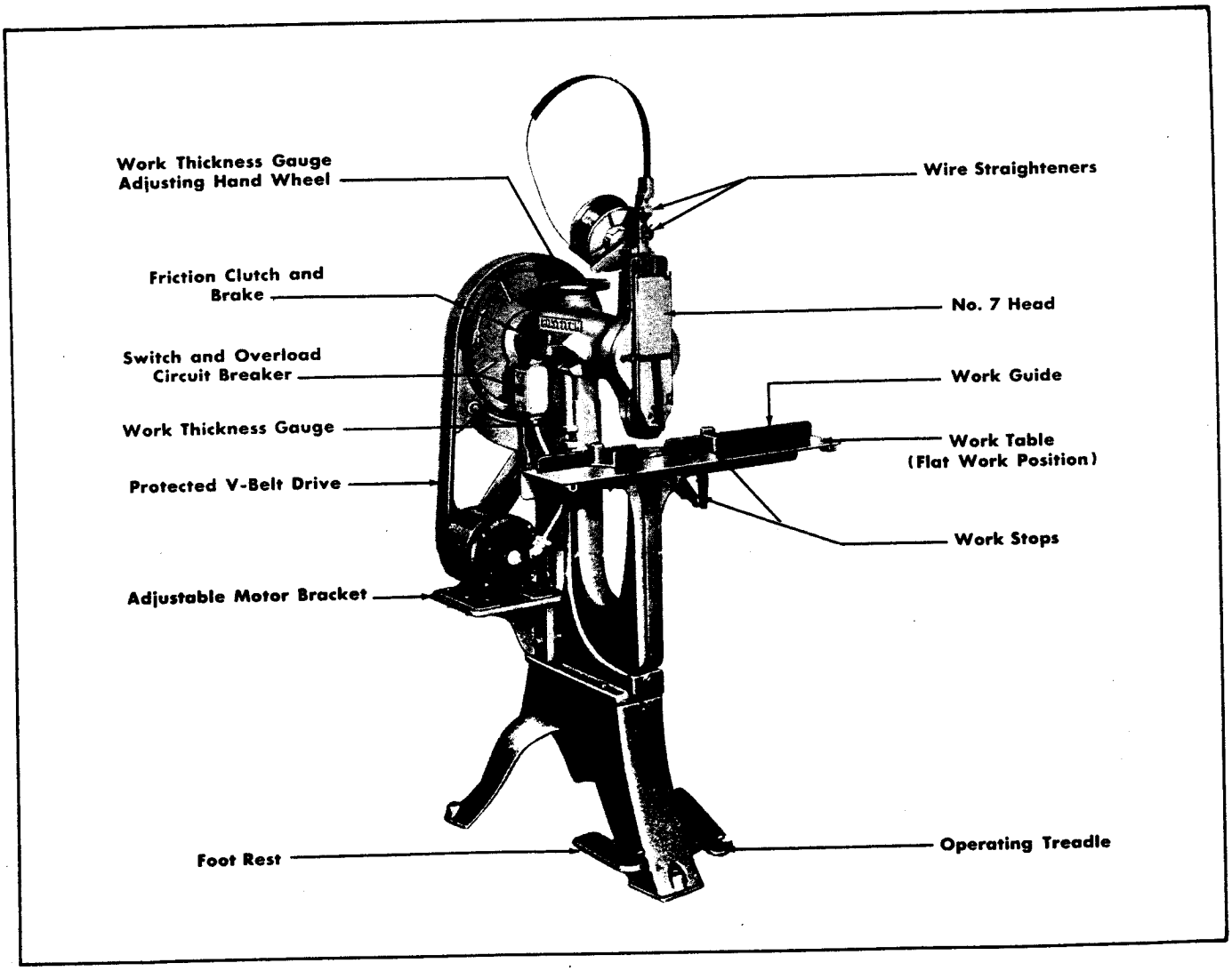


Figure 1—The Bostitch No. 7 Book Stitcher

OPERATING ADJUSTMENTS

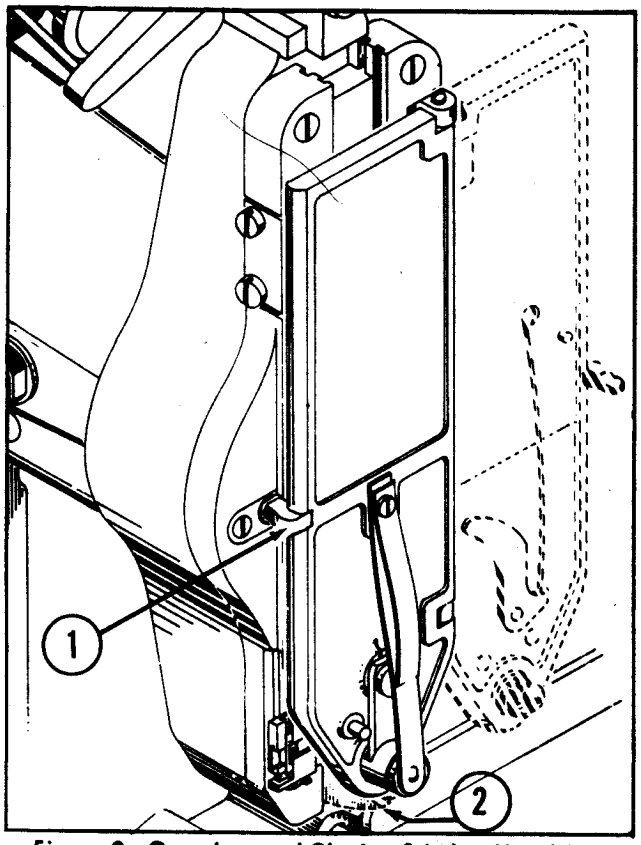


Figure 2—Opening and Closing Stitcher Head Door

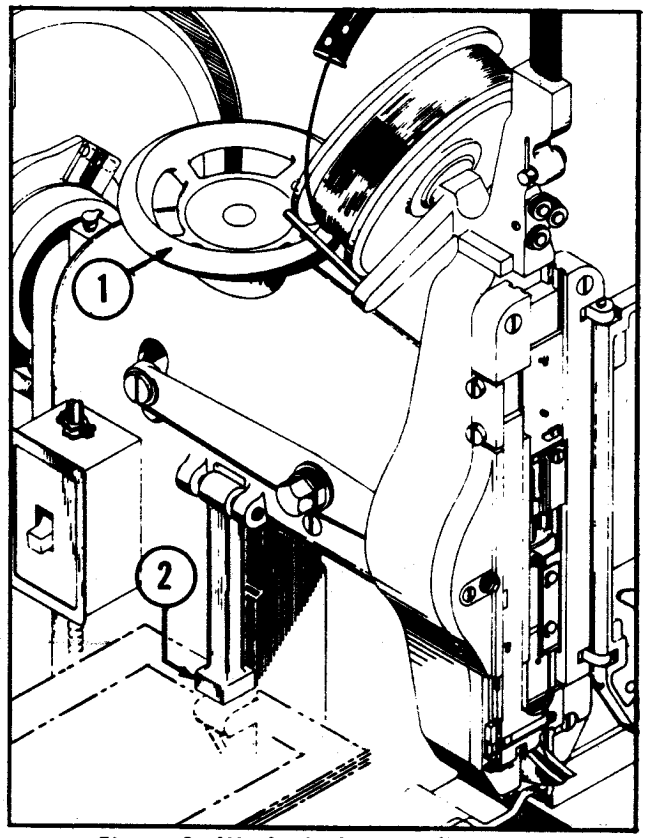


Figure 3—Work Thickness Adjustment

The quality and quantity of work that can be stitched on the No. 7 machine is dependent upon the operator making the various operating adjustments as accurately as possible. The following illustrated instructions and information are provided so that the operator will clearly understand how to make the required operating adjustments.

1. HOW TO OPEN AND CLOSE STITCHER HEAD DOOR *(See Fig. 2.)*

a. To open stitcher head door, press door latch (1) to the right, thereby releasing latch from latch catch and permitting door to swing to open position (shown in dotted line in Fig. 2).

b. To close door, check that machine is at top of stroke (supporter (2) will be at its forward position); depress supporter back to its retracted position with the left hand and, with supporter held in this position, close door, pressing in latch (1) as latch enters latch catch.

CAUTION

Do not slam door shut. or attempt to force door shut with machine positioned at bottom of stroke. Failure to comply with this caution may result in damage to the Stitcher head.

2. HOW TO ADJUST STITCHER FOR THICKNESS OF WORK *(See Fig. 3.)*

a. Turn the thickness adjustment handwheel (1) counter-clockwise (to left) until column gauge (2) has raised sufficiently to allow sample of work to be stitched to be inserted between the gauge and gauge shelf, as shown in Fig. 3.

b. With work held in this position, turn handwheel (1) clockwise (to right) until work is firmly clamped between gauge (2) and gauge shelf; then, turn handwheel to left, raising gauge, just far enough to permit work to be withdrawn from between the gauge and gauge shelf.

c. After withdrawing sample work, turn handwheel to right until gauge has returned to point at which it clamped the work.

Caution: If machine is operated on work thicker than it is set to handle, supporter link will be bent and latch broken, so that stitcher will not operate properly.

3. WIRE SIZE ADJUSTMENTS *(See Fig. 4.)*

The wire sizes to be used on the No. 7 Stitcher are as listed in Fig. 4

The Stitcher is equipped with a standard Bender Bar (Part No. 7086A, Index No. 212 in Parts List) and Driver (Part No. 7089 E or 7089 F, Index No. 220 and 221 in Parts List). The 7089E Driver will accommodate all saddle work using 28 to 24 Round Wire, and can also be used for the normal flat work using 20x24, 20x25, or 21x25 Flat Wire. However, for heavy flat work using any of the above specified wire sizes, it is recommended that the 7089F Driver be substituted for the 7089E Driver.

Parts can be supplied for work requiring the use of 19x21½ flat wire. These parts are listed in parts index and are marked (for 19x21½ flat wire only).

The table shown in Fig. 4 lists the Correct Bender Bar and Driver combinations to be used for the different wire sizes and types of work.

For instructions on how to remove the Driver, refer to para. 4, page 13. For instructions on how to remove and replace the Bender Bar, refer to para. 2, page 18.

Two types of Clincher Points are provided with the Stitcher. When running round wire, use Part No. 7257B (Index No. 126); when running flat wire, use Part No. 7024B (Index No. 127).

TYPE OF WORK	RECOMMENDED WIRE GAUGE	WIRE SIZE AND TOLERANCE	TENSILE STRENGTH P.S.I.	USE
Saddle and Light Flat	#28 Rd. 27 Rd. 26 Rd. 25 Rd. 24 Rd.	.0162±.0005 .0173±.0005 .0181±.0005 .0204±.0005 .023 ±.0005	120,000 to 150,000	Bender Bar — 7086A Driver — 7089E
Flat (light)	21 x 25 Flat #28 Rd. 27 Rd. 26 Rd. 25 Rd. 24 Rd.	.0317 $\pm^{.000}_{.003}$ x .0204±.0005 .0162±.0005 .0173±.0005 .0181±.0005 .0204±.0005 .023 ±.0005	120,000 to 150,000	Bender Bar — 7086A Driver — 7089E
Flat (heavy)	20 x 24 Flat 20 x 25 Flat 21 x 25 Flat	.0348 $\pm^{.000}_{.004}$ x .023 ±.0005 .0348 $\pm^{.000}_{.004}$ x .0204±.0005 .0317 $\pm^{.000}_{.003}$ x .0204±.0005	120,000 to 150,000	Bender Bar — 7086A Driver — 7089F
Flat (heavy)	19 x 21½ Flat	.041 $\pm^{.000}_{.004}$ x .0301±.0005	120,000 to 150,000	Bender Bar — 7086BA Driver — 7089G

Figure 4 — Table of recommended Wire Sizes, Tolerances and Tensile Strengths for best stitching performance

4. HOW TO THREAD WIRE ON HEAD *(See Fig. 5.)*

a. Open stitcher head door (1). Pass wire from spool over wire guide spring (2), threading wire between guide studs on the guide spring and thru oiler felt in retainer (not shown).

b. Thread the wire between the rolls of the two sets of wire straighteners (3) and (4).

c. Pass the end of the wire behind the wire clip (5) and then pull wire down until it extends to just below the wire cutter holder (6).

d. Push the wire holder slide (7) to the left and, with the slide held in this position, lay the wire well back in the slot (8) in the wire cutter holder; then release the slide (7) allowing it to close over and retain the wire in the slot (8).

e. Slide wire retainer (9) up, thereby uncovering groove in wire guide (10). Lay wire in groove and then slide retainer (9) down retaining wire in groove.

