INSTRUCTIONS FOR

FLAT BED MACHINES

CLASSES 80000 and 81000

WITH

ILLUSTRATIONS

AND

PRICE LIST OF PARTS FOR REPAIR ONLY

CATALOG No. 38

UNION SPECIAL MACHINE COMPANY CHICAGO, ILLINOIS

BRANCH OFFICES

NEW YORK PHILADELPHIA BOSTON AMSTERDAM, N. Y. COHOES, N. Y. ROCHESTER, N. Y. UTICA, N. Y. CINCINNATI ST. LOUIS MINNEAPOLIS SAN FRANCISCO JOHNSON CITY, N. Y. TORONTO MONTREAL

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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.

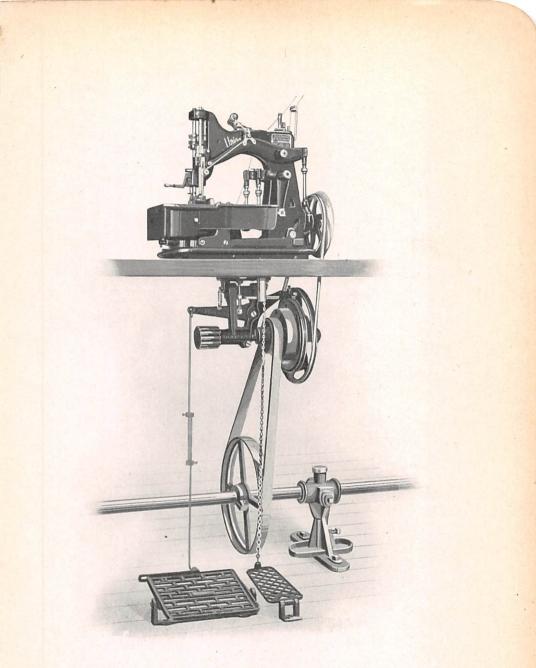
CONTENTS

The matter of this catalog relates only to machines in Classes 80000 and 81000, 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 known as Catalog No. 29, copies of which will be supplied on request.

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STYLE 81000A—READY TO OPERATE The Method of Installing Other Machines Listed in this Catalog is the Same as for Style 81000A.

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. Machines in Class 80000 are extensively known as the "Antaeus" machine. Machines in Class 81000 are extensively known as the "Herakles" machine.

STYLES OF MACHINES IN CLASS 80000

Flat Bed Single Needle Machines Style 80000A—For seaming bags, double thread stitch. 80000B—For seaming bags, single thread stitch. 80000C—For hemming bags, double thread stitch. 80000D—For hemming bags, single thread stitch.

STYLES OF MACHINES IN CLASS 81000

Flat Bed Single Interlock Machines

81000A—For seaming bags, with rotary take-up.81000B—For seaming bags, without rotary take-up.

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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 page 6.

	Revolutions		Revolutions
Style	Per Minute	Style	Per Minute
80000 A	1800	81000	A1600
80000 B	1800	81000	B1600
80000 C	1800		
80000 D	1800		

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 3/16-inch and 1¹/₂-inch bore and 1¹/₂-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, ten inches in diameter.

Belts A one-inch flat belt transmits power from the line shaft to the transmitter, and a 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 11 and 12. If necessary to cross a belt, the round belt should be crossed.

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INSTALLATION

Fastening Machine to Table An iron base plate with three points of table contact is placed under the machine, to counteract any unevenness. The distance from the edge of the table to the base plate varies, however, usually it is 15/s inches. Having located the base plate as desired, mark the table under the 7/16-inch hole, also under the slot provided for the foot lift chain to pass. Remove the base plate and bore a 7/s-inch hole at the former marking and remove the wood at the latter marking. Replace the base plate and fasten the machine upon it with the bed screw, correct the position of the base plate so that the bed screw passes centrally through the hole in the table. Carefully remove the machine and fasten the base plate to the table with 13/4-inch wood screws.

Caution Before permanently fastening the machine to the base plate, the surfaces must be carefully cleaned to prevent the main shaft from being sprung out of alignment, with consequent heating of the bearings.

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 so 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

INSTALLATION

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 ¹/₄-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 7/₈-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 underside 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 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.

Foot Lifter 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 treadle should be placed to the right of the transmitter treadle.

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OPERATING

In isolated factories where operators have but scant Simplicity 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 Needle The needle has two grooves: A short groove extending from the shank to a point about $\frac{1}{2}$ -inch above the eye and a long groove extending from the shank to the eye.

Insert the needle as far up into the needle bar as it will go, with the long groove in front, so that the eye of the needle will be in line with the direction of the stitching. Then tighten the clamp nut with the wrench 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.

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.

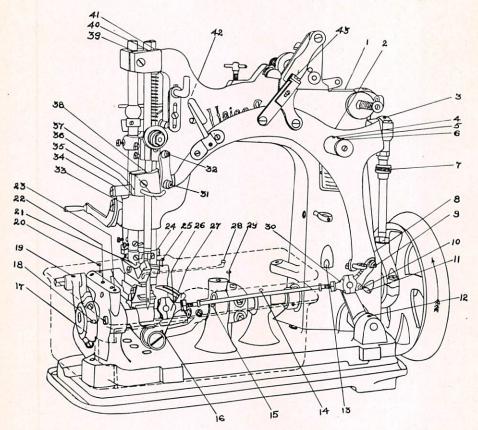
When systematically performed, oiling can be done without possibility of missing any place, and in a surprisingly short time.

