

# PARTS and INSTRUCTIONS

**FOR** 

17 & 24 CLASS MACHINES

Models

17-10 24-1<u>2</u>

LEWIS INVISIBLE STITCH MACHINE COMPANY

FACTORY

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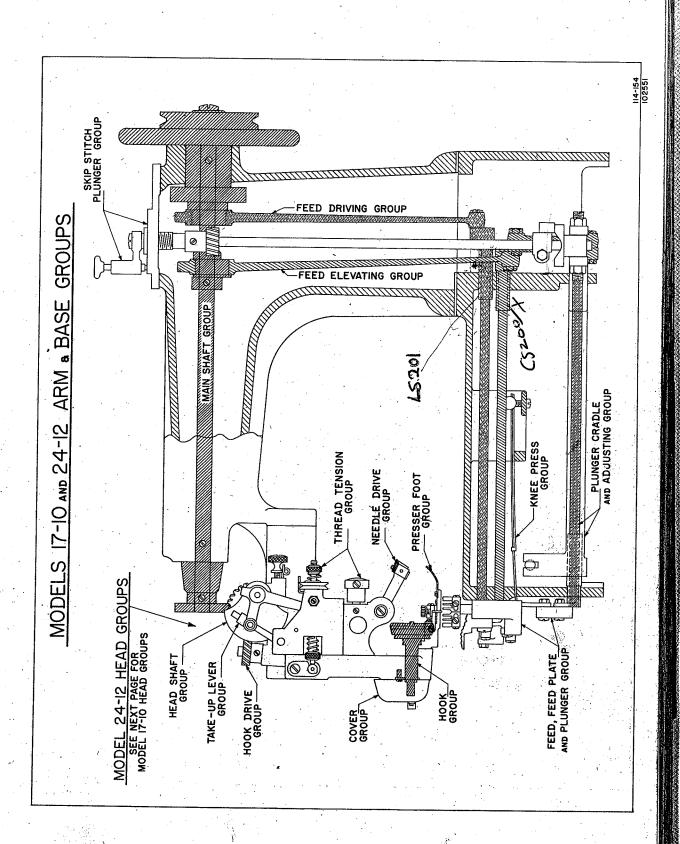
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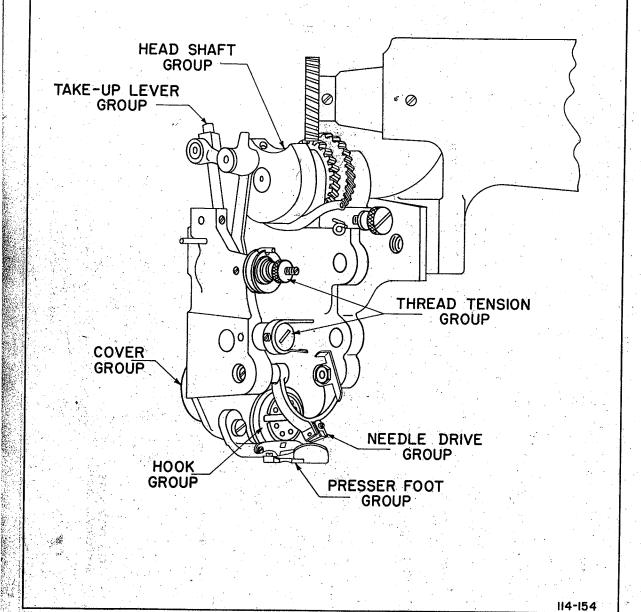
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# MODEL 17-10 HEAD GROUPS



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#### INSTRUCTIONS FOR OPERATING AND ADJUSTING LEWIS MODEL 17-10 and 24-12 LOCK STITCH MACHINES

1. This catalogue covers the Models 17-10 and 24-12 machines, described on pages 5 and 6. The catalogue is intended to provide operating and adjusting instructions for these models as well as illustrations and descriptions of the parts used. A general index to all subjects covered appears on page 1.

#### ORDERING PARTS

- 2. Order by part number, giving description of the part, quantity needed, and model number and serial number of the machine for which the part is required. The model number is located at the top of the column of the arm. The serial number is stamped into the number pad near the bottom of the column of the arm. On the older machines, the serial number will be found stamped in the arm under the top cover near the hand wheel.
- 3. To assist in ordering parts, the machine has been broken down into groups (such as presser foot group, hook group, etc.) Each of these groups has been shown in a separate illustration accompanied by a list giving the part numbers and descriptions of the parts in the group. See pages 28 thru 71.
- 4. If the part number is known, refer to the Numerical list of Parts on pages 72 thru 75 at the back of the catalogue. This list shows all the plate numbers of the groups in which the part is used. If the part number is not known, refer to the illustrations on pages 3 and 4 to determine the group in which the part is located. The list of groups on page 2 will give the number of the page on which the group in question is located.
- 5. This catalogue covers the following models: 17-10 and 24-12.
- 6. Lewis Model 17-10 is a 45° two thread lock stitch raised flat bed machine, for operations on men's and women's garments, felling facings and bottoms of coats finished with piping, with turned under edge, or with pinked edge. Machine sews a straight line stitch with a 2-to-1 skip stitch or non skip stitch.
- 7. Lewis Model 24-12, is a two thread lock stitch raised flat bed machine. Head is set at 90°, for felling together, the canvas and

cloth at the edge of sack coats and overcoats finished with a plain edge, Sometimes referred to as a bluff edge.

## UNPACKING AND SETTING UP

- 8. To remove the machine from the box, take off the cover and remove the nails and screws that hold the brace blocks in position. Use a nail puller to avoid breaking the machine. These blocks are held by nails or screws driven through the outside of the box. The knee lifter and bobbin winder are attached to the side of the box, and the other small parts will be found wrapped in a package. Be sure to look carefully through the material used for packing before destroying it, so that you will find all the parts and equipment that goes with the machine. Lift the machine out of the box very carefully to avoid breaking the take-up and tension study as these parts project beyond the head of the machine.
- 9. To protect the machine from rusting while in transit, all parts are covered with vaseline, which must be carefully wiped off before the machine is put in operation. Take off aluminum head cover by loosening thumb screw. To remove this cover the take-up must be at its lowest point. Use gasoline or petrol to remove the grease from the hook and bobbin case, so as to allow the thread to pass over the hook freely. Also wipe foot, needle and other exposed parts. When shipping machines to distant countries, it is necessary to remove the head mechanism and pack separately, so as to insure delivery in good order. To aid reassembly, the castings and gears are marked with red paint, showing the relative position of the head mechanism on the frame of the machine and also the timing of the gears.

#### HAND WHEEL

10. The hand wheel turns away from the operator, that is to say in a clockwise direction when seen from the hand wheel end of the machine.

## OILING AND CLEANING

11. Proper lubrication and thorough cleaning of the machine is of first importance. Lewis Invisible Stitch Machines will give years of service and satisfaction if reasonable care is taken in keeping them properly oiled and cleaned. The machine should be oiled and cleaned

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daily as lint and dirt accumulates in the moving parts, causing them to function improperly.

- 12. In cleaning the machine always remove the cover from the head and wipe off the parts with a clean cloth. Do not use waste. By turning the hand wheel you will see the various moving parts, bearings, gears, etc. and oil holes. A few drops of oil should be placed on these small parts daily. On a new machine it is necessary to place a drop of oil in back of the bobbin case race-way every two or three hours. The hook shaft should be oiled through the hole in the casting to the right of the hook. A drop of oil well placed will do more good than ten drops that do not reach the parts requiring it.
- 13. Besides thoroughly oiling the head mechanism it is also necessary to lubricate the plunger and feed mechanism. The feed mechanism will be found in the bed of the machine immediately below the presser foot. This mechanism may be uncovered by removing the work plate, or by turning the machine back on the hinges.
- 14. On all types of machines there are movable parts that require oiling near the base, immediately below the hand wheel. By turning back the machine, several movable parts will be found in the base, all of which require daily lubrication.
- 15. It is also necessary to oil the machine at the top underneath the plate near the hand wheel Figure O, Page 20.
- 16. See that the feed points (Figure P) Page 21 are cleaned every day to avoid lint accumulating. Accumulation of lint in the feed points will cause the machine to feed improperly.

#### SPEED

- 17. Lewis Model 17-10 can be operated up to 1500 sitches per minute. A speed of 900 too 1200 stitches per minute is recommended in starting a new machine or with a new operator.
- 18. Lewis Model 24-12 can be operated from 900 to (1100) stitches per minute.

#### **NEEDLES**

19. Needles for Lewis Invisible Stitch Machines are furnished in all necessary sizes with either a taper point or a ball eye. Taper

point needles are recommended for light materials and materials difficult to penetrate. Ball Eye needles are recommended for heavier materials and soft finished materials. If the material has a tendency to hug or ride with the needles on its return stroke, making it impossible to form a good loop, it is a good indication that a Ball Eye needle is required.

- 20. The selection of the proper size and kind of needle is of first importance. The last whole figure (and fraction if indicated) is the size of the needle, thus 29-133-1/2 is a number 3-1/2 Ball Eye needle for Lewis Class 17 and 24 Machines. The 3-1/2 indicated that the blade of the needle is .035" in diameter.
- 21. A number 3-1/2 needle will be found satisfactory for work of average weight. For lighter than average material, use a smaller needle, such as a number 3. For heavier than average material, use larger needle, such as a number 4 or a number 4-1/2. No matter what needle is selected, be sure that the eye is large enough to permit he thread or yarn that is to be used to run freely through the eye of he needle.
- 22. Needles for Lewis 17-10 and 24-12 machines are furnished a the following sizes:

Taper Point	and a second	Ball Eye
Not Scarfed		Not Scarfed
29-123		
29-123-1/2		29-132-1/2 29-133
29-124		29-133-1/2
29-124-1/2		29-134
		29-134-1/2

23. Use ONLY genuine LEWIS Needles. Look for the copyghted word "LEWIS" stamped on the shank of each needle. All nuine Lewis Invisible Stitch Machine needles have the name Lewis id the correct size stamped on each shank.

#### THREAD

24. COTTON. Use any good grade of left-twist three cord rd finish cotton in sizes 60 or 70 in the needle. In the bobbin use a ser thread than in the needle. We recommend sizes 80 to 100. If ercerized thread is used, use either "O" or "OO" in the needle and her "OO" or "OOO" in the bobbin.

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final stitcl will have ( work and a hand whee 25. SILK: Use either "O" or "OO" in the needle and either "OO" or "OOO" in the bobbin.

## THREADING MACHINE

26. For threading Models 17-10 and 24-12, see Threading Chart on page 11. Until thoroughly familiar with the process of threading, we recommend that the take-up be at its highest point during the threading.

#### INSERTING BOBBIN

- 27. Turn hand wheel until the needle is farthest away from the bobbin case. Open bobbin case latch, figure A, to discharge empty bobbin.
- 28. When inserting full bobbin, be sure that the thread unwinds from the under side of the bobbin, as is clearly shown in the adjoining illustration. Hold the end of the thread in the right hand and insert it in the slot on the right side of the bobbin case. Leave the thread three or four inches long on the outside of the bobbin case. With a new operator we suggest that the needle thread be held lightly in the hand and the wheel be turned by hand until the first stitch is completed, which will draw the bobbin thread underneath the tension spring.

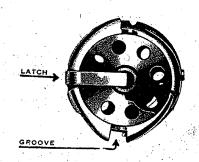


Figure A
Note that thread unwinds
from Underside of
Bobbin,

## INSERTING AND REMOVING WORK

- 29. See that the needle is threaded properly and that the bobbin is inserted correctly. Have the needle farthest away from the bobbin case. Open the knee press and insert the work.
- 30. To remove work from the machine, first make sure that the final stitch has been completed. This of course means that the hook will have cast off the needle thread. The needle should be out of the work and approximately as far back on its up stroke as it will go. Turn hand wheel by hand backwards about a quarter of a turn to cause the

plunger to drop out of the way. Pull off three or four inches of needle thread from the spool by grasping the needle thread between the needle carrier and the take-up. See page 11. Open the knee press and remove the work by drawing it backwards, not sideways. For convenience the needle and bobbin thread may be cut on the thread clip and cutter mounted on the back of the hook gear cover. See page 44. The ends of both threads will then be properly held for the beginning of the next progresses through the machine.

31. CAUTION: Do not run machine without material under the presser foot unless the feed point is out of contact with the foot and the needle thread is out of the needle.