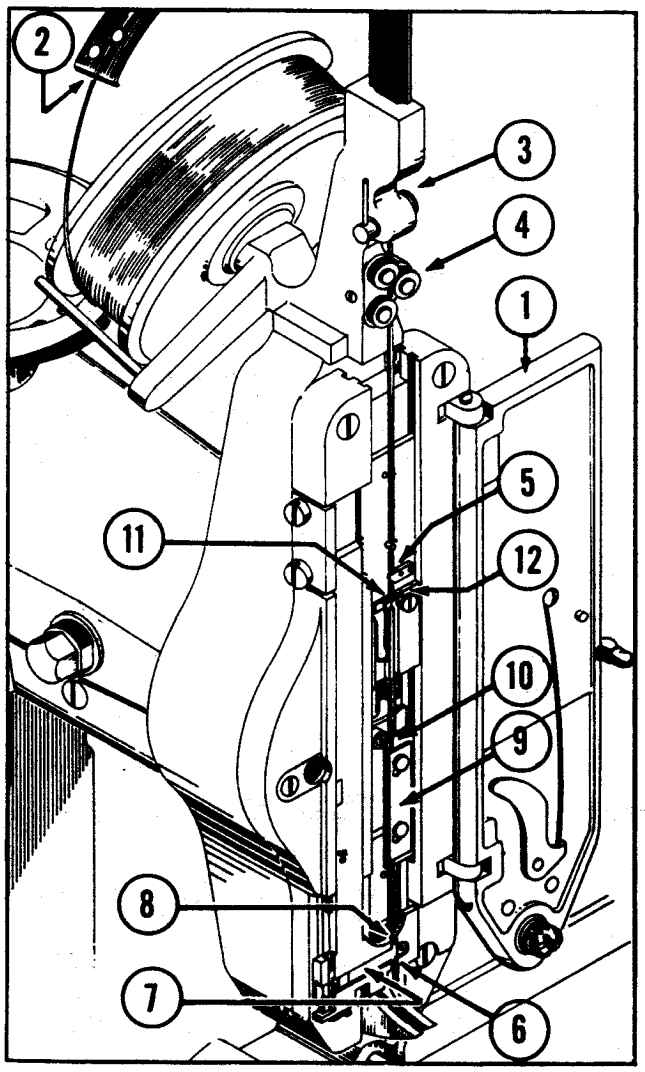


Figure 5—Threading Wire on Head

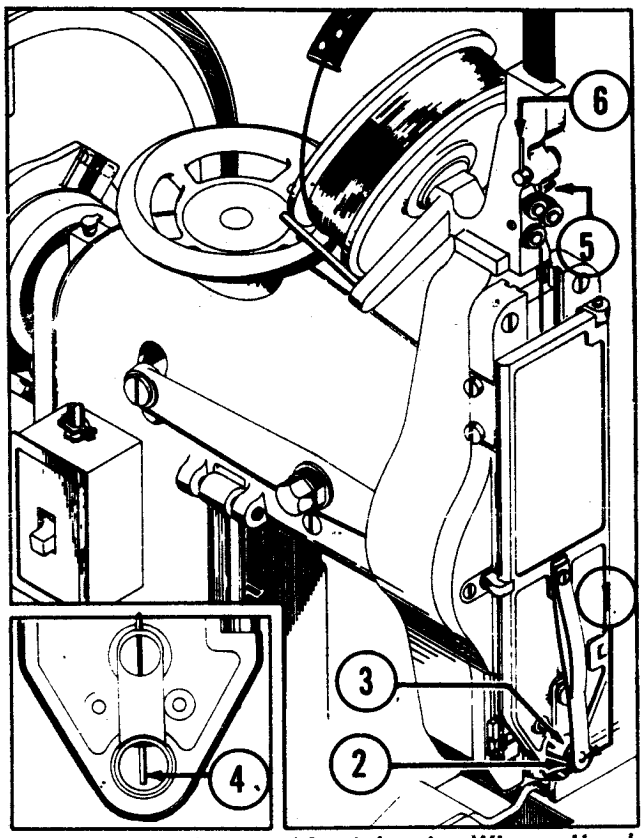


Figure 6—Checking and Straightening Wire on Head

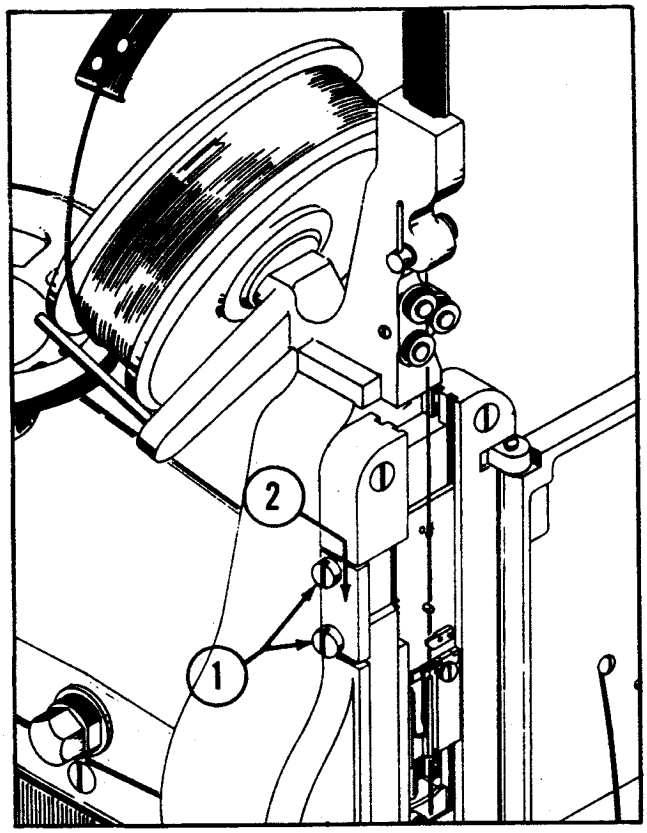


Figure 7—Adjusting Length of Staple Left Leg

f. Turn over machine manually until wire automatically falls in place between the moveable and fixed grips (11) and (12).

g. The wire is now threaded on the head. However, before operating the Stitcher, turn the machine over manually a few revolutions and observe that the wire is feeding freely and is being cut off by the cutters in the cutter holder. Then close the stitcher head door and check that the wire is feeding in a straight vertical line, as directed in para. 5, immediately following.

5. HOW TO STRAIGHTEN WIRE *(See Fig. 6.)*

In order to insure continuous operation of the Stitcher, it is important that the wire, when being fed into the swivel, enters the swivel in as close to a straight vertical line as possible.

To check this condition and make the necessary adjustments, proceed as follows:

a. Disengage swivel spring (19) from swivel (2) and withdraw swivel from its bushing (3).

b. Turn over machine and observe, by looking directly into the swivel bushing (4), that wire is being fed in a vertical line, as shown in insert in Fig. 6.

c. If wire is feeding to the left or right, turn the lower wire straightener eccentric handle (5) clockwise or counter-clockwise, as required, until wire feeds in a vertical line.

d. If wire is feeding in a straight line with respect to left and right but tends to curl forward or backward, turn the upper wire straightener eccentric handle (6) until this condition is remedied.

e. After the necessary adjustments have been made, replace the swivel in its bushing and attach swivel spring.

6. HOW TO ADJUST LENGTH OF STAPLE LEFT LEG *(See Fig. 7.)*

If staple is off center (one leg longer than the other), the left leg of the staple can be shortened or lengthened as follows:

a. Loosen (do not remove) the two wire feed adjustment rack screws (1) permitting the adjustment rack (2) to be moved up or down.

b. If *shorter* left leg is required, move adjustment rack (2) slightly *up;* if *longer* left leg is required, move adjustment rack slightly *down.* *(Con't. on page 10.)*

c. After positioning adjustment rack, tighten adjustment rack screws (1), turn over machine a few revolutions and check staples. If staple is still off center, repeat steps *a* and *b* until perfect staple is obtained. (With a little experience, the operator will soon learn how much to raise or lower the adjustment rack to obtain the desired length of staple leg.)

d. After final adjustment has been made, securely tighten adjustment rack screws (1).

7. HOW TO ADJUST LENGTH OF BOTH LEGS OF STAPLE *(See Fig. 8.)*

If staple legs are centered but are too long or too short, adjust amount of wire feed as follows:

a. Loosen adjustment lever eccentric bushing screw (1) sufficiently to release the knurled eccentric bushing (2).

b. If *longer* staple legs is required, turn the eccentric bushing (2) *clockwise* (toward front of Stitcher); if shorter staple legs is required, turn the bushing *counter-clockwise* (toward rear of Stitcher).

c. After adjusting the eccentric bushing, tighten the bushing screw (1), turn over machine a few revolutions and check staples. If legs are still not the required length, repeat steps *a* and *b* until perfect staple is obtained. (With a little experience the operator will soon learn how far to turn the eccentric bushing to obtain the desired staple leg length.)

d. After final adjustment has been made, securely tighten the eccentric bushing screw (1).

8. HOW TO RAISE OR LOWER CLINCHERS *(See Fig. 9.)*

If staples are being loosely clinched (see Staple N and O in Trouble Shooting Chart on page 15), requiring the raising or lowering of clinchers, proceed as follows:

a. Remove the retaining screw (1) securing the clincher slide (2) to the actuating link plunger (3).

b. Loosen the plunger set screw (4) and then turn the plunger (3) to the left or right, as required, to raise or lower the clincher slide.

c. Replace and tighten the retaining screw (1) in the plunger screw hole now facing the front of the machine, and then tighten the plunger set screw (4).