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.

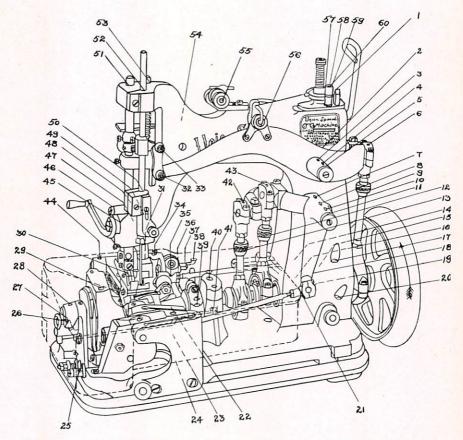
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OILING DIAGRAM



Sectional Diagram—Showing Oiling Places for Machines in Class 80000

OILING DIAGRAM



SECTIONAL DIAGRAM—SHOWING OILING PLACES FOR STYLE 81000 A The Method of Oiling Style 81000 B is approximately the same.

OPERATING

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 Remove the needle to avoid blunting its **Cloth Plate** point. Turn the pulley in the operative direction until the needle bar is at its lowest position. Remove the screws which hold the cloth plate to the base. 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. HA 118, is furnished for drawing the looper thread under the cloth plate.

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 A shows the method of threading Styles 80000 A and 80000 C.

OPERATING

The method of threading Style 80000 B and 80000 D is the same as for Styles 80000 A and 80000 C with the elimination of the looper thread.

Diagram B shows the method of threading Style 81000 A. The method of threading Style 81000 B is the same as Style 81000 A, with the exception that the looper thread is guided through the eyelet positioned at the point marked K, in the diagram, then through the eyelet positioned at the point marked L, in the diagram, then between the tension discs, over the tension post, under the roller and through the looper.

Turning to Diagram A, it will be noted that the needle thread is guided from the thread stand to the eyelet marked A in the diagram, then between the discs and around the tension marked B, through eyelet marked C, between the nippers marked D, over the guide marked E, underneath its wire, under the hooked end of wire marked F, over wire marked G, under wire marked H, between the discs marked J, under the wire marked K and through the eye of the needle.

The looper thread is guided from the thread stand to eyelet marked L, in the diagram, between the discs and over the tension marked M, through the eyelet marked N, through the eyelet marked P, through the eyelet marked Q and through the looper.

Turning to Diagram B, it will be noted that the needle thread is guided from the thread stand to the thread guiding wire marked A, in the diagram, then through eyelet marked B, between the discs, around tension posts marked C, in front of thread roller marked D, under wire marked E, over roller marked F, back to roller marked G, then around roller marked H, and through the needle eye.

The looper thread is guided from the thread stand to the eyelet fastened in the foot lift lever marked J, in the diagram, then through the eyelet in the base of the frame, then in front of the pin, through the right-hand thread guide Cat. No. HS 103 A, the pull-off Cat. No. HS 105, the left-hand thread guide Cat. No. HS 103 A marked K, over the pin marked L, between the discs, and around the tension post marked M, through the thread guide marked N, through the thread guide marked P, and through the looper.

THREADING DIAGRAM

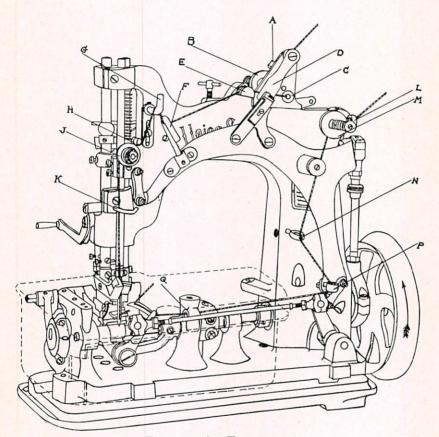


DIAGRAM A-THREADING

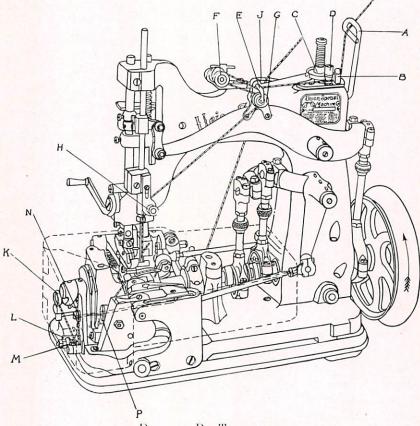


DIAGRAM B-THREADING

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ADJUSTMENT, INTRODUCTORY

These instructions were formulated to meet average conditions. A slight deviation from them is permissible, however, the best results can be secured by following them.

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 needle.

(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.