## ADJUSTING LENGTH OF STITCH

32. This adjustment is provided at the top of the machine. Turn back the nickled plate next to the hand wheel in order to expose the moving parts, as noted in figure B. Loosen lock screw B by turn-

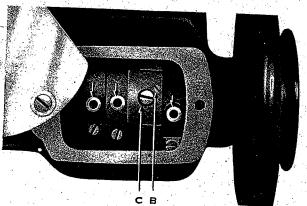


Figure B

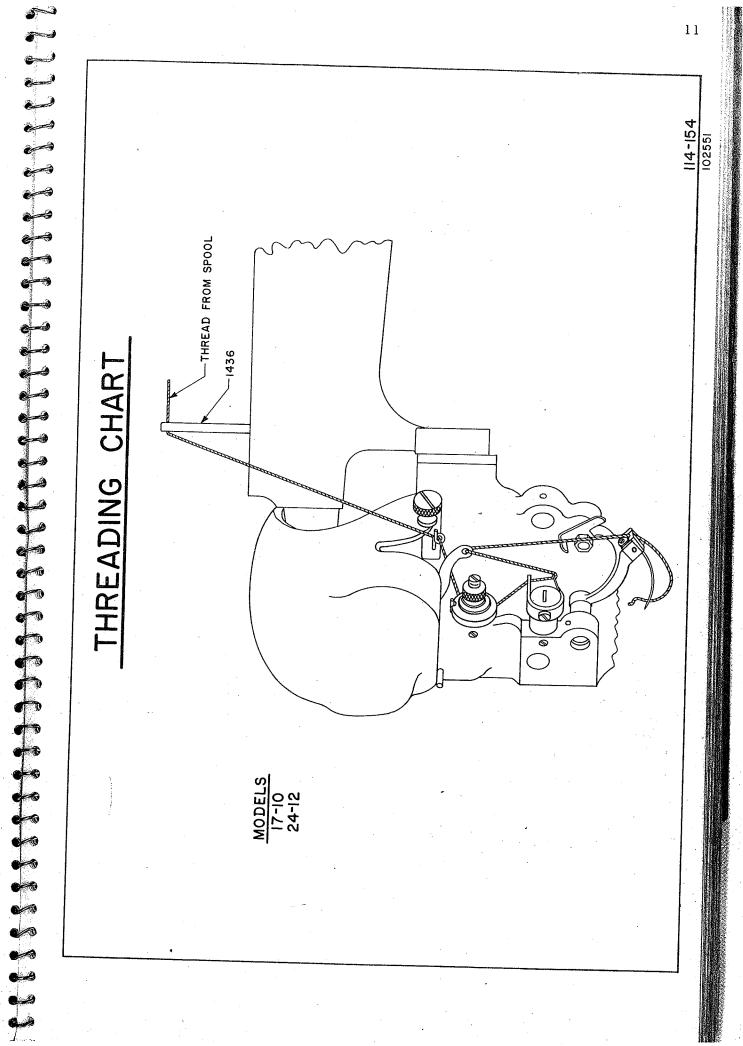
ing to the left. If the stitch is to be lengthened, turn screw C to the left. To shorten stitch turn screw C to the right. When adjustment is completed, tighten securely lock screw B, which makes the adjustment permanent.



Turn to the right

Turn to the left

24. To avoid misunderstanding regarding instructions "Turn to the Right" and "Turn to the Left" we have inserted the above arrows showing what these expressions mean.



## ADJUSTING THREAD TENSIONS

34. The tension on the needle thread is adjusted by turning thumb nut 20-60, Figure C, to the right or to the left. This tension should be set sufficiently tight to make a firm stitch. Do not, however, make this adjustment too tight, because by so doing the thread will draw the goods and leave an impression or dimple on the face of the goods. Also thread breakage may result if the needle thread tension is set either too loose or too tight.

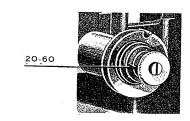


Figure C

35. The tension on the bobbin thread is adjusted by means of screw 1046, Figure D. By turning this screw to the right, the tension is set tighter as it presses the bobbin case spring more firmly against the thread. This tension should be set rather loose so as to permit the thread to draw off the bobbin freely with very little resistance. Experience on various kinds and grades of work will show best what tension produces the desired results.

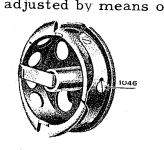


Figure D

## ADJUSTING WIDTH OF BIGHT

36. The width of bight taken by the needle depends on several things, the "angle" of the machine being the most important. Thus a 450 machine will produce a wider bight than a 150 machine, other conditions being equal. The width of the bight is also dependent on the depth to which the needle penetrates the goods as well as the shape of the top of the plunger. For any given set of these conditions, the width of bight may be adjusted by moving the edge guide, Figure E, to the right or to the left by loosening the set screw which holds this part in position. By moving the guide to the left, a wider bight will result, to the right will produce a narrower bight.

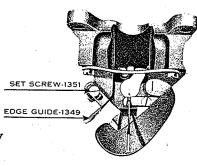


Figure E

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# ADJUSTING FEED PLATE PRESSURE See Plate 16 Page 58

37. The feed plate which holds the cloth firmly against the foot is adjusted at the factory with the proper pressure for handling all weights and kinds of work. The pressure on the feed plate is applied by spring LS 405, which is adjusted with feed spring adjustment screw LS 394. While this adjustment is rarely used, it may be necessary to apply more pressure after the machine has been in service for many years. By turning screw LS 394 to the right more pressure is applied to the feed plate and feed point. The feed plate should bear equally on both sides of the presser foot. A thin piece of paper placed between the foot and the feed plate is useful for checking this in case it becomes necessary to install a new feed plate.

#### REMOVING AND REPLACING PRESSER FEET

- 38. In order to remove or exchange presser feet, turn hand wheel until the plunger is at the lowest point. Remove needle.
- 39. Remove both screws 1073, which hold the foot on the frame of the machine. Press knee lifter so as to release the pressure on the foot which, in turn, releases the presser foot.
- 40. To insert foot, do not change the position of the plunger or turn the hand wheel, Press the knee lifter, which permits placing the foot in position on the frame of the machine. Replace and tighten the two screws 1073. Be sure to see that the groove in the Figure F bobbin case, Figure A, Page 9 fits over the projection in the bobbin case retainer, Figure F. This holds the bobbin case in position.

#### REPLACING BOBBIN CASE

41. Should the thread become caught or tangled in back of the bobbin case, causing the machine to lock, it is necessary to remove the bobbin case, inasmuch as the bobbin case latch, Figure A, Page 9, which holds the bobbin in position, cannot be raised to release the bobbin. Under no circumstances use force to open the bobbin case latch; by so doing the latch or spring will very likely become broken, which means the expense of a new bobbin case.

42. To remove bobbin case, we recommend that the presser foot be removed first as per instructions in Paragraphs 38 and 39.



Figure G Correct Position of Hook for Removing Gib Screws and Gib.

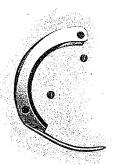


Figure H Gib and Screws Removed for Bobbin Case Replacement.



Figure I Relative Position of the Latch to the Point of the Hook For Removing Bobbin Case.

- 43. See that the point of the hook is at its lowest point as per illustration above. Then remove both gib screws 1039 which holds gib 1037 in position on the hook. See Figure H. After removing gib, turn bobbin case to the left one-quarter turn. This releases the bobbin case from the hook.
- 44. Inasmuch as the bobbin case fits snugly in the raceway of the hook, it may be necessary to use slight pressure to cause it to release. Use fingers only to remove the bobbin case and do not insert screw driver or any other object as a lever, as this is apt to break the bobbin case. To insert bobbin case in hook, see that the latch is in line with the point of the hook as per illustration, Figure I. Replace hook gib in position, and securely tighten screws 1039. Turn bobbin case so that the groove, Figure A, is at the bottom and fits into the notch on the bobbin case retainer as noted in paragraph 40.

#### REPLACING AND TIMING HOOK

45. Remove gear cap 1072, which is in back of the machine in line with the hook. Remove gear 1030, Plate 3, Page 32, by loosening both screws holding same. Remove needle and presser foot, as per instructions in Paragraphs 38 and 39. Remove Bobbin case release 445-251 by removing screw which Figure J holds same in position. With these various parts Hook 1040A out of the way, the hook can be withdrawn from



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fac ne the machine. See Plate 4, Page 34.

46. To replace the hook preceding instruction apply, with the added caution regarding timing the hook. This is a simple matter by

noting the lines on both the upper and lower gears 1028 and 1030. Figure K. Both of these gears have lines which must meet and make a straight line. The groove in the hook shaft must also be in straight line with the two lines on gears 1028 and 1030, so that the point of spot screw 1031 will fit into the groove on the hook shaft. When inserting a new hook, the groove may not be in the same relative position as in the one removed, which will throw the hook out of time. To complete the adjustment it may be necessary to loosen the two screws that hold gear 1028 in position. Turn the hook slightly to the right in order to pick up the thread loop more quickly from the needle; or turn the hook pick up the needle thread loop more slowly, whichever may be required.

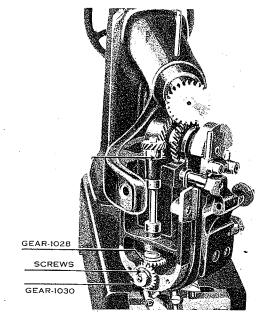


Figure K

Tighten the two screws in gear 1028, making sure this gear runs freely with gear 1030 but without excessive backlash.

47. You will note that the point of the hook when properly timed, will be at its lowest point or immediately above the needle and about 1/16 of an inch from the eye of the needle when the needle is on its return or back stroke. In this, as with all other adjustments, be very careful to see that all screws are securely tightened and any parts that have been removed are carefully replaces in position.

CAUTION: Before timing hook, make sure that needle is correctly timed with plunger, see paragraph 53, page 17.

#### RAISING AND LOWERING HOOK

48. The height of the hook relative to the needle is set at the factory and generally requires no adjustment. In case it does become necessary to change the height of the hook, remove gear 1030, Figure

K. This will reveal a screw that holds the hook bushing in position through the flange on the bushing. This bushing is eccentric and turning it will change the height of the hook. Two holes are provided for the screw, thus giving a wide range of adjustment.

## BOBBIN CASE RELEASE See Plate 4 Page 34

49. Bobbin case release 445-251 is operated by the lever mounted on the needle carrier. This release should be adjusted so that the needle thread passes freely over the top of the bobbin case, and so that the needle thread passes freely between the bobbin case and the bobbin case retainer, Figure F, Page 13 after the needle thread drops off the beak of the hook. The setting of the bobbin case release should always be checked after changing the height of the hook.

# THREAD CONTROLLER SPRING Model 17-10

- 50. The thread controller spring 1187, Plate 7 Page 40 may be adjusted by loosening screw LS 330 and turning staff 68-19 to the right to increase the tension and to the left to decrease the tension. Hold staff 68-19 in position with the screw driver and tighten screw LS 330. This makes the adjustment permanent.
- 51. If the needle thread snaps as it passes over the top of the bobbin case, it is an indication that either the tension on the thread controller spring is too great or that the hook is a trifle slow, or both. If the tension on the thread controller spring is not great enough, the thread will not come off the hook fast enough with the result that the hook will pick up the thread a second time causing the machine to break thread.

#### THREAD CONTROLLER SPRING Model 24-12

52. See automatic tension release Plate 7 Page 40 and description on Pages 24 and 25.

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#### TIMING NEEDLE WITH PLUNGER

53. Loosen both screws L and M, Figure L, which hold the main shaft head driving gear N in position. Remove gear N. Turn handwheel away from you slowly until the plunger is at its highest point, at a full stop. The groove in main shaft 14-324 should now be on top. Turn needle crank 1001 in the direction of the arrow stamped on it, until the needle is at its highest point and is again returning towards the plunger. When the point of the needle is 1/4of an inch (6mm) from the plunger, replace gear N on the shaft so that spot screw L will enter the groove in the shaft without disturbing previous adjustments. Be sure to see that the spot screw L is in line with the groove on the shaft before tightening this screw.

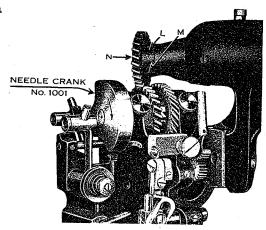


Figure L

- 54. To test this adjustment, turn hand wheel slowly away from you and note if plunger is raised to its highest point and comes to a full stop as the point of the needle is 1/4 of an inch away from the plunger, about to enter the goods.
- 55. We call to your attention that the plunger must not move while the needle enters the goods. After the needle has made the penetration and the hook has picked up the thread loop from the needle, you will note that the plunger again recedes in order to release the goods, thereby permitting the feed to carry the goods forward, ready for the next stitch.

#### REMOVING PLUNGER

- 56. Loosen both nuts 1311, Figure M, and the plunger releases of its own accord and may be removed by raising it up through the opening in the presser foot.
- 57. To insert new plunger, place same in the plunger barrel with the groove in the plunger to the front. The groove in the plunger slides on the notch on the inside of the plunger barrel, thereby keeping the plunger from turning.

58. Turn hand wheel until the plunger recedes to its lowest point. Press the knee lift pad 1383, Plate 16 Page 58, in order to allow the insertion of a screw driver or other flat metal object between the plunger and the presser foot. This is necessary in order to hold the plunger down against the plunger spring. Turn hand wheel away from you one-half turn, thereby causing the threaded end of the plunger to pass down through the plunger barrel.



Figure M

59. Replace equalizing spring 1368OS, replace nuts 1311 on the end of the plunger and lock them together. Nuts 1311 should be set near the lower end of the plunger only sufficiently high to hold them securely on the stem, as noted on Figure M. If the nuts are set too high on the plunger, the plunger will not raise sufficiently high to meet the needle penetration. Nuts 1311 must also be set so that when the plunger is at its highest point and when plunger adjustment knob LS 219 Figure N, page 19, is turned so that the plunger is at its highest adjustment, the plunger should raise the needle about 1/64 of an inch from the needle guide. Check to see that the needle cannot strike the side of the plunger. Be very careful to see that the lower nut is tightened against the upper nut to prevent loosening.

## REMOVING PLUNGER & PLUNGER BARREL Model 17-10

60. Refer to Plate 10, Page 46.

To replace or change plungers, loosen nut 1160 and remove bearing screw LS 302, and link 1304. Barrel with plunger will pass the crank LS 165A by turning the barrel one quarter turn.

