INSTRUCTIONS FOR

FLAT BED MACHINES

CLASSES 3000, 5000 and 5100

with

ILLUSTRATIONS

and

PRICE LIST OF PARTS FOR REPAIRS ONLY

CATALOG No. 37

UNION SPECIAL MACHINE COMPANY
CHICAGO, ILLINOIS

BRANCH OFFICES:

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IMPORTANT NOTICE TO CUSTOMERS

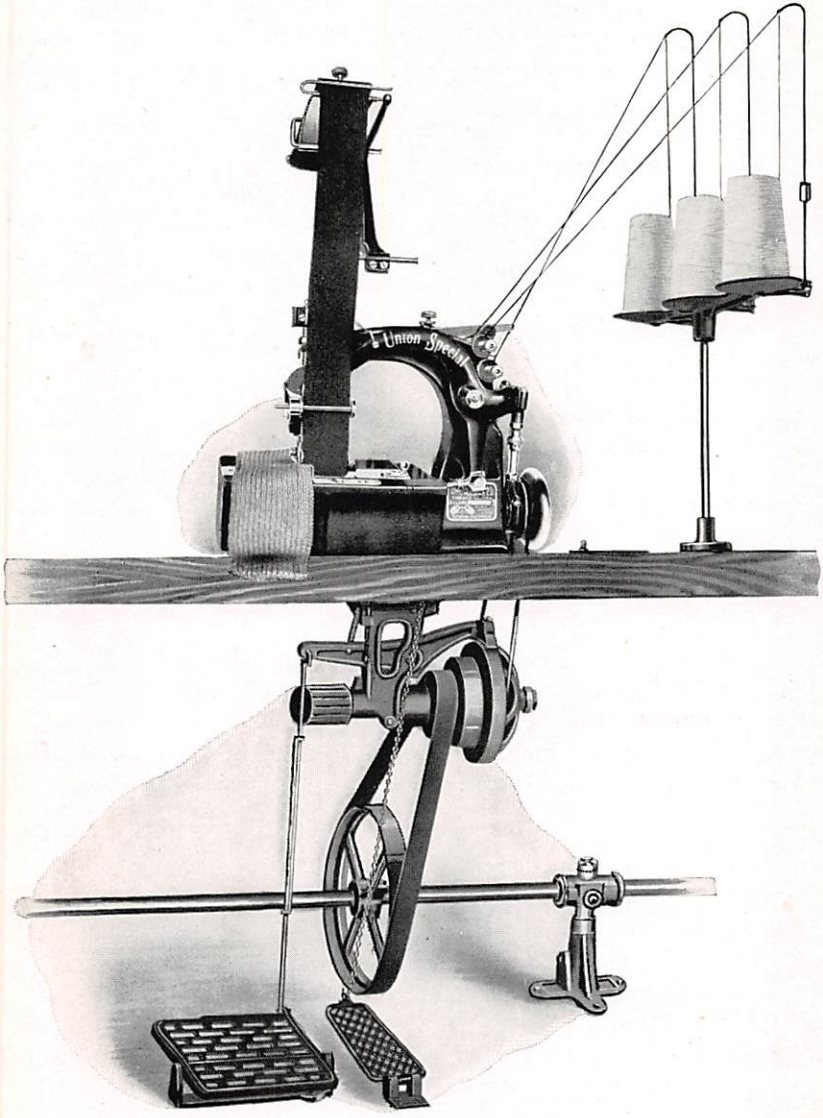
The parts listed in this catalog are furnished at list prices for repairs only.

Attention is hereby called to the fact that many of said parts are subjects of patents, or enter into patented combinations, and that in furnishing these parts at list prices we only license their use for repairing machines of our own make, in their original condition.

Notice is hereby given that the sale of such parts by the purchaser, or the use thereof for changing over machines from one style to another, or for any other than *bona fide* repair purposes, is an infringement, for which the seller or user will be liable to prosecution.

CONTENTS

The matter of this catalog relates only to machines in Classes 3000, 5000 and 5100, and cannot be applied to machines in other classes. The class number can be ascertained by reference to the name plate on the machine. Power transmitter parts are listed in a separate catalog.



STYLE 3000 Q PROPERLY INSTALLED ON WORK BENCH

DESCRIPTION OF MACHINES

Our machines are separated into Classes, the number of which will be found upon the trade-mark plate attached to each machine. The Classes are divided into different Styles which are indicated by a letter used with the Class number and is referred to only in the catalog. It designates a machine having certain fittings for a particular operation.

The Gauge Number represents the space between needles.

The spacing of gauges Nos. 8 to 20, inclusive, is as follows:

Gauge No	Space	Gauge No.	Space
8	1/8-inch	16	1/4-inch
12	3/16-inch	20	5/16-inch

Machines in Class 5100 are spaced No. 16 gauge between outside needles unless otherwise specified.

STYLES OF MACHINES IN CLASS 3000

Small Arm Flat Bed Two Needle Machines, One Looper, Twin Needle Stitch, Short Needles

Style

3000 A—For ornamental stitching, knitted underwear, etc. (specify gauge of machine).

3000 C—For seam covering, knitted goods, etc.; presser foot with hinged grooved bottom (specify gauge of machine).

3000 D—For seam covering, knitted goods, etc.; presser foot with independently yielding sides (specify gauge of machine).

3000 E—For sewing lace edging to knitted underwear, etc. (specify gauge of machine).

3000 F—For hemming bedspreads; presser foot with hinged flat bottom (specify gauge of machine).

3000 M—For sewing lace edging to knitted underwear, etc.; with tandem differential feed (specify gauge of machine).

3000 P—For seaming collarettes to knitted undershirts and other garments; with tandem differential feed (specify gauge of machine and finished width of collarette).

3000 Q—For seaming a tubular knitted border to sweaters, etc.; border next to presser foot, no folding attachment (specify gauge of machine and submit roll of border).

3000 Z—Special.

STYLES OF MACHINES IN CLASS 5000

Flat Bed Double Interlock Machines, Short Needles

Style

5000 A—For finishing cut edges, knitted underwear, etc.; solid presser foot, tandem differential feed (specify gauge of machine).

5000 C—For seaming knitted underwear, etc.; lap seam, presser foot with independently yielding sides, tandem differential feed (specify gauge of machine).

5000 G—For finishing cut edges, knitted underwear, etc.; presser foot with independently yielding sides, tandem differential feed (specify gauge of machine)

5000 L—For seaming collarettes to knitted undershirts and other garments; with tandem differential feed (specify gauge of machine and finished width of collarette).

5000 M—For sewing lace edging to knitted underwear, etc.; four thread interlock, no looper thread (specify gauge of machine).

5000 Z—Special.

STYLES OF MACHINES IN CLASS 5100

Flat Bed Triple Interlock Machines, Short Needles

Style

5100 E—For seaming knitted underwear, etc.; lap seam; presser foot with hinged grooved bottom, tandem differential feed.

5100 F—For finishing cut edges, knitted underwear, etc.; presser foot with independently yielding sides, tandem differential feed.

5100 G—For seaming knitted underwear, etc., lap seam; presser foot with independently yielding sides, tandem differential feed.

5100 H—For seaming ribbed knitted cuffs to sleeves, etc.; with auxiliary differential feed (specify gauge of machine).

5100 J—For seaming short collarettes to knitted undershirts and other garments; without folding attachment.

5100 Z—Special.

INSTALLATION

Sewing Machine Being thoroughly tested and accurately adjusted before leaving our factory, Union Special Machines are shipped in perfect working order. The illustration, page 5, gives a good idea of the sewing machine, power transmitter, and foot treadle, set up for operation.

Tables Any sewing machine table of ordinary construction may be used. Where an oblong hole has been cut in the table to accommodate another machine, it should be filled with a piece of thoroughly seasoned lumber of corresponding thickness. A tight fit should be made, re-enforced with nails or screws. The top of the table should be free from any unevenness. If a new table is to be made, a height of twenty-nine inches to the top of the table will be found best suited for operators of average size.

Speed The following table gives the speed recommended for each style when used for the operation specified in the description on pages 6 and 7:

Style	Revolutions Per Minute	Style	Revolutions Per Minute
3000 A	3100	5000 C	2500
3000 C	3200	5000 G	2500
3000 D	3100	5000 L	2500
3000 E	3200	5000 M	2500
3000 F	3000	5100 E	2500
3000 M	3200	5100 F	2500
3000 P	3000	5100 G	2500
3000 Q	3000	5100 H	2500
5000 A	2500	5100 J	2500

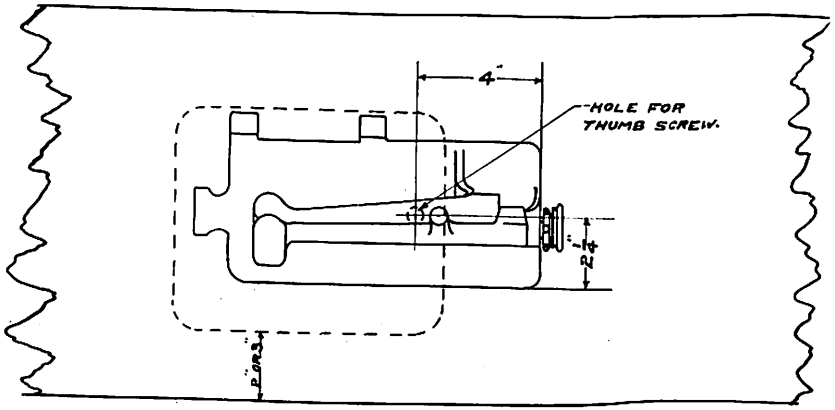
Pulleys Line shaft pulleys should be ordered of sufficient diameter to allow for the loss of speed from slippage of belt, which amounts to about six per cent. They are made with $1\frac{3}{16}$-inch bore and $1\frac{1}{2}$-inch face; the diameters range in inch sizes from eight to fifteen inches, inclusive.

The transmitter has two pulleys. A loose pulley having two steps, $3\frac{3}{4}$ and $5\frac{3}{4}$ inches in diameter, and a brake pulley with one step, seven inches in diameter. An extra large transmitter brake pulley, ten inches in diameter, No. 28518, can be furnished, to be used where it is impossible to swing a sufficiently large line shaft pulley.

Belts A one-inch flat belt transmits power from the line shaft to the transmitter, and a $\frac{9}{32}$-inch round belt from the transmitter to the sewing machine. The belts must be arranged so as to turn the sewing machine pulley in the direction indicated by the arrow in the diagrams on pages 13 to 16, inclusive. If necessary to cross a belt, the round belt should be crossed.

Fastening Machine to Table

Place the machine in position that the front edge of the cloth plate is about two inches back from the front edge of the table. Draw two lines on the table even with the base of the machine, one at the front and the other at the right-hand end. Remove the machine and draw a line parallel with and 2¼ inches back of the line at the front of the machine. Draw a line parallel with and four inches to the left of the line at the right-hand end of the machine. Bore a $\frac{7}{16}$-inch hole where the last two lines intersect.



Pass the thumb screw through the $\frac{7}{16}$-inch hole, and into the threaded hole in the base. Then swing the machine so that its base is parallel with the front of the table and drive a metal pin or nail at the rear right-hand corner.

Caution

The table top where the machine is attached must be level. Do not spring bed casting out of line in fastening to table by securing it to an uneven surface.

Transmitter

Use 1¼-inch wood screws to secure the transmitter to the table. The transmitter should be placed far enough back under the table to be out of the way of the operator's clothing, that is, the front edge should be about six inches back of the machine thumb screw. Special care must be observed to make sure that the groove of the transmitter brake pulley is directly under the groove of the machine pulley.

The transmitter must also be in proper alignment with the line shaft. A very good method is as follows: Place the pulley on the line shaft, but do not tighten it. Put in only the front right-hand screw to hold the transmitter temporarily. Swing the transmitter that its shaft is in alignment with the line shaft. The correct position can be easily determined by sighting across the two pulleys. Insert

a second screw diagonally opposite the one already in. Swing the transmitter frame slightly out of the vertical and toward the line shaft, by loosening the rear belt adjusting screw and tightening the front one, use wrench, No. 21388 B, and tighten the front screw securely. Measure the length of flat belt required to go around the line shaft pulley and the transmitter pulley. Join the two ends of the flat belt by a malleable iron belt lacing provided for that purpose. Drive the lacing into one end of the belt, placing it over the two pulleys so that the ends meet on the transmitter pulley, then drive the lacing into the opposite end. See that the lacing conforms to the curvature of the pulley and that the teeth are well clinched. Turn the pulleys by hand to note if the belt runs true; this is the best test of proper alignment. To direct the belt to operate in the center of the crown upon the pulleys and to compensate for any slight error in alignment of the transmitter with respect to the line shaft, remove the left-hand rear screw and slightly turn the transmitter as required. In some instances, owing to the line shaft not being in proper alignment with the underside of the table, it will be necessary to insert a shim between either the right or left end of the transmitter frame and the table. Being now placed in proper relation with both the line shaft and the sewing machine, the transmitter should be permanently secured to the table by inserting screws in the remaining holes. If a screw has been removed for the purpose of correcting the position of the transmitter, it should be the last one replaced, otherwise it might have a tendency to draw the transmitter out of alignment. Tighten the line shaft pulley securely to the shaft.

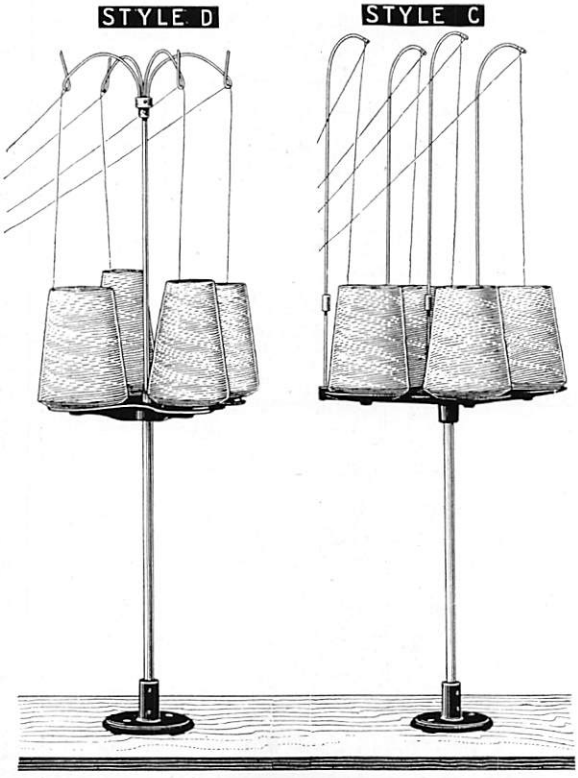
To locate the holes in the table for the round belt, a ¼-inch pointed rod can be used to advantage by placing said rod in the groove of the machine pulley at the proper angle, which would if projected meet the groove in the transmitter brake pulley. When the angle is ascertained drive the point of the rod into the bench only enough to hold it to act as a guide in the drilling of the hole to secure the proper angle of the hole through the table. A carpenter's bevel square may be used for the same purpose. The diameter of the holes should not exceed ⅞ inch. If the holes are slightly elongated, a wider range of adjustment can be obtained for the transmitter to take up the belt.

A guard is provided to be fastened to the under side of the work table in front of the transmitter. Its use is quite imperative as a protection for the operator from the rapidly moving belts.

The transmitter treadle should be so set that its center is directly under the needles. The front edge should be about one inch back from the front edge of the table, but this distance may be varied

according to the operation for which the machine is to be used. The treadle rest should be set with the enclosed end to the right. The pitman rod should be attached to the right-hand side of the treadle, and may be adjusted in length so that the incline of the treadle will suit the operator's convenience; it need not necessarily hang in a vertical position.

Thread Stands The accompanying illustrations show two styles of thread stands set up ready for use. One of these styles of suitable units is furnished with each of these machines. It should be placed back of the machine pulley and a short distance to the right.



Foot Lifter This is a device sometimes furnished for raising the presser foot. It consists of a small foot treadle, No. 422, connected by a chain with a lever attached to the rear of the sewing machine. The hole for the chain should be bored near the rear right-hand corner of the machine. The treadle should be placed to the right of the transmitter treadle.

OPERATING

Simplicity In isolated factories where operators have but scant opportunity to observe the working of any kind of machinery, they readily adapt themselves to Union Specials. Obviously, practice will increase the proficiency of the operator in threading and oiling the machine, and in handling the work.

To Set the Needles The needles have two grooves: A short groove extending from the shank to a point about 1/8 inch above the eye and a long groove extending from the shank to the eye.

Insert the needles as far up into the needle bar as they will go, with the long grooves in front, so that the eyes of the needles will be in line with the direction of the stitching. Then tighten the set screw with the screw driver furnished for that purpose.

Oiling Sewing machines require careful oiling with a good quality of oil that will not gum by friction-heat or air-exposure. The so-called "stainless" oils are not recommended for our high speed machines, as they do not have sufficient viscosity to serve the purpose.

Diagram A shows the oiling places on Styles 3000 A, 3000 C, 3000 D, 3000 E and 3000 F. The few additional places on Styles 3000 M, 3000 P and 3000 Q will be readily found in the feeding mechanism.

Diagram B shows the oiling places on Classes 5000 and 5100.

It is very plain that lubricant should be used wherever one working part contacts with another.

The left end of the needle lever is fitted with hollow link pins having ball valves. These are oiled by pressing the ball with the oil-can spout. The lower bearing of the sectional needle lever connection on the right-hand end of the machine is oiled through the tube. A liberal quantity of oil should be inserted therein through the valve opening.

When systematically performed, oiling can be done without possibility of missing any place, and in a surprisingly short time.

Frequent oiling is necessary, as lint quickly absorbs the oil. It is recommended that the sewing machine head be given a thorough oiling four times a day.

The power transmitter is lubricated with solid oil through the hollow main shaft from a single compression cup which should be screwed up about once a week. If the bearings run hot, the compression cup should be screwed up immediately. Refilling will not be required oftener than once in several months.