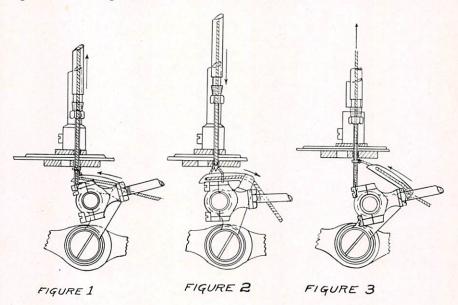
(8) See that the machine feeds the work correctly.

(9) Examine thread eyelets 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.

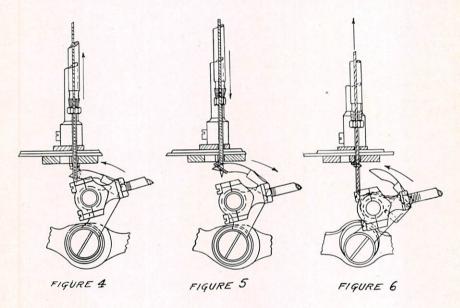
Caution The machine should be turned by hand to detect binds or contacts before being operated by power.

Formation of the Double In the formation of the stitch, **Thread Stitch** In the needle carries its 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 a loop which the looper, with its thread, enters in passing from right to left, as shown in Figure 1. When the needle is 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 needle. The looper still continuing to retain the loop of needle thread in its movement to the right, the needle again descends and enters 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 thread extending from the fabric and around the looper, as shown in Figure 2. The looper continues its movement to the right, backs out of the needle thread loop, leaving the stitch around the needle which is then drawn up against the lower side of the fabric, as shown in Figure 3. The looper finally rocks toward the rear of the machine, completing its movement.

Formation of the Single In the formation of the stitch, **Thread Stitch** the needle carries its 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 a loop, which the looper enters in passing from right to left, as shown in Figure 4. The needle again descending, carries its thread through this loop, as shown in Figure 5. The looper, continuing to return to the right, leaves the stitch on the needle, as shown



in Figure 6. The needle, again ascending, recedes from the stitch, which is tightened in the fabric by the action of the looper as it forms the next stitch.

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 needle should be $\frac{3}{8}$ -inch (10 m/m). This adjustment is obtained by turning the looper connection rod. To loosen nuts, use wrench, No. 21388, and turn them from the operator. When tightening the nuts, care should be taken that the ball joints do not bind.

When the looper moves to the left to take the needle loop, it should have free space as it passes the needle. Should it strike the needle, the result would be a broken needle and sometimes a broken looper. If it be set as far away as 1/32 inch from the needle, skipped stitches would result. The best adjustment for average work is a scant 1/100-inch space between the looper point and the back of the needle. A small piece of paper placed to the left of the needle as a background, will be of great assistance in making this adjustment. To change the position of the looper with respect to the back of the needle, loosen the two screws which secure the looper eccentric fork to the looper rock shaft. This permits the looper, with 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 needle to enable the needle, as it descends, 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.

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 needle. Then, the needle bar should be positioned so that the entire eye appears 1/32 inch below the underside of the looper. To avoid a large variable loop, difficult for the looper to enter, the needle bar should not be set too low.

Needle Guard This member is attached to the feed bar. Its purpose is to force the needle into proper position if it glances toward the rear of the machine in passing through the fabric. It should be set so that its vertical face barely touches the back of the needle when it is at its farthest position toward the front of the machine. The screw hole is elongated to permit of this adjustment. It must be readjusted each time the length of stitch is altered to maintain the correct adjustment with respect to the back of the needle.

To Regulate Length Attached to the left-hand end of the of Stitch feed rocker will be found a stud connected to the feed rocker eccentric connection. It is by changing the position of this stud that the length of stitch can be altered. Lowering the stud lengthens the stitch, raising the stud shortens the stitch. It will be necessary to loosen the nut before the stitch can be altered.

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Presser Feet Two presser feet are employed working independently of each other to provide a uniform pressure to the fabric. The right-hand presser foot is an auxiliary to the stitch forming mechanism, while the left presser foot provides the necessary pressure to feed properly the fabric.

The pressure applied to each presser foot is independently controlled. The flat spring on the upper rear side of the frame furnishes pressure for the left foot. The spiral spring furnishes pressure for the right foot.

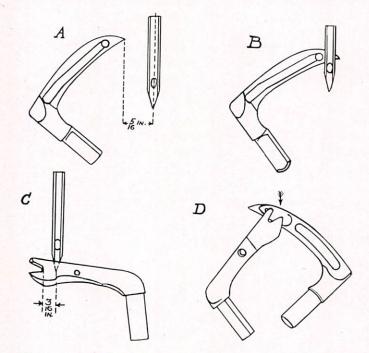
To increase the pressure for the left foot, turn the screw operating against the flat spring to the right; to decrease the pressure turn it to the left. To increase the pressure for the right foot, loosen the screw in the coiled spring support and force the support upward; to decrease the pressure, force the support downward. A slight adjustment upward or downward of the guiding fork is necessary after any change is made in the coiled spring support. The right foot should be adjusted so that its bottom will be approximately 1/32-inch higher than the bottom of the left foot.

Feed Dog In order to enable the machine to feed the fabric properly, it is important that the feed dog be set at 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. The feed dog should be so set that the top of its teeth will rise about $\frac{1}{8}$ inch above the surface of the throat plate.