# REMOVING PLUNGER & PLUNGER BARREL Model 24-12

61. Refer to Plate 11, Page 48.

To replace or change plungers, loosen the two nuts 1160, and remove the two screws 1251, and roll LS 207. Turn plunger barrel 470-6 one quarter turn and remove from the machine.

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## INSTRUCTIONS FOR ADJUSTING Model 17-10 Machines

62. Lewis Model 17-10 Machines are adjusted at the factory for 2-to-1 stitching. By this we mean that every second stitch penetrates the lower fabric, producing a stitch similar to hand-felling. This kind of stitching is generally used for felling facings and bottoms of quarterlined, half lined and skeleton lined coats. The 2-to-1 stitch appears under the binding (see illustration). It may be used with equally good success on edges finished either with piping or turned under.



## ADJUSTMENTS OF THE PLUNGER FOR 2-to-1 STRAIGHT FELLING STITCH

63. In order to adjust the Model 17-10 machine for 2-to-1 felling, use adjustment LS 74, Figure O. By turning LS 74 to the right of the needle will penetrate the lower goods more deeply; by turning to the left the needle will penetrate less deeply. The point of adjustment lever LS 74 should always be set in one of the holes so as to make the adjustment permanent.

64. Occasionally it is desirable to use the Model 17-10 Machine for straight stitch felling, whereby every stitch catches in the under fabric as

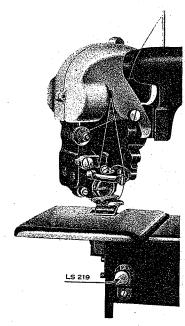


Figure N

65. To adjust machine for straight felling raise adjustment pin LS 74, Figure N and turn to the left several times - generally from four to six turns - until the base of the pin rests lightly in one of the holes sufficient only to keep LS 74 from turning. This throws the 2-to-1 stitch adjustment out of operation, producing a straight felling stitch.

66. In order to obtain the proper depth of needle penetration, after adjusting machine for straight felling stitch, place a single thickness of the goods to be felled under the presser foot. Turn hand wheel away from you slowly and watch the action of the needle as it penetrates the cloth. The needle should enter the goods sufficient to only pick up a few strands of the material and not penetrate deep enough to show an impression on the under side or facing side of the goods. If

the needle passes over the goods and does not make proper penetration, turn the plunger adjustment knob LS 219, Figure N, to the right. If needle penetrates too deeply turn the plunger adjustment LS 219 to the left.

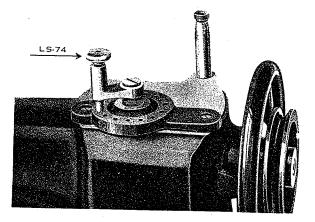


Figure O

- 67. In changing machine from straight felling stitch to 2-to-1 stitch the reverse of the preceding instructions will apply. Place a thickness of material under the presser foot and turn plunger adjustment LS 219, Figure M; to the left until the needle slides over the surface of the goods without penetrating it. Then turn adjustment pin LS 74, Figure N; to the right until the needle penetrates the single thickness of material slightly.
- 68. Turn hand wheel from you slowly and watch the needle as it penetrates the goods several stitches. If the needle does not penetrate through less than half the thickness of the goods turn adjustment pin LS 74 slightly to the right until the proper depth of needle penetration is attained. If the needle penetrates too deeply, turn adjustment pin LS 74 to the left. You will note that only a very slight movement of LS 74 is required in making this fine adjustment.

# FITTING MACHINE FOR SACK COATS OR OVERCOATS

69. Lewis Model 17-10 machines are fitted at the factory for work on sack coats, unless otherwise ordered. The machine is equipped with presser foot 1343SA (See Plate 20 Page 66), which will accommodate all light and medium weight fabrics used in sack coats and light overcoats and finished with either piped edges or turned under edges.

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- 70. For work on overcoats the machine must be fitted with presser foot 1373SA, which is adapted for handling heavy materials.
- 71. On extra fine tailoring we recommend using special presser foot 405-1, 405-2 or 405-3. These feet are designed to raise the edge of the piping sufficient to entirely cover the needle thread under the piping, which otherwise may be visible on close examination. Foot 405-1 is used for work on sack coats and light overcoats; foot 405-2 is used for work on heavy overcoats, and foot 405-3 is used for medium and medium heavy work.

#### RAISING AND LOWERING FEED POINT

- 72. Lewis Invisible Stitch Machines are adjusted at the factory for properly feeding all kinds and weights of material which they are designed to handle. However, there may be occasion when extremely heavy overcoats are to be handled, garments made with thick cumbersome seams or extremely heavy pockets and reinforcements to pass over, which requires a slight raising of the feed point, Figure P.
- 73. On this class of work the operator may find it necessary to assist the work through the machine by drawing the goods from the back, and if considerable heavy work is to be handled for any length of time it is advisable to raise the feed point slightly.



Figure P

74. To do this, turn the machine back on the table, turn hand wheel away from you until the feed plate rests against the bottom of the foot. Continue turning the hand wheel slowly until the feed point has receded to its lowest position. Loosen screw LS 301 in LS 21A, Plate 12, Page 50, and raise feed point very slightly, not more than 1/32 of an inch. Retighten screw LS 301. If feed point is set too high, the top of the feed elevating link 46-94 will strike against feed plate, which in turn will retard the movement of the goods.

# INSTRUCTIONS FOR OPERATING & ADJUSTING MODEL 24-12 PLAIN EDGE MACHINE

75. All instructions on Model 17-10 apply to Model 24-12, with the following special instructions added:

#### BASTING

- 76. We recommend all edge basting work be done by machine and not by hand. Machine basting places the stitches closer together and the line of basting is more even than ordinarily can be attained with hand basting. Furthermore, machine basting is more economical and the production is far greater.
- 77. Baste sack coats 1/4 inch from the edge and overcoats 5/16 inch from the edge.

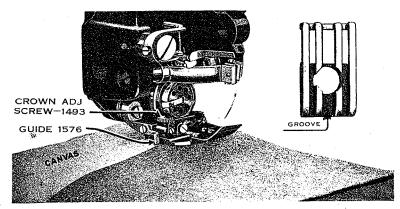


Figure Q

- 78. In placing the work on the machine, place the garment with the canvas on the left of the arm, which is on the outside of the machine, as shown in Figure Q. See that guide No. 1576 is directly above the basting seam, which is the seam between the canvas and the facing side.
- 79. Place the edge of the garment in the groove of plate Figure Q, which is directly under the foot.

#### NEEDLE PENETRATION

- 80. The operation of felling the canvas to the coat front is that of joining the canvas to the facing with a zig-zag stitch. This stitch is formed by taking one stitch into the canvas only and alternating with one stitch through one-half the thickness of the goods and through the canvas, giving the appearance of sketch shown at top of page 23.
- 81. To adjust needle penetration in the cloth on the facing side, use adjustment pin LS 74, Figure N. Turn to the right to make the felling stitch deeper and to the left for less penetration.

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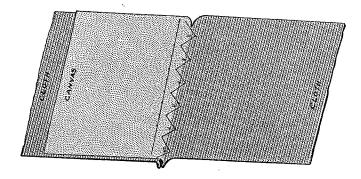
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82. To adjust needle penetration in the canvas, turn crown adjustment screw 1493, Figure Q, to the right to stop the plunger rise, which, in turn, causes the needle to penetrate less deeply. Turning crown adjusting screw 1493 to the left tends to raise the plunger, which allows the needle to penetrate more deeply into the canvas.

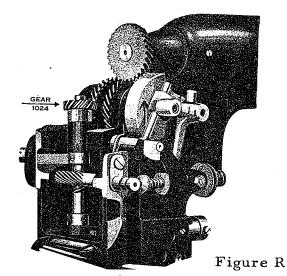
- 83. On overcoats it is especially desirable to make the above adjustment so as to permit needle to pass through the canvas and through part of the undergoods on the canvas side. On sack coats this deep penetration is not necessary or desirable, and should be guarded against. The needle should not enter the fore-part on sack coats unless you desire to produce what is termed as a "pricked edge" finish.
- 84. If the needle penetrates the facing at the time it should penetrate the canvas only, lower the plunger by turning plunger adjusting knob LS 219, Figure M, to the left sufficient to permit the needle to slide over the facing goods.
- 85. Lewis Model 24-12 machines, unless otherwise specified, are fitted with presser foot 1571A and relating parts for work on sack coats.
- 86. Parts for changing Lewis Model 24-12 machine from sack coats to overcoats and vice versa are as follows:

SACK COAT PARTS	TOPCOAT PARTS	OVERCOAT PARTS
1 1571A - Foot	1 1593A - Foot	1593SA - Foot
	l 1591) Plunger	1591-1/2) Plunger
l 1579) Complete	1 1592) Complete	1592-1/2) Complete
1 1584 Plunger Spring	l 1310 Plunger Spring	1310 Plunger Spring

#### AUTOMATIC TENSION RELEASE See Plate 7 Page 40

87. A special mechanism used on Lewis Model 24-12 Machine.

88. The purpose of the automatic intermittent tension release is to prevent dimples or indentations from showing on the outside or face side of the material when felling or blind stitching two pieces of cloth together. This mechanism is especially desirable when felling thin lightweight goods.



89. To avoid indentations or dimples the stitch that is taken in the canvas

portion is made with a normal tension and the stitch that is taken in the facing is made with a very loose tension in order to allow sufficient thread between the two layers of material. In other words, the facing and the canvas are not drawn tightly together through the operation of the automatic tension release.

- 90. The purpose in setting the stitch in the canvas with a normal tension is to securely fasten the bobbin thread and to prevent the stitches from loosening. While the stitch is taken in the facing the thread is held under normal tension until the hook has discharged the loop when the tension automatically is released, giving the thread which holds the two layers together a very loose tension.
- 91. CAUTION: Do Not under any circumstances, loosen set screws in gear 1024, Figure R, above indicated by arrow in the illustration. We especially caution you on this, as to loosen gear 1024 means throwing the automatic tension release out of time, which mechanism is properly timed when the machine is assembled in our factory.
- 92. In case it does become necessary to time the automatic tension release, this timing is done by loosening the screws in gear 1024. Adjustment is then made until the results outlined in Paragraph 90 are obtained. An approximate method of making this adjustment is to note that when the take-up is at its highest point, the single lobe of the cam on the end of shaft 1552 should be horizontal and against

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tension staff 1553 (See Plate 7, page 40). After making this adjustment, it will generally be necessary to retime the hook.

93. The timing of the hook, which is actuated by the shaft on which gear 1024 is mounted, is provided by the lower gear 1028, Figure K, as per instructions in paragraphs 45, 46, 47.

#### THREAD BREAKAGE: HOW TO OVERCOME

94. After considerable service the needle will be inclined to cut a sharp edge in the groove of the needle guide, causing thread breakage. When this occurs, we recommend replacing needle guide, Figure S which can be done at a very small cost. However, if new needle guide is not conveniently procurable, smooth the groove with emery cloth to eliminate sharpness.

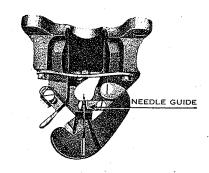


Figure S

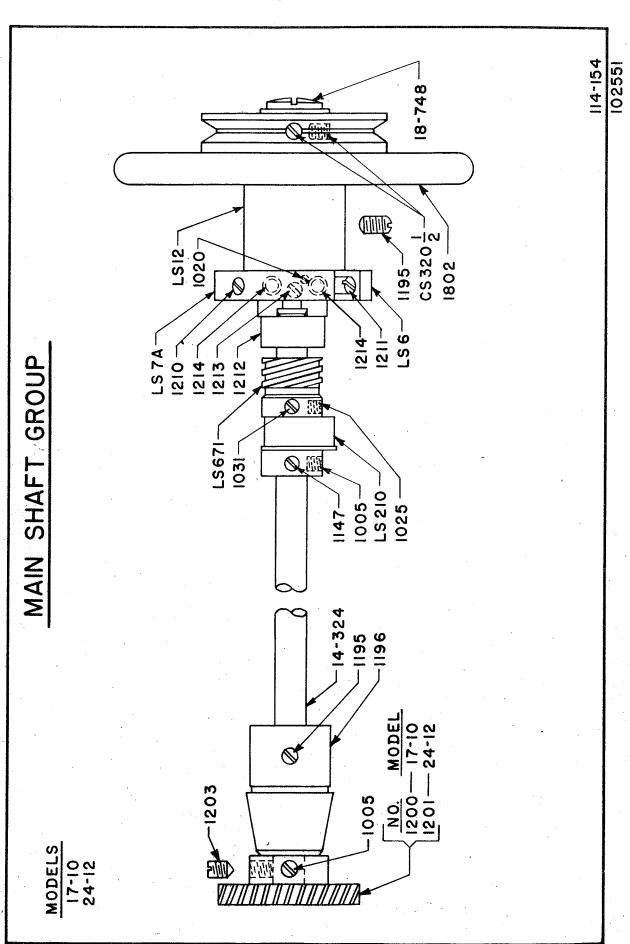
- 95. When thread breakage occurs, check up on the parts through or over which the thread passes, to see if they have become sharp. We refer to the following parts: needle guide, needle clamp and thread guide, thread take-up, bobbin case retainer 1057 and the needle.
- 96. Thread breakage may be caused by the bobbin being too tight in the bobbin case. While this is not a frequent condition, at the same time as the bobbin becomes old, it has a tendency to warp and bind in the bobbin case. Old bobbins should be discarded.
- 97. Thread breakage may be caused if the hook, Figure J, page 14, is improperly timed, causing the point of the hook to fail to pick up the loop from the needle at the proper time. See Paragraphs 46, 47, 48 Page 15 for timing the hook. Before timing hook, see that needle is correctly timed to plunger. See Paragraphs 53, 54, and 55 Page 17.
- 98. If the bobbin is wound too full, or if the thread has become tangled in the bobbin, thread breakage will result.
- 99. On a new machine just put in operation, thread breakage may be due to accumulation of oil in the hook which must be removed as per instructions in Paragraph 9.
- 100. Thread breakage may also result if the tension of the needle thread is either too loose or too tight. Check up on this.