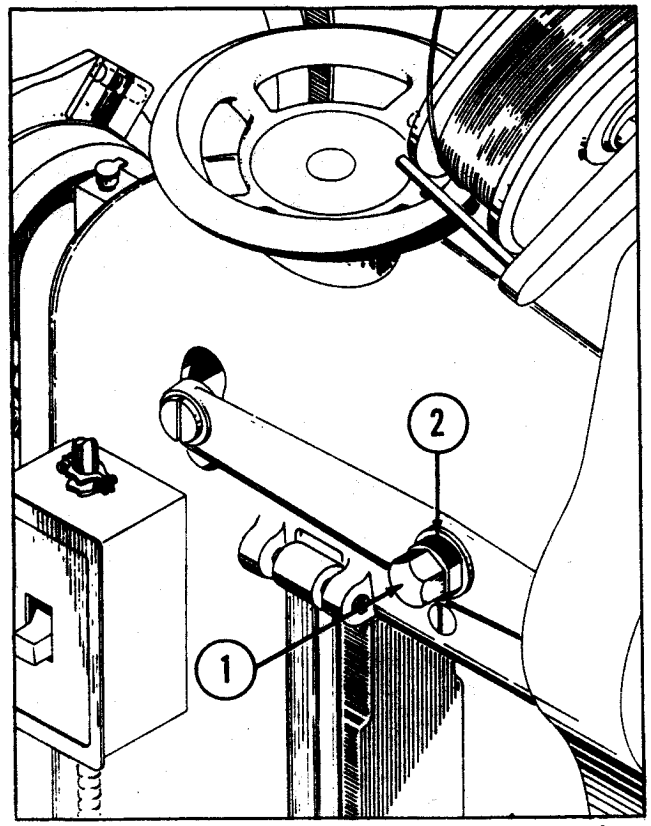


Figure 8—Adjusting Length of Both Legs of Staple

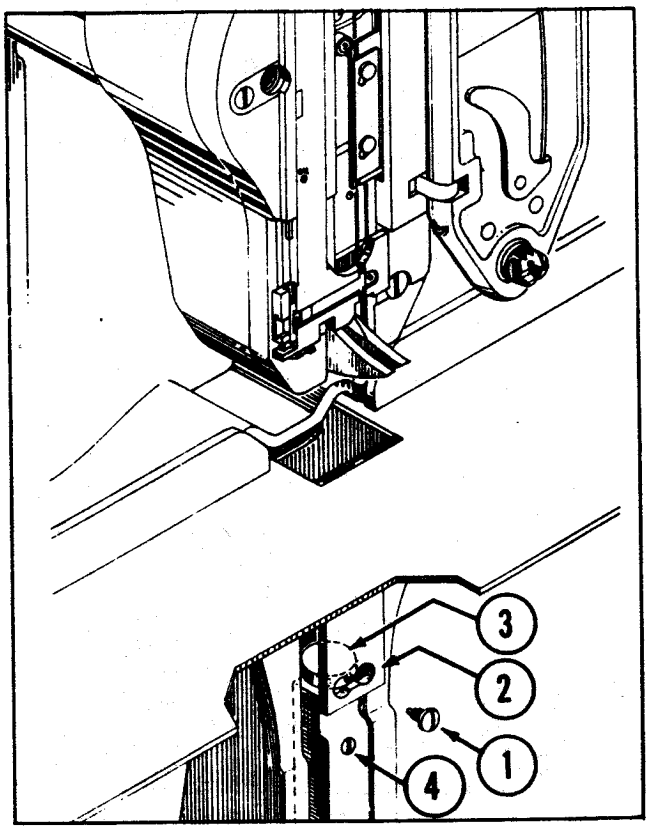


Figure 9—Raising or Lowering Clinchers

MAINTENANCE

To insure continuous operation of the No. 7 Stitcher the operator should be sure that the machine is regularly lubricated and carefully maintained. The operator should periodically inspect all moving parts for signs of wear and, when required, replace the worn parts. Such parts as the wire cutters, wire grip, and driver have been so designed as to provide duplicate cutting and gripping surfaces. If, after continuous usage, the original cutting or gripping surfaces show signs of wear, their position in the head can be reversed, thereby providing a new surface and lengthening the life of the part.

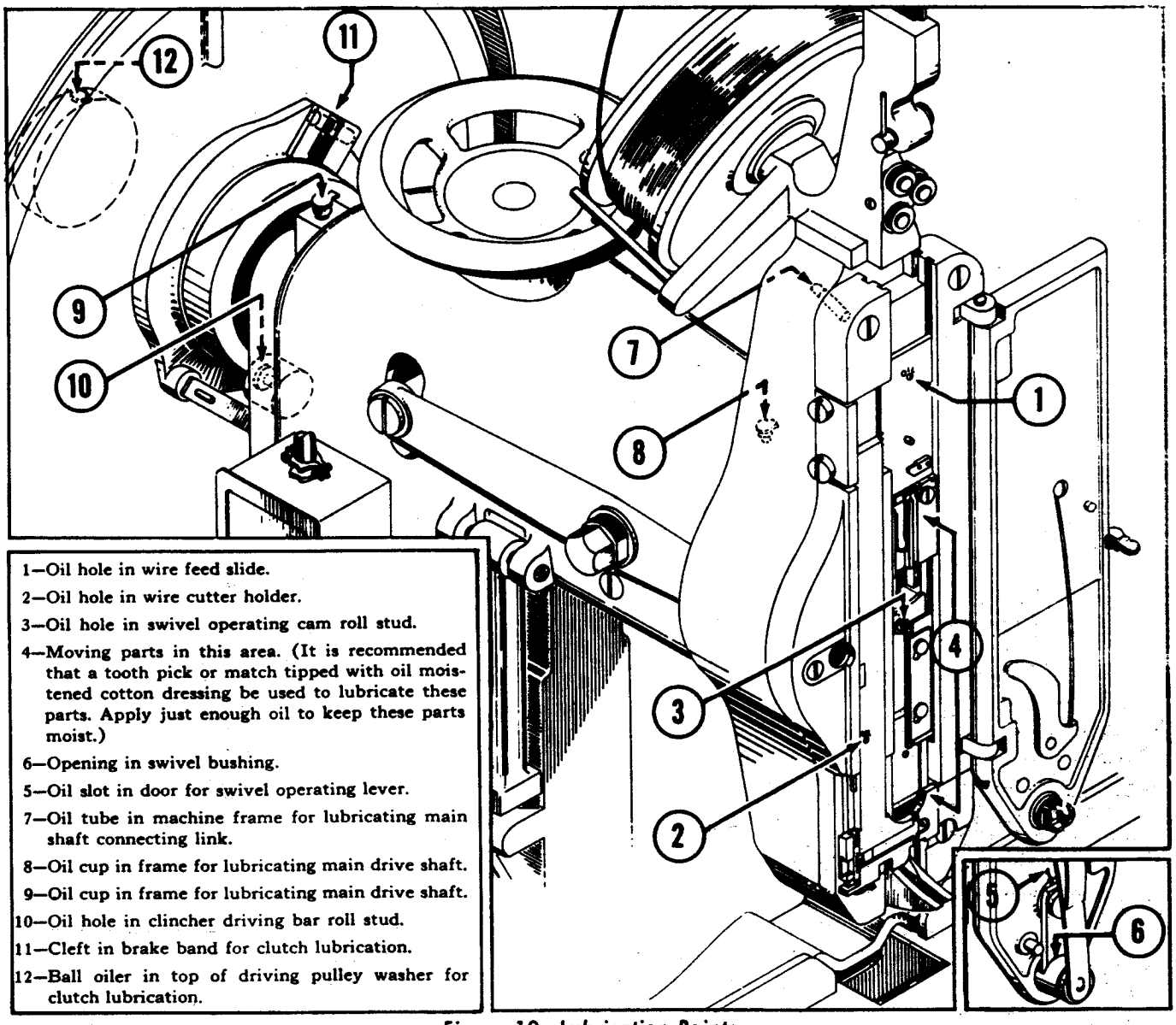
Provision is made on the machine for adjusting the clutch in the event of clutch slippage or knocking.

The following instructions are provided so that the operator will clearly understand how to lubricate the machine, how to reverse or replace the parts referred to above, and how to adjust the clutch.

1. LUBRICATION *(See Fig. 10.)*

Use an S.A.E. No. 10 oil for lubricating the No. 7 Stitcher. Machines that are in constant operation should be lubricated daily, with Lubrication Point (11), see Fig. 10, being oiled twice a day. Machines that are operated periodically should be lubricated just prior to running a job.

Usually only a drop of oil is required at each point of lubrication in the Stitcher head. Care must be taken that those parts of the machine that contact the work being stitched are free from oil. *Lubricate regularly instead of excessively*. Excessive oiling will result in work becoming oil-spotted. After lubricating the machine, wipe off any excessive oil.



1—Oil hole in wire feed slide.

2—Oil hole in wire cutter holder.

3—Oil hole in swivel operating cam roll stud.

4—Moving parts in this area. (It is recommended that a tooth pick or match tipped with oil moistened cotton dressing be used to lubricate these parts. Apply just enough oil to keep these parts moist.)

6—Opening in swivel bushing.

5—Oil slot in door for swivel operating lever.

7—Oil tube in machine frame for lubricating main shaft connecting link.

8—Oil cup in frame for lubricating main drive shaft.

9—Oil cup in frame for lubricating main drive shaft.

10—Oil hole in clincher driving bar roll stud.

11—Cleft in brake band for clutch lubrication.

12—Ball oiler in top of driving pulley washer for clutch lubrication.

Figure 10—Lubrication Points

2. HOW TO REMOVE WIRE CUTTERS *(See Fig.11.)*

The wire cutters have four cutting edges each of which may be used by reversing ends and position of cutters in the cutter holder. To remove and replace the cutters proceed as follows:

a. Raise the wire cutter retainer (1) and slide out the upper wire cutter (2) from the cutter holder (3).

b. Raise the lower cutter (4) to upper cutter position and then slide this cutter from the holder.

c. To replace the cutters, first insert the cutter that is to be the lower cutter into the cutter holder, being sure that the slot in the center of the cutter is toward the rear of the machine. Slide the cutter into the holder until it drops down to its bottom position.

d. Slide the second cutter into the holder and then lower the cutter retainer (1) back into operating position, thereby locking the cutters in the holder.

e. Turn over the machine manually and check that the cutters are operating freely.

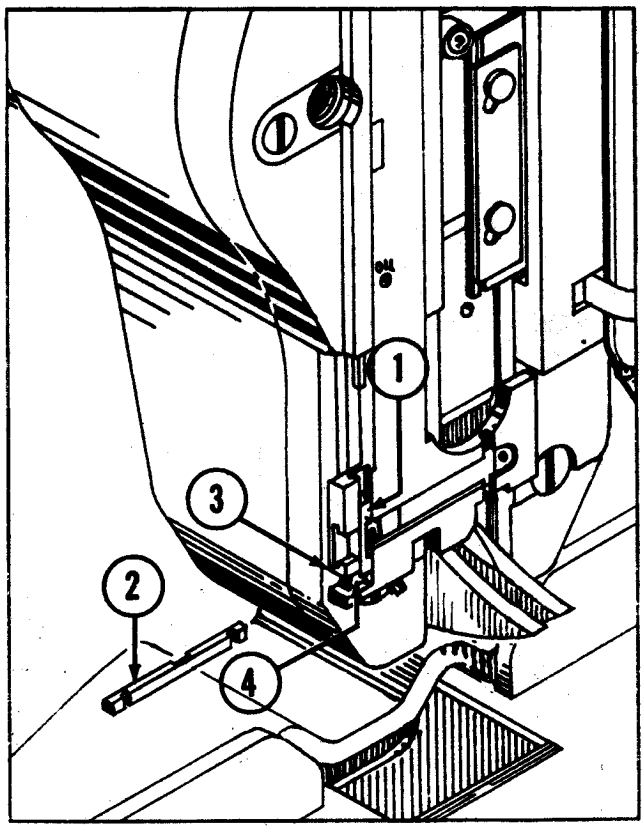


Figure 11—Removing Wire Cutters

3. HOW TO REMOVE WIRE GRIP *(See Fig. 12.)*

The fixed wire grip (1) has two saw-toothed gripping surfaces permitting the reversing of the grip when one side shows signs of wear. To remove and replace the grip, proceed as follows:

a. Disengage the moveable wire grip spring (2) from the moveable wire grip (3).

b. Remove the wire grip retaining screw (4) permitting the removal of the fixed wire grip (1) from the grip holder (5).

c. Reverse and replace the grip in the grip holder, replace and tighten grip retaining screw, and reengage spring with moveable grip.