While the teeth of the feed dog should be sufficiently sharp to feed the fabric properly, it is quite possible for them to be so highly sharpened as to cut the thread forming the stitches on the underside 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 the 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.

Formation of Stitch In the formation of the stitch, the needle carries its 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 a loop which the looper with its thread enters in passing from left to right. When the looper has reached the end of its stroke to the right the spreader rises and engages the thread at the rear of the looper and carries it to the left of the needle. The needle enters the loop of thread thus formed which is tightened in the fabric by the action of the looper as it forms the next stitch.

Looper The position of the point of the looper with respect to the needle is important that the looper may enter the loop in the needle thread at the proper interval of time. When the looper is at its farthest point to the left, the point of the looper should be 5/16



inch $(8\frac{1}{2} \text{ m/m})$ from the center of the needle, as shown in illustration A.

This adjustment is obtained by turning the looper connection rod. To loosen nuts use wrench, No. 21388, and turn them from the

operator. When tightening the nuts, care should be taken that the ball joints do not bind. When the looper moves to the right to take the needle loop, it should have free space as it passes the needle. Should it strike the needle, the result might be a broken needle and sometimes a broken looper. If it be set as far away as 1/32 inch from the needle, skipped stitches would result. The best adjustment for average work is a scant 1/100-inch space between the looper point and the back of the needle.

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

The position of the looper with respect to the back of the needle can be altered to permit the use of large or small needles, by adjusting the looper carrier bracket. To accomplish the adjustment, loosen the two screws (Catalog No. 318), which will be found on the underside of the frame of the machine. To decrease the space between the back of the needle and the looper, force the rear end of the looper carrier bracket to the left. To increase the space, force the rear end of the looper carrier bracket to the right. After any adjustment is made, see that the two screws (Catalog No. 318) are tightened.

Needle Bar Turn the pulley in the operative direction until the looper starts to move to the right and its point is 3/64 inch (1 m/m) beyond the right-hand side of the needle. Then, the needle bar should be positioned that the entire eye appears below the underside of the looper, as shown in illustration B, page 22. To avoid a large variable loop, difficult for the looper to enter, the needle bar should not be set too low.

Spreader The spreader should be set so that it will pass the looper as closely as possible without striking, and so its point will pass through the center of the groove at the rear of the looper, as shown in illustration D, page 22. When the spreader has completed its stroke to the left, the center of the groove of the spreader should be 3/16 inch (5 m/m) away from the center of the needle, as shown in illustration C, page 22. This adjustment is made by turning the spreader connection rod. Loosen the nuts and turn them from the operator. After making the adjustment tighten the nuts, care being taken that the ball joints do not bind.

Needle Guard This member is attached to the feed bar. Its purpose is to force the needle into proper position if it glances toward the rear of the machine in passing through the fabric. The guard should be set so that its vertical face barely touches the back of the needle when it is at its farthest position toward the front of the machine. The screw hole is elongated to permit of this adjustment. It must be readjusted each time the length of stitch is altered to maintain the correct adjustment with respect to the back of the needle.

To Regulate the Attached to the right-hand end of the feed **Length of Stitch** rocker will be found a stud connected to the feed rocker eccentric connection. It is by changing the position of this stud that the length of stitch can be altered. Lowering the stud in the slot of the feed rocker lengthens the stitch. Raising the stud in the slot shortens the stitch. It will be necessary to loosen the nut before the stitch can be altered.

Thread Take-Up The thread take-up is attached in the end of the spreader carrier shaft. Its purpose is to engage the looper thread and earry it to the left of the needle so as to prevent the looper thread from interfering with the needle loop as it is formed, and also to hold the looper thread rigid enough to permit the spreader to enter the loop formed on the back of the looper. The thread take-up should be set as high as possible without striking the feed dog or the throat plate and with its point to the right. It should also have free space as it passes along the back of the looper.

Take-Up and Near the end of the main shaft of machine **Cast-Off Wire** Style 81000 A 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 spreader is returning to the right.

(2) It holds the looper thread taut while the spreader is entering the loop formed in the back of the looper.

The cast-off wire should be set so as to release the thread from the take-up when the point of the looper is even with the left-hand side of the needle. If it holds the thread too long, the cast-off wire should

be moved toward the operator, if it does not hold the thread long enough, the cast-off wire should be moved from the operator.

The adjustment is made by loosening the screw on the side of the cast-off wire and moving it forward or backward by means of the adjusting screw in the front end of the cast-off wire.

After any adjustment has been made, be sure that the screw is tightened.

Thread Pull-Off The thread pull-off for the looper thread is actuated from the end of the main shaft. Its purpose is to draw sufficient thread from the spool to complete the stitch. Lowering the pull-off increases the amount of thread drawn from the spool. Raising the pull-off acts the reverse.

Presser Feet The method of adjusting the presser feet is the same as for Class 80000 machines (see page 21).

Edge Guide In addition to its duty as an edge guide, it serves to support a tongue. The tongue should be set sufficiently forward to facilitate forming the chain of stitches.

Feed Dog The method of adjusting the feed dog is the same as for Class 80000 machines (see page 21).

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 and its principal uses will be found to give all necessary information. Where a part is used on all machines, 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 single dagger in the "Number to order by" column indicates that the part belongs to an obsolete type of machine.