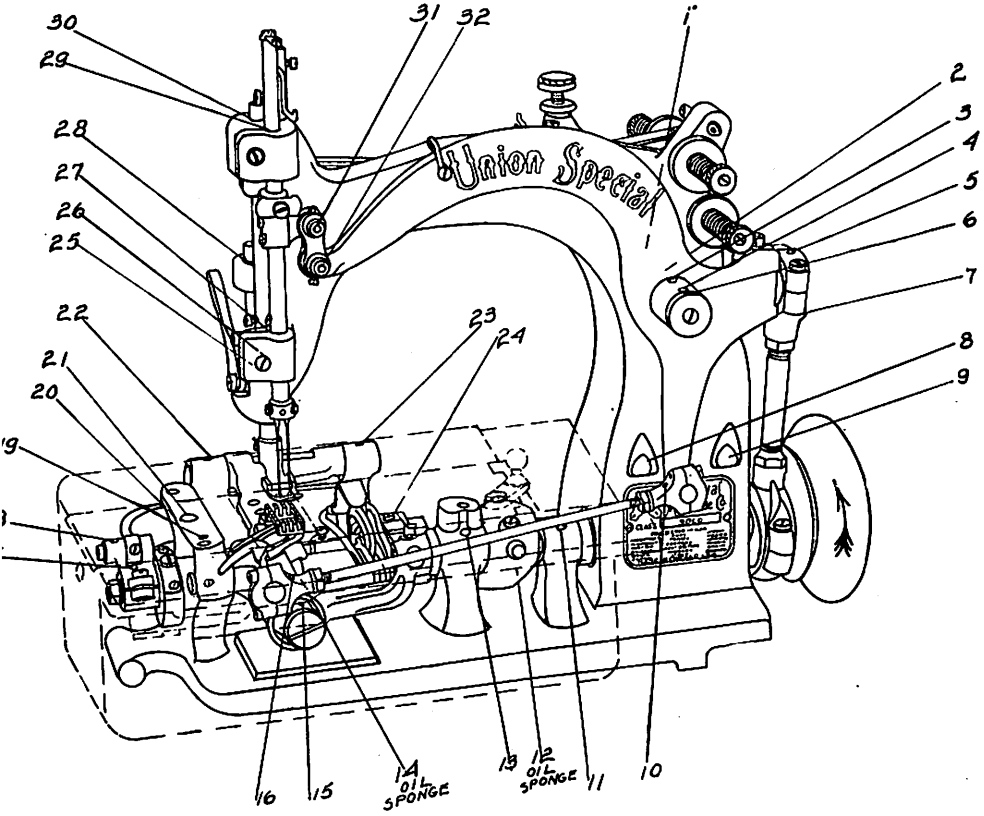


DIAGRAM A—OILING PLACES ON CLASS 3000 MACHINES

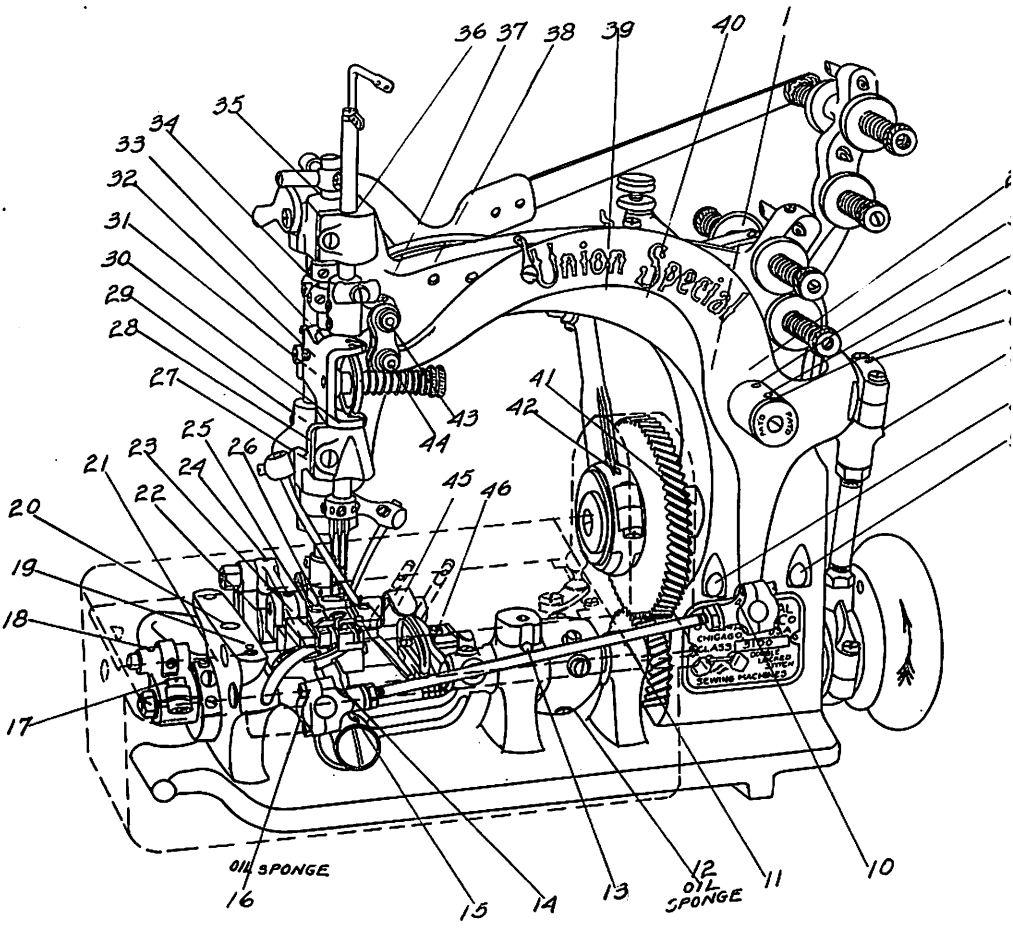


DIAGRAM B—OILING PLACES ON CLASSES 5000 AND 5100

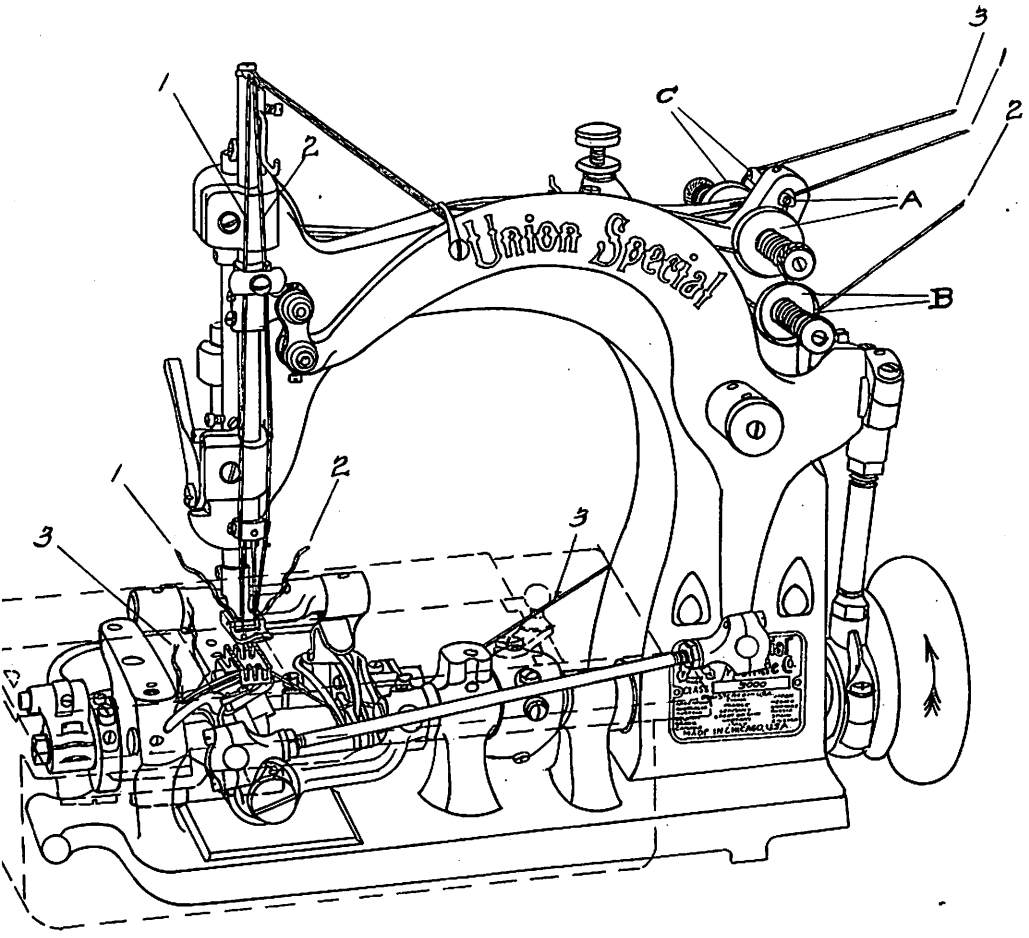


DIAGRAM C—METHOD OF THREADING MACHINES IN CLASS 3000

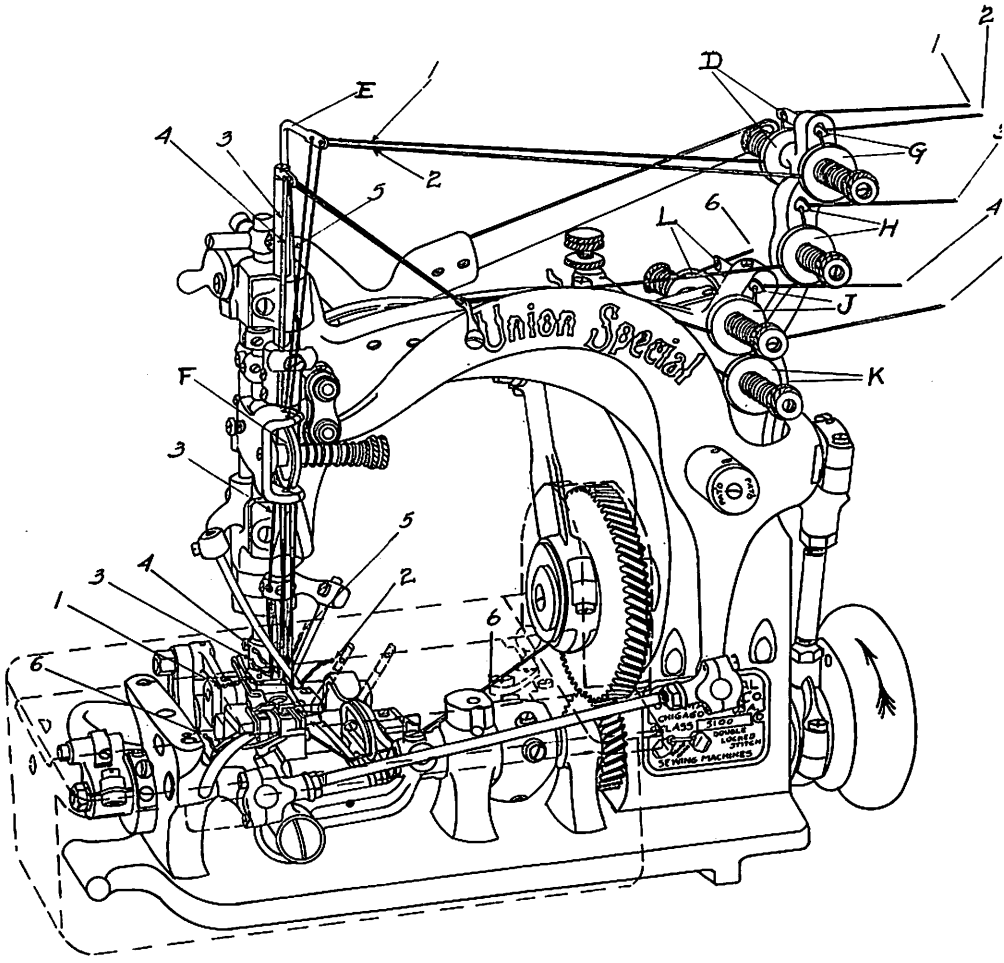


DIAGRAM D—METHOD OF THREADING MACHINES IN CLASS 5100

Cleaning After every oiling operation the overflowed oil and the accumulated lint should be carefully wiped up. The constant accumulation of lint and dirt makes it necessary for the operator to keep the machine as clean as possible, in order to prevent wear in the bearings.

Twice a week the cloth plate should be removed and the machine given a thorough cleaning. Lint and dirt should be removed from the oil holes, feed dog slots and looper grooves with a pin or needle.

To Remove the Cloth Plate Remove the needles to avoid blunting their points. Turn the pulley in the operative direction until the needle bar is at its lowest position. Remove the three screws which hold the cloth plate to the base. If the machine is fitted with thread fingers, turn the pulley until the fingers have passed to a point where the cloth plate hinged cover can be raised. Raise the presser foot. The cloth plate can now be removed by passing it slightly to the left and drawing it toward the operator.

Threading The method of threading should be carefully noted when the machine is taken from the shipping box. A thread hook, No. 118, is furnished for drawing the looper thread under the cloth plate. Insert the thread hook through the opening in the cloth plate at the right of the needles and draw the thread from the stationary eyelet in the rear of the frame up through the opening. The front end of the take-up thread eyelet can be raised for convenience in threading its eyes. The threads should neither be twisted nor cross each other. Each thread must be passed through the tension discs so that it is drawn against the tension post, but under no circumstances should it be guided completely around the post.

The illustrations pages 15 and 16, show how the threads are taken from the spools and passed through the thread wires. Diagram C shows the method of threading machines in Class 3000. Diagram D shows the method of threading machines in Class 5100. The method of threading machines in Class 5000 is the same as for those in Class 5100 with the elimination of thread marked No. 3 in the diagram. The threads are numbered to enable the operator to pass them through the proper tensions, thread eyes, needles and loopers. By following this method the machine may be rethreaded at any time without the necessity of changing the tensions.

Turning to Diagram C it will be noted that thread marked No. 1 is guided from the thread stand to the eye of eyelet marked A, then

between the discs and around the under side of tension marked A, through the adjustable eyelet on the top of the frame, the back eye of the needle lever eyelet, the back eye of the needle bar eyelet, under the needle bar nipper plate to the left of its screw and through the eye of the left-hand needle. Thread No. 2 is guided from the thread stand to the eyelet marked B, then between the discs, and around the under side of tension marked B, through the adjustable eyelet on the top of the frame, the front eye of the needle lever eyelet, the front eye of the needle bar eyelet, under the needle bar nipper plate to the right of its screw, and through the eye of the right-hand needle. Thread No. 3 is guided from the thread stand to the eye of eyelet marked C, then between the discs and around the under side of the tension marked C, through the vertical eyelet in the base of the machine at the rear, between the thread nippers, through both eyes of the take-up thread eyelet and then through the looper.

Thread hook No. 118 will be found of great assistance in drawing the looper thread from the vertical eyelet up through the opening in the cloth plate to the right of the needles. An excellent plan for threading the take-up thread eyelet is as follows: with one finger raise the take-up thread eyelet to the under side of the cloth plate, and pass the thread through the right-hand eye, then through the left-hand eye, hold the end of the thread with the left hand and with the right hand place the thread underneath the hooked end of the upper nipper spring; by dropping the take-up thread eyelet into position the thread should be carried between the nipper springs. The looper can now be threaded.

Turning to Diagram D it will be noted that thread marked No. 1 is guided from the thread stand to the eye of eyelet marked D, between the discs and around the under side of the tension marked D, through the back eye of thread guide marked E, down to the rear upper eyelet hole of the tension bracket, then between the discs to the rear of tension marked F, through the lower holes of tension bracket and through the hole of right-hand finger. Thread marked No. 2 is guided from the thread stand to the eye of eyelet marked G, then between the discs and around the under side of tension marked G, through the front eye of thread guide marked E, through front hole of tension bracket, between the discs and to the front of tension marked F, through the lower hole of tension bracket and through the hole of the left-hand finger. Thread marked No. 3 is guided from the thread stand to the eye of eyelet marked H, between the discs, and around the under side of tension marked H, through the adjustable eyelet on the top of frame, the rear eye of the needle lever eyelet,

the rear eye of the needle bar eyelet, under the needle bar nipper plate, through the left-hand hole of the needle clamp collar and through the left-hand needle. Thread marked No. 4 is guided from the thread stand to the eye of eyelet marked J, then between the discs and around the under side of tension marked J, through the adjustable eyelet on the top of the frame, the center eye of the needle lever eyelet, the center eye of the needle bar eyelet, under the needle bar nipper plate, and through the center needle. Thread marked No. 5 is guided from the thread stand through the eyelet marked K, then between the discs and around the under side of tension marked K, through the adjustable eyelet on the top of the frame, the front eye of the needle lever eyelet, the front eye of the needle bar eyelet, under the needle bar nipper plate, through the right-hand hole of the needle clamp collar and through the right-hand needle. Thread marked No. 6 is guided from the thread stand to the eye of eyelet marked L, then between the discs to the left of tension marked L, through the wire eyelet, between the moving prongs of pull-off and the stationary prongs, through the vertical eyelet in the base of the machine at the rear, between the thread nippers, through both eyes of the take-up thread eyelet and then through the looper.

Thread hook No. 118 will be found of great assistance in drawing the looper thread from the vertical eyelet up through the opening in the cloth plate to the right of the needles. An excellent plan for threading the take-up thread eyelet is as follows: with one finger raise the take-up thread eyelet to the under side of the cloth plate, and pass the thread through the right-hand eye, then through the left-hand eye, hold the end of the thread with the left hand and with the right hand place the thread underneath the hooked end of the upper nipper spring; by dropping the take-up thread eyelet into position the thread should be carried between the nipper springs. The looper can now be threaded.

To Commence Sewing The needle threads should be passed underneath to the rear of the presser foot. The looper thread should be brought up through the opening in the cloth plate to the right of the throat plate and its free end left on top of the cloth plate. Do not close the right-hand cloth plate slide, or cover, as the looper thread would be held between the slide, and the throat plate. The machine will start sewing without having the looper thread drawn from below the throat plate up through the needle holes therein. To assist in forming a stitch with the first revolution of the machine, loosely hold the ends of all the threads.

On machines in Class 5000 and 5100, the finger threads should be also carried to the underside and the rear of the presser foot.

To Stop the Machine When the pressure on the treadle is released, a brake is automatically applied to the transmitter pulley, which causes the machine to be quickly stopped, but if necessary, the machine may instantly be stopped by a heel pressure on the treadle.

To Remove the Work When possible allow the stitches to form a chain between the sewed articles and separate the article by cutting the chain of stitches. If desirable to remove the work while still under the presser foot, turn the pulley in the operating direction until the needle bar reaches its highest position at which time the looper thread is free of the nipper springs and can be drawn without breaking. With the needle bar at its highest position, raise the presser foot, draw sufficient needle thread with the finger through the tensions, then take up the slack thread thus drawn by engaging it underneath the presser foot to carry the slack to a point in rear of the presser foot and then cut or break the thread off as close to the upper surface of the work as possible. The work can then be removed by drawing it away from the operator toward the rear of the work plate. In this manner the cut ends of the needle threads will be drawn to the underside of the material and automatically tied, preventing raveling of the seam.

To Regulate Length of Stitch On the left-hand end of the main shaft will be found the stitch regulating device, held in its adjusted position by a lock nut. To change the length of stitch, the lock nut must be loosened by turning it in a direction toward the rear of the machine using screw driver wrench, catalog No. 21206. It should be applied to the lock nut with the left hand while the machine pulley is held with the right hand. On the main shaft, a cap will be found secured by two small screws with a larger screw between. Turning this larger screw to the right lengthens the stitch; turning it to the left shortens the stitch. Care must be exercised to prevent adjusting the stitch regulator to a point where the motion of the feed dog would be reversed.

Do not fail to tighten the lock nut after each adjustment.

A small ferrule is placed over the stitch regulating screw to prevent the stitch from being lengthened beyond a reasonable limit. By disconnecting the feed crank and feed crank stud, the ferrule may be removed, thus allowing the stitch to be lengthened as far as the feed slots in the throat plate will permit.

ADJUSTMENT INTRODUCTORY

It is difficult to formulate instructions which apply to the adjustment of specially fitted sewing machines. Different qualities of thread and yarn frequently require slightly different adjustment to successfully sew with them. We believe our instructions will apply in nearly all cases, but if necessary a slight deviation in adjustment is permissible.

Useful Hints When a machine fails to work satisfactorily, though apparently in good repair, delay might be avoided by bearing in mind the following suggestions:

(1) Note carefully whether the machine is threaded as directed in every respect, especially at the tensions, and remove any lint which may have accumulated.

(2) See that the required amount of tension is applied to each of the threads.

(3) Examine the needle to see whether it is straight with the long groove in front and inserted as far up in the needle bar as possible.

(4) Remove the needle and see whether it has become bent or blunted. The best possible test is to roll the shank on a perfectly flat surface and note if the point is concentric with the shank.

(5) Remove all the threads from the machine and carefully rethread it.

(6) Clean and oil the machine thoroughly. Try a new set of needles.

(7) The throat plate needle holes may have become roughened so causing breaking of the threads. This may be remedied by smoothing out the holes with a narrow strip of emery cloth.

(8) See that the machine feeds the work correctly.

(9) Examine thread eyelets, take-up wire, and tension posts for grooves cut by passage of thread, causing breaking of thread.

(10) If the foregoing measures fail to relieve the difficulty it may be assumed that the machine needs a general re-adjustment.

Caution The machine should be turned by hand to detect binds or contacts before being operated by power.

ADJUSTMENT

Formation of Stitch In the formation of the stitch, the needles carry their thread through the fabric to a point below the throat plate. When ascending slack thread is formed which is forced out from the rear of the needle in the shape of loops which the looper with its thread enters in passing from right to left. When the needles are above the material being sewed the feed of the fabric forward takes place. The looper continues to the end of its forward stroke and rocks toward the front of the machine, said movement being called "needle avoiding movement", thus the looper moves in an elliptical path completely around the needle. On the return movement of the looper it passes in front of the needles. The looper still continuing to retain the loops of needle thread in its movement to the right, the needles again descend and enter the triangular space formed on one side by the looper, another side by the looper thread extending from the eye in the point of the looper to the fabric and the remaining side formed by the needle threads extending from the fabric and around the looper. In a twin needle machine two needle thread loops are around the looper, the right-hand needle passes into the space between the two needle thread loops and the left-hand needle passes to the left of the loop from the left-hand needle and in the space formed by its loop, the looper thread and the looper. The looper continues its movement to the right, backs out of the needle thread loops leaving the stitches around the needles which are then drawn up against the lower side of the fabric. The looper finally rocks toward the rear of the machine, completing its movement.

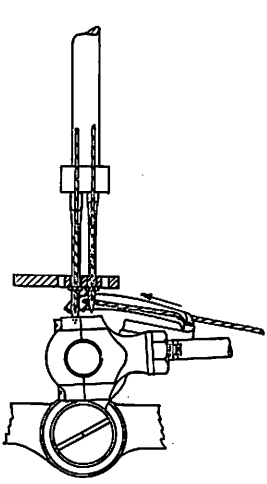


FIGURE 1

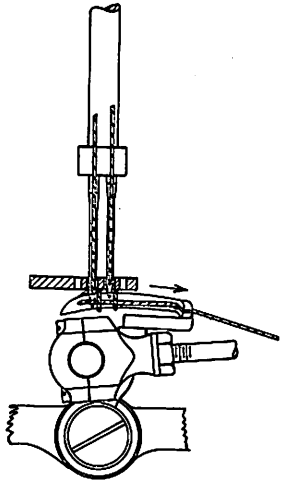


FIGURE 2

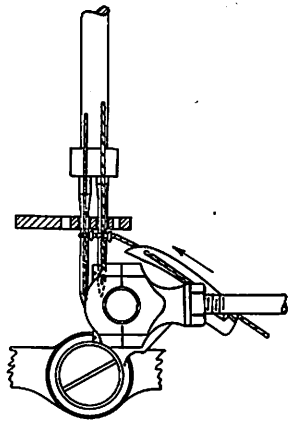


FIGURE 3

Double Interlock Stitch The stitch formed by the Double Interlock Machine is a modified type of the Twin Needle Stitch. The looper thread co-acts with the needle threads in the same manner as when forming the Twin Needle Stitch. Two thread fingers co-operate with the needles upon the upper surface of the fabric and in advance thereof for laying two threads between the outer rows of stitches, said threads being passed alternately from one row of stitches to the other, crossing each other diagonally in the center and being held down upon the fabric by the needle threads.

Triple Interlock Stitch The looper threads concatenate with the three loops of needle thread in the usual manner and the needles in their descent enter the triangles formed as described in connection with the Twin Needle Stitch but having one extra needle thread which is separated from the other two in the usual manner and which forms one side of a triangle to be entered by the needle. Two thread fingers co-operate with the needles upon the upper surface of the fabric and in advance thereof for laying two threads between the outer rows of stitches, said threads being passed alternately from one row of stitches to the other, crossing each other diagonally in the center and being held down upon the fabric by the needle threads.

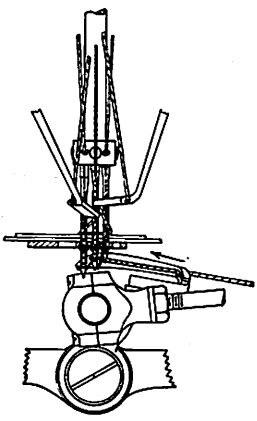


FIGURE 1

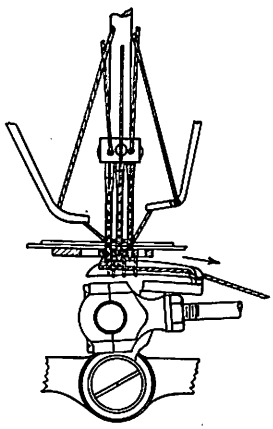


FIGURE 2

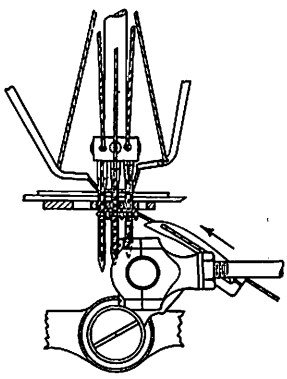


FIGURE 3

Looper The position of the point of the looper with respect to the needle is important, that the looper may enter the loop formed in the needle thread at the proper interval of time.

With the needle bar in its lowest position the distance between

the point of the looper to the center of the right-hand needle should be as follows:

CLASS 3000 MACHINES

8 gauge..... $\frac{9}{32}$-inch
12 gauge..... $\frac{1}{4}$-inch
16 gauge..... $\frac{3}{16}$-inch
20 gauge..... $\frac{3}{16}$-inch

CLASS 5000 MACHINES

8 gauge..... $\frac{1}{4}$-inch
12 gauge..... $\frac{1}{4}$-inch

CLASS 5100 MACHINES

12 gauge..... $\frac{3}{16}$-inch
16 gauge..... $\frac{3}{16}$-inch

A very convenient manner of securing an accurate adjustment will be found by using a gauge, No. 21225, having a "V" slot, the center of which is the required distance from the edge of the wider side, as indicated by the dotted line in the cut. In using this gauge, hold it with the "V" slot enclosing the front of the right-hand needle, with the wider side of the gauge to the right. Then, the needle bar being at its lowest position, the point of the looper should be made to come even with the right-hand edge of the gauge by turning the looper connection rod. To loosen nuts, use wrench, No. 21388, and turn them from the operator. The nuts of the looper connection rod should be tightened when the cut-away portion of the take-up is in a vertical position and toward the operator, in order to obviate any tendency of the ball joints to bind. Tighten the right-hand nut first. After both nuts are tightened' again apply the looper gauge to make sure that the adjustment has not been altered.

When the looper moves to the left to take the needle loops, it should have free space as it passes back of the needles. Should it strike the needles, the result might be a broken needle, and sometimes a broken looper. If it be set as far away as $\frac{1}{32}$ inch from the needles, skipped stitches would result. The best adjustment for average work is a scant $\frac{1}{100}$-inch space between the looper point and the back of the needles.

A small piece of white paper, placed to the left of the needles as a background, will be of great assistance in making this adjustment.

ADJUSTMENT

To change the position of the looper with respect to the back of the needles, loosen the two screws which secure the looper eccentric fork to the looper rock shaft. This permits the looper and its rocker to be moved to the required position.

When the looper moves to the right, it should pass close to the front of the needles to enable the needles, as they descend, to pass between the back of the looper and its thread. The position of the looper can be altered by using a looper eccentric of greater or less eccentricity, without destroying its correct adjustment with respect to the back of the needle.

In machines provided with the adjustable looper eccentric a greater or lesser space can be had between the path traversed by the looper in its loop taking and loop leaving movements whereby a larger or smaller needle can be used and the path of looper travel correspondingly changed. To accomplish this adjustment loosen the hexagonal head screw on the adjustable eccentric flange and turn the adjusting screw to the right to change the path of looper travel closer to the needles and to the left to move in a path farther away from the needles. The primary adjustment of the looper in relation to the front and rear of the needles is effected by loosening the three screws in the looper rock shaft sleeve which will permit the looper to be moved to the required position.

Thread Fingers The thread fingers are given one complete movement to every two complete reciprocations of the needles. They are of different lengths, the left-hand one being longer than the right-hand one. The left-hand thread finger is carried and operated by the guide bar, it being held thereon with set screws. Its position with respect to the needle bar lug can be changed by loosening the set screws and adjusting it. The right-hand thread finger is operated by a segment attached to and moving with the guide bar, but having its direction of travel reversed. It can be positioned with respect to the needle clamp collar by loosening the set screws securing the segment attached to the guide bar. The longer thread finger has its thread guiding eye moving in a horizontal plane below that of the shorter or right-hand finger. They should reciprocate past each other without striking. The travel of the thread finger should be equally divided upon opposite sides of the outer needles whereby the threads carried by the fingers will cross each other in the center of the space between the two outside needles, which in a Triple Interlock machine would be directly in front of the center needle.

ADJUSTMENT

The timing of the thread fingers is adjusted by the position of the eccentric gear with respect to the position of the needle bar. Therefore to time the thread fingers, which are at the maximum distance apart, with respect to the needles, it is necessary to loosen the screws in the eccentric gear pinion (Catalog No. 130 W) attached to the main shaft and turn the eccentric pulley in the operative direction until the needles are within one-eighth of an inch above their lowest position. Do not at this time have the thread fingers across each others paths, but they should be separated upon opposite sides of the needles. Position the guiding eyes of the fingers as close to the needle as possible before securing them in the thread finger arms.