101. If the hook picks up the needle thread on the hook's second revolution, that is to say, if the hook again picks up the needle thread after just discharging it, or if the hook completely fails to discharge the needle thread, thread breakage will result. These "second revolution" breaks may be due to several things, among which are: the hook is too fast, insufficient tension on the needle thread, insufficient tension on the thread controller spring, or a combination of these.

#### SKIPPING STITCHES

- 102. If the goods are not being properly clamped under the foot, they will ride with the needle as it penetrates, preventing the formation of a good loop for the hook to pick up, and skipping stitches may result. See Paragraph 37 Page 13.
- 103. Bent or blunt needles are frequently the cause of skipped stitches. Always use a sharp needle and see that it bears on the needle guide while entering the goods. Of course, when the needle is completely in the goods, there should be clearance between the needle and the needle guide.
- 104. Occasionally the plunger may be the cause of skipped stitches due to its being set too low. Adjust the plunger higher. See Paragraphs 63 and 80-84.

PLATE 1

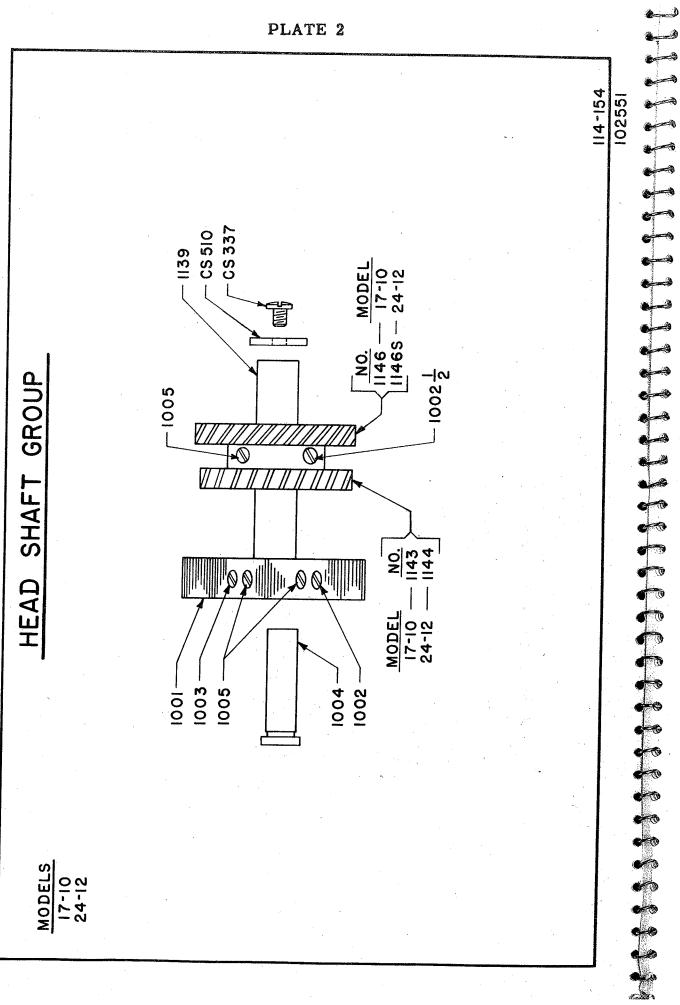


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# MAIN SHAFT GROUP Models 17-10 and 24-12

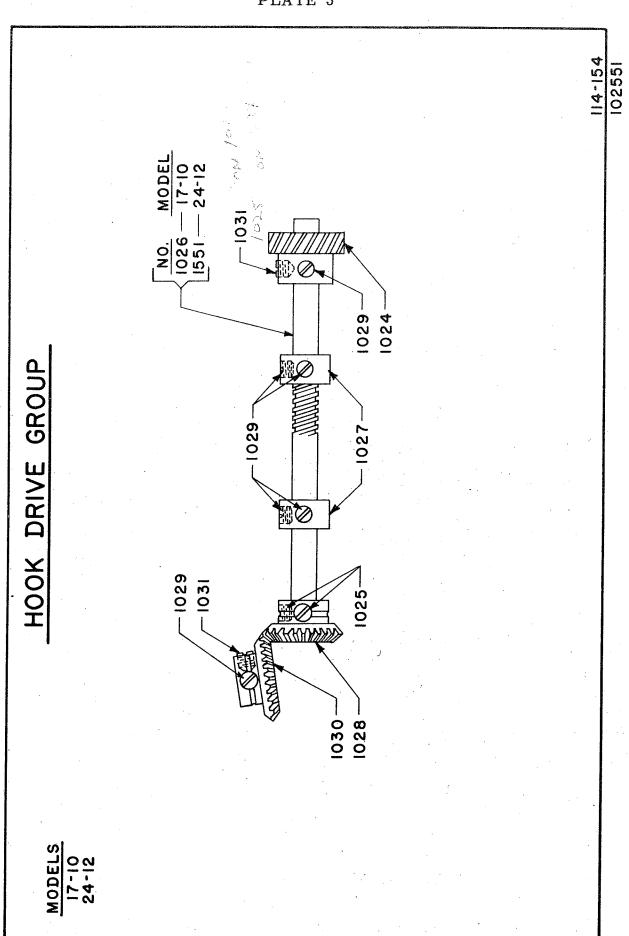
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LS 6 LS 7A LS 12 LS 210 CS 320-1/2 LS 671 1005 1020 1025 1031 1147	Feed Adjuster Crank Disc, Not Sold. See LS7A.  Feed adjuster crank disc assembly, composed of: LS 6, and Guide Pin 1208. Main Shaft Bushing, right. Feed Elevating Eccentric. Set Screws for Hand Wheel 1802. Vertical Plunger Shaft Driving Gear. Set Screw for LS 210. Set Screw for Gear 1200 and 1201. Set Screw for Gear LS 671. Set Screw for Gear LS 671. Spot Screw for Gear LS 671. Spot Screw for Feed Eccentric LS 210. Spot Screw for Feed Eccentric LS 210. Spot Screw for Feed Eccentric LS 210.	1196 1200 1201 1203 1210 1211 1212 1213 1214 1802 14-324 18-748	Main Shaft Bushing, left.  Gear on Main Shaft for Driving head, Model 17-10.  Gear on Main Shaft for Driving head, Model 24-12.  Spot Screw for 1200 and 1201.  Spot Screw for LS 7A.  Set Screw for LS 7A.  Feed Adjuster Eccentric.  Screw for adjusting 1212.  Spring for 1212, (2) used.  Hand Wheel.  Main Shaft.  Screw (left hand thread) in end of
	Set Screw in Arm for 1106		Totall Diall.



# HEAD SHAFT GROUP Models 17-10 and 24-12





# HOOK DRIVE GROUP Models 17-10 and 24-12

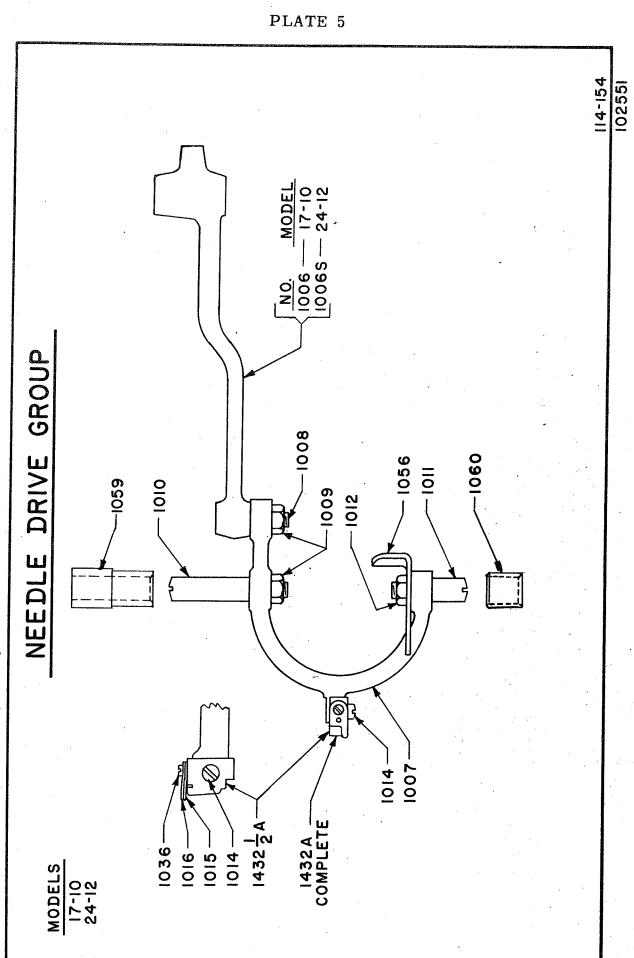
Hook Spiral Gear,	Set Screws for Bevel Gear 1028.	Hook Timing Shaft for Model 17-10.	Collar for Hook Timing Shaft (2) used	Bevel Gear on Shaft 1026 and 1551,	Set Screw for Bevel Gear 1030.	Set Screw for Collars 1027 (4) used.	Set Screw for Gear 1024.	Hook Shaft Bevel Gear.		Hook Timing Shaft for Model 24-12.
1024	1025	1026	1027	1028	1029			1030	1031	1551

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#### HOOK GROUP Models 17-10 and 24-12

		. /	
_ 1034A	Hook without Guard or Gib.	1047	Bobbin,
- 1035	Needle and Thread Guard for 1040A.	1053	Stop Pin for 445-251.
1036	Screw for 1035, (3) used.	1054	Spring for 445-251.
1037	Hook Gib.	1055	Spring Pin for 1054.
1039	Screw for 1037, (2) used.	1170	Clamp Screw for Hook Bushing 416-11.
· 1040A	Hook complete, composed of 1034A,	18-719	Bearing Screw for 445-251.
	1035, (3) 1036, 1037 and (2) 1039.	18-912	Clamp Screw for 1043.
/1041A	Bobbin Case, right hand, complete.	22-241	Hinge Pin for Bobbin Case latch 51-19.
*	Composed of: 18-912, 1043 and		(Not Shown)
	1046 and case.	26-148	Bobbin Ejector in 1041A. (Not Shown)
► 1041C	Latch Spring for 1041A. (Not Shown)	51-19	Latch in 1041A. (Not Shown)
L 1043	Tension Spring for 1041A.	416-11	Adjustable Hook Bushing complete.
~ 1046	Tension Screw for 1043.	445-251	Bobbin Case Release complete with
			spring Din 1049

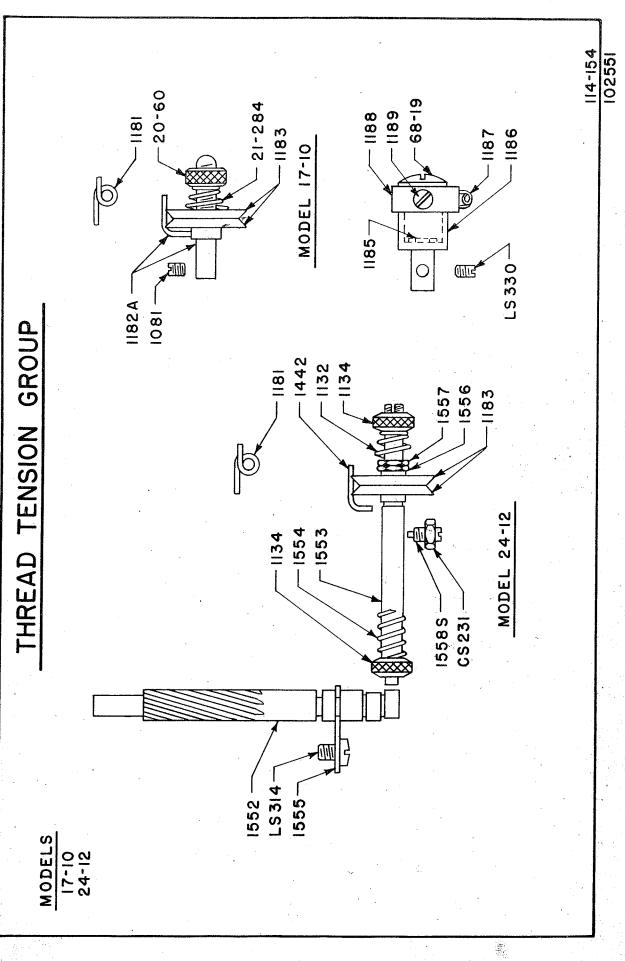


### NEEDLE DRIVE GROUP Models 17-10 and 24-12

Needle Carrier Connecting Link for Model 17-10. Needle Carrier Connecting Link for Model 24-12.	Needle Carrier Driving Stud.	Nut for Studs 1008 and 1010. Needle Carrier Bearing Stud, left.	Needle Carrier Bearing Stud, right.	Clamp Screw for 1432A.	Needle Clamp Thread Guide Plate, lower. Needle Clamp Thread Guide Plate, upper	Screw for clamping 1015 and 1016.  Bobbin Case release lever	Needle Bar Bushing (left hand)	Needle Clamp complete, composed of: 1432-1/2A	1015, 1016 and 1036. Needle Clamp with Pin.
1006 1006S	1008	1010	1011 1012	1014	1016	1036 1056	1059	1432A	1432-1/2A