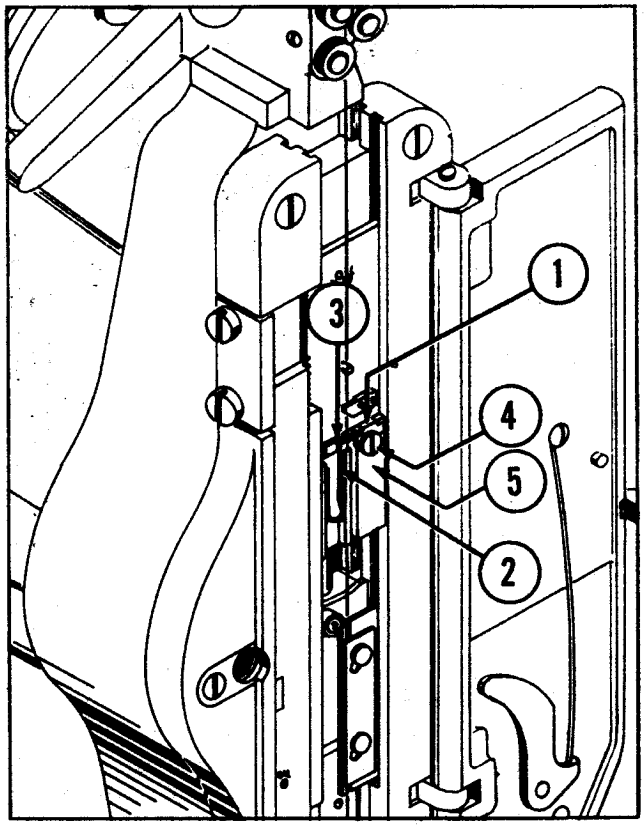


Figure 12—Removing Wire Grip

4. HOW TO REMOVE DRIVER *(See Fig. 13.)*

The driver is double-ended and, when one end is worn or damaged, can be reversed, thereby providing a new driving surface. To remove the driver, proceed as follows:

a. Set the Stitcher for maximum thickness work (Refer to para. 2, on page 7.)

b. Turn over machine manually to the point where the driver (1) is at its highest position and the release hole (2) in the driver is still accessible.

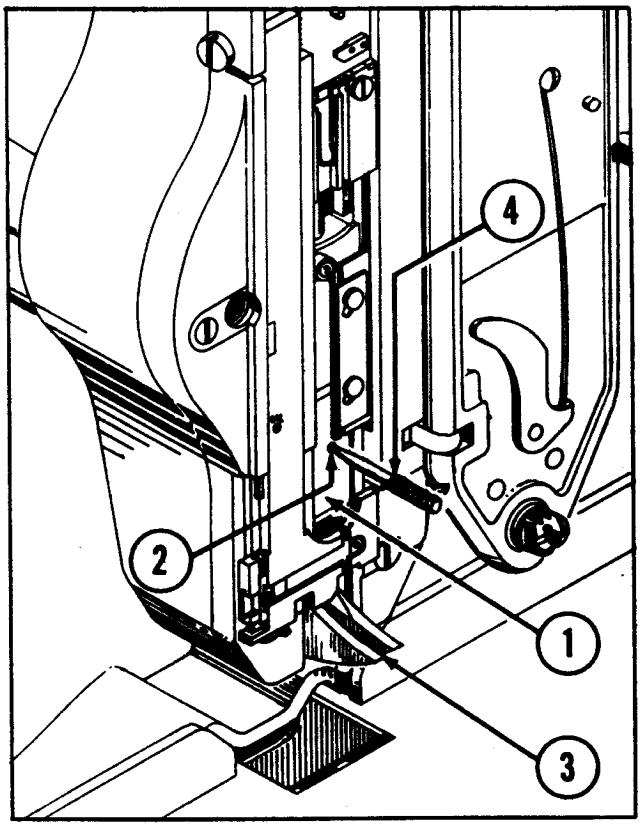


Figure 13—Removing Driver

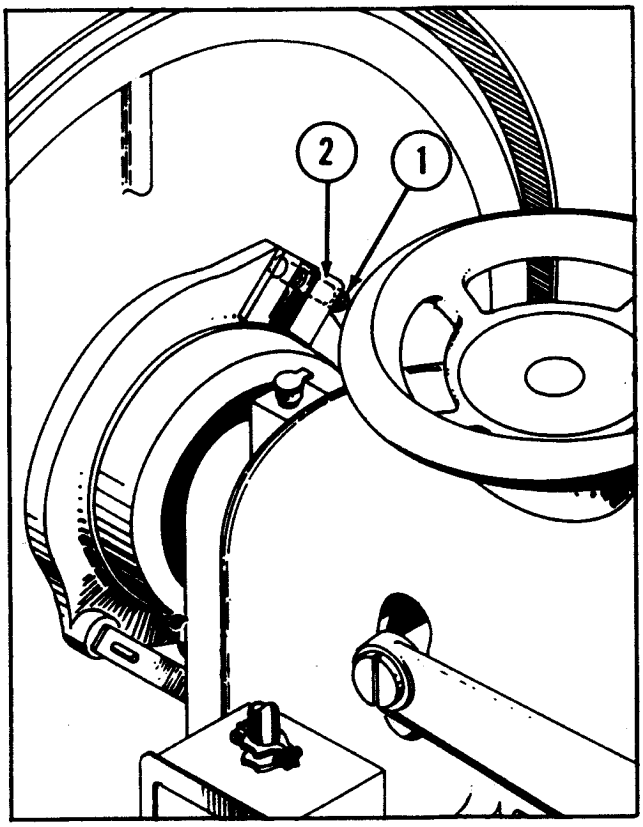


Figure 14—Clutch adjustment

c. Disengage the supporter spring rod from the back of the supporter (3) and then move the supporter to its retracted position.

d. Insert the driver release pin (4), supplied with the Stitcher, in the release hole in the driver, thereby depressing the driver retaining spring, and at the same time push the driver down until it can be withdrawn from the bottom of the bender bar.

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.

5. HOW TO ADJUST FRICTION CLUTCH

(See Fig. 14.)

The friction clutch is adjustable by means of adjusting screw (1) in the brake band (2).

If clutch slips, screw in adjusting screw (1) slightly; if clutch knocks, back-out screw slightly. A quarter turn of the adjusting screw will make considerable difference in the action of the clutch.

6. TROUBLE SHOOTING

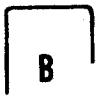
The quality and quantity of work that can be produced with the No. 7 Stitcher are dependent upon the operator making all adjustments as accurately as possible, and carefully maintaining the machine. The cause of staple imperfections usually can be traced to inaccurate settings or adjustments, or normal wear of moving parts. In the event of trouble of this nature occuring, 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 inoperative.

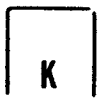
The first column of the chart illustrates perfect and imperfect stitches; the second column describes the imperfections (troubles); the third column lists the probable cause, or causes, for the given trouble, while the fourth column lists the remedy, or remedies, for the troubles and also refers to the paragraph in this book in which will be found detailed information for making the necessary 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.

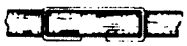
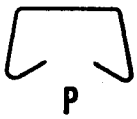
TROUBLE SHOOTING CHART

FORMED STAPLES

Staple	*Trouble*	*Cause*	*Remedy*
 A	Perfect staple	—	—
 B	Right leg short	Cutter not properly adjusted in relation to swivel	Shorten left leg and make same length as right leg (refer to para. 6 page 9; then, adjust length of both legs to desired length (refer to par. 7 page 10).
 C	Left leg short	Clogged or worn grip	Clean grip. Check for worn teeth; reverse or replace grip (refer to para. 3 page 12).
		Left leg feed not adjusted properly	Adjust length of left leg (refer to para. 6 page 9).
 D	Staple corner buckled	Chipped or broken driver	Check driver ends for signs of damage; reverse or replace driver (refer to para. 4 page 12).
 E	Either or both legs buckled	Wrong size wire being used for job being stitched	Check wire size for job being stitched (refer to para. 3 page 7).
		Dull wire cutters	Check wire cutters; reverse or replace wire cutters (refer to para. 2 page 12).
 F	Bent crown	Wrong size wire being used for job being stitched	Check wire size for job being stitched (refer to para. 3 page 7).
		Supporter retracts too easily	Check tension of supporter spring (index no. 67 page 21); increase tension or replace spring.
		Wrong setting of stitcher adjustment for thickness of work being stitched	Check setting of stitcher for thickness of work being stitched (refer to para. 2 page 7).
 G	Partially formed staple	Worn driver bar latch	Replace latch (index no. 211 page 25).
 H	Left leg missing	Wire slipping in grip	Clean grip. If worn grip, reverse grip in holder or replace grip (refer to para. 3 page 12).
 I	Right leg missing	Corner of swivel too sharp	Check swivel; if corner over which wire is formed is too sharp, stone corner slightly

Staple	Trouble	Cause	Remedy
 J	Staple comes out in pieces	Swivel sticking	Clean and lubricate swivel (refer to para. 1 page 11)
		Corner of swivel too sharp	Check swivel; if corner over which wire is formed is too sharp, stone corner slightly
 K	Corner of staple broken or nearly cut thru	Wire too hard	Check wire being used
		Corner of swivel too sharp	Check swivel; if corner over which wire is formed is too sharp, stone corner slightly
 L	Corners of staple rounded	Worn swivel	Replace swivel (index no. 251 page 25)

DRIVEN AND CLINCHED STAPLES

Staple	Trouble	Cause	Remedy
 M	Perfect stitch	—	—
 N	Loose clinch	Wrong setting of stitcher adjustment for thickness of work being stitched, and clinchers set too low	Check setting of stitcher for thickness of work, and raise clinchers (refer to para. 2 page 7, and para. 8 page 10)
 O	Loose clinch	Wrong setting of stitcher adjustment for thickness of work, and clinchers set too high	Check setting of stitcher for thickness of work, and lower clinchers (refer to para. 2 page 7, and para. 8 page 10).
 P	Staple legs spread	Worn wire cutters	Check wire cutters; reverse or replace cutters (refer to para. 2 page 12)
		Wire straighteners not properly adjusted	Check setting of wire straighteners (refer to para. 5 page 9)
		Worn bender bar	Replace bender bar if worn (index no. 212 and 216 page 25)
 Q	Staple legs contracted	Worn wire cutters	Check wire cutters; reverse or replace cutters (refer to para. 2 page 12)
		Wire straighteners not properly adjusted	Check setting of wire straighteners (refer to para. 5 page 9)
 R	Crown buckled, tearing paper	Wrong setting of stitcher adjustment for thickness of work being stitched	Check setting of stitcher for thickness of work (refer to para. 2 page 7)

MEMORANDUM

PART II — PARTS CATALOG

- DISASSEMBLING PROCEDURES
- IDENTIFYING AND ORDERING PARTS
- ILLUSTRATED PARTS LISTS
- PARTS NUMERICAL INDEX

REPAIR PARTS

The instructions, illustrations and parts lists included in the following pages are provided to expedite the ordering of repair parts for the No. 7 Stitcher.

Detailed instructions, with accompanying illustrations (Fig. 15 and 16), for disassembling the Stitcher clutch and head are given in following paragraphs 1 and 2.

Note

Figures 15 and 16 illustrate the disassembling procedures only and are not intended to identify parts for purposes of ordering parts. For ordering repair parts see Fig. 17, Sheets 1 through 4 and the Parts List.

Sheet 1 of Fig. 17 shows the machine Clutch, Drive, and Frame parts. Sheet 2 shows the component parts of the Column and Work Table. Sheet 3 shows the Stitcher Head Face Plates and Wire Straightener Bracket units and their component parts, while Sheet 4 illustrates the Head moving parts together with the Door of the Head and its related parts.