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 all 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. Regular postage rates will be charged on all goods sent by mail.

26

NEEDLES

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

100 Needles, Round Shank, No. 12 Herakles Square Point. 100 Needles, Round Shank, No. 12 Antaeus Square Point.

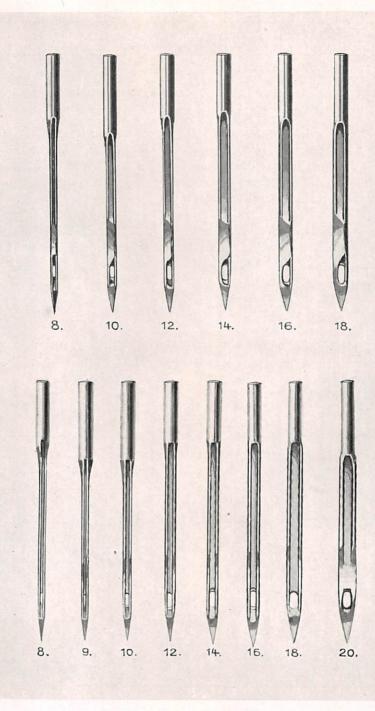
Success in the operation of these machines can be assured only by the use of genuine Union Special Needles, furnished by the Union Special Machine Company. Obviously, it is to our interest to maintain the reputation of the machines by furnishing the very best needles obtainable.

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 for 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.

Size and Kind Machines in Class 80000 use Antaeus square point needles. Machines in Class 81000 use Herakles square point needles. The needles increase in size, as follows: 8, 9, 10, 12, 14, 16, 18.

NEEDLE PRICES

HERAKLES SQUARE POINT NEEDLE



ANTAEUS SQUARE POINT NEEDLE

PLATE No. 1-Full Size.

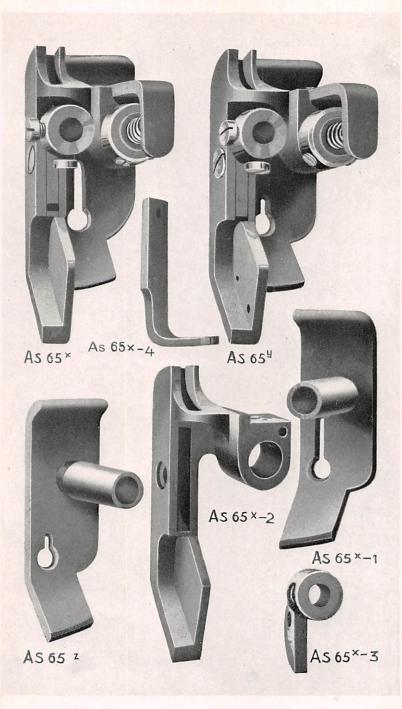


PLATE No. 2-Full Size.

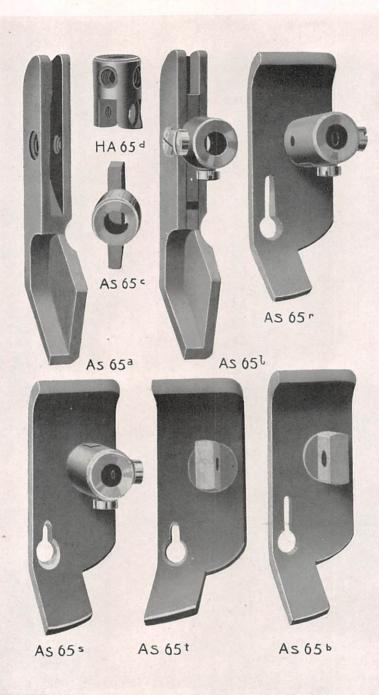


PLATE NO. 3-Full Size.

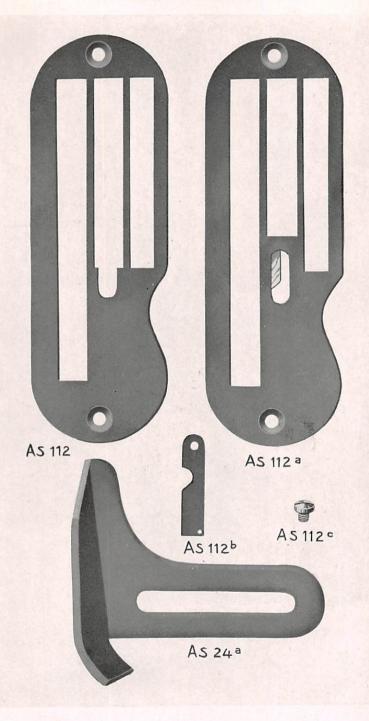


PLATE No. 4-Full Size.