The presser foot should not raise high enough to interfere with the reciprocation of the thread fingers. To avoid this difficulty use collar (Catalog No. 21213) on the reduced portion of the presser bar.

Needle Bar Turn the pulley in the operative direction until the looper starts to move to the left, and its point is even with the left side of the left-hand needle. Then, the needle bar should be positioned that the entire eye of the needle appears $\frac{1}{64}$-inch below the under side of the looper. It may be positioned a little lower when it is desirable to "chain out" or form stitches between the sewed articles. To avoid a large, variable loop, difficult for the looper to enter, the needle bar should not be more than $\frac{1}{32}$-inch below the described adjustment. The needle rear guard would also interfere with the large needle loop, causing skipped stitches. To enable the looper to take each loop of needle thread at relatively the same height, the needle seats are arranged so that the left needle is set lower than the right needle.

Needle Front Guard This is attached to the looper to reallign the needles should they glance out of line toward the front of the machine in penetrating the fabric. It should be so set that it passes close to the needles without striking them.

Needle Rear Guard This is attached to and moves with the feed bar. It should be adjusted to position its vertical face against the rear of the needles and yet not spring them out of line when the feed bar is at its extreme position toward the front of the machine. The guard is adjustable for position and should be readjusted each time the length of stitch is altered whereby it will co-act with the rear of the needles.

Feeding the Fabric The mechanism for accomplishing this result is divided into two groups—a single feed dog and a combination of two feed dogs, the latter being called a tandem differential feeding mechanism. In order to enable the machine to properly feed the fabric, it is important that the feed dog be set at just the proper height above the throat plate. If the teeth of the feed dog do not rise high enough, imperfect feeding of the work will result. If they rise too high, imperfect feeding of the work will likewise result, because the teeth of the feed dog will remain in contact with the fabric after the motion of the feed dog has been reversed. Upon heavy work, where difficulty is experienced in properly feeding the fabric, the feed dog should be so set that the top of its teeth will rise about one-eighth inch above the surface of the throat plate. On other grades of lighter work, one-sixteenth inch above the throat plate will usually prove sufficient.

While the teeth of the feed dog should be sufficiently sharp to properly feed the fabric, it is quite possible for them to be so highly sharpened as to cut the thread forming the stitches on the under side of the material. A small triangular piece of oil stone will serve to remove the over-sharp edges of the teeth, which come in contact with the stitches. It should be applied separately to the teeth located in rear of the needles. Another method is to apply a narrow strip of emery cloth to the top of each tooth. Avoid making a flat top on the teeth which would have the same effect as the sharp edge, i. e., to cut the stitches.

The regular or single feed dog is used in connection with feed bars Nos. 9 A, 9 X and 5142, and is capable of being adjusted to any desired position vertically and secured in that position by the clamping screw. In the tandem differential feeding mechanism, the length of stitch is regulated by the movement of the rear feed dog and this adjustment is effected in the usual manner. The front feed dog moves through a greater space than the rear feed dog to gather in elastic fabrics to prevent puckering after the fabric is stitched. The amount of travel of the front or differential feed dog is also adjustable and this adjustment is effected by the loosening of a nut carried upon the end of a bolt screwed to an arm moving the differential feed bar. The adjustment of this bolt in the segmental slot to and from the center affects the adjustment of the feed dog. Raising the bolt in the segmental slot lengthens the stroke of the feed dog, and dropping it down, shortens it. Always clamp the nut upon the end of the stud tightly after each adjustment is effected. The main or rear dog is adjusted vertically in the usual manner. The dif-

ferential moving dog is also adjusted vertically by a screw securing it to the differential feed bar. The differential or front feed dog is raised very slightly above that of the rear feed dog.

Take-Up and Cast-Off Wire Near the middle of the main shaft is placed an intermittent controlling device for the looper thread. Its action upon the thread can be readily observed by properly threading the machine and holding the thread taut by the hand, turning the pulley in its operative direction.

(1) It takes up the slack in the looper thread while the looper is returning to the right.

(2) Simultaneously with the taking up of the looper thread it draws thread through the tension for the next stitch.

(3) It maintains the looper thread taut from the time it starts to take up the slack until the needle points enter the triangle formed by the needle loops around the looper, the looper thread extending from the eye of the looper to the material being sewed and the rear side of the looper.

The lower arm of the cast-off wire guides the thread from the cut-away portion of the take-up to its outer periphery. The upper arm of the cast-off wire retains the thread upon the outer periphery of the take-up and gives it up when the looper in moving to the left requires more thread.

When the lower arm of the cast-off wire guides the thread from the cut-away portion of the take-up, the needle points should be just below the middle of the looper. If the cut-away portion of the take-up fails to hold the thread taut until the points of the needles have descended below the looper thread, the looseness of the thread will allow the machine to skip stitches. If the cut-away portion retains the thread until the needle points pass any considerable distance below the beforementioned adjustment, the looper thread will break under the increased strain. If the cut-away portion fails to hold the thread long enough, force the lower arm of the cast-off wire downward. If it holds the thread too long, raise the lower arm of the cast-off wire.

When the looper is at its farthest right position, there should be the smallest noticeable slack in its thread. If there is considerable slack, the looseness of the thread will allow the machine to skip stitches. If there is no slack, the strain will cause frequent breaking of the looper thread, and will prevent the stitch around the needles

from being drawn up to the under surface of the fabric. If the thread is too loose, bend the left prong of the take-up thread eyelet to the left. If the thread is too tight, bend the left prong of the take-up thread eyelet to the right. To avoid breaking the eyelet, it should be clamped into a vise and bent with a pair of pliers.

Intermittent Looper Thread Nipper Springs

Attached to the take-up frame is a pair of nipper springs, which act as an intermittent auxiliary tension on the looper thread for the purpose of assisting the take-up at the time the looper is returning to the right.

The clamping action should begin on the thread as soon as the looper has completed its movement toward the left and returned about $\frac{1}{32}$-inch. Their operation can readily be observed by threading the machine in the directed manner and drawing the thread, care being taken to leave some slack between the tension and the nipper springs. The adjustment is made by means of the operating screw in the looper rocker frame under the lower spring.

When the lug on the looper rocker frame, through which the operating screw passes, is at its highest position, the combined tension of the nipper springs and the tension discs should be a trifle less than the breaking strength of the thread. To attain this adjustment, it may be necessary to slightly bend the upper spring.

Take-Up Wire

A forked member extending on both sides of the take-up and having an eye in each end through which the looper thread passes. The position of the thread eyelet ends may be regulated by means of a supporting screw on the left side of the take-up frame. Ordinarily, the prongs are set as close to the main shaft sleeves as possible without resting on them. They may, however, be slightly raised to relieve any tightness of the looper thread when the looper is at its farthest position to the right.

Extra Sizes Main shafts, rock shafts, presser bars, presser guide bars and needle bars are made in extra sizes to be used where bearings have become worn.

Needle Lever Stud To compensate for wear, both large and small ends are tapered. Both ends are also made in extra sizes; see Price List of Parts.

Bushings Needle bar bearings of our latest machines are fitted with bushings. Being retained in position by means of a clamp screw, they can be easily replaced when worn. The position of the needle bar will be more accurately maintained if the bushings, when worn, are replaced with new ones instead of being reamed out for a larger size needle bar.

Drive-bushings can be furnished for the presser bar and presser guide bar bearings, also for the solid needle bar bearings, to be used when the bearings have become worn so that the largest size bar will not fit the hole. Their external surface is slightly tapered, to facilitate forcing them into position. Care must be exercised to avoid breaking the bed casting. A good plan is to squeeze them in with an ordinary bench vise.

Where the manufacturer is provided with a set of expansion reamers, better results will be secured by ordering bushings .001 inch smaller than the standard size of the bar, to allow for a second reaming after the bushing has been placed into the bed. In the absence of instructions with regard to the reaming of bushings, they will be sent to fit bars of the standard size, which is .257 inch diameter for the needle bar, and .319 inch diameter for the presser bar and the presser guide bar.

Tension Posts These are slotted to regulate the tightness of the tension nut. Should a nut turn so freely that the tension becomes altered, turn the nut on to the post as far as it will go and slightly spread the post by forcing a wedge into the slot.

Tension Post Ferrules Tension posts for the needle threads on our latest machines have hardened steel ferrules. By unscrewing the post, the ferrule can be turned so that it will present a new surface to the thread.

Cloth Plate Slides These are slotted to regulate their tightness in the cloth plate. If they become so loose that they will not remain closed, slightly increase the width of the slide by forcing a wedge into the slot.

Fork Shoes Hardened steel shoes are fastened to the feed bar, and looper eccentric fork for the purpose of taking the wear of the eccentrics. The shoes may be turned over when worn on one side.

Grinding-In Bearings

The bearings of the needle lever connection and similar parts are made a trifle smaller than the eccentric or the ball stud, to permit of their being ground-in with powdered oilstone. When a new shaft, stud or bar is placed in a machine, the bearings should only be reamed large enough to permit the part to move. Then, the part should be ground-in with powdered oilstone.

Do not use emery for grinding-in bearings having one or more surfaces of soft metal, because emery cannot be thoroughly washed out, and what is retained in the pores of the metal will indefinitely continue the grinding process. Though slow in cutting, powdered oilstone can be entirely washed out and therefore safely recommended. Where all surfaces are hard, as in the case of the looper rocker, looper rocker frame and looper rocker stud, emery can be advantageously used.

Assembling

To maintain the machine pulley, take-up and eccentrics in proper relation, the main shaft is spotted, and the position of these parts must not be changed.

The machine pulley is secured to the shaft with two pointed set screws, one of which enters the spot at the right-hand end of the shaft. Turning the machine pulley in the operative direction, the screw in the first hole coming into view must enter the spot in the shaft.

After tightening the pulley on the shaft, force the shaft as far to the left as the pulley hub will permit, then move the main shaft collar, or the eccentric gear pinion on machines in Classes 5000 and 5100, against the left side of the frame in order to prevent end play of the shaft.

All eccentrics are placed on the shaft with the identification letter to the right.

The take-up should be placed on the shaft so that, when turned in the operative direction, the edges will rotate in the following order: (1) Large cut-away, (2) circular, and (3) small cut-away.

The needle bar should be fitted in its bearings freely enough to barely fall of its own weight.

The needle lever should be placed in position on the machine and tightened with the needle lever stud nut so that the left end of the lever barely falls of its own weight. If, after connecting the needle lever with the needle bar, it does not fall, obviously the needle lever is not in line. By withdrawing the needle bar, the direction in which the needle lever should be bent can be readily seen.

The tube of the needle lever connections, Nos. 1216 and 1216 A, should be turned so that the distance between centers is exactly $4\frac{11}{16}$ inches. This will provide the necessary clearance for the needle bar connection.

NEEDLES

Ordering To have orders promptly and accurately filled, the empty package, a sample needle, or the full description should be given. See marks on packages. An intelligible order would read as follows:

100 needles, No. 1, round shank, short, double groove, round point.
100 needles, No. 2, round shank, short, double groove, ball eye, round point

Success in the operation of these machines can be assured only by the use of genuine Union Special Needles, furnished by the Union Special Machine Co. Obviously, it is to our interest to maintain the reputation of the machines by furnishing the very best needles obtainable.

Terms Prices on needles are strictly net. Leaving the factory in perfect condition, packed with skillful care, they are forwarded at the buyer's risk, f. o. b. Regular postage rates will be charged on all needles sent by parcel post. To safeguard against loss in the mail, parcel post packages will be insured at the buyer's expense when so requested in the order.

Illustrations Each needle illustration below shows: (1) a full size needle, (2) a magnified view of its point, and (3) the shape of the needle incision in the fabric.

Size and Length The machines listed in this catalog use only one kind of needle, the short needle. This needle increases in size as follows: Nos. 000, 00, 0, 1, 2, 3, and 4. The measurement from the top of the shank to the top of the eye is $1\frac{17}{32}$ inches.

Round Shank, Short, Double Groove, Round Point Needle.

Round Shank, Short, Double Groove, Ball Eye, Round Point Needle

NEEDLE PRICES.

Round Shank, short, double groove, round point, per M.....$10.00

Round Shank, short, double groove, ball eye, round point, per M.....$10.00

ILLUSTRATIONS AND PRICE LIST OF PARTS FOR REPAIRS ONLY

Plates Grouped according to scale will be found illustrations of parts similar in appearance and, to some extent, component parts that go together in the same subdivisions of the mechanism.

Price List of Parts Turning from the plates to the price list, the description of each part with a statement of its principal uses will be found to give all necessary information. Where a part is used on all machines listed in this catalog, no specific use is mentioned in the description. The screw or screws belonging to each part are repeated after its description. If two or more parts in a group have the same general description and use the same screws, the screws are only specified after the last part in the group.

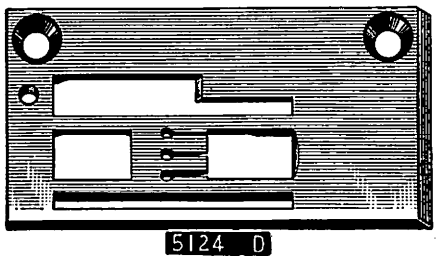
(—) A dash in the "plate number" column of the price list indicates the absence of an illustration.

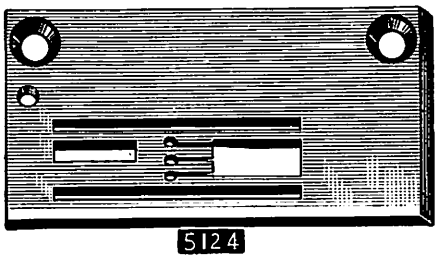
(‡) A double dagger in the "number to order by" column indicates that the component parts cannot be furnished separately.

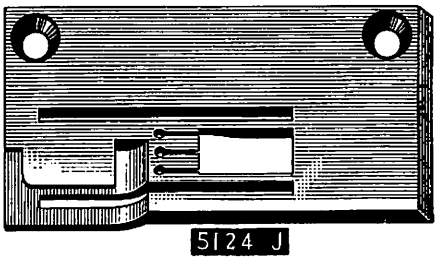
(*) A star in the "number to order by" column indicates that the part can only be furnished upon the return of the broken or worn out part. We are forced to adopt this rule because of the difficulty of protecting our customers and ourselves against improper use of these particular parts, which, like others, are furnished at list prices for repairs only.

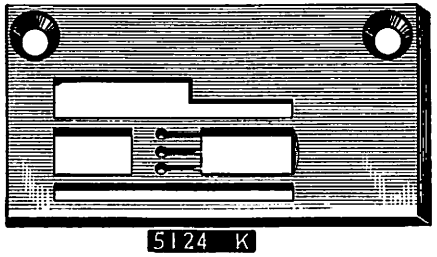
Ordering Goods A large number of parts have their full numbers stamped upon them. Other parts, difficult to distinguish, are marked, instead, with identification letters. If customers furnish the number stamped on a piece, errors will be avoided, and we shall be enabled promptly to duplicate the desired part. If only an identification letter is furnished, it should be accompanied with a general description of the part. All part numbers represent the same part regardless of the catalog in which they appear. All supplies, including oil, belting, belt hooks, malleable iron belt lacings, taps, reamers, screw drivers and powdered oilstone, will be promptly furnished.

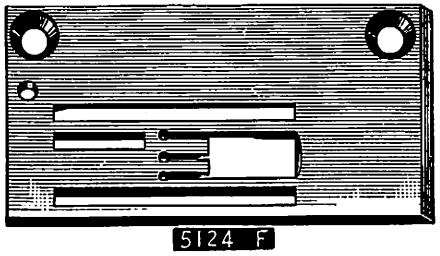
Terms Attention is directed to our established practice. Prices on parts and supplies are strictly net. Being shipped in perfect condition, packed with skillful care, they are forwarded at the buyer's risk, f. o. b. We cannot be responsible for delivery of mail packages. Regular postage rates will be charged on all goods sent by parcel post. To safeguard against loss in the mail, parcel post packages will be insured at the buyer's expense when so requested in the order.

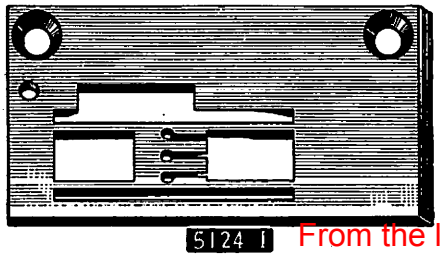


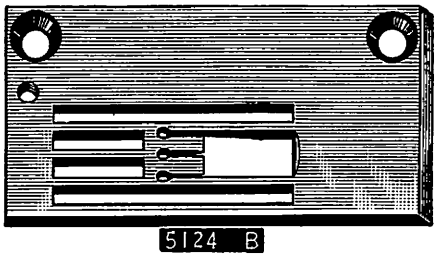


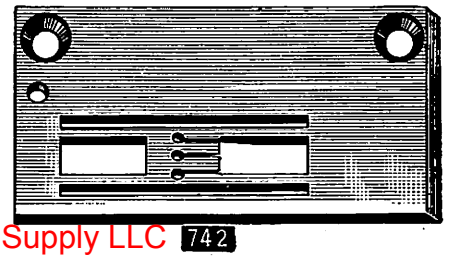












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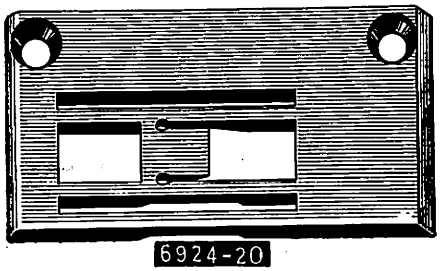

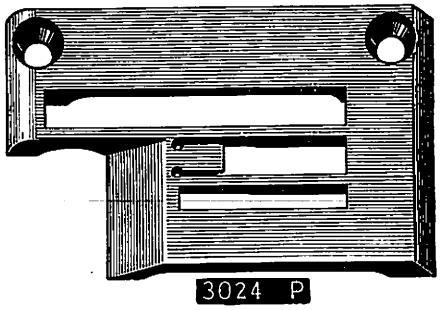

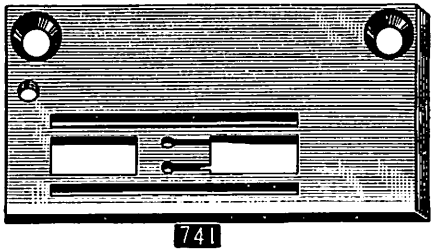

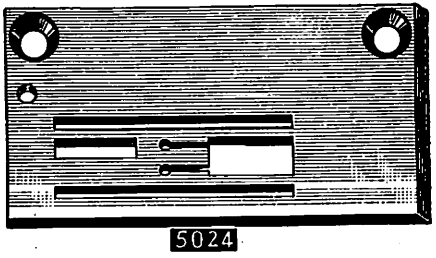

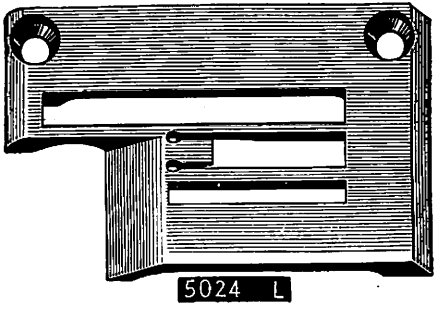

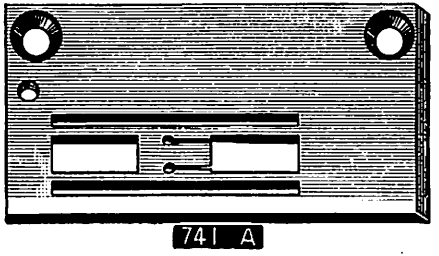

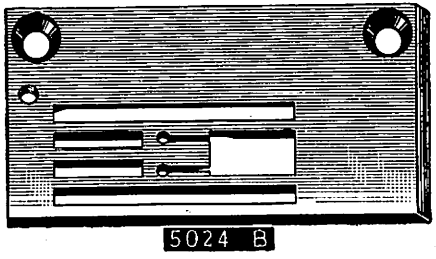

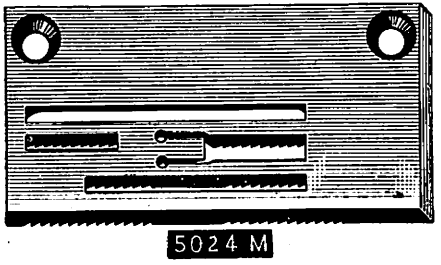

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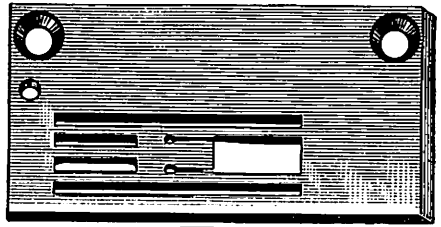
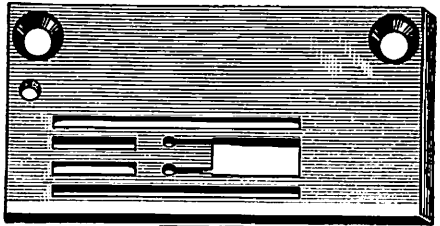
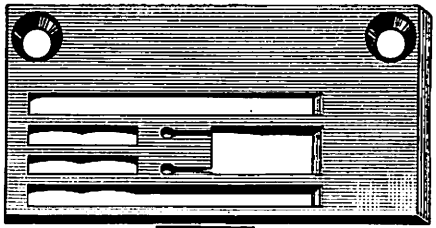


112 D



3024 E



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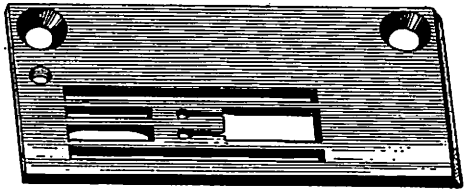
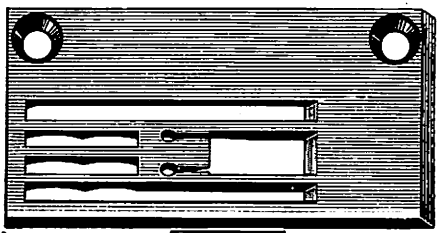


112 D N

3050 C



3024 M

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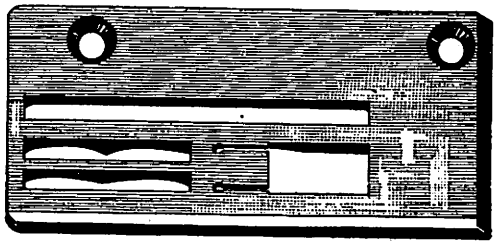

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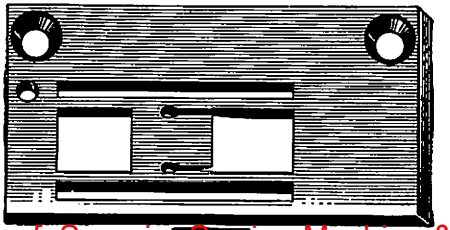

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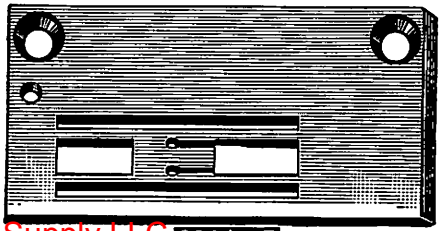

3024 F

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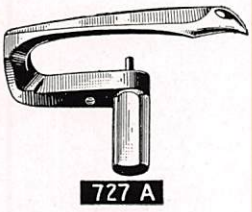
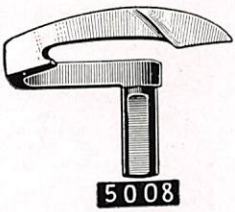