The parts in Fig. 17, Sheets 1 through 4, are identified by "Index Numbers" (circled numbers), and 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 Part Numbers, and serve only as a means of keying the illustrations to the parts lists. 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, and, in a few cases, specifies what information should be supplied when ordering the part.

The third column gives the Part Number of each part and it is this number that must be specified when ordering a required part.

It will be noted that in the Name and Description column (second column) of the Parts List certain parts are followed by one or more other parts, the names of which have been indented in the column. This signifies that the parts that are indented attach to the part under which they are listed, and if that part is ordered it will be shipped with the indented parts attached to it. For example: If a Driving Pulley Washer, Part No. 2217DA (Index No. 1) is ordered, it will be shipped with the Oil Tube, Set Screw, Dowel, Oiler, Screw Lock, and Screw Lock Spring (Index Nos. 2 through 7) attached to it. However, any one of the indented parts can be purchased separately if so desired.

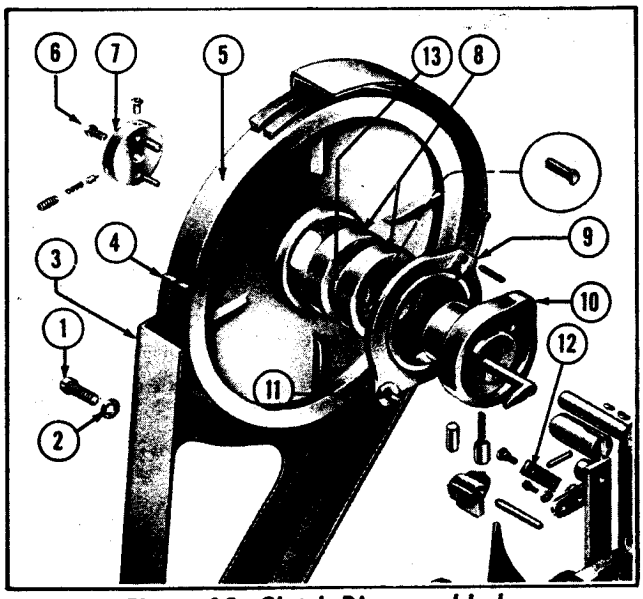


Figure 15—Clutch Disassembled

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.

1. HOW TO DISASSEMBLE AND REASSEMBLE CLUTCH *(See Fig. 15.)*

a. DISASSEMBLING CLUTCH

1—Remove the two belt guard screws and washers (1) and (2) and remove belt guard (3).

2—Slip off the two V-belts (4) from the driving pulley (5).

3—Remove driving pulley washer screw (6) and then remove the driving pulley washer (7) from the end of the main drive shaft.

4—Turn driving pulley (5) to the left and at the same time pull the pulley from the drive shaft.

5—The clutch and brake rings (8), brake band (9), and clincher cam (10) can now be removed from the drive shaft.

b. REASSEMBLING CLUTCH

1—Reassemble the clincher cam (10), brake band (9), and clutch and brake rings (8) on the drive shaft as indicated in Fig. 15, engaging the brake band pin (11) with the brake band link (12). The clutch and brake rings (8), which are identical, must be assembled with the safety pin (13) in each ring engaged in hole in opposite ring.

2—Replace the driving pulley (5) on the clutch ring pushing in on the pulley and turning it to the right at the same time.

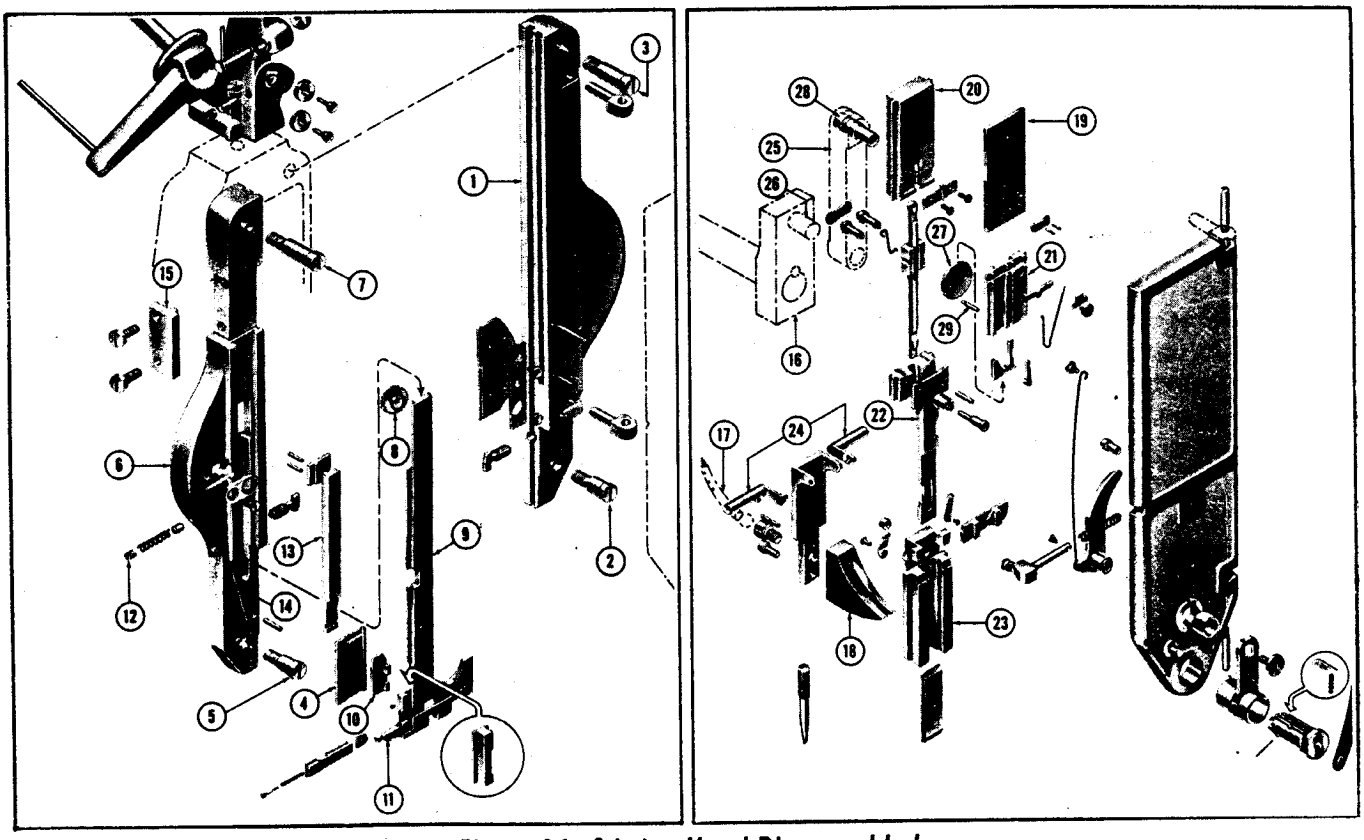


Figure 16—Stitcher Head Disassembled

3—Replace driving pulley washer (7) on drive shaft, insert and securely tighten driving pulley washer screw (6).

4—Slip V-belts on pulley, and attach belt guard.

2. HOW TO DISASSEMBLE AND REASSEMBLE STITCHER HEAD *(See Fig. 16.)*

a. DISASSEMBLING HEAD—In the event that it is necessary to replace the bender bar or any of the other parts operating between the face plates, it is not necessary to remove the left face plate. However, the following instructions include the necessary steps for removing and disassembling the left face plate in the event that those parts in that face plate may need to be replaced.

1—Disconnect power cord from power outlet.

2—Open head door and turn thickness adjustment hand-wheel until gauge is closed.

3—Turn over machine manually until main shaft head (16) is at 45 degree angle on upstroke.

4—Disconnect supporter spring rod (17) from supporter assembly (18).

5—Remove lower screw (2) from right face plate (1) and loosen (do not remove) upper screw (3).

6—Swing right face plate up and to the right until it is in a horizontal position at which point tighten upper screw (3) to hold face plate in this position; hold wire feed slide (19) during this operation to prevent its falling out of head.

7—The wire feed slide (19), upper driving bar (20), wire grip holder (21), driver bar (22), and bender bar (23) assemblies can now be removed from the left face plate. The supporter assembly (18) and supporter cranks (24) can also be removed from the head at this point.

If it is necessary to replace parts in the left face plate, proceed as follows:

8—Turn thickness adjustment handwheel until gauge is open about ¼".

9—Push wire cutter operating slide wedge (4) up until it clears lower screw (5) in left face plate (6), and then remove that screw.

10—Remove upper screw (7) and remove left face plate from head.

11—Remove wire feed adjusting pinion (8) and then slide wire cutter holder (9) from lower end of face plate, being careful that wire cutter operating slide shoe (10) does not disengage from the wire cutter (11) in the holder during this operation.

12—The wire cutter operating slide wedge (4) can now be removed from the face plate.

13—Loosen wire cutter operating slide friction spring screw (12) permitting the removal of the wire cutter operating slide (13) from the face plate.

b. REASSEMBLING HEAD *(See Fig. 16.)*

1—Check that the main drive shaft head (16) is at a 45 degree angle on the upstroke, and that the thickness gauge is open about ¼".

2—If left face plate (6) has been disassembled, reassemble that face plate as follows.

a. Replace wire cutter operating slide (13) in face plate, moving it to its top position at which point tighten the friction spring screw (12).

b. Replace wire cutter operating slide wedge (4) in its groove (14) in face plate, and engage shoe (10) with wire cutter (11) in wire cutter holder (9).

c. Slide wire cutter holder (9) up in groove in face plate, and then replace wire feed adjustment pinion (8) in face plate, meshing with wire feed adjustment rack (15).

3. Attach assembled left face plate (6) to head with upper and lower screws (7) and (5); do not tighten screws securely at this point.

4—Place main shaft connecting link (25) on main shaft head pin (26) with oil hole in link positioned at top.

5—Close thickness gauge, and then replace supporter cranks (24) and supporter assembly (18) in head; do not engage supporter spring rod (17) with supporter at this point.

6—Assemble the bender bar (23), driver bar (22), feed grip plate (27), and upper driving bar (20) assemblies as indicated in Fig. 16.

7—Insert the assemblies into their grooves in the left face plate, engaging upper driving bar pin (28) with main shaft connecting link (25).

8—Engage wire grip holder (21) with feed grip plate (27), with feed grip operating stud (29) inserted in slot in feed grip plate, and position wire grip holder in its groove in left face plate.

9—Holding the above listed assemblies in position in the left face plate, loosen upper screw (3) slightly and swing right face place (1) down nearly into position.

10—Replace wire feed slide (19) in its groove in left face plate, meshing with wire feed adjusting pinion (8), so that top of slide is approximately 1¾" below top of left face plate (6).

11—Swing right face plate down into final position and insert lower screw (2).

12—Open work thickness gauge about ¼" and then securely tighten upper and lower face plate screws (3), (7), (2), and (5).

13—Reengage supporter spring rod (17) with supporter assembly (18), and turn machine over manually to check that all parts operate freely. After being certain that all parts are operating freely, connect power cord, thread wire on head and make a check run of the Stitcher.

3. HOW TO IDENTIFY AND ORDER A PART

a. Locate the required part in the exploded views of the machine, Fig. 17, Sheets 1 through 4, and note the Index No. (circled number) identifying the part.

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 of the list.

d. Order the required part by specifying the Part No. and, when called for in the Name and Description column, specify wire size, voltage, or other characteristic to which the part must conform.