### TAKE-UP LEVER GROUP Models 17-10 and 24-12

Take-up Lever complete, for Model 17-10	Take-up Lever Bearing Shaft	Set Screw for 1019.	Collar for 1019.	Set Screw for 1021.	Take-up Lever Slide Block.	Take "in Lever complete for Model 24 12
.018A	019	020	021	022	023	45-234



THREAD TENSION GROUP Models 17-10 and 24-12

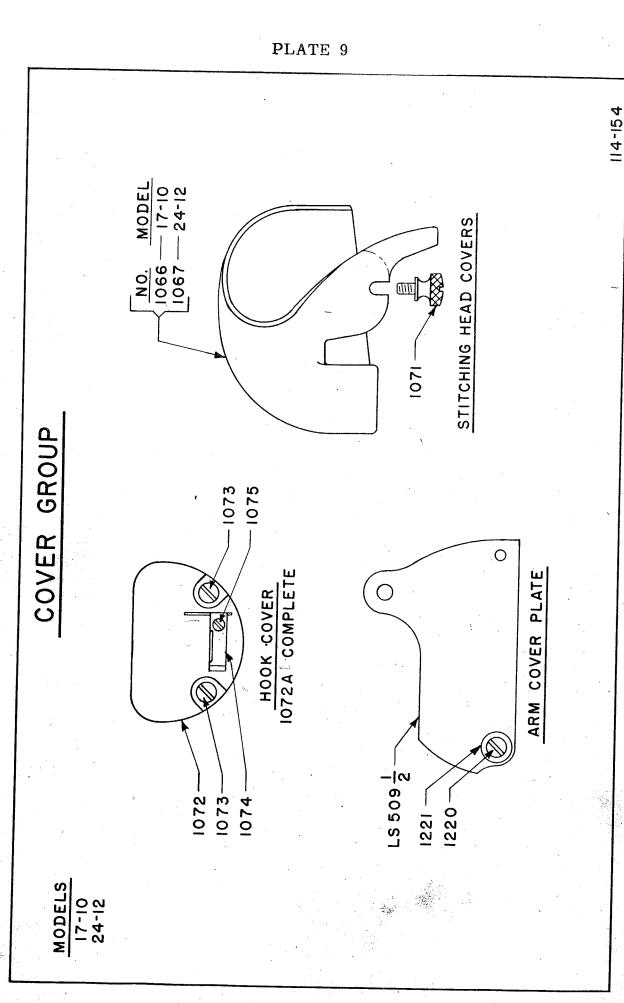
## THREAD TENSION GROUP Models 17-10 and 24-12

CS 231	Nut for Screw 1558S.	1188	Thread controller Staff Ston.
LS 314	Screw for Latch 1555.	1189	Screw for 1188.
LS 330	Set Screw in head for 68-19.	1442	Locating Pin for Disc 1183.
1081	Set Screw in Head for 1182A.	1552	Gear and Cam Shaft, Model 24-12.
1132	Tension Spring Front on 1553, Model	1553	Tension Staff, Model 24-12.
	24-12.	1554	Tension Spring rear on 1553, Model
1134	Knurled Nut (2) used on 1553 to adjust		24-12.
٠	thread tension, Model 24-12.	1555	Latch for 1552, Model 24-12.
181	Pigtail thread Eyelet.	1556	Adjusting Nut for 1553, Model 24-12.
182A	Tension Staff with Pin, Model 17-10.	1557	Lock Nut for 1556.
183	Tension Disc.	1558S	Pilot Screw for 1553.
185	Washer for 68-19	20-60	Knurled Nut for adjusting tension of
186	Thread controller Staff Barrel.		thread, Model 17-10.
187	Thread controller Spring.	21-284	Tension Spring, Model 17-10.
		68-19	Thread controller Staff.

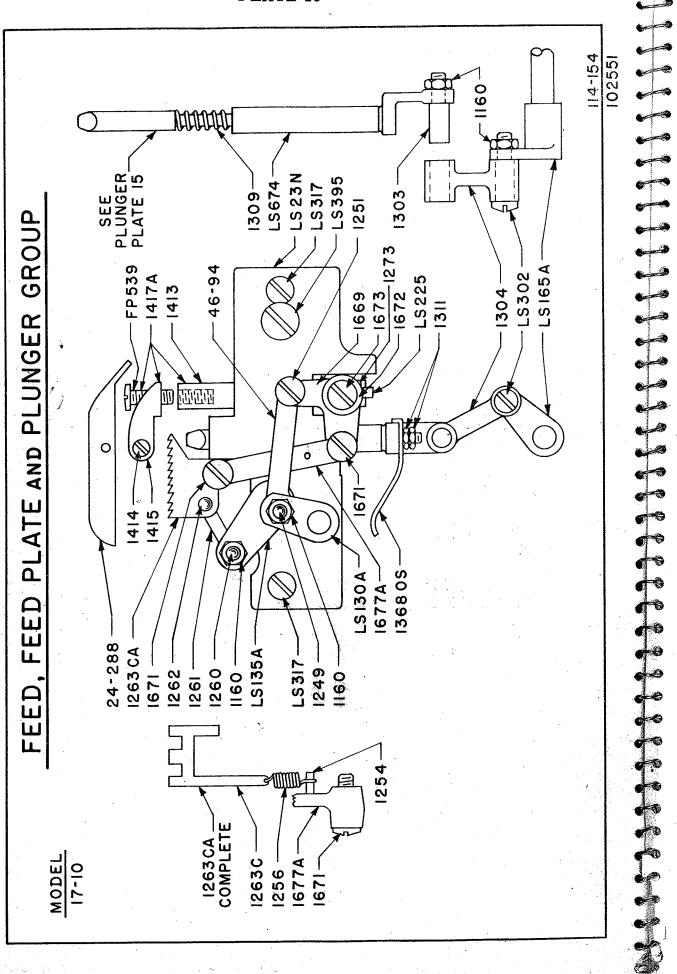
SKIP STITCH PLUNGER GROUP Models 17-10 and 24-12

## SKIP STITCH PLUNGER GROUP Models 17-10 and 24-12

Bearing Block for Vertical Shaft.	Skip Stitch Adjusting Crank.	Pin for Skip Stitch Crank.	Spring for Skip Stitch Crank.	Nut for Skip Stitch Adjusting Grank	Vertical Shaft for Plunger Adjuster	Cam for 2-to-1 Skip Stitch.	Roll for Skip Stitch Cam.	Clamp Screw for LS672.	Bearing Screw for Cam Roll 1.8 295	Spiral Gear on Vertical Shaft LS 120	Cam Roll Block with Clamp Screw	Set Screw for Spiral Gear LS 670	Spot Screw for Spiral Gear L.S 670	Screws (2) used for L.S 70-1/2	Screw in end of Shaft LS 120, for Crank LS 71.	
LS $70-1/2$	LS 71	LS 74	LS 75	LS 76	LS 120	LS 294	LS 295	CS 328	LS 393	LS 670	LS 672A	1025	1031	1158	1,8-736	



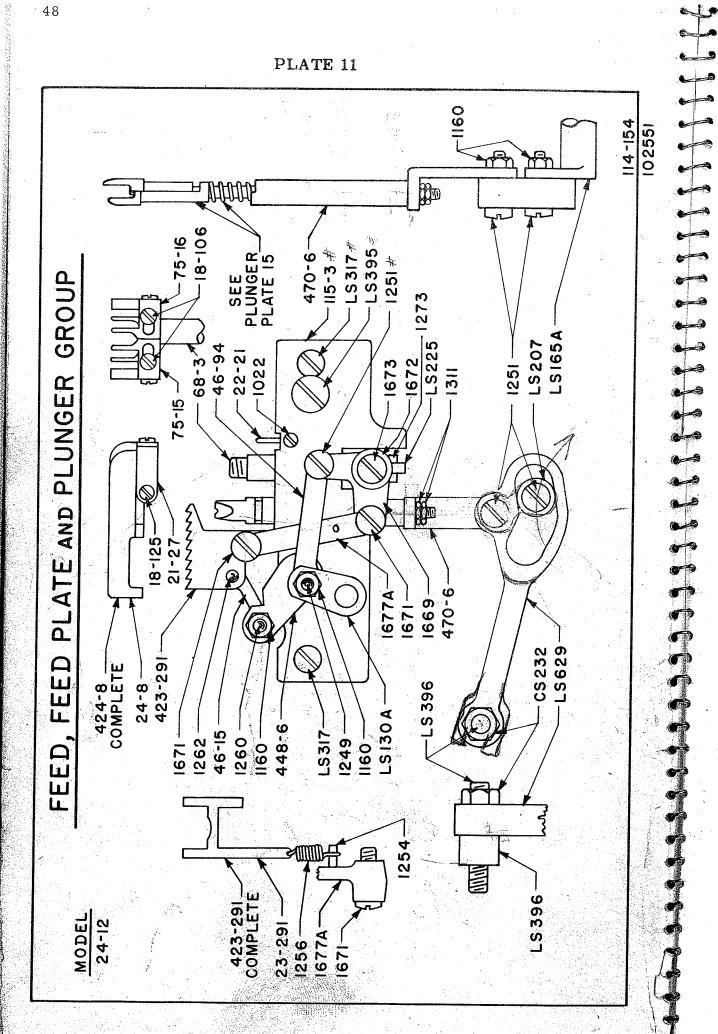
#### COVER GROUP Models 17-10 and 24-12



FEED, FEED PLATE & PLUNGER GROUP Model 17-10

# FEED, FEED PLATE & PLUNGER GROUP Model 17-10

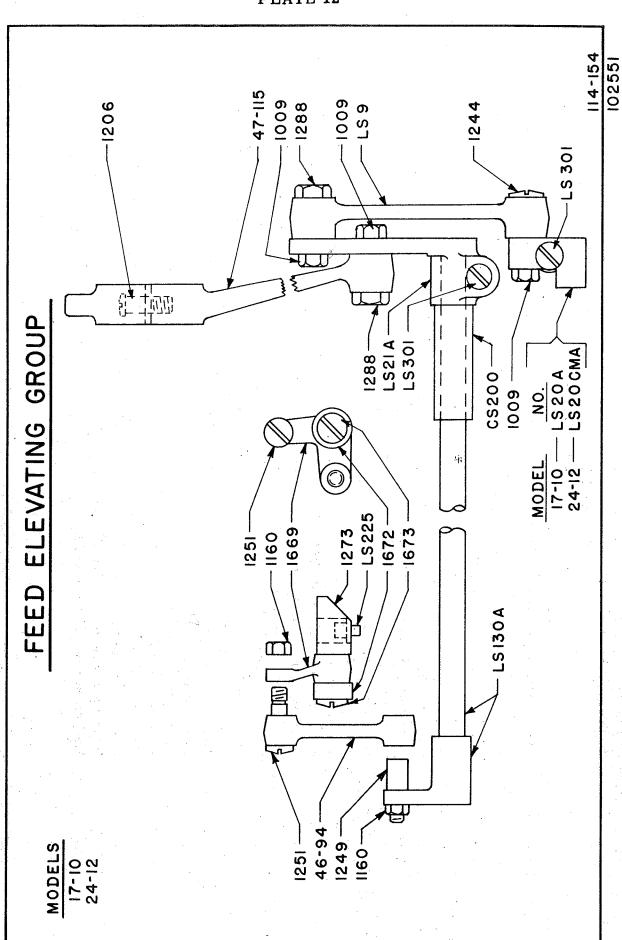
Feed, 3/32 pitch. Feed complete, composed of 1256, 1261, 1262, 1263C, 1671, 1677A. Bearing stud for 1304.	Plunger barrel spring, heavy.  Nut for plungers (2) used.  Plunger equalizing spring.  Feed plate stem.  Screws for feed plate 24-288.  Feed Plate Yoke.	Feed plate yoke complete, composed of: 1413, 1415 and FP 539.  Feed elevating bell crank.  Bearing screw for 1677A (2) used.	Bearing screw for roll 1672. Feed elevating link with pin 1254. Feed Plate. Feed elevating link.
1263C 1263CA 1303 1304	1309 1311 1368OS 1413 1414	1417A 1669 1671 1672	1673 1677A 24-288 46-94
Feed and plunger bearing block.  Feed elevating shaft with crank complete.  Feed rocker shaft with crank.  Plunger elevating shaft with crank.	Guide pin in 1273 for feed spring LS 405. Bearing screw for 1304. Clamp screws for LS 23N. Screw for clamping work plate LS 22, Model 17-10. Clamp screw for Feed Plate Yoke 1415.	Nut for bearing screws LS 302, 1249, 1260 and 1303.  Bearing stud in LS 130A for link 46-94.  Bearing screw in 1669 for link 46-94.	Spring pin for 1256.  Feed retaining spring.  Bearing screw for 1261.  Feed link.  Hinge pin for 1261.
LS 23N LS 130A LS 135A LS 165A	LS 225 LS 302 LS 317 LS 395 FP 539	1160 1249 1251	1254 1256 1260 1261 1262