727 A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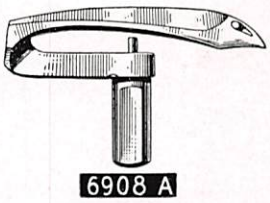
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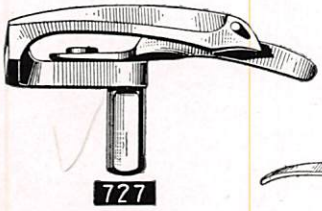
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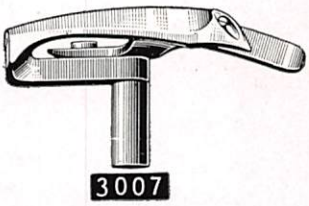
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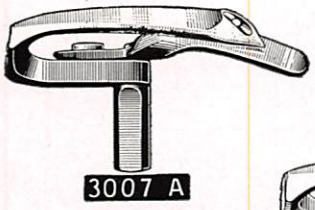
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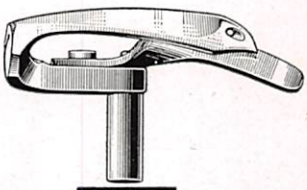
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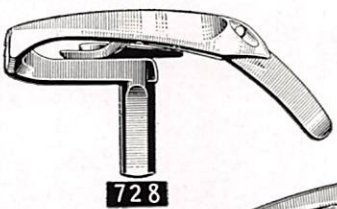
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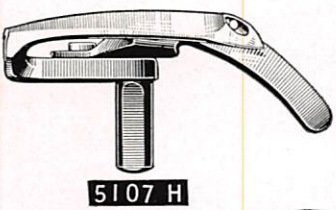
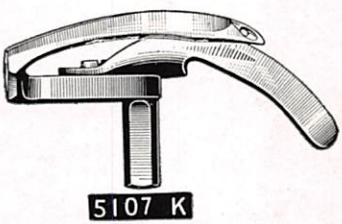

5107 H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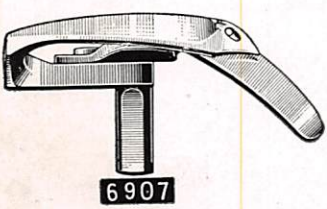
729 A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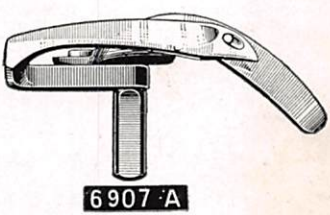
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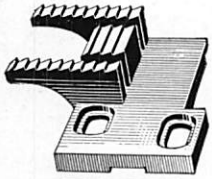
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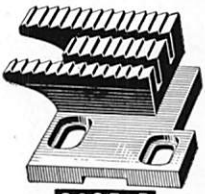
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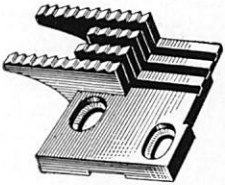
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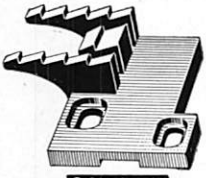
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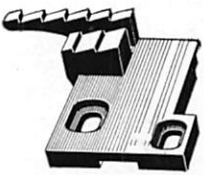
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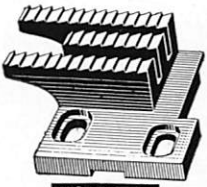
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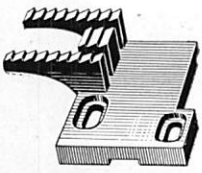
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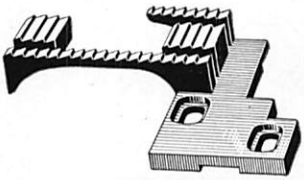
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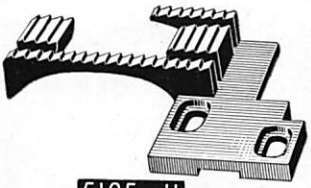
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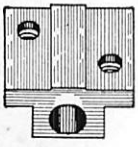
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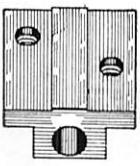
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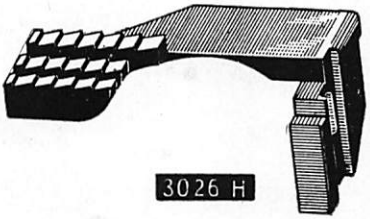
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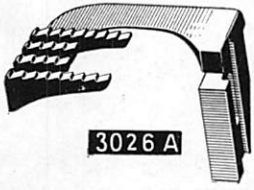
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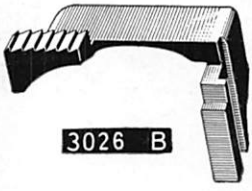
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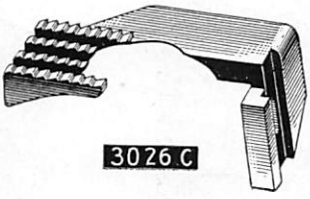
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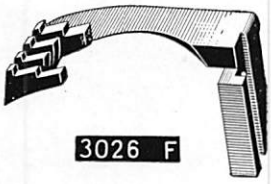

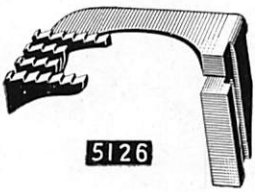

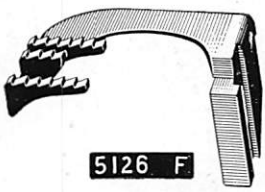

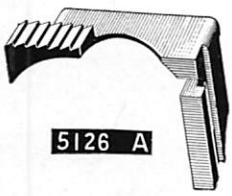

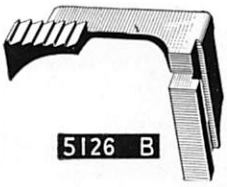

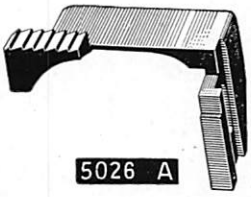

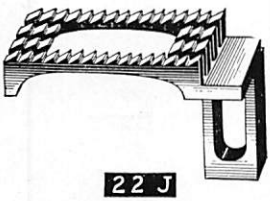

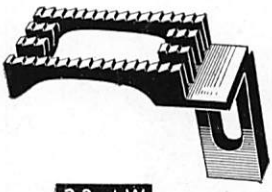

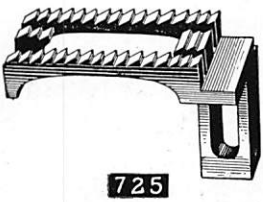

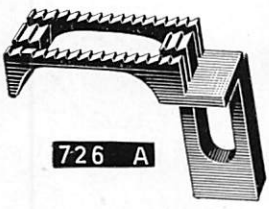

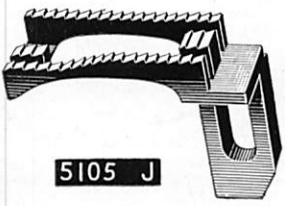

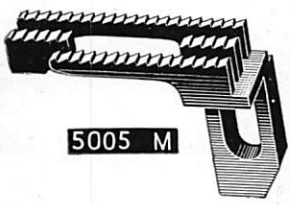

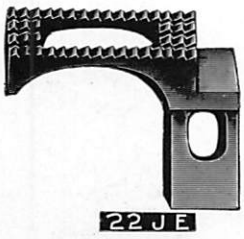

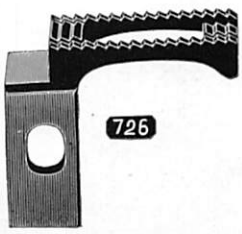

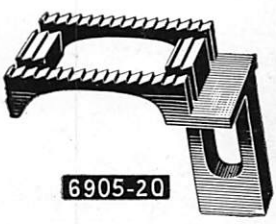

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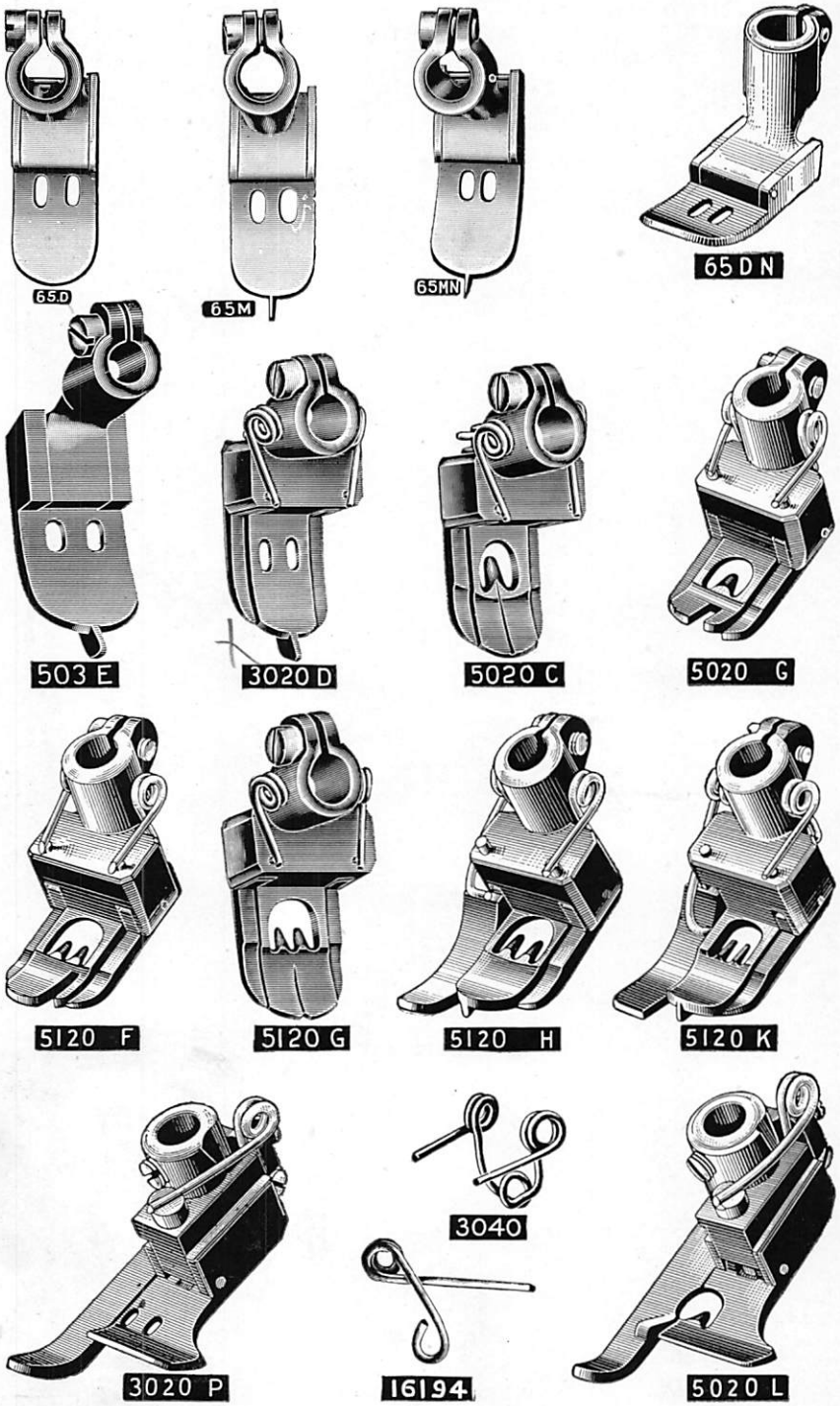

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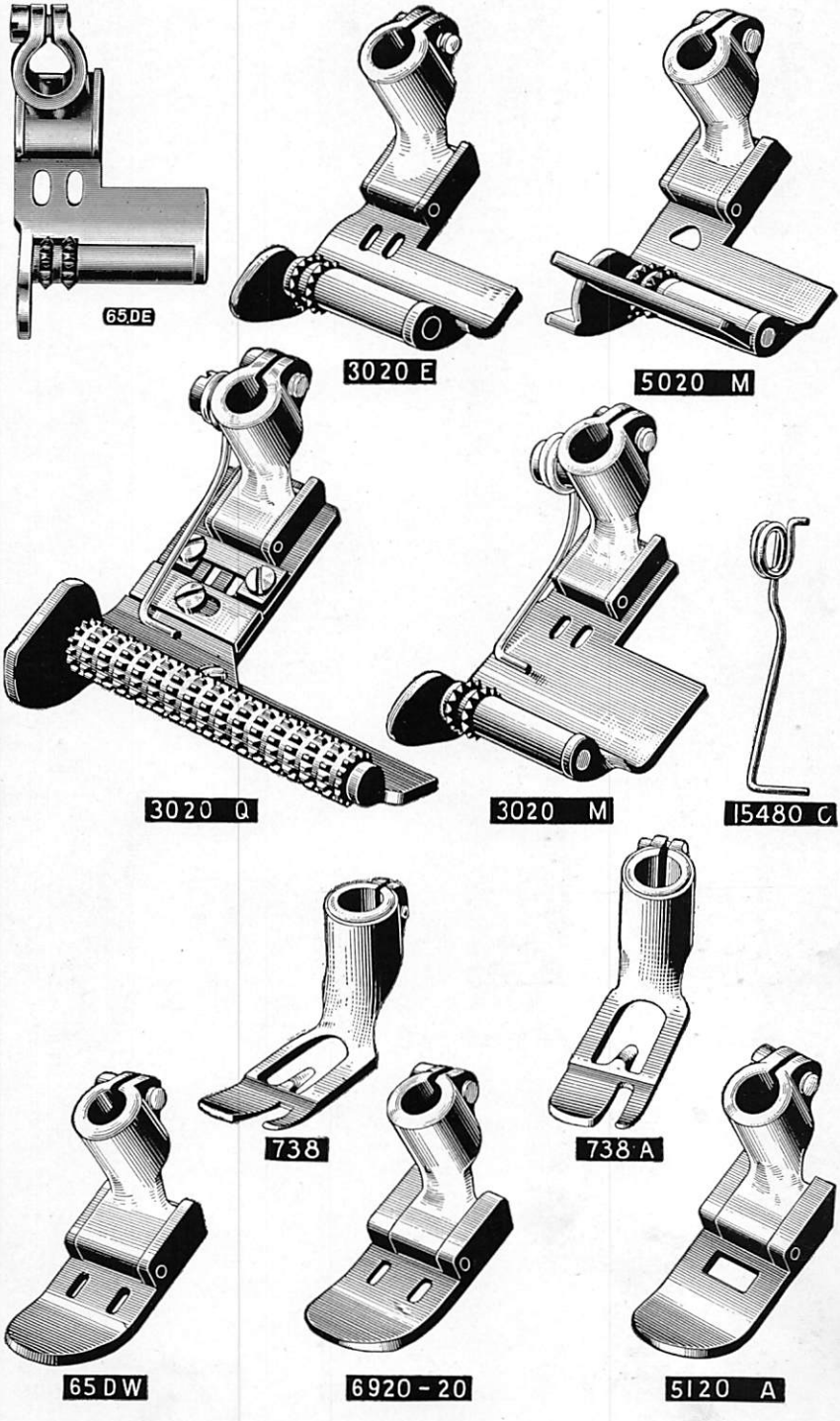
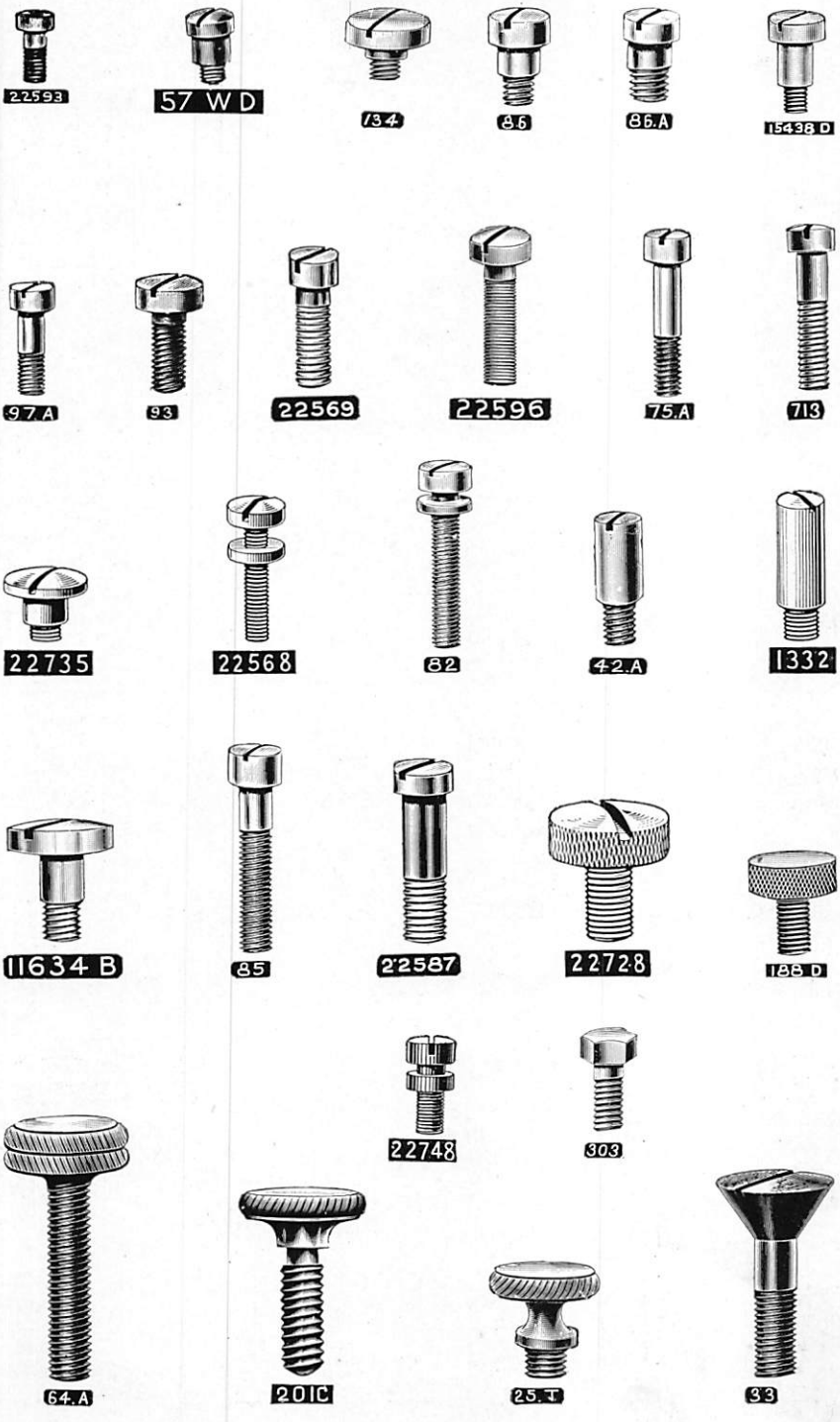


PLATE No. 9—Full Size.

PLATE No. 10—Full Size.



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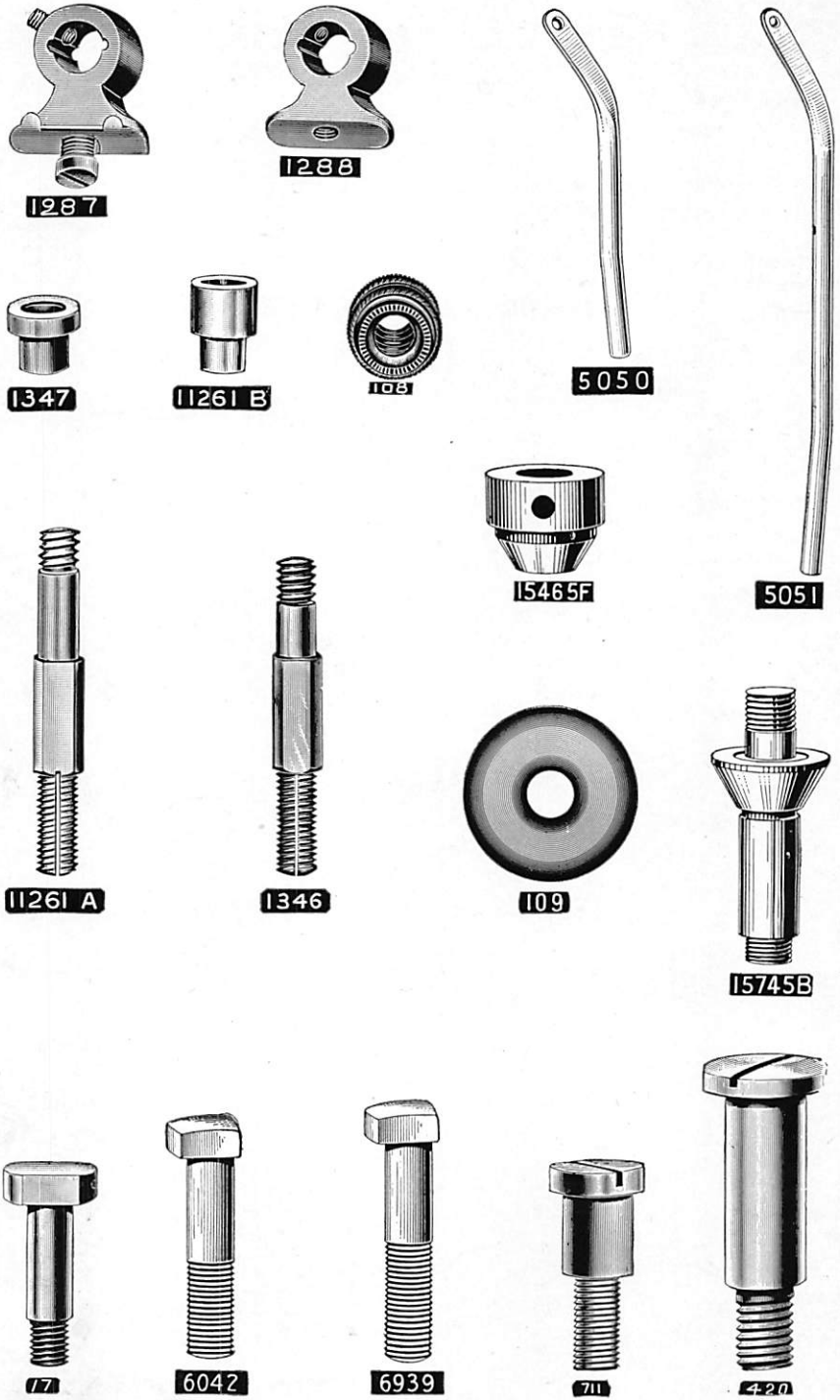