PARTS LIST

For parts identified by Index Nos. 1 to 102 inclusive see Fig. 17, Sheet 1

Index No.	*Name and Description*	*Part Number*
1	Driving Pulley Washer	2217DA
2	*Driving Pulley Washer Oil Tube	2218
3	Driving Pulley Washer Set Screw	UA5804.1
4	Driving Pulley Washer Dowel	5057
5	Driving Pulley Washer Oiler	85221
6	Driving Pulley Washer Screw Lock	2350
7	Driving Pulley Washer Screw Lock Spring	030
8	Driving Pulley Washer Screw	2349
9	Driving Pulley	2331B
10	V-Belt	2290B
11	Belt Guard	2359
12	Belt Shield	2356
13	Belt Guard Bracket	2358
14	Belt Guard Screw	UA7116.2
15	Belt Guard Screw Washer	PW716.2
16	Belt Guard Bracket Screw	UA7120.1
17	Clutch Ring	2332BA
18	Clutch Ring Safety Pin	29
19	Clutch Ring Expanding Pin	2347
20	Brake Band	2339A
21	Brake Band Pin	2344
22	Brake Band Adjusting Screw	2340B
23	Brake Band Adjusting Screw Lock	2341
24	Brake Band Adjusting Screw Lock Spring	9051
25	Clincher Cam	7050B
26	Clutch Lever	2333
27	Clutch Lever Pivot Pin	2334
28	Clutch Pawl Plunger	2338
29	Clutch Lever Spring Plunger	2336
30	Clutch Lever Spring	2335
31	Clutch Pawl	2337
32	Brake Band Link	2342
33	Brake Band Link Stud	2343
34	Clincher Cam Slide Strap	2345
35	Clincher Cam Slide Strap Screw Lock Washer	LW10.3
36	Clincher Cam Slide Strap Screw	UA3308.1

(*Continued on page 22*)

* = Part should be installed by BOSTITCH service man.

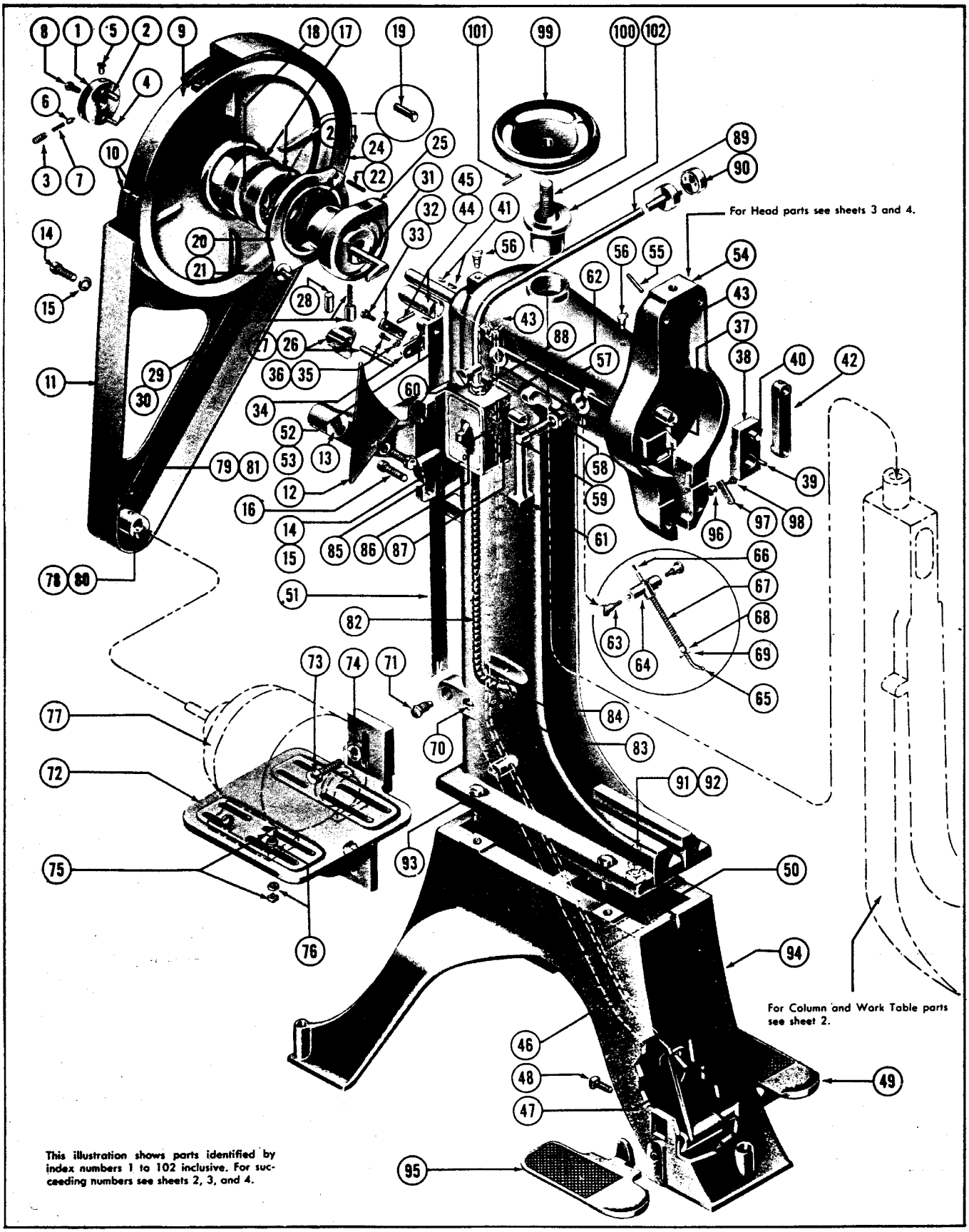


Figure 17 (Sheet 1)—Stitcher Component Parts

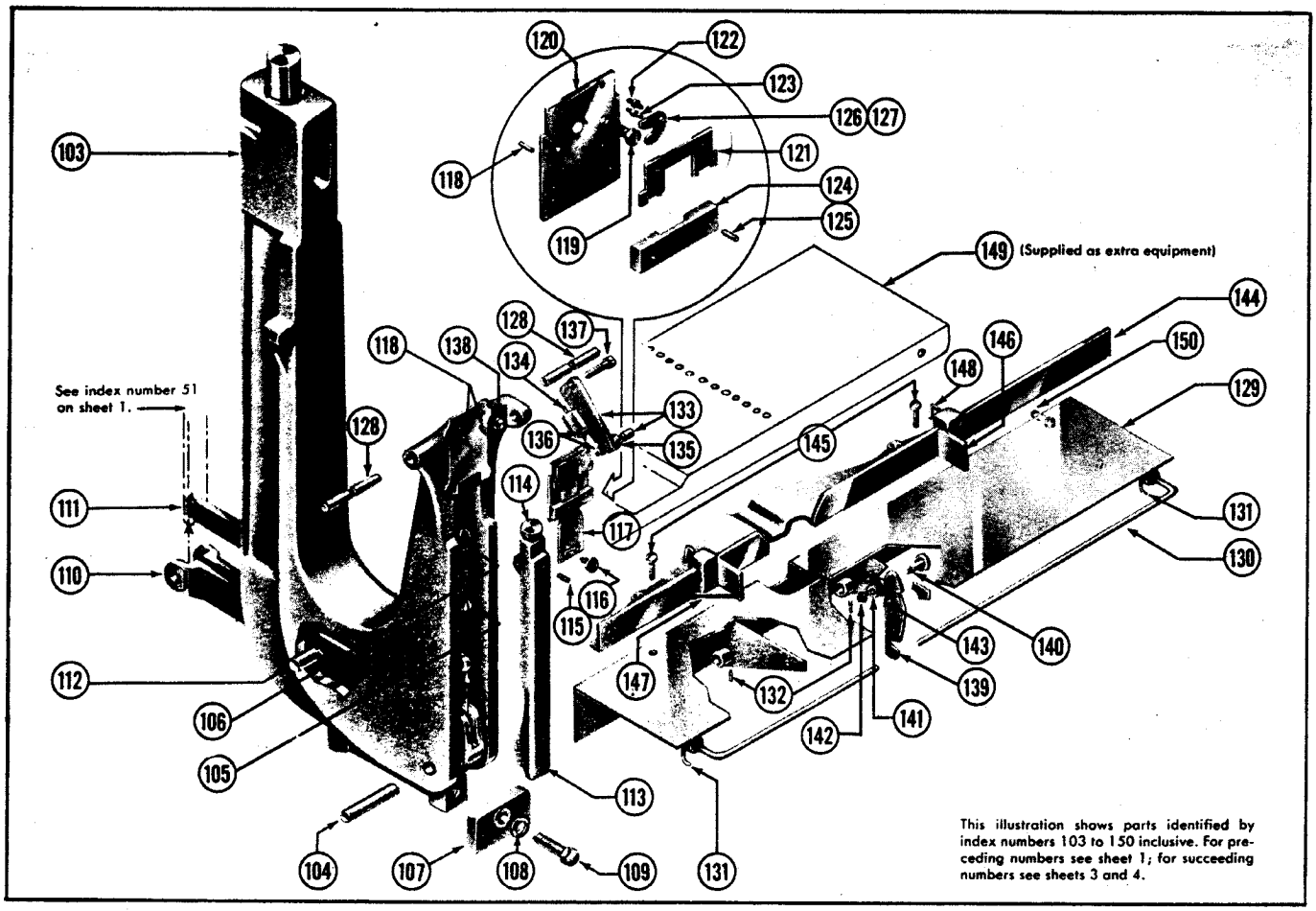


Figure 17 (Sheet 2)—Stitcher Component Parts

PARTS LIST (continued)

Index No.	Name and Description	Part Number
37	Main Shaft	7064BA
38	*Main Shaft Head	7068
39	*Main Shaft Head Pin	2222B
40	*Main Shaft Crank Pin	7067
41	Main Shaft Key	66B
42	Main Shaft Connecting Link	7065
43	Main Shaft Bushing	70
44	Stop Plunger	7011BA
45	Stop Plunger Pin	12
46	Stop Plunger Lever	7013
47	Treadle Shaft Arm	7
48	Treadle Shaft Arm Set Screw	UA6816.1
49	Treadle and Shaft	4
50	Stop Plunger Lever Spring	14
51	Clincher Driving Bar	7047A
52	*Clincher Driving Bar Roll	48
53	*Clincher Driving Bar Roll Stud	49
54	Frame	7017
55	Main Shaft Connecting Link Oil Tube	318
56	Oiler	85202
57	Adjusting Lever	7123
58	Adjusting Lever Eccentric Bushing	7121
59	Adjusting Lever Eccentric Bushing Screw	7122
60	Adjusting Lever Stud	7124
61	Column Gauge	7021
62	Column Gauge Pin	7022
63	Supporter Spring Rod Guide Stud	7244
64	Supporter Spring Rod Guide	7243
65	Supporter Spring Rod	7241
66	Supporter Spring Rod Stop Screw	7252
67	Supporter Spring	7240
68	Supporter Spring Rod Collar	7242
69	Supporter Spring Rod Cotter Pin	UB2908.1
70	Stop Plunger Lever Screw	7006
71	Clincher Slide Actuating Link Connection Shoe Stud	7006
72	Motor Bracket	261B
73	Motor Bracket Screw	SB750
74	Motor Bracket Screw Washer	PW38
75	Motor Bolt	UA4824.1
76	Motor Bolt Washer	PW14
77	Motor (Specify voltage) ⅓ HP-1725 RPM Std.	
78	Motor Pulley (for use with 1725 RPM Motor)	346CA
79	Motor Pulley Set Screw	UA5804.1
80	Motor Pulley (for use with 1425 RPM Motor)	11348CA
81	Motor Pulley Set Screw	UA5806.1
82	Armored Cable (25" long)	85196
83	Terminal	85199
84	Motor Connector	85126
85	Circuit Breaker	86038
86	Heater Unit (Specify motor amperage)	
87	Circuit Breaker Screw	UA4206.1
88	Connector	85128
89	Power Cord (Supplied for Single Phase and D.C. motors only)	85086
90	Adapter Plug (for 2 Wire System)	85091
91	Column Stop Screw	UA6832.3
92	Column Stop Screw Nut	HN3816.2
93	Frame Screw	191

* = Part should be installed by BOSTITCH service man.