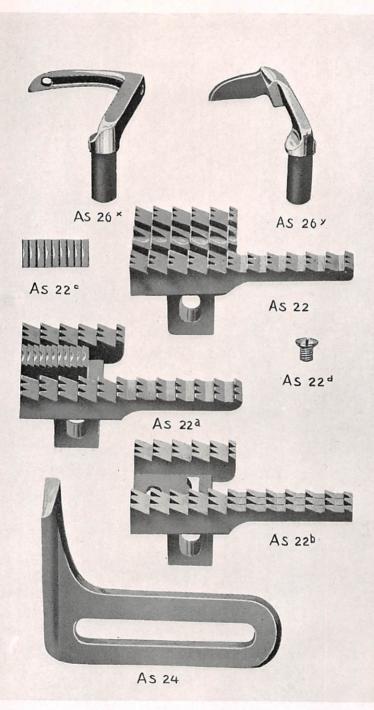


PLATE No. 5-One-half Size.



AS 124









D As129

AS 130







AS 132









PLATE NO. 6-One-half Size.

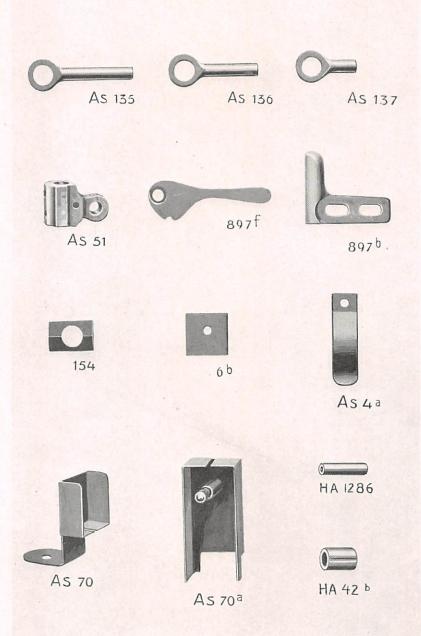
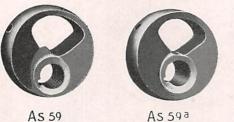


PLATE NO. 7-One-half Size.



AS 59a

AS 436



AS 43







AS 386

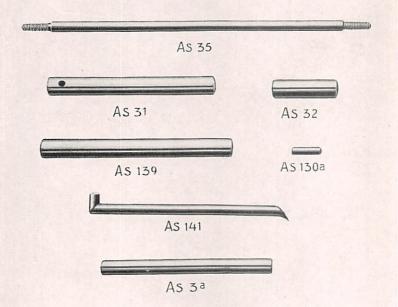
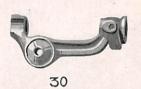


PLATE No. 8-One-third Size.







As 24 b



AS 122



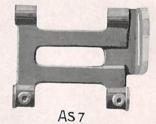
A\$ 113



AS 121



AS 9





AS 123

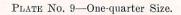


897ª



AS7a

AS 6



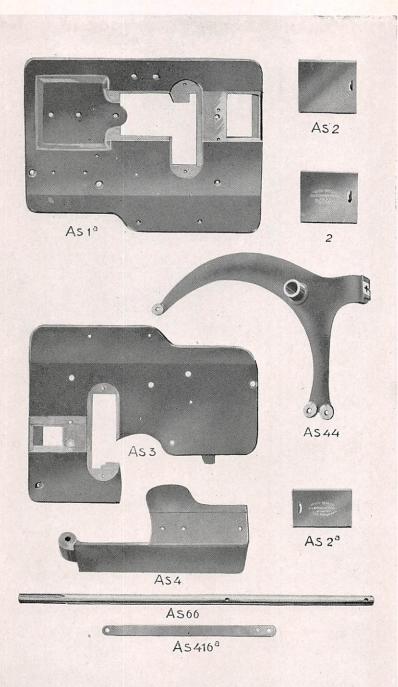


PLATE NO. 10-Full Size.

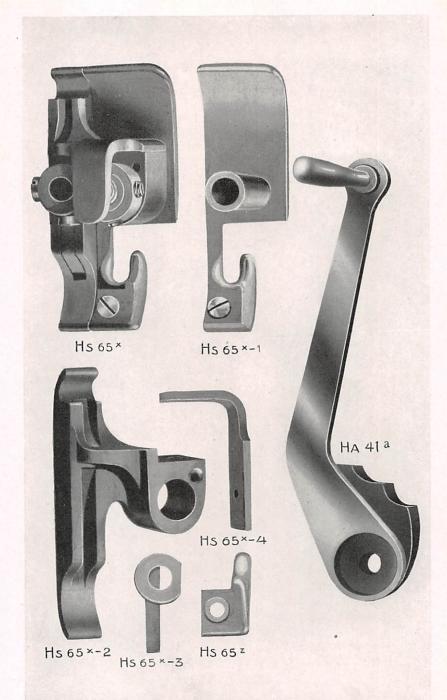


PLATE No. 11-Full Size.

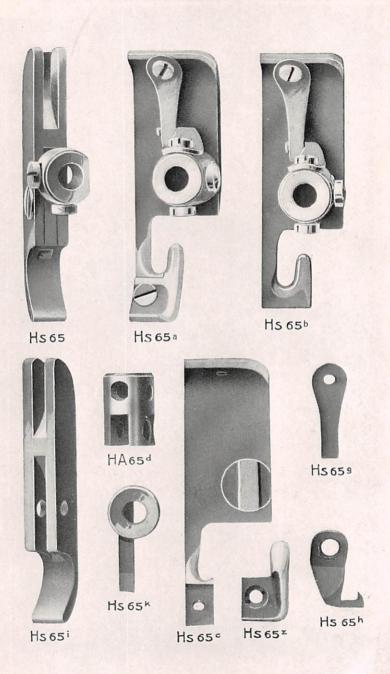


PLATE No. 12-Full Size.