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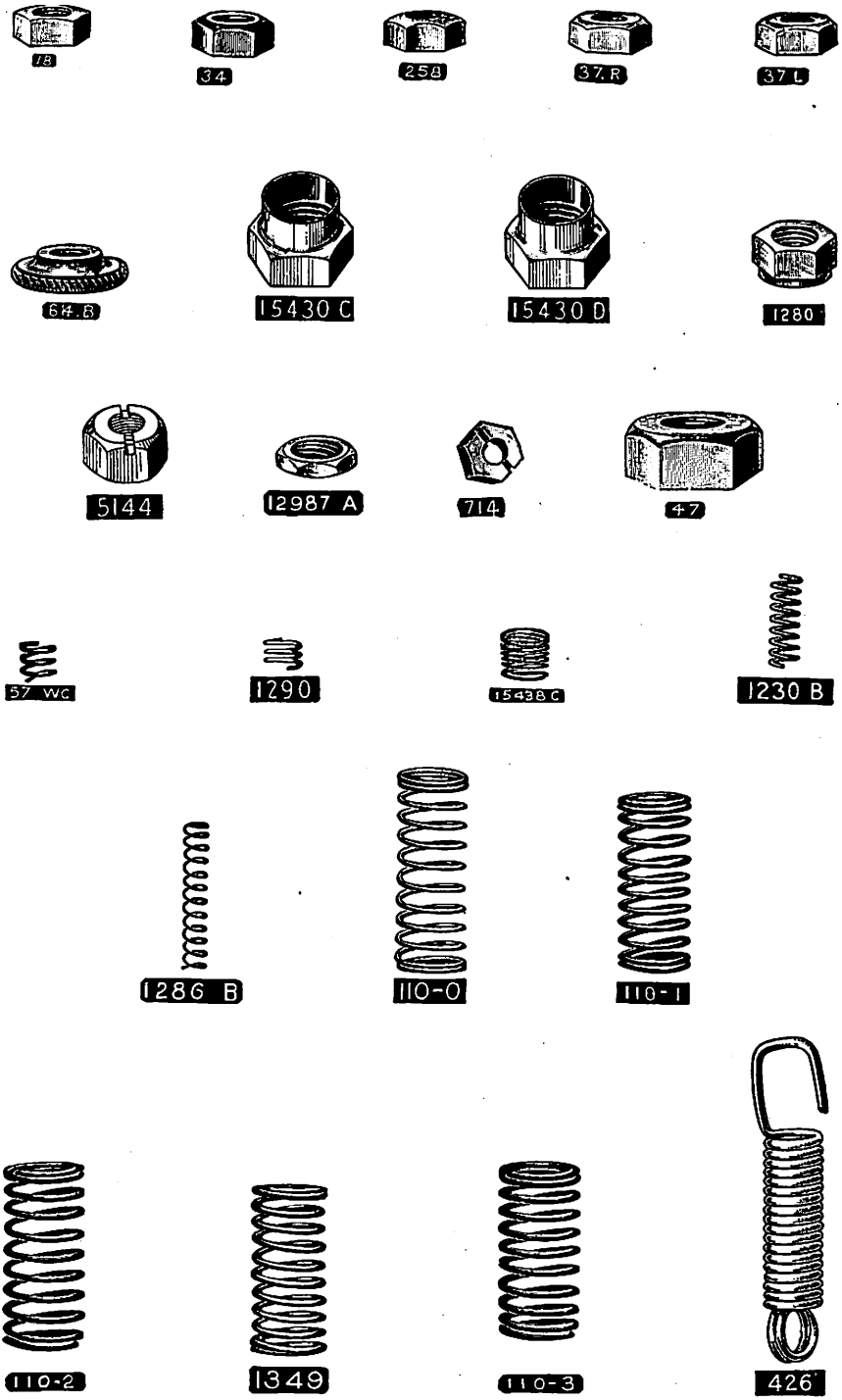

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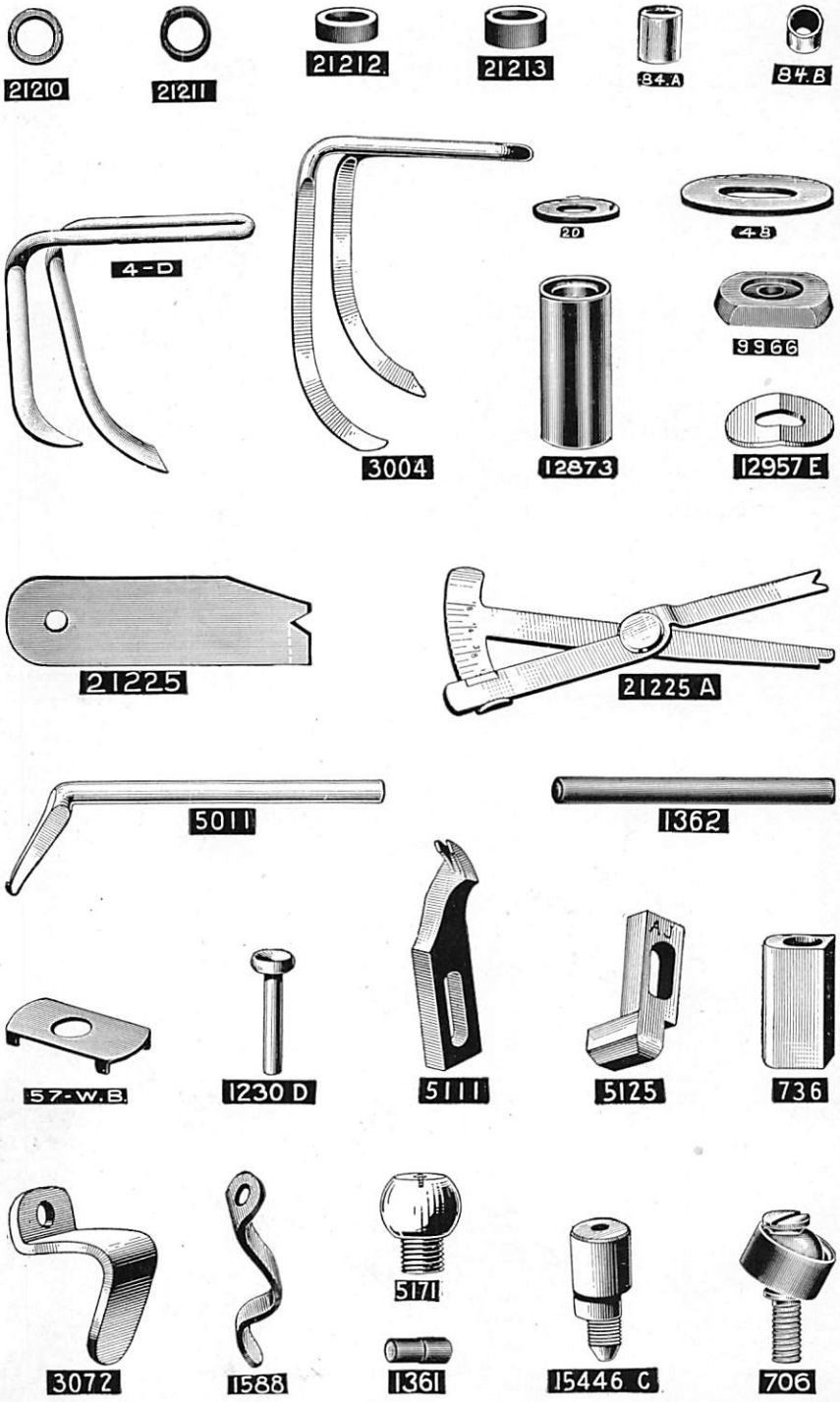

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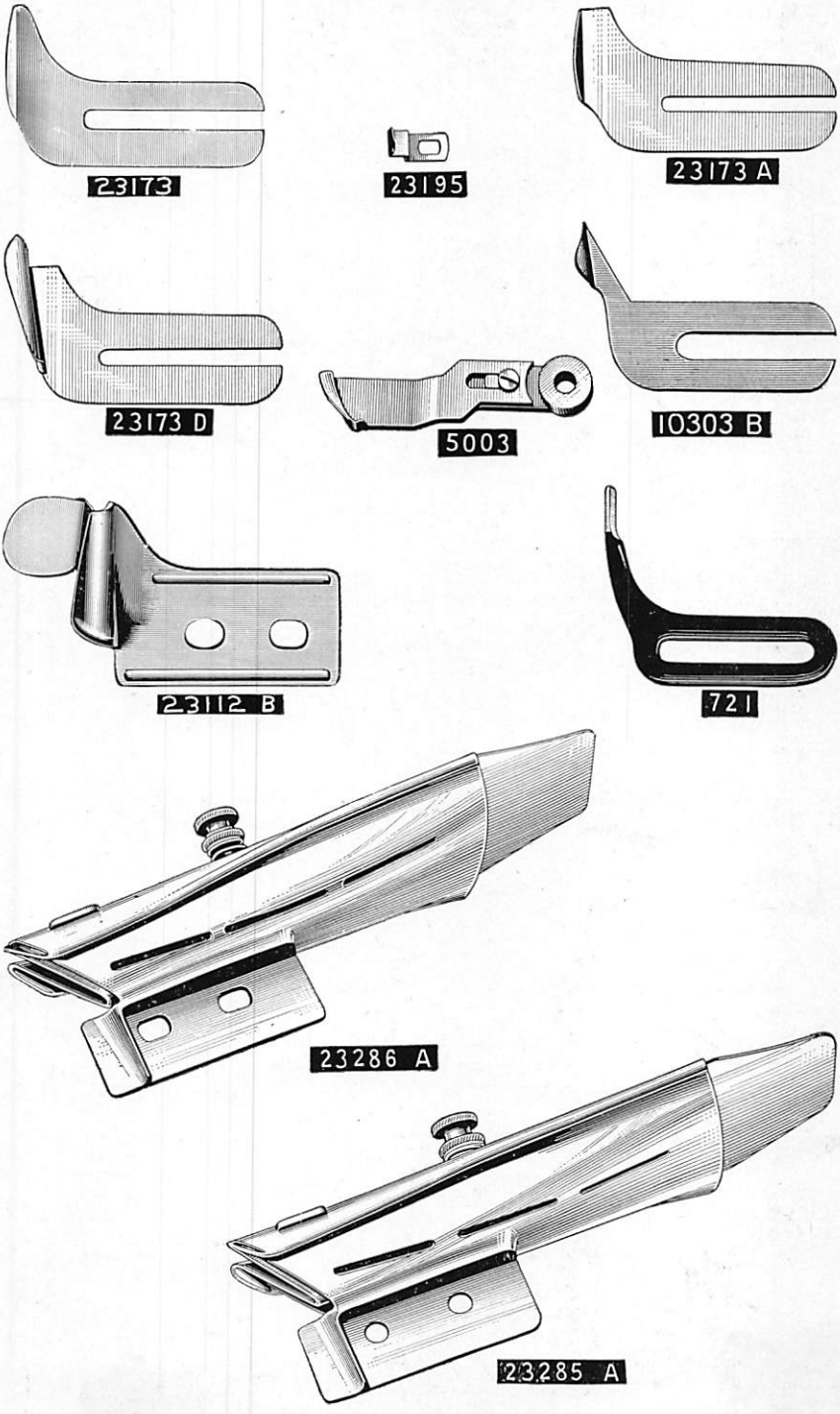

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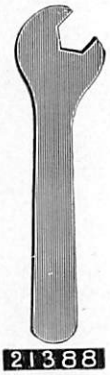
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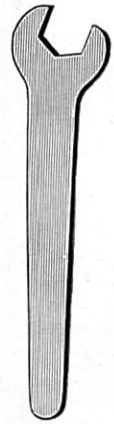
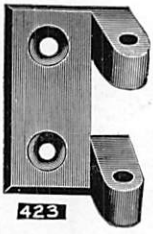

21388 B


118 B

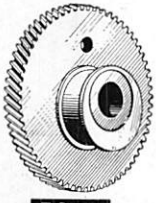

21350


21350 A


423


5114


5114A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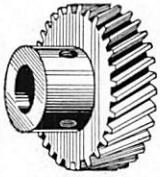
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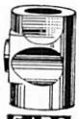
40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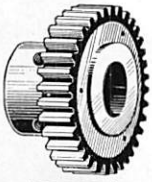
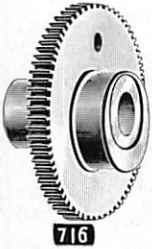

130 W


716


41-A

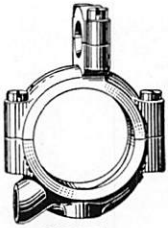
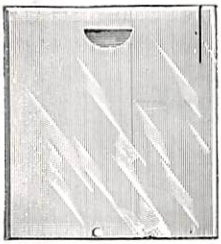
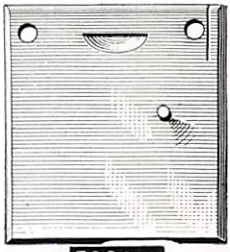

5170

PLATE No. 16—One-half Size.

PLATE No. 17—One-half Size.


2

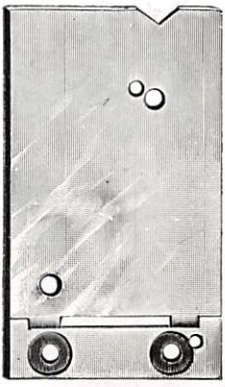

2.A.


5002 A


154


6 B

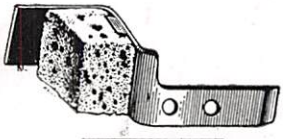

23

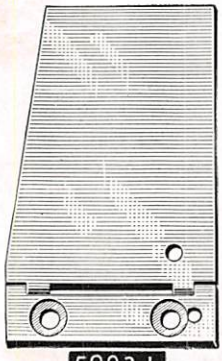

724A

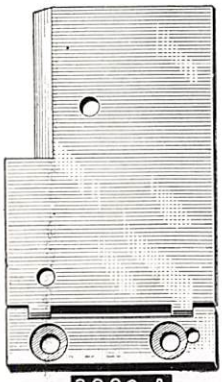

10


15447 H


70


15447 G


5002 L


3002 A

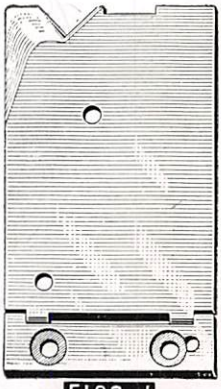

5102 J

PLATE No. 18—One-half Size.

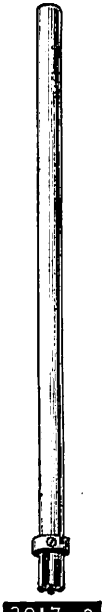

730


731


5017


5117 A


3017-1


3017-2


50 E


50 EW


730 A


6917-20

PLATE NO. 19—One-half Size.

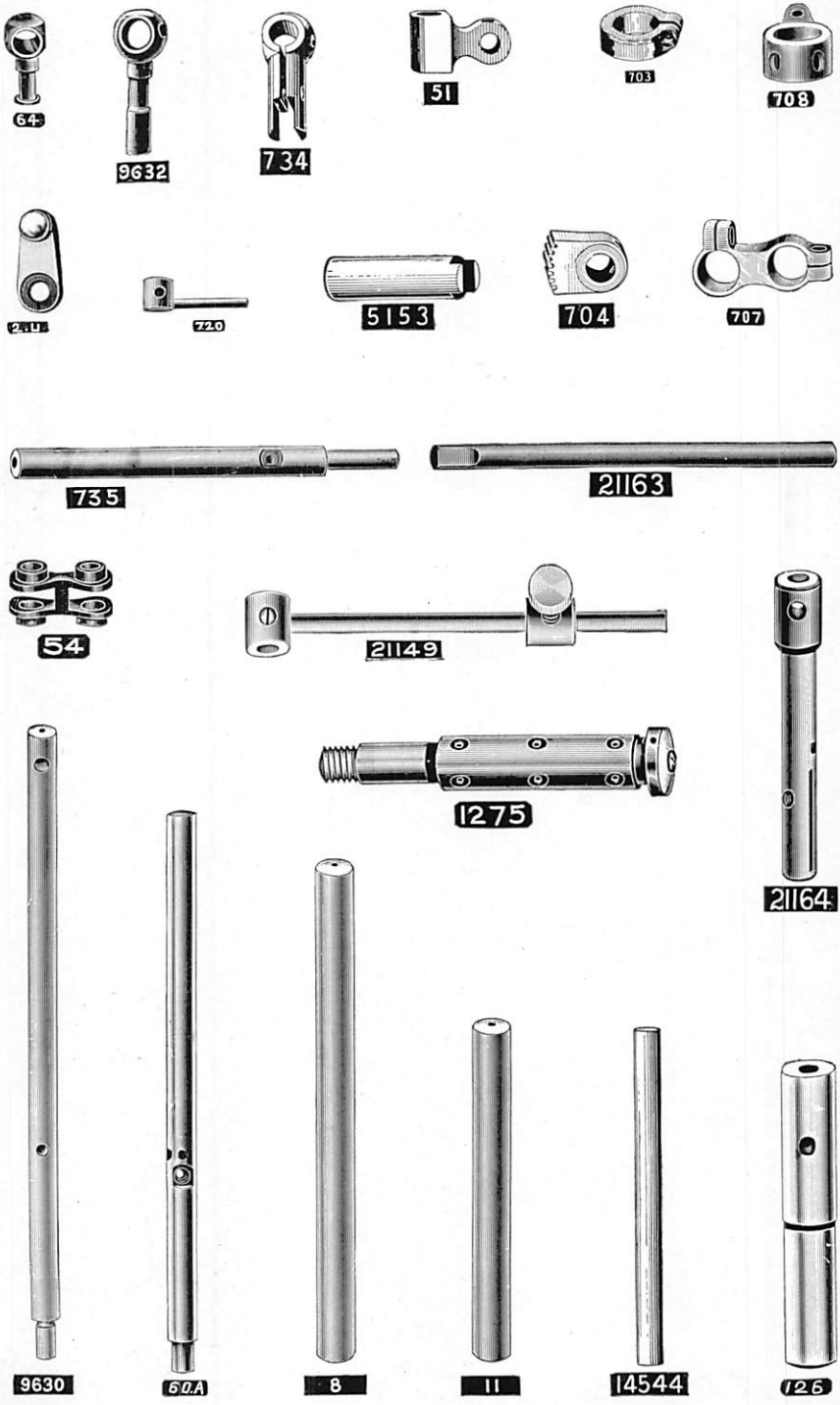


PLATE No. 20—One-half Size.

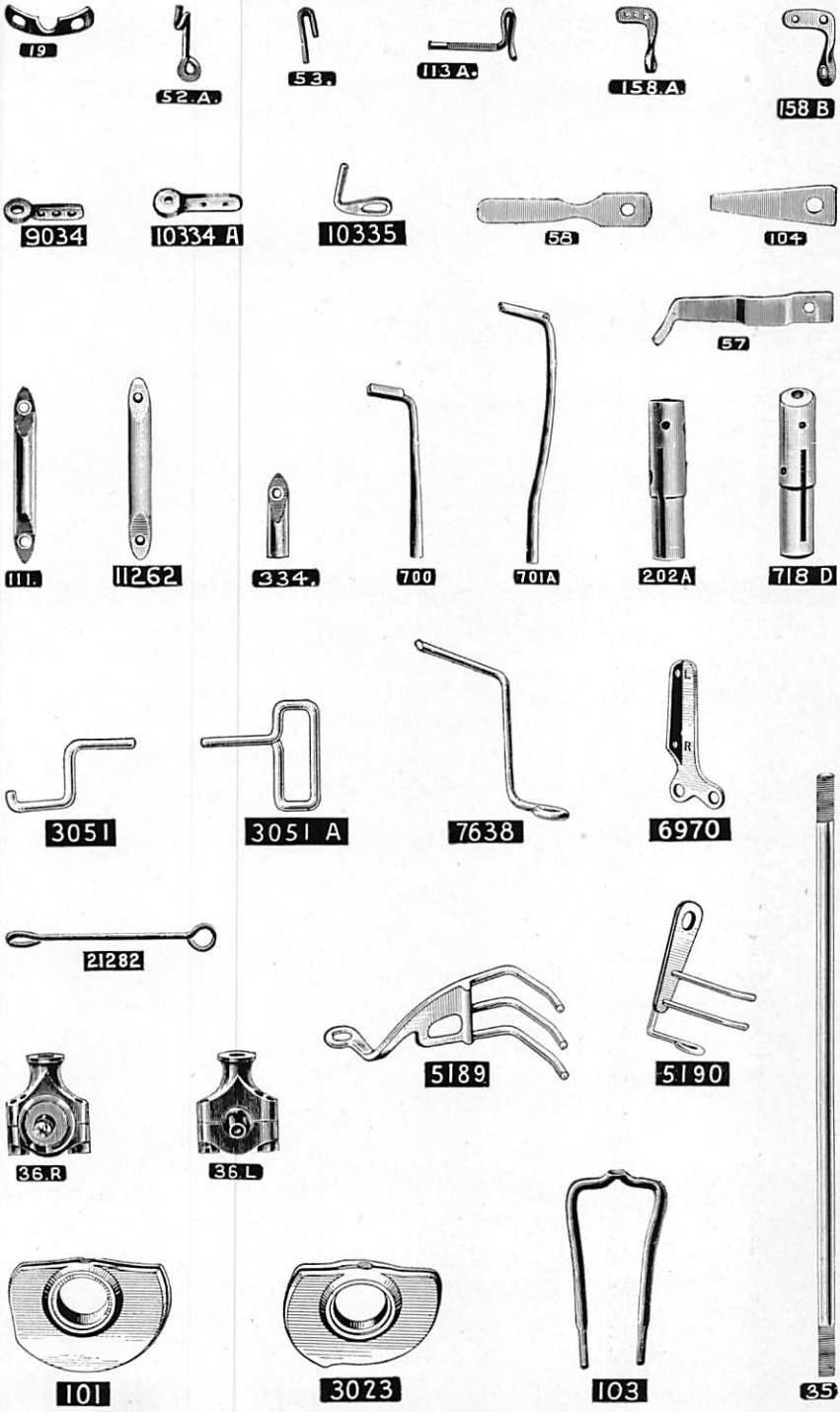
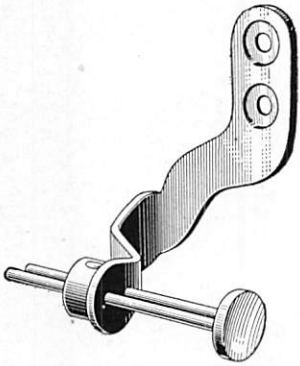
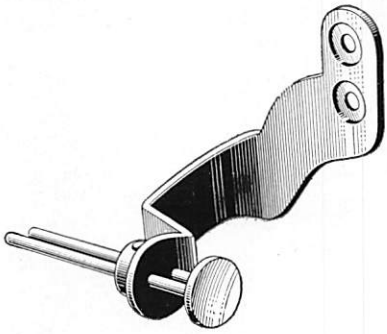


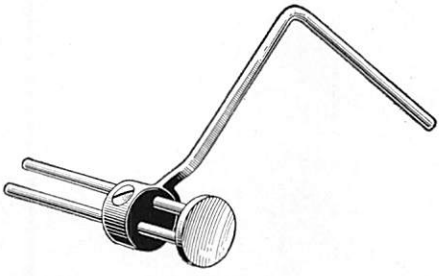
PLATE No. 21—One-half Size.



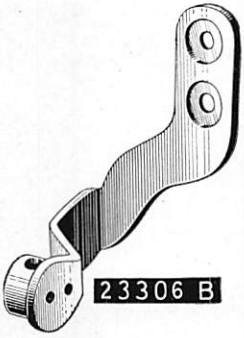
23306



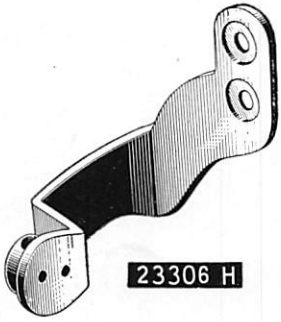
23306 G



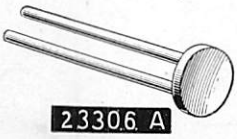
23306 E



23306 B



23306 H

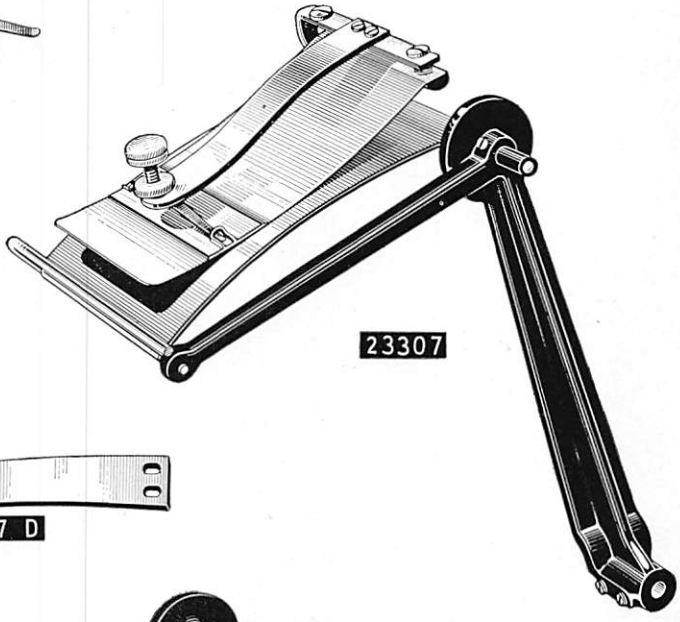


23306 A

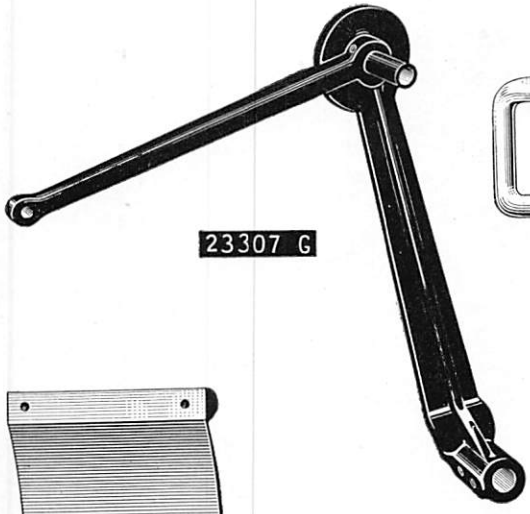
23306 F

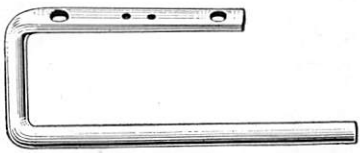
PLATE No. 22—One-half Size.