Index No.	Name and Description	Part Number
94	Base	1
95	Foot Rest	3
96	Finger Guard Collar	321
97	Finger Guard	320
98	Finger Guard Thumb Screw	UA3812.3
99	Hand Wheel	143
100	*Hand Wheel Screw	144
101	*Hand Wheel Screw Dowel	145
102	Column Bushing	7020

Following parts, Index Nos. 103 to 150 inclusive, are shown on Sheet 2 of Fig. 17

103	Column	7019BA
104	Column Pin	7200
105	Clincher Slide Actuating Link Spring Pin	36
106	Clincher Slide Actuating Link Spring	35
107	Column Block	7192
108	Column Adjusting Washer	179
109	Column Adjusting Screw	191
110	Clincher Slide Actuating Link Connection Shoe	44B
111	Clincher Slide Actuating Link Connection	40
112	Clincher Slide Actuating Link Connection Pin	41
113	Clincher Slide Actuating Link	7034
114	Clincher Slide Actuating Link Plunger	37
115	Clincher Slide Actuating Link Set Screw	38
116	Clincher Slide Actuating Link Retaining Screw	39
117	Clincher Slide	7255
118	Clincher Plate Dowel	29
119	Clincher Plate Screw	341
120	Clincher Plate	7253A
	Clincher Plate (For 19x21½ Flat Wire only)	7253DA
121	*Clincher Guide Plate	7254
	*Clincher Guide Plate (For 19x21½ Flat Wire only)	7254C
122	*Clincher Pivot Stud	7258
123	*Clincher Plate Distance Stud	7259
124	*Clincher Slide Strap	7256
125	*Clincher Slide Strap Rivet	7260
126	Clincher Point—Round Wire	7257B
127	Clincher Point—Flat Wire	7024B
	Clincher Point (For 19x21½ Flat Wire only)	7024C
128	Work Table Swivel Pin	203B
129	Work Table	7656A
130	Work Table Extension—Front	7056
131	Work Table Extension Screw	425
132	Work Table Swivel Pin Screw	38
133	Work Table Support Bracket	7645A
134	Work Table Adjusting Screw—(Flat Position)	UA4820.3
135	Work Table Adjusting Screw—(Saddle Position)	UA4828.3
136	Work Table Position Adjusting Screw Nut	HN1420.2
137	Work Table Support Bracket Screw	UA5116.1
138	Work Table Support Bracket Nut	HN51618.2
139	Work Table Support	7648
140	Work Table Support Stud	7655
141	Work Table Support Stud Washer	PW10
142	Work Table Support Stud Nut	HN1032
143	Work Table Support Spring	B554
144	Work Guide	7201
145	Work Guide Binder Screw	7063
146	Work Stop—Right	7423
147	Work Stop—Left	7424
148	Work Stop Screw	425
149	Work Table Extension-Back (Extra equipment)	53
150	Work Table Extension Screw (Extra equipment)	59

Following parts, Index Nos. 151 to 198 inclusive, are shown on Sheet 3 of Fig. 17

151	Wire Guide Spring	7153A
152	*Wire Guide Spring Stud	2110B
153	Wire Straightener Bracket	7276
154	Wire Straightener Bracket Screw	300
155	Wire Straightener Roll	7277
	Wire Straightener Roll (For 19x21½ Flat Wire only)	7277B
156	Wire Straightener Roll Stud	7278
157	Wire Straightener Eccentric	7282
158	Wire Straightener Eccentric Pin	7280
159	Wire Straightener Eccentric Friction	7281
160	Wire Straightener Eccentric Friction Screw	38
161	Wire Spool Stud	7155
162	Wire Spool Stud Washer—Large	2245
163	Wire Spool Stud Washer—Small	174
164	Wire Straightener Bracket Stud	7227
165	Face Plate Screw—Upper	7084
166	Face Plate Screw—Lower	7085
167	Face Plate—Left	7082A
168	*Driver Bar Latch Wedge—Left	7095
169	Wire Feed Adjusting Rack	7113
170	Wire Feed Adjusting Rack Screw	7219
171	Door Latch Catch	7199
172	Door Latch Catch Screw	7210
173	Driver Bar Latch Stop Pin—Left	7236
174	Wire Cutter Operating Slide Friction	7204
175	Wire Cutter Operating Slide Friction Spring	7205
176	Wire Cutter Operating Slide Friction Spring Screw	38
177	Wire Cutter Operating Slide	7107A
178	*Wire Cutter Operating Slide Block	7106
179	*Wire Cutter Operating Slide Rivet	7108
180	Wire Cutter Operating Slide Shoe	7104
181	Wire Cutter Operating Slide Wedge	7105
182	Wire Cutter Holder	7103A
183	Wire Holder Block	7131
184	Wire Feed Adjusting Pinion	7114
185	Wire Cutter Retainer	7109
186	Wire Holder Slide	7130
	Wire Holder Slide (For 19x21½ Flat Wire only)	7130B
187	Wire Holder Slide Spring	7166
188	Wire Holder Slide Spring Pin	7168
189	Wire Cutter	7102
190	Face Plate—Right	7083A
191	*Door Hinge	7118
192	*Driver Bar Latch Wedge—Right	7208
193	Wire Guide Rivet	7236
194	Wire Guide	7111A
	Wire Guide (For 19x21½ Flat Wire only)	7111BA
195	*Wire Retainer	7167
196	*Wire Retainer Stud—Upper	7196
	*Wire Retainer Stud—Upper (For 19x21½ Flat Wire only)	7196B
197	*Wire Retainer Stud—Lower	7197
	*Wire Retainer Stud—Lower (For 19x21½ Flat Wire only)	7197B
198	Driver Bar Latch Stop Pin—Right	7096

Following parts, Index Nos. 199 to 267 inclusive, are shown on Sheet 4 of Fig. 17

199	Upper Driving Bar	7170A
200	Upper Driving Bar Crank Pin	7169
201	Driving Bar Wedge	7173
202	Driving Bar Wedge Screw	7088
203	Driver Bar	7091A
204	*Driver Spring	7090
205	*Driver Spring Rivet	7202
206	*Driver Bar Block	7092
207	*Driver Bar Rivet	7207
208	Feed Grip Rod	7093
209	*Swivel Operating Lever Cam Roll	7194
210	*Swivel Operating Lever Cam Roll Stud	7195
211	Driver Bar Latch	7094
212	Bender Bar (For 20 x 24, 20 x 25, 21 x 25 Flat Wire, and 28 to 24 Round Wire.) When ordering Bender Bar specify wire size	7086A
213	Driver Bar Latch Friction	7223
214	*Driver Bar Latch Friction Spring	7224
215	*Driver Bar Latch Friction Spring Rivet	7228
216	Bender Bar (For 19 x 21½ Flat Wire only)	7086BA
217	Driver Bar Latch Friction	7223
218	*Driver Bar Latch Friction Spring	7224
219	*Driver Bar Latch Friction Spring Rivet	7228
220	Driver (For 28 to 24 Round Wire. Can also be used for 20 x 24, 20 x 25, and 21 x 25 Flat Wire)	7089E

(*Continued on page 25*)

* = Part should be installed by BOSTITCH service man.