# FEED, FEED PLATE & PLUNGER GROUP Model 24-12

	Bearing screw for roll 1672. Feed elevating link with pin 1254. Screws for feed plate guides 75-15	and 75-16. Screws for springs 21-27. Springs for feed plate guides 75-15 and 75-16.	Pin for separating feed plate guides. Feed 1/8" pitch. Feed plate. Feed Link	Feed elevating Link. Staff for feed plate. Guide (left) for feed plate. Guide (right) for feed plate.	Feed and plunger bearing block. Feed complete, composed of: 23-291, 46-15, 1256, 1262, 1671 and 1677A.	Feed plate complete, composed of: (2) 18-106, (2) 18-125, (4) 2-127, 24-8, 68-3, 75-15 and 75-16.  Crank with shaft and pin for rocking feed.	Plunger sleeve complete.
Model 24-12	<b>4 4</b>	Cuide Pin in 1273 for feed spring LS 405.  Nut for stud LS 396.  Clamp screws for block 115-3	LS 395 Screw for clamping work plate 4-129. 23-291 LS 396 Stud for LS 629. 24-8 LS 629 Plunger elevating cam. 24-8 1022 Screw for 22-21	1 and 1260. S 130A for link 46-94. 1669 for link 46-94. LS 629 for 470-6		Hinge pin for 46-15.  Feed Spring Slide Block.  Nut for Plunger (2) used.  Feed elevating bell crank.  Bearing Screw for 16774 (2)	2 Roll on Screw 1673 for 1273. 470-6

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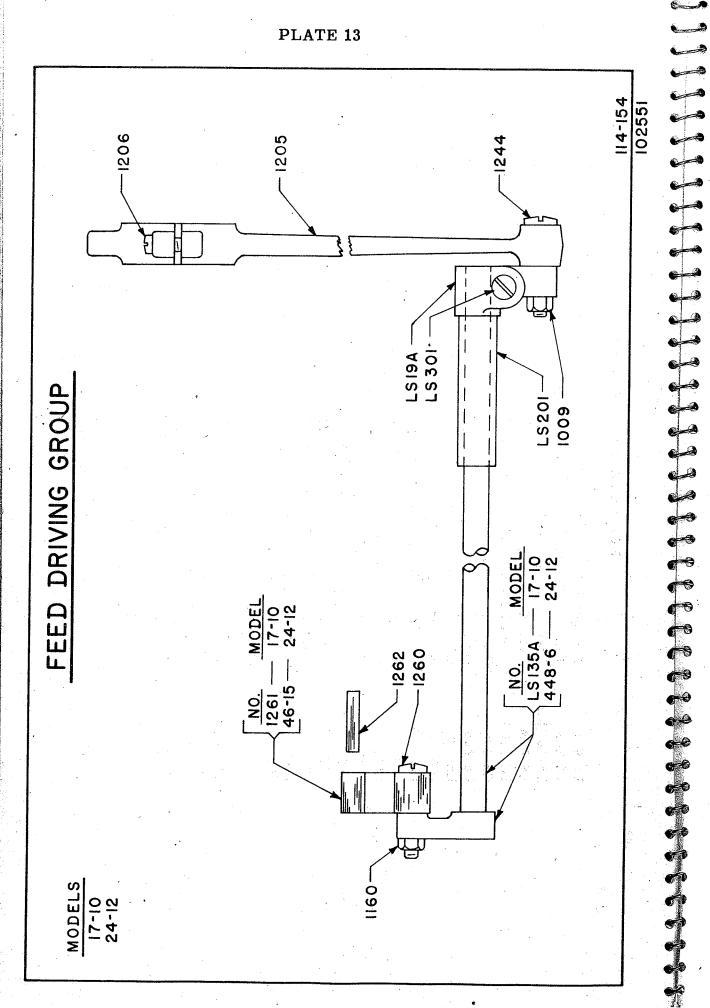


FEED ELEVATING GROUP

Plunger Elevating Crank with Screw LS 301. Madel 17-10 Plunger Differential Link, LS 9 LS 20A

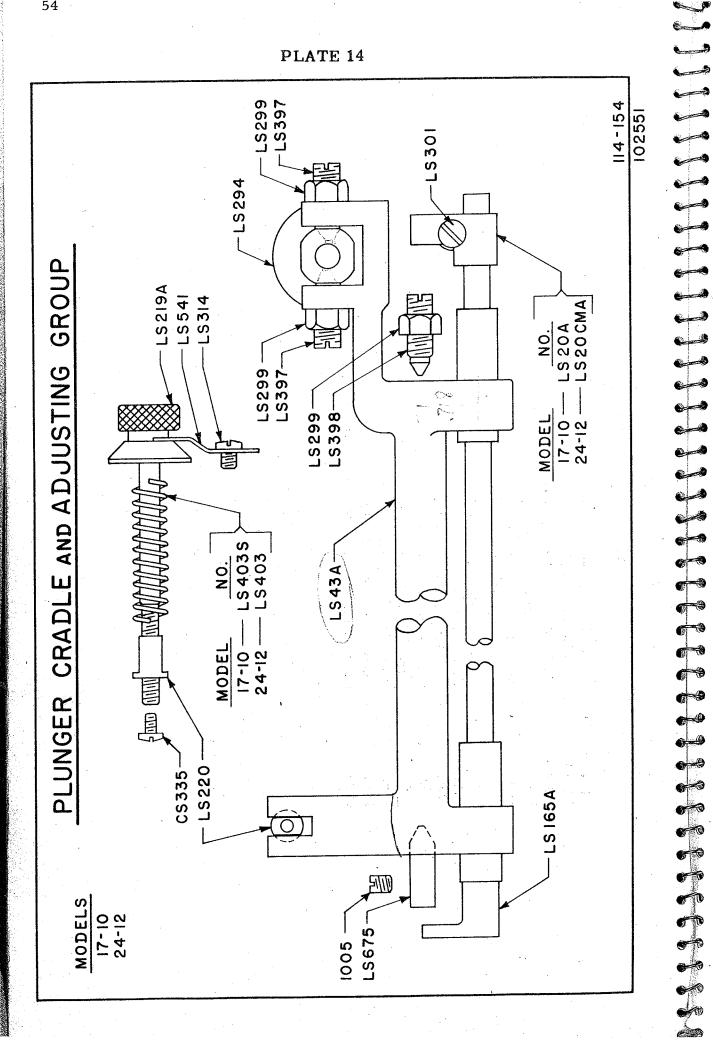
## FEED ELEVATING GROUP

LS 9 Plunger Differential Link. LS 20A LS 20A Plunger Elevating Grank with Screw LS 301, Model 17-10. LS 21A Feed Elevating Grank with Screw LS 301, Model 24-12. LS 130A Eed Elevating Grank with Screw LS 301. CS 200 Bushing for LS 130A LS 225 Guide Pin in 1273 for Feed Spring LS 405. LS 301 Nut for Bearing Screws 1244 and 1288. 1160 Nut for Bearing Screws 1251 and 1249. 1244 Bearing Screw for connecting Rod 47-115. Bearing Screw for LS 9. 1249 Bearing Screw for 46-94. 1251 Bearing Screw for 46-94. 1253 Bearing Screw for 47-115 and LS 9. 1669 Feed elevating Bell Grank. 1672 Bearing Screw for 1273. 1673 Bearing Screw for roll 1672. 1674 Feed Elevating Link. 1675 Feed Elevating Link. Feed Elevating Link. Feed Elevating Link. Feed Elevating Link. Feed Elevating Connecting Dod
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## FEED DRIVING GROUP

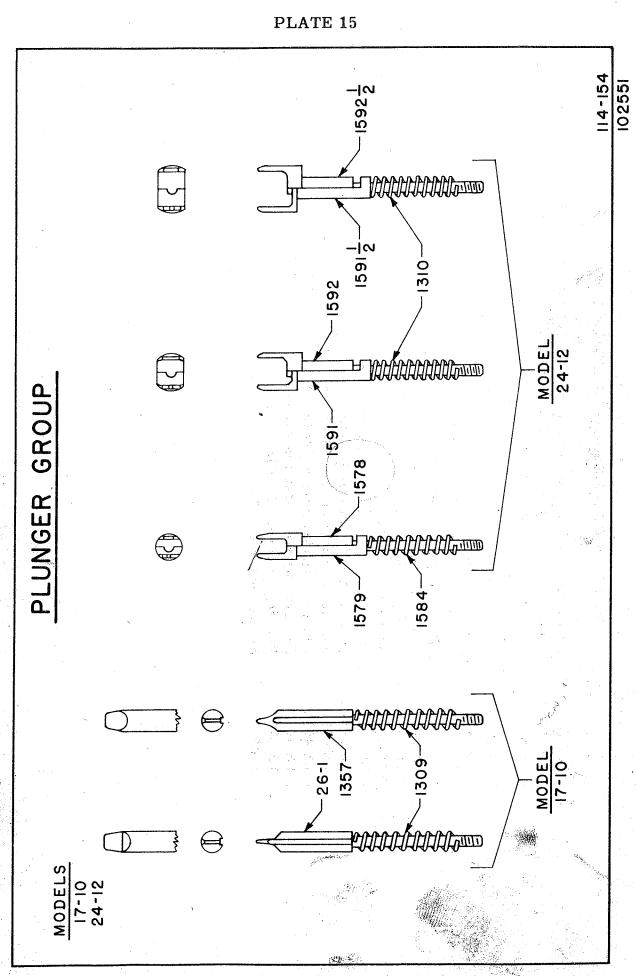
Feed Rocker Crank with Screw LS 301.  Feed Rocker Shaft with Crank, Model 17-10.  Bushing in Base for LS 135A and 448-6.  Clamp Screw for LS 19A.  Nut for Bearing Screw 1244.  Nut for Bearing Screw 1260.  Feed Rocker Connecting Rod.  Clamp Screw for 1205.  Bearing Screw for 1205.	Bearing Screw for 1261 and 46-15. Feed Link, Model 17-10. Hinge Pin for 1261. Feed Link, Model 24-12. Crank with Shaft and Pin for rocking feed, Model 24-12.
LS 19A LS 135A LS 201 LS 301 1009 1160 1205 1205	1260 1261 1262 46-15 448-6



# PLUNGER CRADLE AND ADJUSTING GROUP

LS 20A	Plunger Elevating crank with screw 1.8 301 Model 17_10
LS 20CMA	Plunger Elevating crank with screw I.S 301 Model 24-12
LS 43A	Plunger cradle complete with bushings
LS 165A	Plunger elevating shaft with crank
LS 219A	Plunger adjuster knob complete with shaft and nin
LS 220	Nut for LS 219A.
LS 294	Cam for producing 2-to-1 skip stitch
LS 299	Lock Nut for pivot screws LS 397 and LS 398
LS 301	Clamp Screw for LS 20A and LS 20CMA
LS 314	Clamp screw for LS 541.
CS 335	Screw for LS 219A.
LS 397	Pivot screw for LS 294 (2) used.
LS 398	Pivot screw for cradle LS 43A.
LS 403	Plunger adjuster spring, Model 24-12
LS 403S	Plunger adjuster spring, Model 17-10.
LS 541	Plunger adjuster retaining spring
LS 675	Bearing center for LS 43A
1005	Set Screw for LS 675

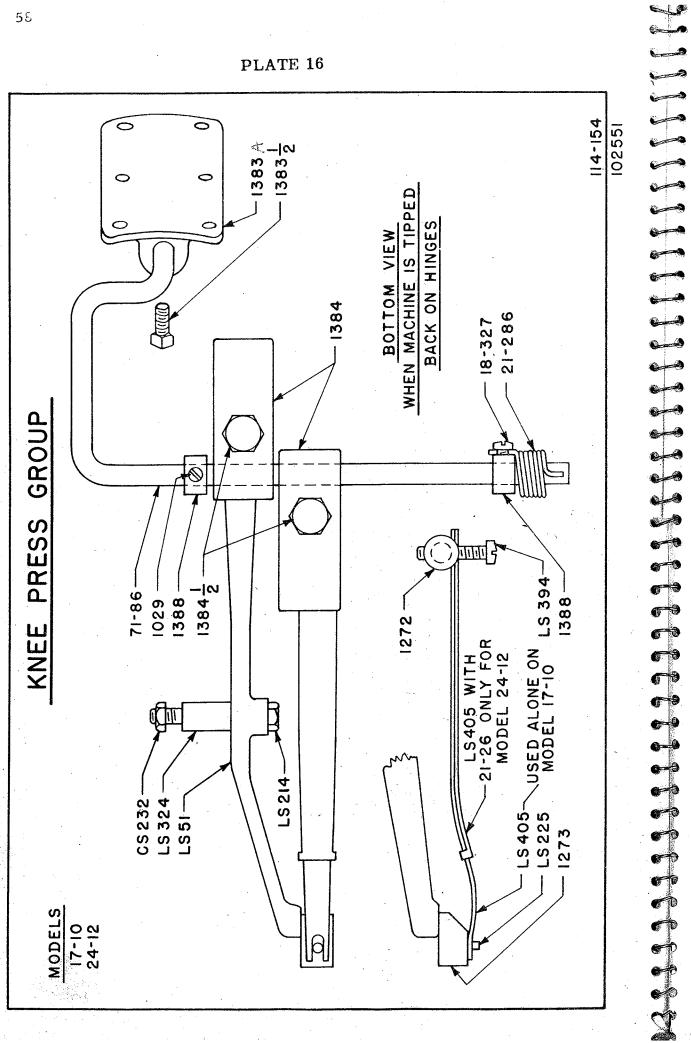
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## PLUNGER GROUP