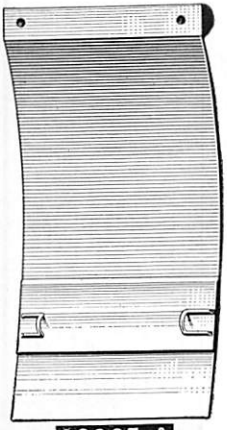

23307 B


23307


23307 D


23307 G


23307 F


23307 A


23307 C

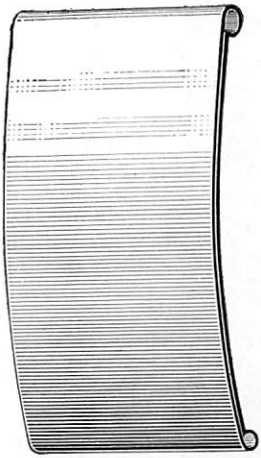
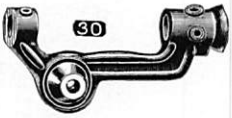
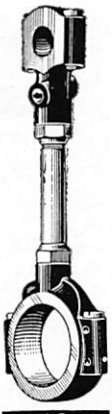
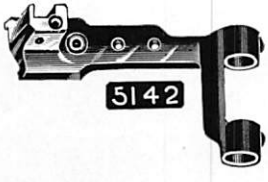

23307 E

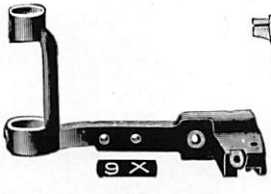
PLATE No. 23—One-third Size.

PLATE No. 24—One-third Size.









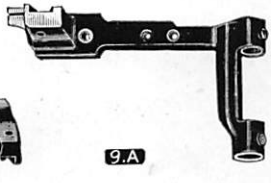
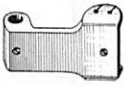


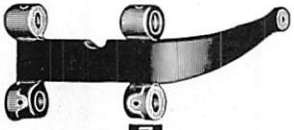
PLATE No. 25—One-fourth Size.


1230


1230 A


723


723 A


7

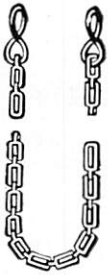

5156


5157


422


63 B

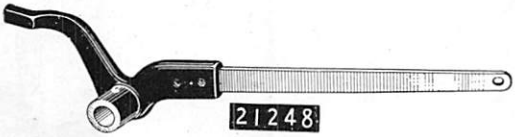

5065


421


415B


415


416A


21248


21249

PLATE No. 26—One-eighth Size.

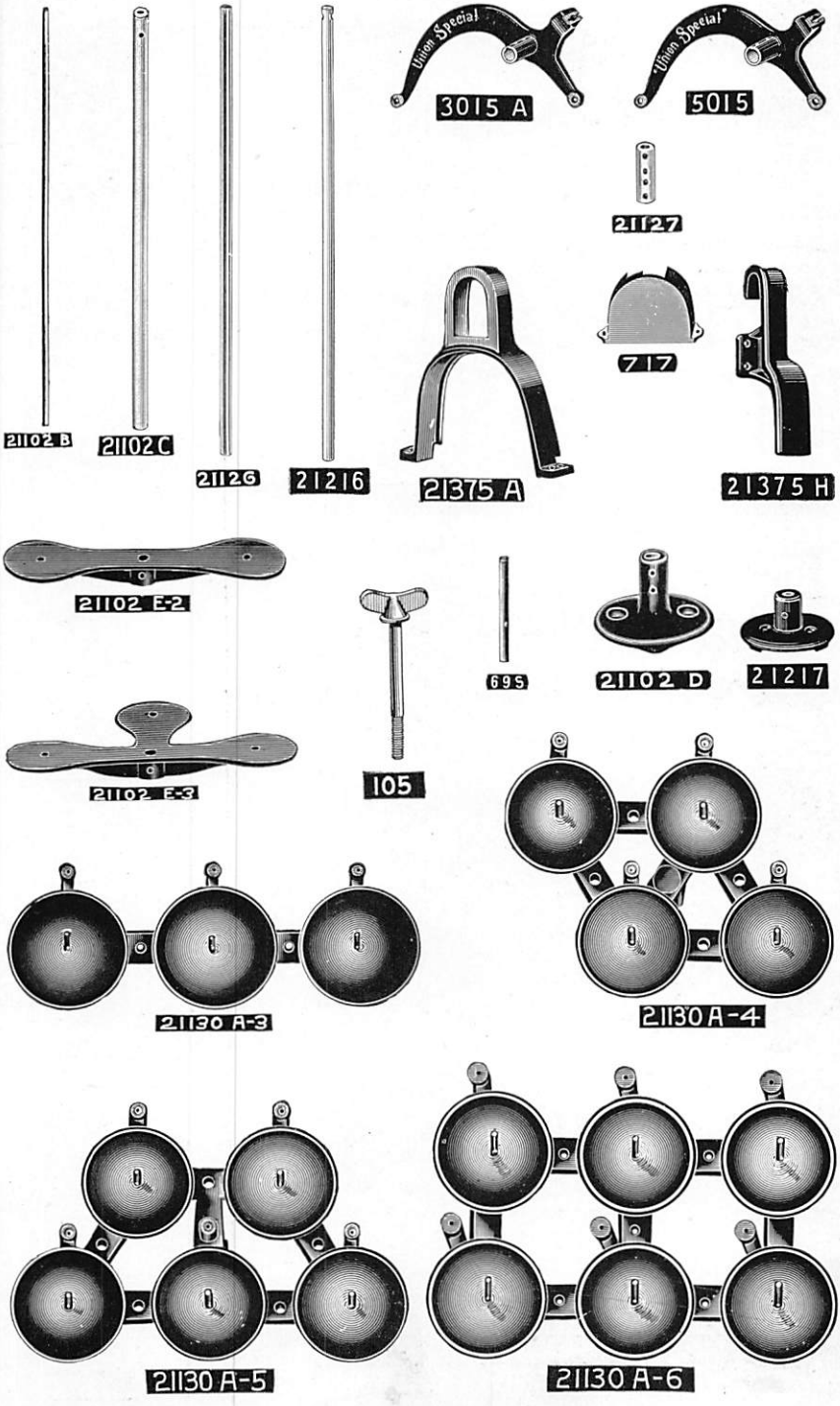


PLATE No. 27—One-eighth Size.

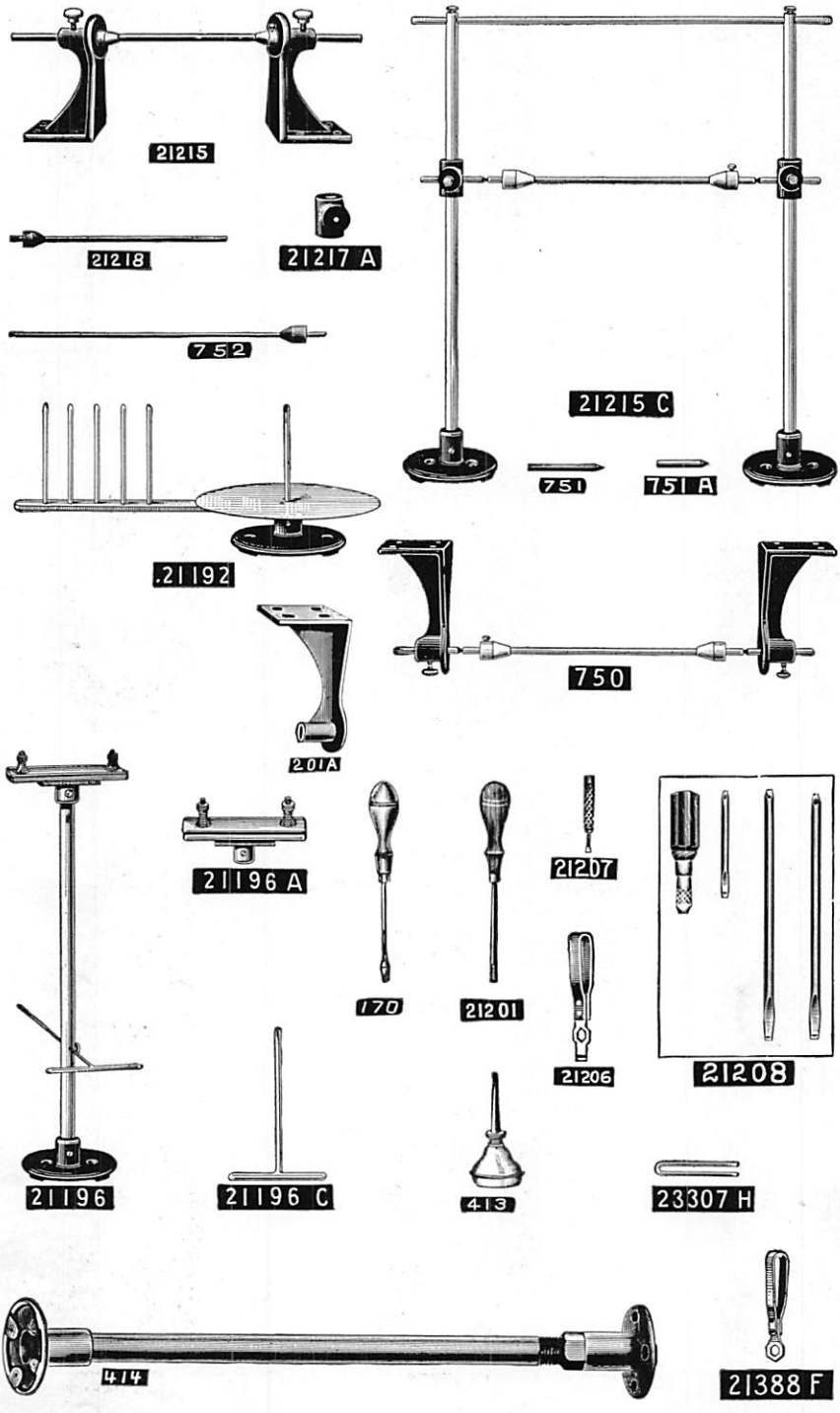
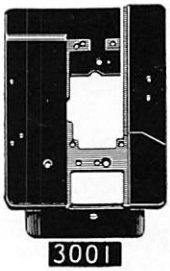
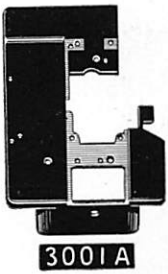
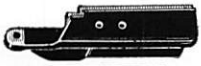
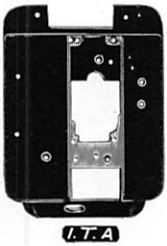


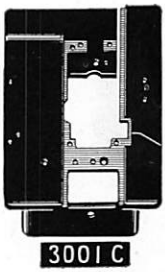
PLATE No. 28—One-eighth Size.

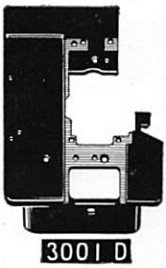


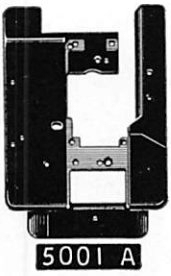


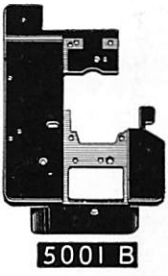


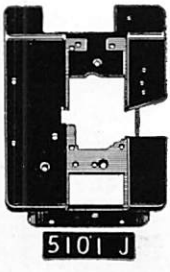


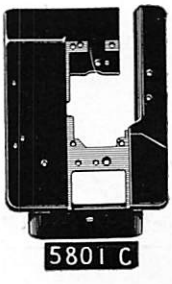


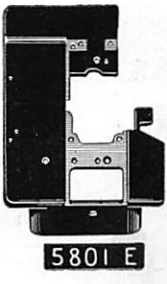












PRICE LIST OF PARTS [1 G-11]

THESE PARTS ARE FURNISHED AT LIST PRICES FOR REPAIRS ONLY.
SEE NOTICE ON PAGE 3.

Number to order by	Plate No.	Postage will be charged on all parts sent by mail. The figures in the second column refer only to the plates illustrating parts, and are not to be used in ordering. Prices subject to change without notice. TERMS ON PARTS, NET CASH	Price per part
1 G	28	Cloth Plate, for Styles 3000 A, 3000 C, 3000 D, 3000 E, 3000 F, and 3000 M	$2 50
1 TA	28	" " for Styles 5000 A, 5000 C, 5000 G, 5000 M, 5100 E, 5100 F, 5100 G, and 5100 H	2 50
		" " Screws No. 80	05
2	17	" " Slide, right ($2\frac{9}{16}$ inches long) for Styles 3000 A, 3000 C, 3000 D, 3000 E, 3000 F, and 3000 M	40
		" " " Stop Screw No. 92	04
2 A	17	" " " left	40
2 U	19	" " Hinged Cover Latch	25
		" " Hinged Cover Latch Screw No. 134	10
3	28	" " Guard	25
		" " " Screw, front, No. 92	04
		" " " Screw, back, No. 92 A	04
4 D	13	Cast-off Wire, for Style 3000 F	30
		" " Screw No. 87	04
5	16	Collar, for main shaft	25
		" Screws No. 95	03
6 A	24	Looper Eccentric Fork, with shoes	75
		" " " Clamp Screw No. 85	05
		" " " Set Screws No. 72	05
6 B	17	" " " Shoe (hardened and ground)	10
		" " " " Screw No. 94	04
7	25	Feed Rocker	1 00
		" " Screws No. 88	03
8	19	" " Shaft ($5\frac{3}{16}$ inches long, hardened and ground) sizes .407, .408, .410, .413 and .416	45
9 A	24	Feed Bar, for No. 12 gauge Styles 3000 A, 3000 C, 3000 D, 3000 E, and 3000 F	75
9 X	24	" " for Nos. 8 and 16 gauge Styles 3000 A, 3000 C, 3000 D, 3000 E, 3000 F, also for Style 5000 M	50
		" " Screws No. 88	03
10	17	" " Prong and Sponge, for use with feed bars Nos. 9 A, 9 X, and 5142	20
		" " Prong and Sponge Screws No. 94	04
10 A	—	" " Prong Sponge	02
11	19	" " Shaft ($3\frac{7}{16}$ inches long, hardened and ground) sizes .407, .408, and 410	40

PRICE LIST OF PARTS

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15	24	Feed Crank Link (hardened)	$ 0 40
		" " " Screw No. 79	04
16	16	" " " Ferrule (hardened and ground)	30
17	11	" " Stud	25
18	12	" " " Nut, also for Nos. 36 R, and 711	10
19	20	" " " Cap	15
		" " " Cap Screws No. 77	03
20	13	" " " Washer ($\frac{7}{32}$-inch hole)	03
21	16	" " Link Pin (hardened and ground)	10
		" " " " Screw No. 77	03
22 J	6	Feed Dog, for Nos. 8 or 12 gauge Styles 3000 A, 3000 C, 3000 D, 3000 E, and 3000 F	85
22 JE	6	" " for No. 16 gauge Styles 3000 C and 3000 E	85
22 JW	6	" " for No. 16 gauge Style 3000 A	85
		" " Screw No. 93	04
23	17	" Bar Shoe (hardened and ground) for use with feed bars Nos. 9 A, 9 X, and 5142	15
		" " " Screw No. 94	04
25 C	9	Screw ($\frac{9}{32}$ inch long) for cloth plate gages, edge guides, folders and hemmers	05
25 CC	9	" for cloth plate hinged covers	04
25 S	9	" " border tension pin, also for No. 127	05
25 T	10	Thumb Screw, for cloth plate slide	10
* 29 S	23	Looper Rocker (hardened) marked 29 S	1 00
30	24	" " Frame, attached cone (hardened)	1 00
		" " " Screw, left, No. 88	03
		" " " Screw, right, No. 98	03
		" " " Spot Screw, No. 96	03
31	16	Looper Rock Shaft ($3\frac{1}{8}$ inches long, hardened and ground) sizes .407, .408, .410, .413, and .416	45
32	16	" " " ($1\frac{1}{8}$ inches long, hardened and ground) sizes .407, .408, .410, .413, and .416	30
33	10	" Rocker Stud (hardened)	35
34	12	" " " Nut	10
35	20	" Connection Rod	20
‡ 36 L	20	" " " Ball Joint, left, complete	1 25
‡ 36 R	20	" " " Ball Joint, right, complete	1 25
		" " " Ball Joint Screws, No. 97 A	04
37 L	12	" " " Nut, left thread	10
37 R	12	" " " " right thread	10
38	16	" Eccentric (ground, marked D, throw .208-inch) for machines in Class 3000	50

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Number to order by	Plate No.	Postage will be charged on all parts sent by mail. The figures in the second column refer only to the plates illustrating parts, and are not to be used in ordering. Prices subject to change without notice. TERMS ON PARTS, NET CASH	Price per part
38 V	16	Looper Eccentric (ground, marked V, throw .174-inch) for machines in Class 5100.	$0 50
		" " Screw No. 96.	03
40	15	Lower Thread Eyelet.	10
41 A	15	Presser Foot Lifter (hardened).	30
		" " " Screw No. 86.	05
42 A	10	" " " Screw Pin (hardened) for machines in Class 3000.	10
43	16	Feed Lift Eccentric (ground, marked F).	40
		" " " Screw No. 96.	03
47	12	Needle Lever Stud Nut (hardened).	20
48	13	" " " Washer ($\frac{7}{16}$-inch hole).	03
* 50 E	18	" Bar (hardened and ground) sizes .257, .260, .263, .266, .270, .273, .276, .280, and .283 for No. 12 gauge machines in Class 3000.	1 50
* 50 EW	18	" " (hardened and ground) sizes .257, .260, .263, .266, .270, .273, .276, .280, and .283, for No. 16 gauge machines in Class 3000.	1 50
		" " Set Screws No. 88.	03
51	19	" " Connection, sizes .257, .260, .263, .266, .270, .273, .276, .280, and .283.	40
52 A	20	" Lever Thread Eyelet, with one eye.	10
		" " " " Screw No. 98 A.	04
53	20	Tension Thread Guide.	04
54	19	Needle Bar Link (hardened).	75
56 A	16	" Clamp Collar, for No. 12 gauge machines in Class 3000.	40
56 C	16	Pin ($\frac{1}{2}$ inch long) for needle clamp collars.	04
56 AN	16	Needle Clamp Collar, for No. 8 gauge machines in Class 3000.	40
		" " " Screw, No. 89.	03
56 AW	16	" " " for No. 16 gauge machines in Class 3000.	40
56 CA	16	Pin ($\frac{17}{32}$ inch long) for needle clamp collars.	04
57	20	Looper Thread Nipper Spring, upper.	10
		" " " " Screw No. 90.	04
57 WB	13	Needle Bar Thread Nipper Plate.	05
57 WC	12	" " " " Spring (.011 inch diameter wire).	03
57 WD	10	" " " " Stud, also for No. 3020 Q.	05
58	20	Looper Thread Nipper Spring, lower.	08
		" " " " Screw No. 90.	04
		" " " " Operating Screw No. 97.	04

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59 S	24	Eccentric Pulley (marked M)	$2 00
		" " Screws No. 22597	03
60 A	19	Presser Bar (hardened and ground) sizes .319, .322, .325, .328, .331, and .334, for machines in Class 3000	75
61	16	" " Connection, for machines in Class 3000	10
		" " Connection Screws No. 77	03
62	16	" Guide Bar (hardened and ground) sizes .319, .322, .325, .328, .331, and .334, for machines in Class 3000	40
63 A	23	" Spring (marked 63 A)	30
63 B	25	" " (marked 63 B)	35
64	19	" " Rest, for machines in Class 3000	50
		" " Rest Screw No. 88	03
64 A	10	" " Screw Regulator	25
64 B	12	" " Screw Regulator Check Nut, also for No. 23307 C	10
65 D	7	" Foot, for No. 12 gauge Styles 3000 A and 3000 F.	1 25
65 DE	8	" " for No. 12 gauge Style 3000 E	2 00
65 DN	7	" " for No. 8 gauge Style 3000 A	1 25
65 DW	8	" " for No. 16 gauge Style 3000 A	1 25
65 M	7	" " for No. 12 gauge Style 3000 C	1 50
65 MN	7	" " for No. 8 gauge Style 3000 C	1 50
		" " Screw No. 91	04
66	23	Main Shaft (hardened and ground, marked 66) sizes .530, .531, .533, .536, .539, .542	2 00
67	16	" " Sleeve ($1\frac{1}{16}$ inches long)	12
68	16	" " Sleeve ($1\frac{11}{16}$ inches long)	15
69 S	26	Spool Pin (four inches long) for Style D thread stand	10
70	17	Looper Eccentric Sponge Holder and Sponge	10
		" " Sponge Holder Screw No. 94	04
70 A	—	" " Sponge	02
72	9	Set Screw, for looper eccentric fork, also for No. 5172	05
73	9	" " fillister head, for loopers	05
73 A	9	Screw, for looper needle guards	05
75 A	10	" for cap of upper rock shaft connection, also for No. 5170	04
77	9	" for feed crank stud cap, also for Nos. 21, 61, 700, 701 A, 720, 1286, 5050, and 5051	03
77 A	9	Set Screw, fillister head, for middle needle in machines in Class 5100	03
78	9	" " for needle lever link pins	03
79	9	Screw, for feed crank link	04

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80	9	Screw, for cloth plates	$0 05
81	9	Set Screw, for cam gear stud, also for Nos. 21196 B and 21216	03
82	10	Screw, for regulating stitch	08
84 A	13	Stitch Regulating Ferrule ($\frac{7}{32}$-inch long)	05
84 B	13	" " " ($\frac{5}{32}$-inch long)	05
85	10	Clamp Screw, for looper eccentric fork	05
86	10	Screw, for presser foot lifter	05
86 A	10	" large size, for presser foot lifter (tap No. 21513)	08
87	9	" for throat plates, also for Nos. 4 D, and 3004	04
87 U	9	" " needle bar thread eyelets, also for Nos. 3051, 3051 A, and 23307 D	04
88	9	Set Screw, for needle bars, also for Nos. 7, 9 A, 9 X, 30, 64, 708, 734, 1261, 1288, 3020 P, 5020 L, 5142, 5156, 12865, 15447 E, 15465 F and 23307 H	03
88 B	9	" " headless, for needles	03
89	9	Screw, for take-ups, also for Nos. 56 AN, 708, 732, and 5018-8	03
90	9	" " looper thread nipper springs, also for No. 3072	04
91	9	" fillister head, for presser feet	04
92	9	Cloth Plate Slide Stop Screw, also for No. 3	04
92 A	9	" " Guard Screw, back	04
93	10	Screw ($\frac{7}{16}$ inch long) for main feed dog holders, also for Nos. 22 J, 710, 723, 725, 726, 5005 M, 6905-20, 15447 F, 15447 H, and 21375 H	04
93 A	9	" for foot lift lever extension, also for Nos. 726 A, 717, and 5065	04
94	9	" for looper eccentric fork shoes, also for Nos. 10, 23, 70, 104, 5125, 7638, 15447 G and 15447 H	04
95	9	" for main shaft collar, also for Nos. 100 B, 130 W, 9943 C, 21113, and 21113 A	03
96	9	" for eccentrics, also for Nos. 30, 1261, 5014, 5114 A, 21102 C, 21102 D and 21102 E	03
97	9	" for operating looper thread nipper spring, also for Nos. 9 X, 103, 703, 707, 734, and 15446 D	04
97 A	10	" for looper connection rod ball joints, also for No. 5170	04
98	9	Set Screw, for tension thread eyelets, also for Nos. 30, 424, 482, 704, 705, 23307 F and 23307 G	03
98 A	9	Screw, for needle lever thread eyelets	04
100 B	23	Thread Wire (sixteen inches long) for Style C thread stand	10
		" " Screw No. 95	03