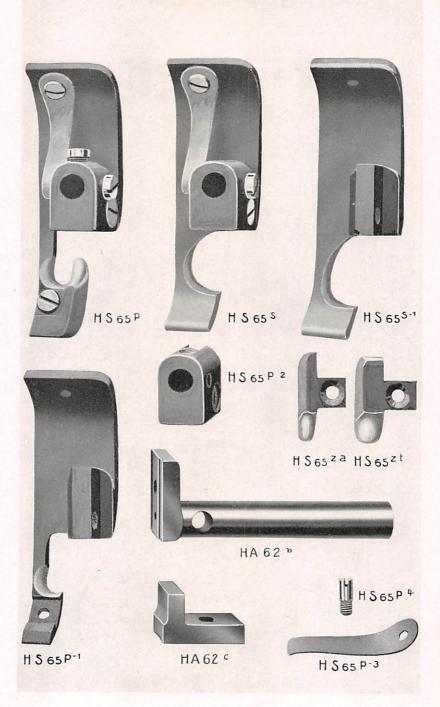
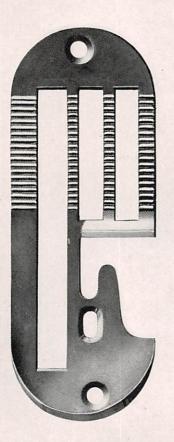


PLATE NO. 13-Full Size.





HS 112



Hs 112°-12 Hs 112°-16





HA 9^b

PLATE NO. 14-Full Size.

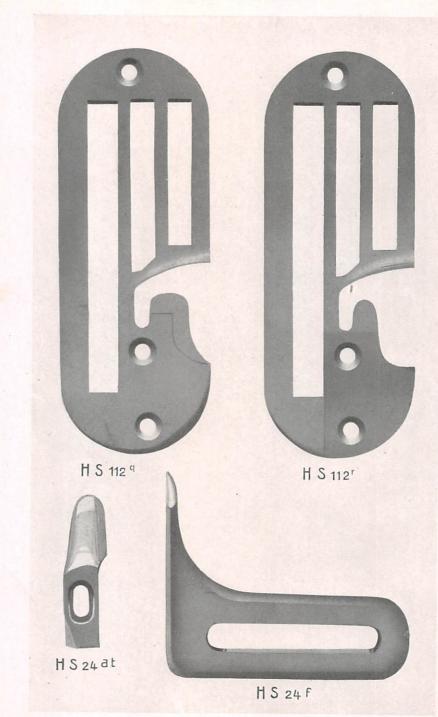


PLATE No. 15-Full Size.

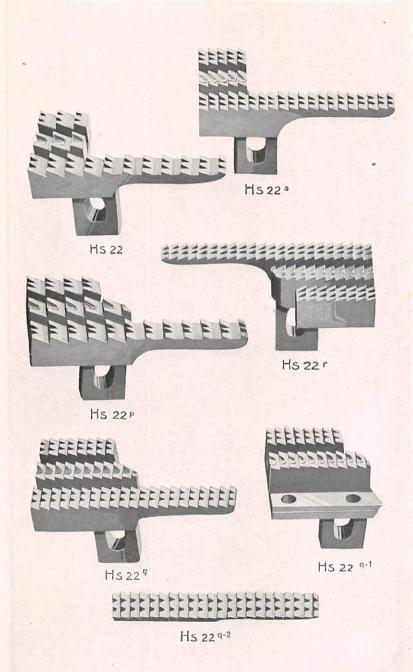


PLATE No. 16-Full Size.

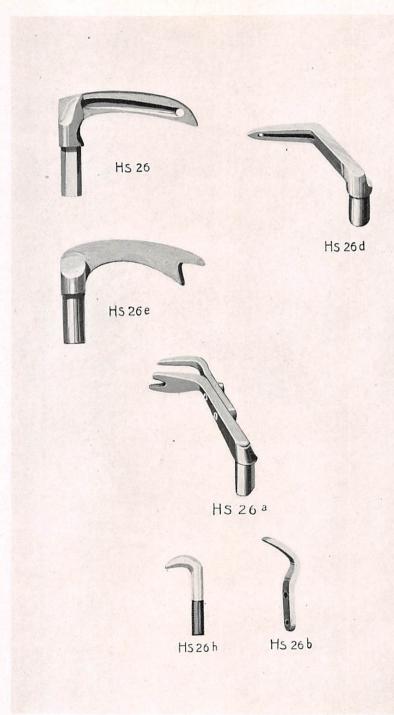
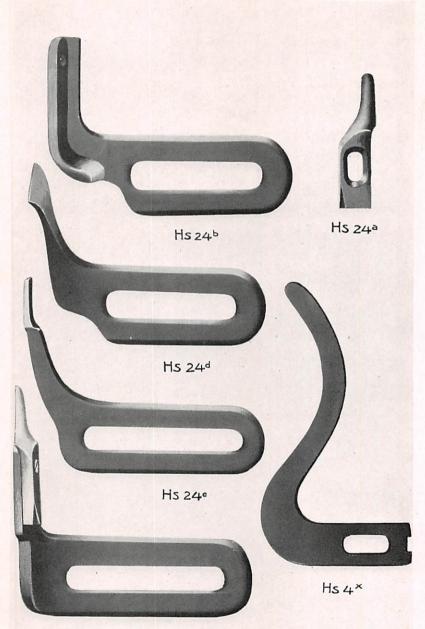


PLATE No. 17-Full Size.