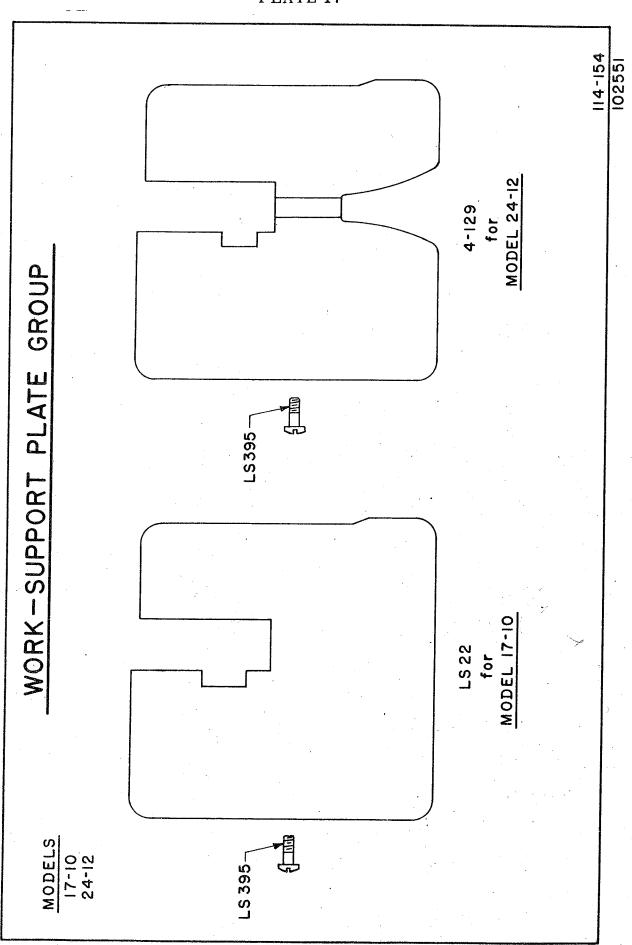
. У. # - У		343A, 1343SA, 1373A, 1373SA	(ATC) OF (ATC) OF (STORY)	light. Model 24-12	i, light, Model 24-12	579.	Medium. Model 24-12	A. heavy. Model 24-12	medium. Model 24-12	heavy Model 24-12	incayy, would be 12.
Plunger barrel spring, heavy.	Plunger barrel spring, light.	Plunger sharp edge, use with feet 1343A, 1343SA, 1373A 1373SA	Model 17-10.	Plunger (long) use with Foot 1571A, light, Model 24-12	Plunger (short) use with Foot 1571A, light. Model 24-12	Plunger spring, use with 1578 and 1579,	Plunger (short) use with Foot 1593A, Medium. Model 24-12	Plunger (short) use with Foot 1593SA, heavy, Model 24-12	Plunger (long) use with Foot 1593A, medium. Model 24-12	Plunger (long) use with Foot 1593SA heavy Model 24-12	Plunger for light material Made 1 12 10
		1357 P			- 1 - 1	٠.	-	-1/2	* 4 .	-1/2	26-1 P

PLATE 16



## KNEE PRESS GROUP

Feed depresser lever.	Lock nut for LS 324.	Guide pin in 1273 for spring LS 405.	Nut on LS 324.	Stud for LS 51.	Screw for LS 405.	Long feed spring for Model 17-10 and 24-12	Set Screw for Collar 1388.	Nut for feed springs LS 405 and 21-26.	Feed spring slide block.	Knee press pad. with Screw 1383/2	Set screw for 1383A.	Elevating levers (2) used.	Clamp screws for 1384.	Collar for 71-86.	Collar for 21-286.	Screw for 1388 and spring 21-286	Short feed spring for Model 24-12.	Spring on 71-86 for 1383.	Knee lift rod
LS 51	LS 214	LS 225	CS 232	LS 324	LS 394	LS 405	1029	1272	1273	1383A	1383-1/2	1384	1384-1/2	1388		18-327	21-26	21-286	71-86



## WORK SUPPORT PLATE GROUP Model 17-10 and 24-12

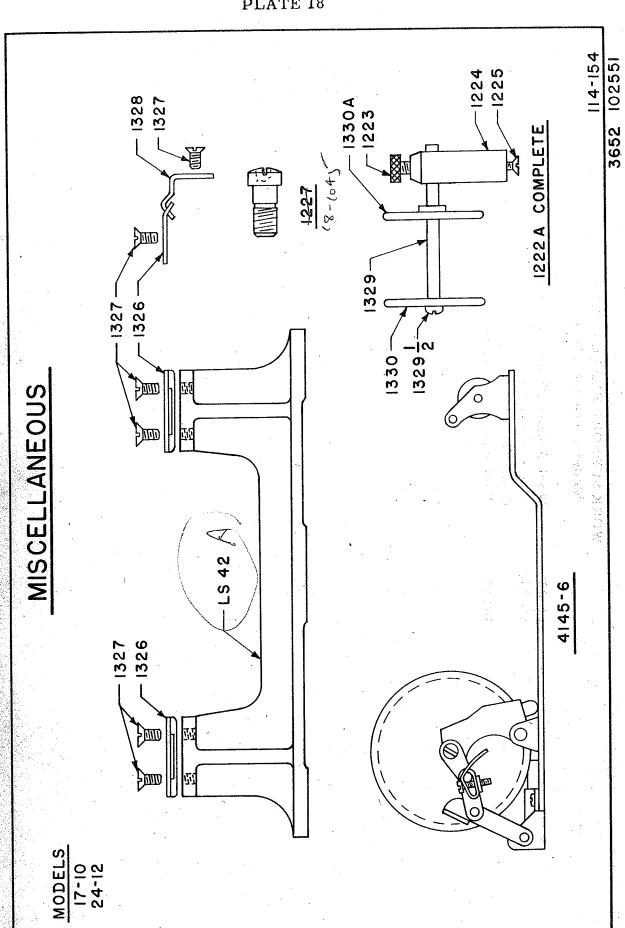
. 1

Work Support Plate, Model 17-10. Clamp screw for LS 22.

Clamp screw for 4-129.

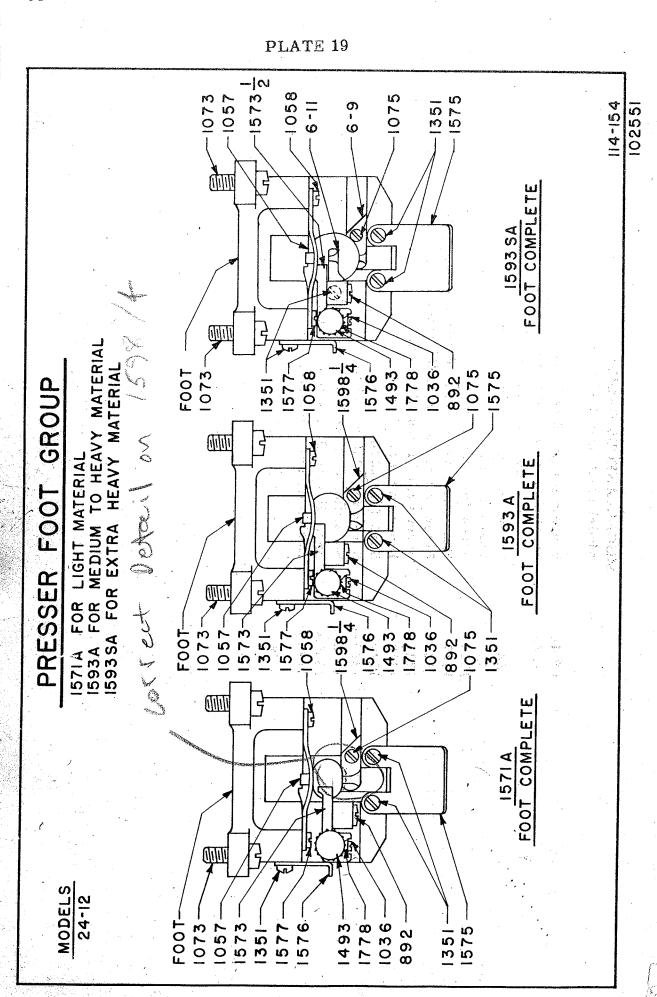
Work support plate, Model 24-12.

4-129



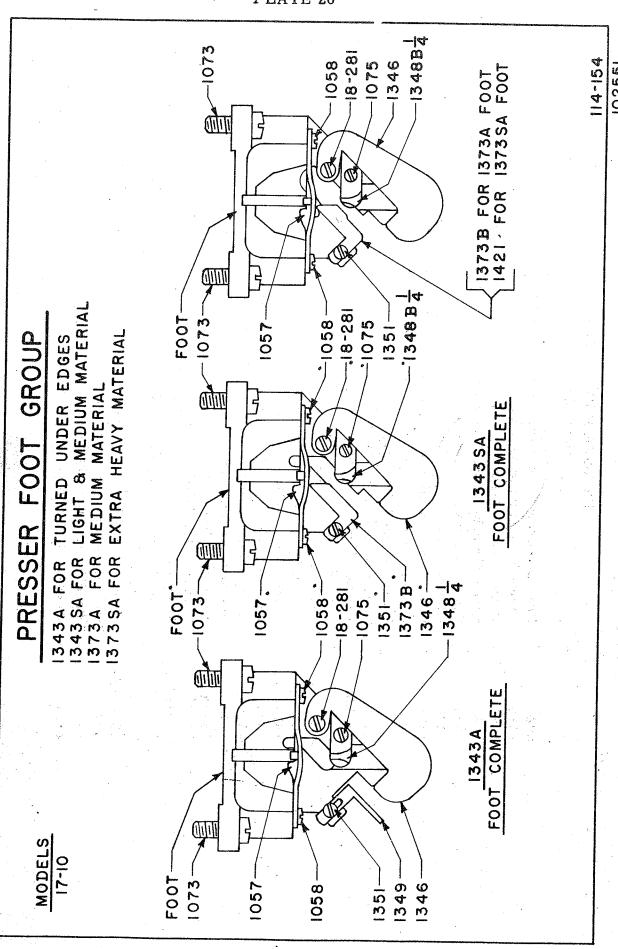
### MISCELLANEOUS GROUP Model 17-10 and 24-12

42 Bracket for machine hinge.  22A Spool holder complete. Composed of: 1223, 1224, 1225, 1329, 1329-1/2, 1330 and 1330A.		7-8-104	1/2	
LS 42 1222A	1223 1224 1225	1326 1326 1327	1328 1329 1329	1330 1330A 4145-6



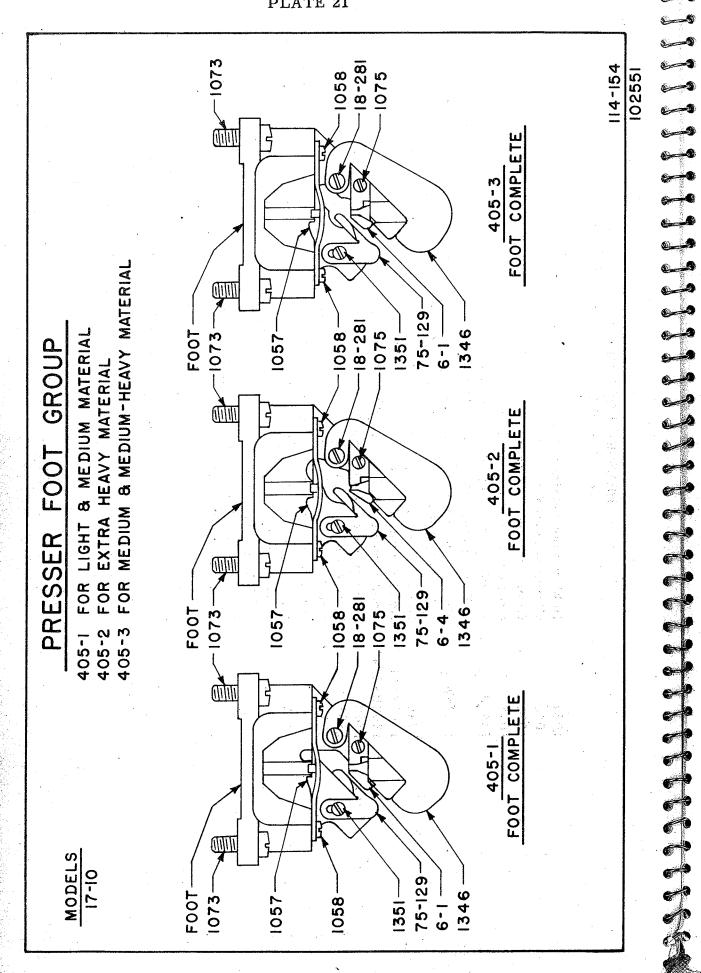
### PRESSER FOOT GROUP Model 24-12

Bearing screw for crowns 1573 and 1573-1/2.	Screw for retaining spring 1778.	Bobbin case retainer.	Screw for bobbin case retainer 1057 (Right side).	Clamp screws for presser foot.	Clamp screw for needle guides 1598-1/4 and 6-9.	Clamp screws for needle guard 1575 (2) used.	Clamp screw for edge guide 1576.	Clamp screw for 6-11.	Adjusting screw for crown.	Presser Foot for light work, complete. Composed of 892, 1036, 1057.	1058, 1075, (3) 1351, 1493, Foot, 1573, 1575, 1576, 1577, 1598-1/4 and	1778.	Crown for 1571A and 1593A.		Needle guard for 1571A, 1593A and 1593SA.	Edge guide for feet 1571A, 1593A and 1593SA.	Screw for bobbin case retainer 1057 (Left side).	Presser Foot for medium to heavy work, complete, composed of 892, 1036, 1057,	1058, 1075, (3) 1351, 1493, 1573, 1575, 1576, 1577, Foot, 1598-1/4, and 1778.	Presse	1036, 1057, 1058, 1075, (4) 1351, 1493, 1573-1/2, 1575, 1576, 1577, Foot	and 1778	/4 Needle guide for 1571A and 1593A.	Retaining spring for crown screw 1493.	Needle guide for 1593SA.	Needle guide (center) for 1593SA.
892	1036	1057	1058	1073	1075	1351			1493	1571A			1573	1573-1	1575	1576	1577	1593A		1593SA			1598-1,	1778	6-9	6-11