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101	20	Take-up, for Style 3000 F.	$0 75
		" Screw No. 89.	03
102	24	" Frame	50
		" Frame Screws No. 22596.	04
103	20	" Thread Eyelet.	20
		" " " Support Screw No. 97.	04
104	20	" " " Spring	05
		" " " Spring Screw No. 94.	04
105	26	Machine Thumb Screw, $1\frac{1}{2}$, $2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, and 6 inches, inclusive.	15
107	16	Tension Spring Ferrule.	06
108	11	" Nut.	05
109	11	" Disc (hardened)	05
110	—	" Spring:	
110-0	12	" " (.022-inch diameter wire) for finger threads	04
110-1	12	" " (.026-inch diameter wire) for looper threads	04
110-2	12	" " (.028-inch diameter wire) for needle and looper threads	04
110-3	12	" " (.040-inch diameter wire) for needle threads	04
111	20	Tension Thread Eyelet, with two eyes (distance between centers of eyes $1\frac{7}{16}$ inches)	10
		" " " Screw No. 98.	03
112 D	3	Throat Plate, for No. 12 gauge Style 3000 A.	1 25
112 DN	3	" " for No. 8 gauge Styles 3000 A, 3000 C, 3000 D, and 3000 E.	1 25
112 DW	—	" " for No. 16 gauge Style 3000 A.	1 25
		" " Screws No. 87.	04
113 A	20	Frame Needle Thread Eyelet	08
		" " " " Screw No. 22529.	05
118	—	Thread Hook.	05
118 B	15	" Tweezers.	20
126	19	Cam Gear Stud (hardened and ground).	1 00
		" " " Set Screws No. 81.	03
127	16	" " " Washer (hardened).	15
		" " " Washer Screw No. 25 S.	05
130 W	15	" " Pinion (wood fibre)	2 00
		" " " Screws No. 95.	03
134	10	Screw, for cloth plate hinged cover latch.	10
135	9	" " for feed rocker connection.	06
154	17	Needle Lever Washer.	05

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158 A	20	Needle Lever Thread Eyelet, with three eyes	$0 14
158 B	20	" " " " with two eyes	12
		" " " " Screw No. 98 A	04
170	27	Screw Driver, round steel, diameter $\frac{7}{16}$ inch, length over all nine inches	30
187 A	9	Screw, for throat plate edge guide, for Style 5100 G	04
188 D	10	Thumb Screw, for edging spool support cone, also for No. 21196 C	10
201 A	27	Edging Spool Support Frame	50
201 C	10	" " " " Pin Thumb Screw	10
202 A	20	Needle Thread Take-up Wire Post	35
		" " " " " Screw No. 22529	05
258	12	Looper Rocker Cone Stud Nut (hardened)	10
303	10	Screw, hexagonal head, for looper eccentric flange	08
334	20	Tension Thread Eyelet, with one eye (length over all $\frac{7}{8}$ inch)	06
413	27	Oil Can	10
414	27	Table Brace, complete	1 50
415	25	Foot Lift Lever, complete, for machines in Class 3000	75
415 B	25	" " " Casting, for machines in Class 3000	40
416 A	25	" " " Extension	25
	25	" " " Extension Screws No. 93 A	04
420	11	" " " Stud	20
421	25	" " Chain (thirty-eight inches long)	15
422	25	Foot Treadle	20
423	15	" " Rest	15
424	16	" " Pin	05
		" " Pin Screw No. 98	03
426	12	" Lift Lever Spring	05
426 A	16	" " " " Pin	01
482	16	Upper Rock Shaft Collar	25
		" " " " Screw No. 98	03
503 E	7	Presser Foot, for No. 16 gauge Style 3000 C	1 50
		" " Screw, No. 91	04
531	9	Screw, for loop retainer, for Style 5000 M	03
605	9	" for border tension guide spring, also for Nos. 3040, 5140, and 16194	05
700	20	Thread Finger, right	50
701 A	20	" " left	55
		" " Screws No. 77	03
702	24	" " Arm, right	75
703	19	" " " Frame Collar	30
		" " " Frame Collar Clamp Screw No. 97	04

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704	19	Thread Finger Arm, Segment	$0 60
		" " " Segment Screws No. 98	03
705	24	" " " left	60
		" " " Screws No. 98	03
706	13	" " Shell Ball	60
707	19	" " Ball Stud Link	75
		" " Ball Stud Link Screws No. 97	04
708	19	Upper Rock Shaft Arm, left	30
		" " " " Set Screw No. 88	03
		" " " " Spot Screw No. 89	03
709	23	" " " (hardened and ground) size .407	50
710	24	" " " Arm, right	55
		" " " Arm Clamp Screws No. 93	04
711	11	" " " Arm Stud	15
712	24	" " " Connection	1 35
713	10	" " " Connection Clamp Screw	04
714	12	" " " Connection Clamp Screw Nut	10
		" " " Connection Cap Screw No. 75 A	04
716	15	Eccentric Gear, for use with pinion No. 130 W	2 50
717	26	" " Cover, for use with cloth plate No. 1 TA	30
		" " Cover Screws No. 93 A	04
718	23	Thread Finger Thread Guide	20
718 A	23	Edging Guide for Styles 3000 E and 3000 M	50
718 D	20	" " Post, for Styles 3000 E and 3000 M	35
		" " " Screw No. 22529	05
719	9	Thread Finger Thread Guide Screw, also for Nos. 23306 E and 23306 F	04
720	19	Needle Thread Pull Off	20
		" " " " Set Screw No. 77	03
721	14	Gage, for Styles 5000 A, 5000 G, and 5100 F	25
		" Screws No. 25 C	05
723	25	Tension Bracket	55
		" " Screw No. 93	04
723 A	25	Combined Tension Bracket and Thread Guide	90
		" " " and Thread Guide Screw No. 22529	05
724 A	17	Cloth Plate Hinged Cover, for Styles 5000 A, 5000 C, 5000 G, 5100 E, 5100 F, 5100 G, and 5100 H	1 55
		" " " " Screws No. 25 CC	04
725	6	Feed Dog, for use with throat plates Nos. 741, 741 A, and 5024	85

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726	6	Feed Dog, for use with throat plate No. 5124	$1 00
		" " Screw No. 93	04
726 A	6	" " for use with throat plates Nos. 742 and 5124 I	1 00
		" " Screw No. 93 A	04
727	4	Looper, with guard, for Style 3000 F	1 45
727 A	4	" without guard, for Style 3000 F	1 25
728	4	" with guard (marked 728)	1 45
728 A	—	" without guard, for No. 728	1 25
		" Set Screw No. 73	05
729	4	" Needle Guard (marked Q) for loopers Nos. 727, 3007, 3007 A, 5107 H and 5107 K	15
729 A	4	" " " (marked R) for loopers Nos. 728, 5107 H, 6907, and 6907 A	15
		" " " Screw No. 73 A	05
* 730	18	Needle Bar (hardened and ground) sizes .257, .260, .263, .266, .270, .273, .276, .280, and .283, for No. 8 gauge Styles 5000 A, 5000 C, 5000 G and 5000 L	1 50
* 730 A	18	" " (hardened and ground) sizes .257, .260, .263, .266, .270, .273, .276, .280 and .283, for No. 12 gauge Styles 5000 A, 5000 C, 5000 G, and 5000 L	1 50
* 731	18	" " (hardened and ground) sizes .257, .260, .263, .266, .270, .273, .276, .280, and .283, for triple interlock machines spaced No. 16 gauge between outside needles	1 75
		" " Set Screws No. 88	03
732	16	" Clamp Collar, for No. 8 gauge Styles 5000 A, 5000 C, 5000 G, and 5000 L	50
		" " " Screw No. 89	03
732 A	16	" " " for No. 12 gauge machines in Class 5000	50
733	16	" " " for triple interlock machines spaced No. 16 gauge between outside needles	55
734	19	Presser Bar Connection and Presser Spring Rest, for machines in Classes 5000 and 5100	50
		" " Connection and Presser Spring Rest Clamp Screw No. 97	04
		" " Connection and Presser Spring Rest Set Screw No. 88	03
735	19	Thread Finger Oscillating Shaft (hardened and ground), sizes .319, .322, .325, and .328	60
736	13	" " Oscillating Shaft Sleeve	25

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738	8	Presser Foot, for No. 8 gauge Style 5000 A.	$1 35
738 A	8	" " for No. 12 gauge Style 5000 A.	1 35
		" " Screw No. 91.	04
741	2	Throat Plate, for use with feed dog No. 725, on No. 8 gauge machines in Class 5000.	1 50
741 A	2	" " for use with feed dog No. 725, on No. 12 gauge machines in Class 5000.	1 50
742	1	" " for use with feed dog No. 726 A, on machines in Class 5100.	1 50
		" " Screws No. 87.	04
750	27	Edging Spool Support, complete with thirteen-inch axle.	2 00
751	27	" " " Frame Pin (hardened) length over all three inches, also for No. 21215 C.	10
		" " " Frame Pin Thumb Screw No. 201 C.	10
751 A	27	" " " Frame Pin (hardened) length over all two inches, also for No. 21215 D.	10
752	27	" " " Axle, length over all thirteen inches.	35
753	16	" " " Cone, adjustable.	20
		" " " " Screw No. 188 D.	10
1054	16	Looper Eccentric (marked V2, throw .152-inch).	50
		" " Screw No. 96.	03
1216 A	24	Needle Lever Connection, complete.	2 30
1230	25	" " " Bearing, upper, complete (includes Nos. 1230 A, 1230 B, 1230 D, and 22586 A).	1 00
‡1230A	25	" " " Bearing, upper, without spring, pin, or guiding screw.	85
1230 B	12	" " " Bearing Spring.	05
1230 C	24	" " " Tube, length over all $2\frac{15}{16}$ inches.	30
1230 D	13	" " " Bearing Spring Pin.	06
1261	24	Looper Rocker Frame, detachable cone.	1 00
		" " " Screw, left, No. 88	03
		" " " Screw, right, No. 88.	03
		" " " Spot Screw, No. 96.	03
1275	19	Needle Lever Stud (hardened and ground) internal oiling, with screw, standard size.	1 50
1275 A	—	" " " (hardened and ground) internal oiling, without screw, standard size.	1 45

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1275 B	—	Needle Lever Stud (hardened and ground) internal oiling, with screw, extra size on frame end (specify the number of thousandths of an inch larger than standard size) made only to order.....	$1 75
1275 C	—	" " " (hardened and ground) internal oiling, with screw, extra size on lever end (specify the number of thousandths of an inch larger than standard size) made only to order.....	1 75
1275 D	—	" " " (hardened and ground) internal oiling, with screw, extra size on both ends (specify the number of thousandths of an inch larger on each end than standard size) made only to order..	2 00
1275 E	—	" " " (hardened and ground) internal oiling, without screw, extra size on frame end (specify the number of thousandths of an inch larger than standard size) made only to order..	1 70
1275 F	—	" " " (hardened and ground) internal oiling, without screw, extra size on lever end (specify the number of thousandths of an inch larger than standard size) made only to order..	1 70
1275 G	—	" " " (hardened and ground) internal oiling, without screw, extra size on both ends (specify the number of thousandths of an inch larger on each end than standard size) made only to order.....	1 95
		" " " Screw No. 22586.....	05
1280	12	Needle Lever Bolt Nut.....	10
1286	16	Needle Bar Link Pin (hardened and ground) complete, internal oiling, also for No. 15446 D.....	30
		" " " " Screw, upper, No. 77.....	03
		" " " " Screw lower, No. 78.....	03
1286 A	16	" " " " (hardened and ground) internal oiling, without spring, ball or screw	20
1286 B	12	" " " " Spring.....	04
		" " " " Spring Screw No. 22560.....	03
1287	11	Needle Bar Thread Nipper, complete.....	50

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1288	11	Needle Bar Thread Nipper, Collar	$0 35
		" " " " Collar Screw No. 88	03
1290	12	" " " " Spring (.016-inch diameter wire)	03
1332	10	Presser Foot Lifter Screw Pin (hardened) for machines in Classes 5000 and 5100	12
1346	11	Tension Post (length over all $1\frac{11}{16}$ inches) for use with hardened steel ferrule No. 1347	20
1347	11	" " Ferrule (length over all $\frac{5}{16}$ inch, hardened) for use with tension post No. 1346	08
1349	12	Tension Spring (.036-inch diameter wire) for needle threads	04
1361	13	Presser Spring Pin	03
1362	13	Main Shaft Sleeve Pin	03
1588	13	Cloth Plate Extension Spring Latch	05
		" " " " Latch Screw No. 22564 A	05
3001	28	Cloth Plate, with extension attached, for Style 3000 Q using throat plate No. 3024 C	4 50
3001 A	28	" " for Style 3000 Q using throat plate No. 3024 C	3 00
3001 C	28	" " with extension attached, for Style 3000 Q using throat plate No. 3024 R	4 50
3001 D	28	" " for Style 3000 Q using throat plate No. 3024 R	3 00
3002 A	17	" " Hinged Cover, for Style 3000 Q	1 55
		" " Hinged Cover Screws, No. 25 CC	04
3004	13	Cast-off Wire, for use with take-up No. 3023	30
		" " Screw No. 87	04
3005 B	5	Main Feed Dog, for No. 16 gauge Style 3000 M	1 00
		" " " Screws No. 22593	05
3005 C	—	Nos. 3005 B, 5150 and two No. 22593 assembled	1 85
3005 D	5	Main Feed Dog, for No. 12 gauge Style 3000 P	1 50
		" " " Screws No. 22593	05
3005 E	—	Nos. 3005 D, 5650 and two No. 22593 assembled	2 35
3005 F	5	Main Feed Dog, for Nos. 8 and 12 gauge Style 3000 M	1 00
		" " " Screws No. 22593	05
3005 G	—	Nos. 3005 F, 5150 and two No. 22593 assembled	1 85
3005 U	5	Main Feed Dog, teeth cut ten to the inch, for use with throat plates Nos. 3024 C-12 and 3024 C-16	1 50
3005 V	—	Nos. 3005 U, 5150 and two No. 22593 assembled	2 35
3005 W	5	Main Feed Dog, for Nos. 12 and 16 gauge Style 3000 Q	1 50
3005 X	—	Nos. 3005 W, 5150 and two No. 22593 assembled	2 35
3007	4	Looper, with guard, for Style 3000 P	1 45
		" Set Screw No. 22565	06

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3007 A	4	Looper, with guard, for Styles 3000 A, 3000 C, 3000 D, 3000 E, 3000 M, and 3000 Q	$1 45
		" Set Screw, No. 73	05
3008	—	" without guard, for Style 3000 P	1 25
		" Set Screw No. 22565	06
3008 A	—	" without guard, for Styles 3000 A, 3000 C, 3000 D, 3000 E, 3000 M, and 3000 Q	1 25
		" Set Screw No. 73	05
3015 A	26	Needle Lever, for machines in Classes 3000 and 5100, also for Styles 5000 A, 5000 C, 5000 G and 5000 L	2 00
* 3017–1	18	Dual Width Needle Bar (hardened and ground) with stop collar, sizes .257, .260, .263, .266, .270, .273, .276, .280, and .283, for Nos. 8 and 12 gauge machines in Class 3000	2 25
* 3017–2	18	" " " " (hardened and ground) with stop collar, sizes .257, .260, .263, .266, .270, .273, .276, .280 and .283, for Nos. 12 and 16 gauge machines in Class 3000	2 25
		" " " " Set Screws No. 88	03
3018	16	" " " Clamp Collar, for Nos. 8 and 12 gauge machines in Class 3000	75
3018 A	—	" " " Clamp Collar, for Nos. 12 and 16 gauge machines in Class 3000	75
3020 D	7	Presser Foot, for Style 3000 D:	
3020 D- 8	—	" " for No. 8 gauge	3 00
3020 D-12	—	" " for No. 12 gauge	3 00
3020 D-16	—	" " for No. 16 gauge	3 00
3020 D-20	—	" " for No. 20 gauge	3 50
3020 E	8	" " for Style 3000 E:	
3020 E- 8	—	" " for No. 8 gauge	2 25
3020 E-16	—	" " for No. 16 gauge	2 25
		" " Screw No. 91	04
3020 M	8	" " for Style 3000 M:	
3020 M- 8	—	" " " No. 8 gauge	2 60
3020 M-12	—	" " " No. 12 gauge	2 60
3020 M-16	—	" " " No. 16 gauge	2 60
3020 P	7	" " " Style 3000 P:	
3020 P-12	—	" " " No. 12 gauge	4 00
3020 Q	8	" " " Style 3000 Q:	
3020 Q-12	—	" " " No. 12 gauge	5 00

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3020 Q-16	—	Presser Foot, for No. 16 gauge	$5 00
		" " Screw No. 91	04
3023	20	Take-up, for use with cast-off wire No. 3004	1 00
		" Screw No. 89	03
3024	3	Throat Plate, for Styles 3000C, 3000 D, and 3000 E:	
3024-16	—	" " for No. 16 gauge	1 25
3024 C	3	" " for machines in Class 3000 for seaming tubular knitted borders to sweaters using feed dogs Nos. 3005 W and 3026 F:	
3024 C-12	—	" " for No. 12 gauge	1 50
3024 C-16	—	" " for No. 16 gauge	1 50
3024 E	3	" " for Styles 3000 C, 3000 D, and 3000 E:	
3024 E-12	—	" " for No. 12 gauge	1 25
3024 F	3	" " for Style 3000 F:	
3024 F-12	—	" " for No. 12 gauge	1 25
3024 M	3	" " for Style 3000 M:	
3024 M- 8	—	" " for No. 8 gauge	1 50
3024 M-12	—	" " for No. 12 gauge	1 50
3024 P	2	" " for Style 3000 P:	
3024 P-12	—	" " for No. 12 gauge	2 50
3024 R	3	" " for Style 3000 Q:	
3024 R-12	—	" " for No. 12 gauge	1 50
3024 R-16	—	" " for No. 16 gauge	1 50
		" " Screws No. 87	04
3026 A	5	Differential Feed Dog, for No. 16 gauge Style 3000 M	1 50
3026 B	5	" " " for No. 12 gauge Style 3000 P	1 50
3026 C	5	" " " for Nos. 8 and 12 gauge Style 3000 M	1 25
3026 F	6	" " " teeth cut ten to the inch, for use with throat plates Nos. 3024 C-12 and 3024 C-16	1 50
3026 H	5	" " " for Nos. 12 and 16 gauge Style 3000 Q	1 50
		" " " Screw No. 22585	04
3030	28	Cloth Plate Extension, for Style 3000 Q using throat plate No. 3024 C	1 25
3030 A	28	" " " for Style 3000 Q using throat plate No. 3024 R	1 25
		" " " Pivot Stud No. 11634 B	15
3040	7	Yielding Side Spring, for presser feet Nos. 3020 D, 5020 C, 5020 G, 5120 F and 5120 G	12
		" " " Screw No. 605	05
3041	—	Yielding Side, right hand, for presser foot No. 3020 D	35

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3042	—	Yielding Side, left hand, for presser foot No. 3020 D	$0 35
3045	—	Edging Roller, for presser feet Nos. 3020 E, 3020 M and 5020 M	30
3050 C	3	Throat Plate Seam Guide, complete	70
		" " " " Screw No. 22561	04
3051	20	Needle Thread Take-up, for Style 3000 A	07
3051 A	20	" " " for Style 3000 Q	15
		" " " Screw No. 87 U	04
3072	13	Cast-off Wire Guard,	25
		" " " Screw No. 90	04
5001 A	28	Cloth Plate, with extension attached, for Style 5000 L	4 50
5001 B	28	" " for Style 5000 L	3 00
5002 A	17	" " Slide, right ($2\frac{7}{16}$ inches long) for Style 5000 M	50
		" " Slide Thumb Screw No. 25 T	10
5002 L	17	" " Hinged Cover, for Styles 3000 P and 5000 L	1 55
		" " Hinged Cover Screws No. 25 CC	04
5003	14	Edge Guide, for Style 5000 M	1 50
		" " Pivot Screw No. 22735	06
5005 A	5	Main Feed Dog, for Style 5000 L	1 50
		" " " Screws No. 22593	05
5005 B	—	Nos. 5005 A, 5150 and two No. 22593 assembled	2 35
5005 M	6	Feed Dog, for Style 5000 M	2 00
		" " Screw No. 93	04
5007 H	4	Looper, with guard, for Style 5000 L	1 45
		" set screw No. 22565	06
5008	4	" for Style 5000 M	1 25
		" Set Screw No. 73	05
5008 H	—	" without guard, for Style 5000 L	1 25
		" Set Screw No. 22565	06
5011	13	Loop Retainer, for Style 5000 M	65
		" " Screw No. 531	03
*5013	23	Looper Rocker (hardened) for Styles 3000 P and 5000 L	1 00
5014	16	Looper Cam (hardened and ground, marked DL) for Style 5000 M	1 00
		" " Screw No. 96	03
5015	26	Needle Lever, for Style 5000 M	2 00
*5017	18	" Bar, (hardened and ground) size .257, for Style 5000 M:	
*5017-8	—	" " for No. 8 gauge	1 50
		" " Set Screw No. 88	03
5018	16	Needle Clamp Collar, for Style 5000 M:	
5018-8	—	" " " for No. 8 gauge	55
		" " " Screw No. 89	03

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5020 C	7	Presser Foot, for Style 5000 C:	
5020 C-8	—	" " No. 8 gauge	$3 50
5020 C-12	—	" " No. 12 gauge	3 50
5020 G	7	" " for Style 5000 G:	
5020 G-8	—	" " for No. 8 gauge	3 50
5020 G-12	—	" " for No. 12 gauge	3 50
5020 L	7	" " for Style 5000 L:	
5020 L-8	—	" " for No. 8 gauge	4 25
5020 L-12	—	" " for No. 12 gauge	4 25
		" " Screws No. 88	03
5020 M	8	" " for Style 5000 M:	
5020 M-8	—	" " for No. 8 gauge	3 50
		" " Screw No. 91	04
5022	23	Main Shaft (hardened and ground) sizes .530, .531, .533, .536, .539, .542, for Style 5000 M	2 25
5024	2	Throat Plate, for use with feed dog No. 725:	
5024-8	—	" " for No. 8 gauge	1 50
5024-12	—	" " for No. 12 gauge	1 25
5024 B	2	" " for Styles 5000 A, 5000 C, and 5000 G:	
5024 B-8	—	" " for No. 8 gauge	1 50
5024 B-12	—	" " for No. 12 gauge	1 50
5024 L	2	" " for Style 5000 L:	
5024 L-8	—	" " for No. 8 gauge	2 50
5024 L-12	—	" " for No. 12 gauge	2 50
5024 M	2	" " for Style 5000 M:	
5024 M-8	—	" " for No. 8 gauge	1 75
		" " Screws No. 87	04
5026 A	6	Differential Feed Dog, for Style 5000 L	1 25
		" " " Screw No. 22585	04
5030	28	Cloth Plate Extension, for Style 3000 P	1 25
		" " " Pivot Stud No. 11634 B	15
5041	—	Yielding Side, right hand, for presser feet Nos. 5020 C, 5020 G, 5120 F, 5120 G, 5120 H, and 5120 K	40
5042	—	" " left side, for presser feet Nos. 5020 C, 5020 G, 5120 F, and 5120 G	40
5050	11	Thread Finger, right, for Style 5000 M	40
5051	11	" " left, for Style 5000 M	45
		" " Screws No. 77	03
5064	15	Eccentric Gear, spiral teeth	2 50
5065	25	" " Cover, for use with cloth plate No. 5001 A	50
		" " Cover Screw No. 93 A	04