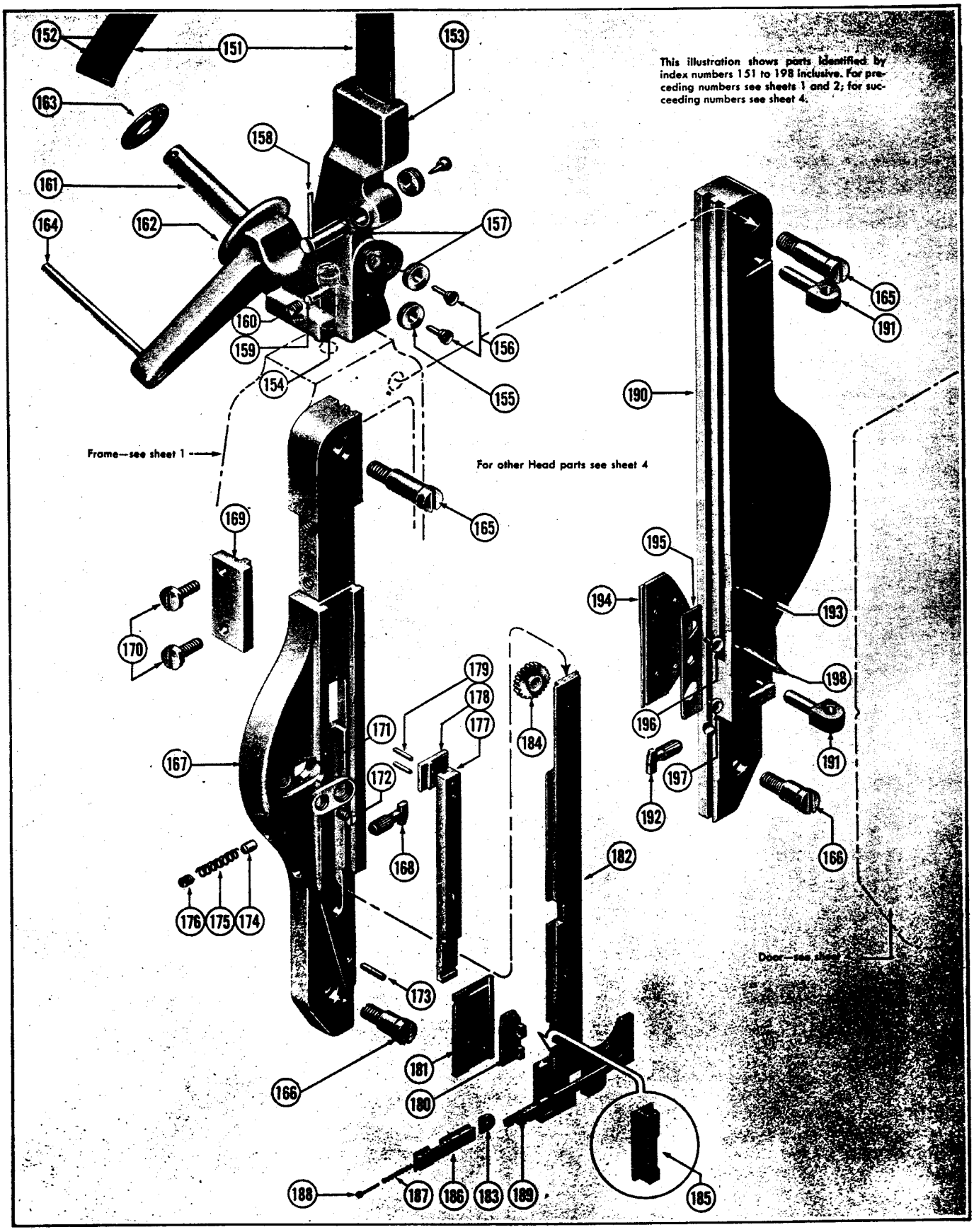


Figure 17 (Sheet 3)—Stitcher Component Parts

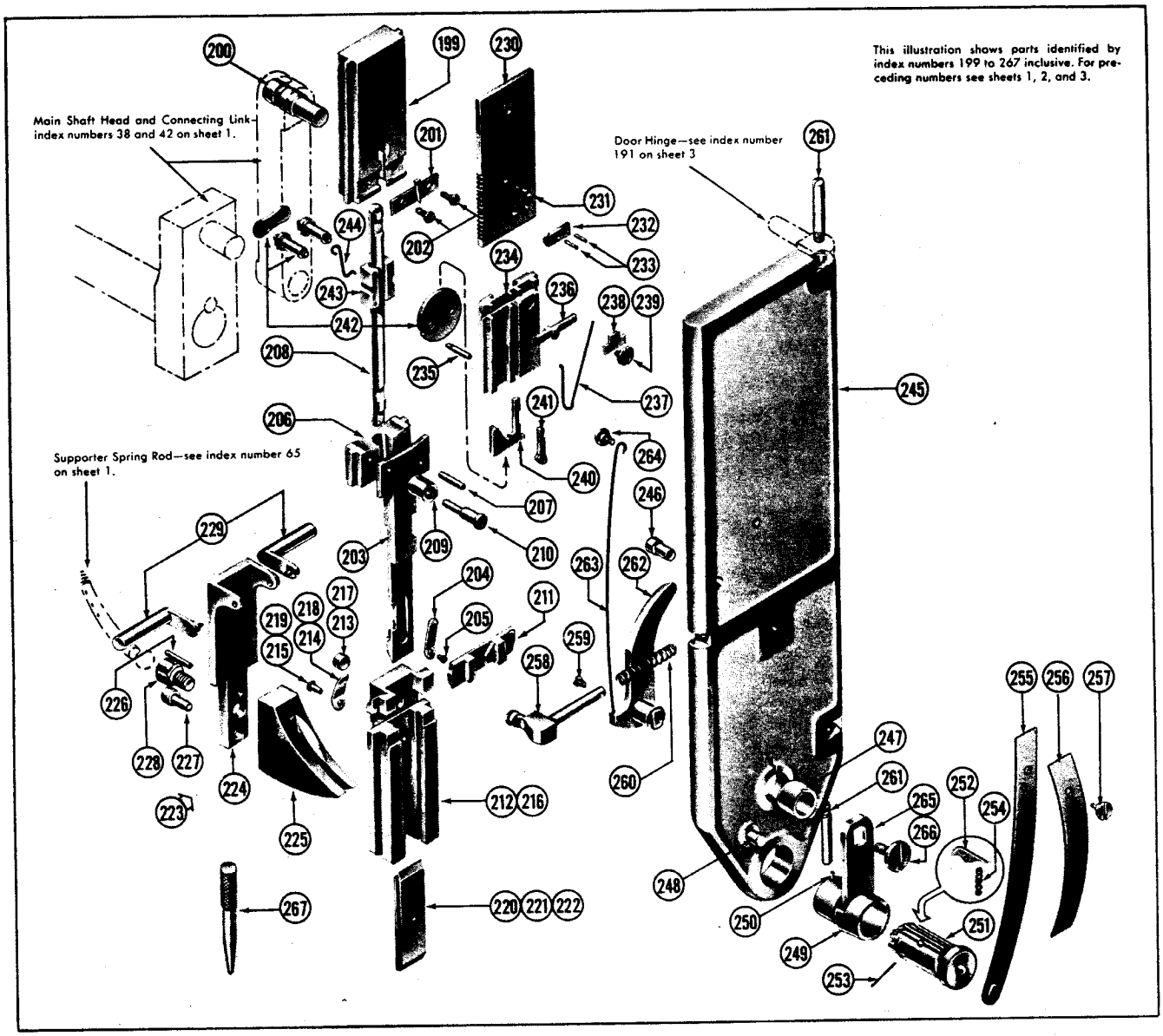


Figure 17 (Sheet 4)—Stitcher Component Parts

PARTS LIST (continued)

Index No.	Name and Description	Part Number
221	Driver (For 20 x 24, 20 x 25, and 21 x 25 Flat Wire only)	7089F
222	Driver (For 19 x 21½ Flat Wire only)	7089G
223	Supporter Assembly	7100A
224	Supporter Link	7100
225	Supporter	7097A
226	Supporter Dowel	C-235
227	Supporter Dowel	7099
228	Supporter Screw	7245
229	Supporter Crank	7101
230	Wire Feed Slide	7112A
231	Wire Feed Slide Stud	7214
232	*Wire Clip	7212
233	*Wire Clip Pin	7218
234	Wire Grip Holder	7133A
235	*Feed Grip Plate Operating Stud	7217
236	Wire Grip—Moveable	7136
237	Wire Grip Spring	7134B
238	Wire Grip—Fixed	7132B
239	Wire Grip Screw	7135
240	Grip Operating Lever Slide	7178
241	Grip Operating Lever	7176
242	Feed Grip Plate	7126A
243	Wire Feed Shoe	7154
244	Wire Feed Shoe Spring	7190
245	Door	7137A
246	Door Stop Pin	7164
247	*Swivel Operating Lever Bushing	7145
248	Swivel Operating Lever Sector Stop Pin	7161
249	Swivel Bushing	7139A
250	*Swivel Bushing Locating Pin	7221
251	Swivel	7138A
252	Swivel Hook	7232
253	Swivel Hook Pin	7233
254	Swivel Hook Spring	7234
255	Swivel Spring	7140
256	Swivel Spring Reinforcing Strip	7265
257	Swivel Spring Screw	154
258	Door Latch	7115A
259	Door Latch Stop Screw	7117
260	Door Latch Spring	7180
261	Door Hinge Screw	7120
262	Swivel Operating Lever	7142
263	Swivel Operating Lever Spring	7226
264	Swivel Operating Lever Spring Screw	7144
265	Swivel Operating Lever Sector	7146
266	Swivel Operating Lever Sector Screw	7160
267	Driver Release Pin	5160

* = Part should be installed by BOSTITCH service man.

When ordering part specify Part Number

PARTS NUMERICAL INDEX

Part No.	Name and Description	Index No.
030	Driving Pulley Washer Screw Lock Spring	7
1	Base	94
3	Foot Rest	95
4	Treadle and Shaft	49
7	Treadle Shaft Arm	47
12	Stop Plunger Pin	45
14	Stop Plunger Lever Spring	50
29	Clincher Plate Dowel	118
29	Clutch Ring Safety Pin	18
35	Clincher Slide Actuating Link Spring	106
36	Clincher Slide Actuating Link Spring Pin	105
37	Clincher Slide Actuating Link Plunger	114
38	Clincher Slide Actuating Link Set Screw	115
38	Wire Cutter Operating Slide Friction Spring Screw	176
38	Wire Straightener Eccentric Friction Screw	160
38	Work Table Swivel Pin Screw	132
39	Clincher Slide Actuating Link Retaining Screw	116
40	Clincher Slide Actuating Link Connection	111
41	Clincher Slide Actuating Link Connection Pin	112
44B	Clincher Slide Actuating Link Connection Shoe	110
48	Clincher Driving Bar Roll	52
49	Clincher Driving Bar Roll Stud	53
53	Work Table Extension—Back	149
59	Work Table Extension Screw	150
66B	Main Shaft Key	41
70	Main Shaft Bushing	43
143	Hand Wheel	99
144	Hand Wheel Screw	100
145	Hand Wheel Screw Dowel	101
154	Swivel Spring Screw	257
174	Wire Spool Stud Washer—Small	163
179	Column Adjusting Washer	108
191	Column Adjusting Screw	109
191	Frame Screw	93
203B	Work Table Swivel Pin	128
261B	Motor Bracket	72
300	Wire Straightener Bracket Screw	154
318	Main Shaft Connecting Link Oil Tube	55
320	Finger	97
321	Finger Guard Collar	96
341	Clincher Plate Screw	119
346CA	Motor Pulley (for use with 1725 RPM Motor)	78
425	Work Table Extension Screw	131
425	Work Stop Screw	148
2110B	Wire Guide Spring Stud	152
2165	Staple Wire Oiler Plate	
2166	Oiler Felt Retainer	
2167	Oiler Felt	
2217DA	Driving Pulley Washer	1
2218	Driving Pulley Washer Oil Tube	2
2222B	Main Shaft Head Pin	40
2245	Wire Spool Stud Washer—Large	162
2290B	V-Belt	10
2331B	Driving Pulley	9
2332BA	Clutch Ring	17
2333	Clutch Lever	26
2334	Clutch Lever Pivot Pin	27
2335	Clutch Lever Spring	30
2336	Clutch Lever Spring Plunger	29
2337	Clutch Pawl	31
2338	Clutch Pawl Plunger	28
2339A	Brake Band	20
2340B	Brake Band Adjusting Screw	22
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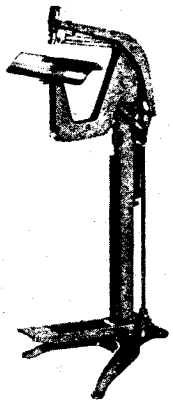
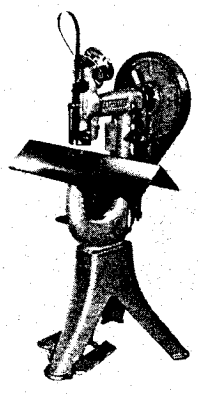


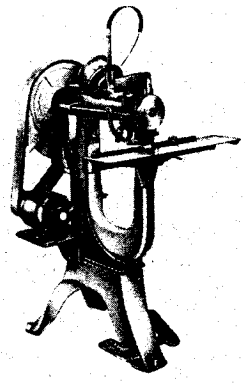
BOSTITCH EHFS
Flat-and-Saddle Stapler

Standard equipment for small print shop. Auxiliary equipment for larger shops.



BOSTITCH NO. 2
Stitcher

For fast operation on light work. The fastest, most popular pamphlet stitcher.



BOSTITCH NO. 3D
Stitcher

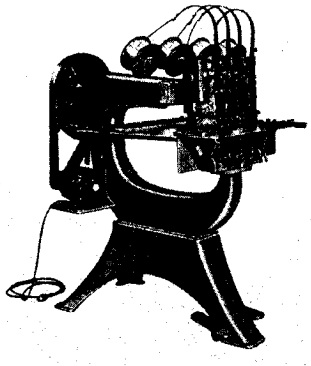
Capacity from 2 sheets to ½ inch. Makes very flat clinch.

BOSTITCH NO. 7
Stitcher

Combination light and heavy duty stitcher for both flat and saddle work. Capacity from 2 sheets to 7/8 inch.

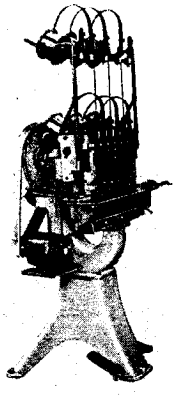
BOSTITCH NO. 19
Stitcher

Ruggedly built for high speed on heavy duty work. Capacity from 2 sheets to 9/16 inch.



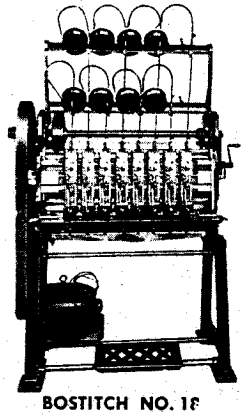
BOSTITCH NO. 16
Stitcher

For stitching calendar pads to backs. Up to 3/16 inch thickness.



BOSTITCH NO. 17
Stitcher

A multiple-head stitcher for small pamphlets, check books, coupon books, in gangs from 2 to 10 up. Flat and saddle table.



BOSTITCH NO. 18
Stitcher

Multiple-head machine for flat stitching only. Work may be fed into front and removed from back. Up to eight heads.

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

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