### PRESSER FOOT GROUP Model 17-10

Bobbin case retainer.  Clamp screws for 1057.  Clamp screws for presser foot.  Screw for needle midge 1240 1/4 2010 1000.	Presser foot complete. Composed of 18-281, 1057, (2) 1058, 1075, Foot, 1346, 1348-1/4, 1349 and 1351.  Presser foot for light and medium work, complete. Composed of: 18-281, 1057, (2) 1058, 1075, Foot, 1346, 1348B-1/4, 1351 and 1373B	Needle Guard.  Needle guide for foot 1343A.  Needle guide for feet 1343SA, 1373A and 1373SA.  Edge guide for foot 1343A.  Screw for edge guides.	Presser foot for medium work, complete. Composed of: 18-281, 1057, (2) 1058, 1075, 1346, 1348B-1/4, 1351, Foot and 1373B. Edge guide for 1343SA and 1373A.	Liesser 1000 for extra heavy work, complete. Composed of: 18-281, 1057, (2) 1058, 1075, 1346, 1348B-1/4, 1351, Foot, 1421. Edge guide for 1373SA. Clamp screw for needle guard 1346.
1057 1058 1073 1075	1343A 1343SA	1348-1/4 1348-1/4 13489 1351	1373A 1373B 1373SA	1421 18-281



### PRESSER FOOT GROUP For Piped Edges

		29. 25-1 and 405-3.	.5-2.	405-3.	d edges on light and medium work.	r 1357. d edges on extra heavy work.
Bobbin case retainer. Screws for 1057.	Clamp screws for presser feet. Clamp screw for needle guide. Needle guard.	Clamp screw for plow edge guide 75-129.  Plow edge and needle guide for feet 405-1 and 405-3.	Plow edge and needle guide for foot 405-2. Clamp screw for needle guard 1346.	Edge guide for feet, 405-1, 405-2 and 405-3.	Composed of: Foot, 6-1, 18-281, 75-129, 1057, (2) 1058, 1075, 1346	Presser foot complete for felling piped edges on extra heavy work.
1057 1058	1073 1075 1346	1351 6-1	6-4 18-281	75-129 405-1		405-2

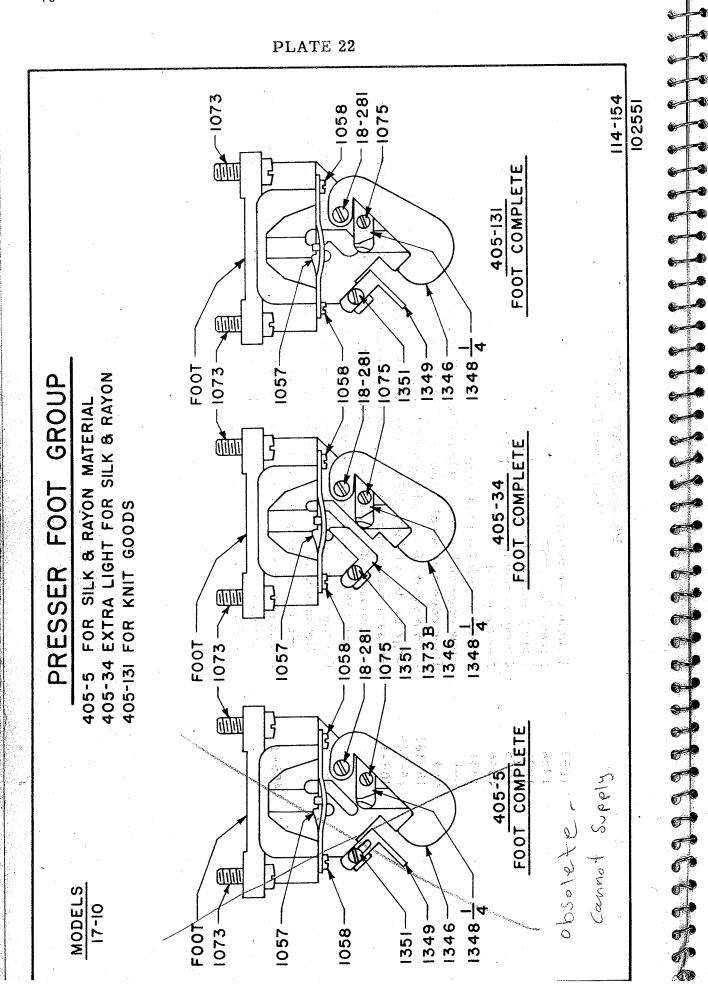
Presser foot complete for felling piped edges on medium and heavy work.

Composed of: Foot, 6-1, 18-281, 75-129, 1057, (2) 1058, 1075, 1346

and 1351. Use with standard plunger 1357.

Composed of: Foot, 6-4, 18-281, 75-129, 1057, (2) 1058, 1075, 1346

and 1351. Use with standard plunger 1357.



## PRESSER FOOT GROUP For

Silks, Rayons and Knit Materials

•					4	<b>a</b> s
Model 17-10	Bobbin case retainer. Screws for 1057. Clamp screws for Presser feet.	Clamp screw for needle guide.  Needle guard.  Recalle Guide.	Screw for edge guides.  Edge guide for foot 405-34.  Clamp screw for needle guard 1346.	Presser foot complete, for silks and rayons, 1/8" cloth opening. Composed of: Foot, 18-281, 1057, (2) 1058, 1075, 1346, 1348-1/4, 1349 and 1351. Use with plunger 26-1.	Presser foot complete, extra light for silks and rayons. 1/8" cloth opening. Composed of: Foot, 18-281, 1057, (2) 1058, 1075, 1346, 1348-1/4, 1351 and 1373B. Use with plunger 26-1.	Presser foot complete for knit materials. Composed of: Foot, 18-281, 1057, (2) 1058, 1075, 1346, 1348-1/4, 1349 and 1351. Use with standard plunger 1357.
·	7 2 2 2	10 (5 1346 1348-1/4 1349	18-281	405-5	405-34	405-131.
		* * * *	C:01			

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PART NO.	PLATE NOS.	PART NO.	PLATE NOS.
LS 6	1	₩ LS 324	16
LS 7A	i	CS 328	8
40	l i	LS 330	7
LS 9	(5) 1	CS 335	14
LS 19A	13	CS 337	2
LS 20A	12, 14	LS 393	8
LS 20CMA	1 . 4	LS 394	16
LS 21A	12	LS 395	10, 11, 17
LS 22	17	LS 396	11
LS 23N	10	LS 397	14
LS 42	18	LS 398	14
LS 43A	14	LS 403	14
LS 51	16	LS 403S	. 14
LS 70-1/2	8	LS 405	70716
LS 71	8	LS 509-1/2	
LS 74	8	CS 510	2
LS 75	8	FP 539	10
LS 76	8	LS 541	14
LS 120	8	LS 629	11
LS 130A	10, 11, 12	LS 670	8.
LS 135A	10, 13	LS 671	
LS 165A	10, 11, 14	LS 672A	8
CS 200	12	LS 674	10
LS 201	13	LS 675	14
LS 207	11	892	19
LS 210		1001	2
LS 214	16	1002	2
LS 219A	14	1002-1/2	2
LS 220	14	1003	2
LS 225	10, 11, 12, 16	1004	2
CS 231	7	1005	1, 2, 14
CS 232	11, 16	1006	<u> </u>
LS 294	8, 14	1006S	<u> </u>
LS 295	8	1007	5
LS 299	14	1008	5
LS 301	12, 13, 14	1009	5, 12, 13
LS 302	10	1010	5
LS 314	7, 14	1011	. 5
LS 317	10, 11	1012	5
SS-320-1/2	C\$3/7/2 1	1014	5

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PART NO.	PLATE NOS.	PART NO.	PLATE NOS.
1015	5	1072A	9
1016	5	1073	9, 19, 20, 21 & 22
1018A	6	1074	9
1019	6	1075	9, 19, 20, 21 & 22
1020	1, 6	1081	7
1021	6	1132	7
1022	6, 11	1134	7
1023	6	1139	2
1024	3	1143	2
1025	1, 3, 8	1144	2
1026	3	1146	2
1027	3	1146S	2
1028	3	1147	1
1029	3, 16	1158	8
1030	3	1160	10, 11, 12, 13
1031	1, 3, 8	1170	4
1034A	4	1181	7
1035	4	1182A	7
1036	4, 5, 19	1183	7
1037	4	1185	7
1039	4	1186	7
• 1040A	4	1187	7
1041A	4	1188	7
* 1041C	4	1189	7
1043	4	1195	
1046	4	• 1196	• • • • • • • • • • • • • • • • • • •
1047	4	1200	1
1053	4 .	1201	• • • • • • • • • • • • • • • • • • •
1054	4	1203	1
1055	4	1205	13
1056	5	1206	12, 13
1057	19, 20, 21, 22	1210	12, 13
1058	19, 20, 21, 22	1211	1
1059	5	1212	1
1060	5	1213	
1066	9	1214	<b></b>
1067	9	• 1220	ç
• 1071	9	• 1221	9
10.72	9	1222A	18
		4 IUUGA	10

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<b>1223</b>	18	► 1383A	129-18 16
· 1224	18	<i>4</i> 1383−1/2	22500 16
<b>*</b> 1225	18	1384	16
1227 18-1045	18	1384-1/2	16
1244	12, 13	1388	16
1249	10, 11, 12	1413	10
1251	10, 11, 12	1414	10
1254	10, 11	1415	10
1256	10, 11	• 1417A	10
1260	10, 11, 13	• 1421	20
1261	10, 13	1432A	5
		1432-1/2A	5
1262 1263C 23	3-11/2 10	1436	S Page 11
1262 1263C 23- 1-1263CA 42	3-3-4 10	1442	7
1272	16	1493	19
1273	11, 12, 16	1551	3
1288	12, 12, 13	1552	7
1303	10	1553	7
1304	10	1554	7
1309	10, 15	1555	7
• 1310	15	1556	7
1311	10, 11	1557	7
1326	18	1558S	7
1327	18	1571A	19
1328	18	1573	19
	· ·	1573-1/2	19
1329	18	1575-1/2	19
1329-1/2	18	1576	19
* 1330	18	1577	19
1330A	18		
• 1343A	20	1578	15
1343SA	20	1579	15
1346	20, 21, 22	1584	15
1348-1/4	20, 22	<b>*</b> 1591	15
1348B-1/4	20	1591-1/2	15
*1349	20, 22	1592	15
1351	19, 20, 21, 22	1592-1/2	15
1357	15	1593A	19
1368OS	10	1593SA	19
1373A 1373B	20 20,22	1598-1/4	19
1373BA	20, 22	1669	10, 11, 12

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	1671	10, 11	1 24-288	10
	1672	10, 11, 12	<b>№</b> 26-1	15
	1673	10, 11, 12	26-148	4
	1677A	10, 11	46-15	11,13
	1778	19	46-94	10,11,12
	V-1802 57-4.		47-115	12
	4-129	17	• 51-19	4
	€ 6-1	21	68-3	11
	<b>★</b> 6-4	21	68-19	7
	• 6-9	19	71-86	16
	<b>*</b> 6-11	19	75-15	11
- 1	14-324	1	75-16	11
	18-106	11	<b>№</b> 75-129	21
	18-125	11	115-3	11
	18-281	20, 21, 22	* 405-1	21
	18-327	16	+ 405-2	21
	18-719	4	• 405 <b>-</b> 3	21
	18-736	8	\$ 405 <b>-</b> 5	22
	18-748	1	405-34	22
	18-912	4	, 405-131	22
	20-60	7	416-11	4
	21-26	16	* 423 <b>-</b> 291	11
	21-27	11	424-8	11
	21-284	7	445-234	6
	21-286	16	445-251	4
	22-21	11	448-6	11, 13
	• 22-241	4	470-6	11, 15
	1 23-29 15	89KL 11	• 4145-6	. 197
	24-8	11		7 % 3 10
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