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5101 J	28	Cloth Plate, for Style 5100 J	$3 00
		" " Screws No. 80	05
5102 J	17	" " Hinged Cover, for Style 5100 J	1 55
		" " Hinged Cover Screws No. 25 CC	04
5105 B	5	Main Feed Dog, for Styles 5000 A, 5000 C, 5000 G, 5100 E, 5100 F, and 5100 G	1 25
		" " " Screws No. 22593	05
5105 C	—	Nos. 5105 B, 5150 and two No. 22593 assembled	2 10
5105 D	5	Main Feed Dog, for No. 12 gauge Style 5100 H	1 50
		" " " Screws No. 22593	05
5105 E	—	Nos. 5105 D, 5150 and two No. 22593 assembled	2 35
5105 H	5	Main Feed Dog, for No. 16 gauge Style 5100 H	1 50
		" " " Screws No. 22593	05
5105 J	6	Feed Dog, for Style 5100 J	2 00
		" " Screw No. 93	04
5105 K	—	Nos. 5105 H, 5150 and two No. 22593 assembled	2 35
5107 H	4	Looper, with guard, for machines in Class 5100 spaced No. 16 gauge between outside needles	1 45
5107 K	4	" with guard, for No. 12 gauge Style 5100 H	1 45
5108 H	—	" without guard, for machines in Class 5100 spaced No. 16 gauge between outside needles	1 25
5108 K	—	" without guard, for No. 12 gauge Style 5100 H	1 25
		" Set Screw No. 73	05
5111	13	Loop Retainer, for No. 12 gauge Style 5100 H	80
		Loop Retainer Screw, No. 98 A	04
5114	15	Looper Eccentric, adjustable	1 90
5114 A	15	" " Flange	1 75
		" " Flange Spot Screw, No. 96	03
		" " Flange Screws, hexagonal head, No. 303	08
*5117 A	18	Needle Bar (hardened and ground) size .257, for triple interlock machines spaced No. 12 gauge between outside needles	1 75
5118 A	16	Needle Clamp Collar, for triple interlock machines spaced No. 12 gauge between outside needles	65
5120 A	8	Presser Foot, for Style 5100 E	1 50
5120 F	7	" " for Style 5100 F	3 75
5120 G	7	" " for Styles 5100 G and 5100 J	3 75
5120 H	7	" " for No. 16 gauge Style 5100 H	4 00
5120 K	7	" " for No. 12 gauge Style 5100 H	4 00
		" " Screw No. 91	04
5124	1	Throat Plate, for machines in Class 5100, for use with feed dog No. 726	1 50
5124 B	1	" " for Styles 5100 E, and 5100 G	1 75

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5124 D	1	Throat Plate, for No. 16 gauge Style 5100 H.	$1 75
5124 F	1	" " for Style 5100 F.	1 75
5124 I	1	" " for seaming ribbed cuffs to sleeves, using feed dog No. 726 A.	1 75
5124 J	1	" " for Style 5100 J.	2 50
5124 K	1	" " for No. 12 gauge Style 5100 H.	1 75
		" " Screws No. 87.	04
5125	13	Feed Bar Needle Guard (marked AJ).	55
		" " " " Screw No. 94.	04
5126	6	Differential Feed Dog, for Styles 5000 C, 5100 E and 5100 G	1 50
5126 A	6	" " " for No. 12 gauge Style 5100 H.	1 50
5126 B	6	" " " for No. 16 gauge Style 5100 H.	1 50
5126 F	6	" " " for Styles 5000 A, 5000 G, and 5100 F.	1 50
		" " " Screw No. 22585.	04
5140	—	Yielding Side Spring, for presser feet Nos. 5120 H and 5120 K.	15
		" " " Screw No. 605.	05
5141	—	" " left hand, for presser feet Nos. 5120 H and 5120 K.	55
5142	24	Feed Bar, for use with needle guard No. 5125.	75
		" " Screws No. 88.	03
5143	24	" " for differential feed dogs.	90
5144	12	Differential Feed Bar Link Stud Nut.	10
5150	5	Main Feed Dog Holder (marked 5150).	75
		" " " " Screw No. 93.	04
5153	19	Loop Retainer Carrier and Looper Rock Shaft, left (hardened and ground) size .407.	60
5156	25	Feed Rocker, for differential feed machines.	1 25
		" " Screws No. 88.	03
5157	25	Feed Rocker Connection.	65
		" " Connection Screws No. 135.	06
5170	15	Looper Eccentric Connection (hardened)	2 00
5171	13	" " " Ball (hardened)	35
5172	15	" Rock Shaft Sleeve.	85
		" " " Sleeve Screw, No. 72.	05
5189	20	Looper Thread Pull-off.	85
5190	20	Looper Thread Pull-off Frame.	60
5650	5	Main Feed Dog Holder (marked 5650).	75
		" " " " Screw No. 93.	04
5801 C	28	Cloth Plate, with extension attached, for Style 3000 P.	4 50
5801 E	28	" " for Style 3000 P.	3 00
		" " Screws No. 80.	05

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6042	11	Needle Lever Bolt (length over all $1\frac{11}{32}$ inches)	$0 20
6905-20	6	Feed Dog, for No. 20 gauge Styles 3000 A and 3000 D	1 15
		" " Screw No. 93	04
6907	4	Looper, with guard (marked 6907)	1 45
6907 A	4	" with guard, for Styles 5000 A, 5000 C, 5000 G, and No. 20 gauge Styles 3000 A, and 3000 D	1 45
6908	—	" without guard, for No. 6907	1 25
6908 A	4	" without guard, for Styles 5000 A, 5000 C, 5000 G, and No. 20 gauge Styles 3000 A and 3000 D	1 25
		" Set Screw No. 73	05
*6917-20	18	Needle Bar (hardened and ground) sizes .257, .260, .263, .266, .270, .273, .276, .280, and .283, for No. 20 gauge machines in Class 3000	50
		" " Set Screws No. 88	03
6918-20	16	" Clamp Collar, for No. 20 gauge machines in Class 3000	60
6920-20	8	Presser Foot, for No. 20 gauge Style 3000 A	1 50
		" " Screw No. 91	04
6924-20	2	Throat Plate, for No. 20 gauge Styles 3000 A and 3000 D	1 75
		" " Screws No. 87	04
6939	11	Needle Lever Bolt (length over all $1\frac{7}{16}$ inches)	20
6970	20	Needle Lever Thread Eyelet, for Style 5000 M	40
		" " " " Screws No. 98 A	04
7638	20	Lower Thread Deflecting Wire	10
		" " " " Screw No. 94	04
9034	20	Needle Bar Thread Eyelet, with three eyes	10
		" " " " Screw No. 87 U	04
9630	19	Presser Bar (hardened and ground) sizes .319, .322, .325, .328, .331, and .334, for machines in Classes 5000 and 5100	1 00
9632	19	Presser Bar Foot Lift Connection	55
9943 C	15	Cam Gear Pinion (spiral teeth)	2 00
		" " " Screws No. 95	03
9966	13	Looper Eccentric Connection Ball Washer	10
10303 B	14	Cloth Plate Edge Guide, for Style 5100 H	35
		" " " " Screws No. 25 C	05
10314	16	Looper Eccentric (ground, marked C, throw .135-inch)	50
		" " Screw No. 96	03
10334 A	20	Needle Bar Thread Eyelet, with two eyes	08
		" " " " Screw No. 87 U	04
10335	20	Lower Tension Arm Thread Guide	10
11261 A	11	Tension Post (length over all $1\frac{7}{8}$ inches) for use with hardened steel ferrule No. 11261 B	25

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11261 B	11	Tension Post Ferrule (hardened, length over all $\frac{31}{64}$ inch) for use with tension post No. 11261 A. . .	$0 10
11262	20	Tension Thread Eyelet, lower, with two eyes (distance between centers of eyes $1\frac{9}{16}$ inches)	10
		" Thread Eyelet Screw No. 98	03
11634 B	10	Pivot Stud, for cloth plate extensions	15
12865	16	Presser Bar Stop Collar	30
		" " " " Screws No. 88	03
12873	13	Bushing (ground) for needle bar bearings	25
		" Clamp Screw No. 22569	05
12957 E	13	Edge Guide Friction Washer	08
12987 A	12	Looper Rocker Cone Nut (hardened)	10
14544	19	Differential Feed Bar Shaft (hardened and ground, $3\frac{9}{16}$ inches long)	40
‡15430	24	Needle Lever Connection Bearing, lower	75
		" " " Bearing Screws No. 22587	05
15430 C	12	" " " Tube Nut, upper, left thread	10
15430 D	12	" " " Tube Nut, lower, right thread	10
15430 L	24	" " " Tube Felt	02
15438 C	12	Spring, coiled, for border tension guide, upper	03
15438 D	10	Screw, for border tension guide, upper	06
15446 C	13	Differential Feed Bar Link Stud (hardened and ground)	35
15446 D	24	" " Bar Link	40
		" " Bar Link Screw No. 97	04
15447 E	24	Feed Bar, for main feed dogs	1 10
		" " Screws No. 88	03
15447 F	24	" " Shoe (hardened and ground)	20
		" " Shoe Screw No. 93	04
15447 G	17	" " Prong and Sponge	35
		" " Prong Screws No. 94	04
15447 H	17	Differential Feed Bar Guide	45
		" " " " Screw, front, No. 93	04
		" " " " Screw, back, No. 94	04
15465 F	11	Looper Rocker Cone (hardened and ground)	50
		" " " Screws, No. 88	03
15480 C	8	Spring, for presser feet Nos. 3020 M and 3020 Q	15
15745 B	11	Looper Rocker Cone Stud (hardened and ground)	80
		" Screw No. 57 WD	05
16194	7	" for presser feet Nos. 3020 P and 5020 L	12
		" Screw No. 605	05
21102	23	Thread Guide, for Style D thread stand	08
		" " Screw No. 22560	03

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21102 A	—	Thread Guide Holder, for Style D thread stand:	
21102 A-2	23	" " Holder, for two thread guides	$0 30
21102 A-4	23	" " Holder, for three or four thread guides	40
		" " Holder Screw No. 22580	03
21102 B	26	" " Holder Supporting Rod, for Style D thread stand, also for Nos. 21215 C and 21215 D	12
		" " Holder Supporting Rod Screw No. 22560	03
21102 C	26	Spool Support Tube, for Style D thread stand	70
		" " " Screws No. 96	03
21102 D	26	Base, for thread stands	40
		" Screws No. 96	03
21102 E	—	Spool Support, for Style D thread stand:	
21102 E-2	26	" " for two spools	40
21102 E-3	26	" " for three spools	50
		" " Screw No. 96	03
21106 B	—	Gravity Tension Thread Flyer and Spool Cap, assembled	25
21113	23	Thread Wire, complete (twenty-two inches long) for Style C thread stand	35
		" " Screw No. 95	03
21113 A	—	" " Extension (six inches long) for Style C thread stand	05
		" " Extension Screw No. 95	03
21113 B	—	Thread Wire Coupling, for Style C thread stand	15
		" " Coupling Screws No. 22558	04
21126	26	Supporting Rod ($19\frac{3}{4}$ inches long) for Style C thread stand	20
21127	26	" " Coupling, for Style C thread stand	20
		" " Coupling Screws No. 22580	03
21130 A	—	Spool Support, for Style C thread stand:	
21130 A-3	26	" " for three spools	70
21130 A-4	26	" " for four spools	80
21130 A-5	26	" " for five spools	90
21130 A-6	26	" " for six spools	1 00
		" " Screw No. 22622	03
21145	23	Wooden Cone, for thread stands	10
21149	19	Holder, for small spools	50
21163	19	Border Tension Pin	15
		" " " Screw No. 25 S	05
21164	19	" " " Post	70
		" " " " Screw No. 22529	05
21192	27	Horizontal Tape Holder	3 00

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21196	27	Edging Tension Support, complete, for Style 5000 M. . . .	$5 50
21196 A	27	Edging Tension and Coupling, for Style 5000 M.	4 00
		" " " " Screw No. 22580.	03
21196 B	—	" " Supporting Rod	70
		" " " " Screw No. 81.	03
21196 C	27	Shoulder Loop Gage, adjustable, for Style 5000 M.	40
		" " Gage Set Screw No. 188 D.	10
21201	27	Screw Driver, round steel (diameter $\frac{5}{32}$ inch, length over all nine inches).	30
21202	—	" " round steel (diameter $\frac{7}{32}$ inch, length over all $10\frac{3}{16}$ inches).	40
21203	—	" " round steel (diameter $\frac{7}{32}$ inch, length over all fifteen inches).	50
21204	—	" " round steel (diameter $\frac{1}{4}$ inch, length over all fifteen inches).	60
21205	—	" " octagon steel (diameter $\frac{5}{16}$ inch, length over all fifteen inches).	75
21206	27	Screw Driver Wrench, steel handle.	15
21207	27	" " round steel (diameter $\frac{5}{64}$ inch, length over all $3\frac{7}{32}$ inches).	10
21208	27	" " chuck handle, including three blades.	1 25
21210	13	Looper Collar (.040-inch thick).	05
21211	13	" " (.054-inch thick).	05
21212	13	Presser Bar Collar (.080-inch thick).	05
21213	13	" " " (.125-inch thick).	05
21215	27	Edging Spool Support, complete, with ten-inch axle. . . .	2 00
21215 C	27	" " " complete, with thirteen-inch axle	4 90
21215 D	—	" " " complete, with ten-inch axle. . . .	5 00
21216	26	" " " Upright Rod.	50
		" " " Upright Rod Set Screw No. 81. . .	03
21217	26	Base, for edging spool support.	40
21217 A	27	Pin Support, adjustable, for edging spool support.	60
		" " Set Screw No. 22728.	20
21218	27	Edging Spool Support Axle, length over all ten inches. . .	35
21225	13	Looper Gage:	
21225-$\frac{3}{16}$	—	" " $\frac{3}{16}$ inch.	20
21225-$\frac{7}{32}$	—	" " $\frac{7}{32}$ inch.	20
21225-$\frac{1}{4}$	—	" " $\frac{1}{4}$ inch.	20
21225-$\frac{9}{32}$	—	" " $\frac{9}{32}$ inch.	20
21225 A	13	" " Adjustable.	30
21248	25	Foot Lift Lever, complete, for machines in Classes 5000 and 5100.	75

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21249	25	Foot Lift Lever Casting, for machines in Classes 5000 and 5100	$0 40
21282	20	Foot Lift Lever Spring Extension Wire	04
21350	15	Malleable Iron Belt Fastener, with two rows of teeth, for one-inch flat belt, per dozen	15
21350 A	15	" " " " with three rows of teeth, for one-inch flat belt, per dozen	15
21351	—	Wire Belt Hooks, for $\frac{9}{32}$-inch round belt, per five hundred ($\frac{1}{4}$ cent each in quantities less than five hundred)	50
21360	—	Drive Bushing (ground, $\frac{7}{8}$ inch long, external diameter .319, .322, .325, and .328) for needle bar bearings	15
21375 A	26	Oil and Belt Guard	1 00
21375 H	26	Oil Guard	75
		" " Screws No. 93	04
21388	15	Wrench ($\frac{3}{8}$ inch, $3\frac{1}{2}$ inches long, hardened) for nuts, Nos. 18, 34, 37 L, 37 R, and 1280	15
21388 B	15	" ($\frac{1}{2}$ inch, $4\frac{3}{8}$ inches long, hardened) for needle lever connection tube nuts	20
21388 F	27	" steel handle, for nut No. 5144	15
21394	—	Grinder Frame, including emery wheel (five inches diameter and $\frac{1}{4}$-inch face, unless otherwise specified) speed of wheel should be 3000 revolutions per minute	3 50
‡ 21400	—	Expansion Reamer, complete, sizes .257, .260, .263, .266, .270, .273 and .276 for needle bar	4 50
‡ 21408	—	" " complete, sizes .319, .322, .325 and .328, for presser bar and presser guide bar	5 50
‡ 21420	—	Expansion Reamer, complete, sizes .407, .410 and .413, for feed rocker shaft, feed bar shaft and looper rock shafts	6 00
‡ 21426	—	" " complete, sizes .530, .533 and .536, for main shaft	7 50
21442	—	Taper Reamer, complete, for needle bar link pins and feed crank link pin	1 50
21508	—	Tap (marked H2) for No. 22525	50
21509	—	" (marked J2) for No. 22526	50
21513	—	" (marked Q2) for No. 86 A	50
21518	—	" (marked X2) for No. 22521	50
22521	—	" large size, for cloth plates (tap No. 21518)	08

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22524	—	Screw, for stationary knife clamping plate, for knife grinder	$0 05
22525	—	" large size, diameter $\frac{5}{32}$ inch, for throat plates (tap No. 21508)	05
22526	—	" large size, diameter $\frac{3}{16}$ inch, for throat plates (tap No. 21509)	05
22529	9	" for frame needle thread eyelet, also for Nos. 202 A, 723 A, and 21164	05
22539	—	" for main shaft sponge hole	10
22558	9	" for thread wire coupling, for Style C thread stand	04
22560	9	" for needle bar link pin spring, also for Nos. 21102 and 21102 B	03
22561	9	" for throat plate seam guide	04
22564 A	9	" for cloth plate extension spring latch	05
22565	9	Looper Set Screw, headless	06
22568	10	Screw, for frame border guide	10
22569	10	Clamp Screw, for needle bar bushings	05
22580	9	Screw, for thread guide holder, also for Nos. 21127 and 21196 A	03
22581	9	Screw, for frame border guide, also for Nos. 23306 B, 23306 G, and 23306 H	06
22585	9	" for differential feed dogs	04
22586	9	" for needle lever stud	05
22586 A	9	" for needle lever connection bearing spring	05
22587	10	" for needle lever connection bearings Nos. 1230, 1230 A, and 15430	05
22593	10	" for main feed dogs	05
22596	10	" for take-up frame	04
22597	9	" for eccentric pulley	03
22622	9	" for spool support on Style C thread stand	03
22728	10	" slotted, for pin support, for edging spool support	20
22735	10	Pivot Screw, for edge guide No. 5003	06
22743	9	Screw, for link pin, for differential feed bar link	03
22748	10	Looper Eccentric Adjusting Screw	08
22752	9	Set Screw, headless, for middle needle, for machines in Class 5100	05
23112 B	14	Plate Hemmer, $\frac{3}{8}$ inch, for Style 3000 F	2 50
		" Hemmer Screws No. 25 C	05
23173	14	Cloth Plate Edge Guide, for Style 3000 E	30
23173 A	14	" " " " for Style 3000 M	30

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23173 D	14	Cloth Plate Egde Guide, for Style 3000 Q.	$0 40
		" " " " Screws No. 25 C	05
23195	14	Throat Plate Edge Guide, for Style 5100 G.	30
		" " " " Screw No. 187 A.	04
23285 A	14	Folder, for Style 5000 L:	
23285 A-$\frac{1}{2}$	—	" for $\frac{1}{2}$-inch collarette.	12 00
23285 A-$\frac{5}{8}$	—	" for $\frac{5}{8}$-inch collarette.	12 00
23285 A-$\frac{3}{4}$	—	" for $\frac{3}{4}$-inch collarette.	12 00
23285 A-$\frac{7}{8}$	—	" for $\frac{7}{8}$-inch collarette.	12 00
23285 A-1	—	" for one-inch collarette.	12 00
23286 A	14	Folder, for Style 3000 P:	
23286 A-$\frac{5}{8}$	—	" for $\frac{5}{8}$-inch collarette.	12 00
23286 A-$\frac{3}{4}$	—	" for $\frac{3}{4}$-inch collarette.	12 00
23286 A-$\frac{7}{8}$	—	" for $\frac{7}{8}$-inch collarette.	12 00
23286 A-1	—	" for one inch collarette.	12 00
		" Screws No. 25 C.	05
23306	21	Frame Border Guide, complete, for Style 3000 Q.	3 00
		" " Guide Screws No. 22581	06
23306 A	21	" " Guide, also for Nos. 23306 E and 23306 G	1 00
		" " Guide Screw No. 22568.	10
23306 B	21	" " Guide Support.	2 00
		" " " Support Screws No. 22581.	06
23306 E	21	" Edging Guide, upper, complete, for Style 5000 M	1 75
		" " Guide Screw No. 719.	04
23306 F	21	" " Guide Support, upper, for Style 5000 M.	75
		" " Guide Support Screw No. 719.	04
23306 G	21	" " Guide, lower, complete, for Style 5000 M.	3 00
		" " Guide Screw No. 22581.	06
23306 H	21	" " Guide Support, lower, for Style 5000 M.	2 00
		" " Guide Support Screw No. 22581.	06
23307	22	Border Tension Guide, complete.	5 50
23307 A	22	" " Guide, upper.	1 00
		" " Guide Screws No. 15438 D.	06
23307 B	22	" " " Spring, arched.	15
		" " " Spring Retaining Screw No. 605.	05
23307 C	22	" " " Spring Screw Regulator.	25
23307 D	22	" " " Spring Screw Regulator Support.	40
		" " " Spring Screw Regulator Support Screws No. 87 U.	04
23307 E	22	" " Guide, lower.	1 25
23307 F	22	" " Guide Support.	60
		" " " Support Set Screws No. 98.	03

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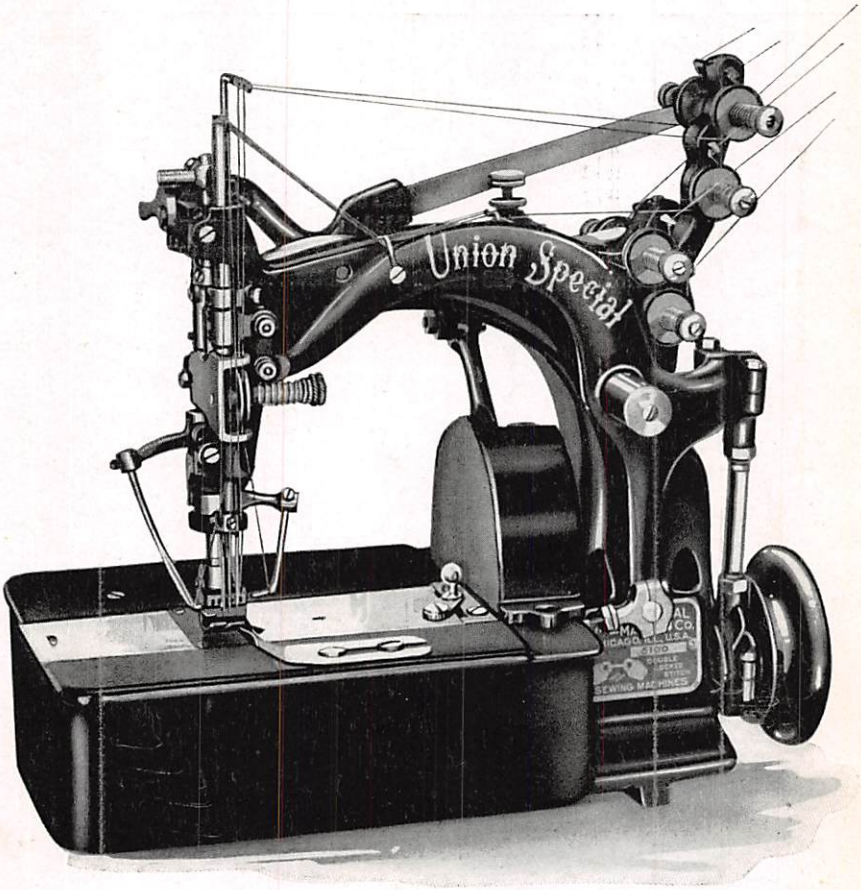
23307 G	22	Border Tension Guide Support Bracket	$1 00
		" " " Support Bracket Set Screws No. 98	03
23307 H	27	" " " Wire	20
		" " " Wire Set Screw No. 88	03
29051 A	—	Nos. 59 S and 15430, assembled and lapped together	3 00
29066 B	—	Nos. 1230 and 156, assembled and lapped together	1 80
29110	—	Nos. 716 and 712, assembled and lapped together	4 10
29110 A	—	Nos. 5064 and 712, assembled and lapped together	4 10
29301 B	—	Nos. 3015 A and 1275 A assembled and lapped together	3 65
29402	—	Nos. 422, 98, 423 and 424, assembled	40



Machine Style 5100 H