HS 24

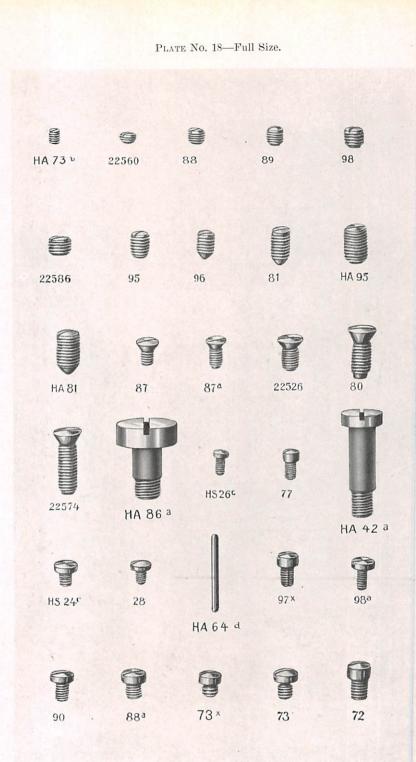


PLATE No. 19-Full Size.

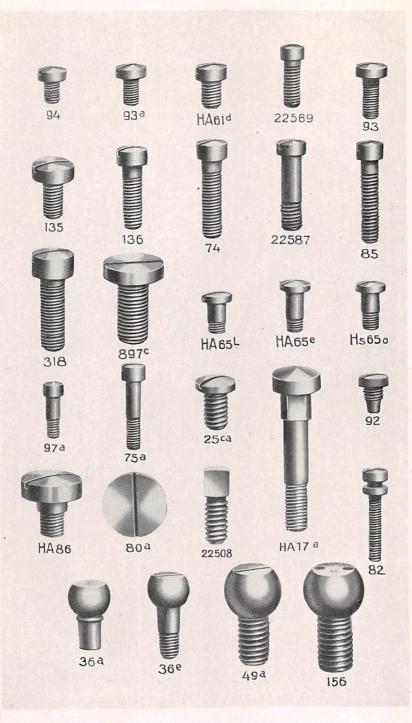


PLATE No. 20-Full Size.

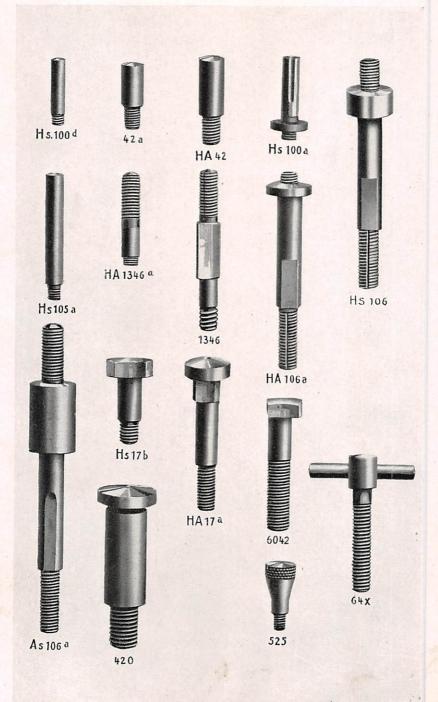


PLATE No. 21-Full Size.



PLATE NO. 22-Full Size.









HS 105 °



Hs 113 °

Hs 100 °

HS 100 b

Hs 53 °



Hs 1029





HS 16 b

Hs 27



Hs 58 b



HA 1347 ª



HA 1349

Hs 361

C

HA 102ª



HA 103 b





AS 31ª







Hs 36^k

HA 12873



Hs 48°



HA 86 b



HS 1096



HA 20ª

PLATE No. 23-Full Size.

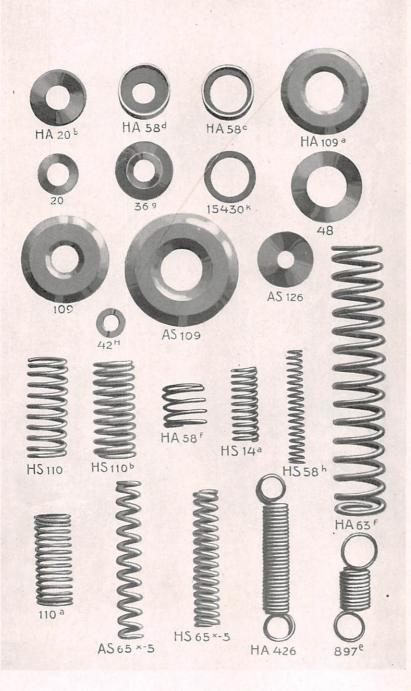


PLATE NO. 24-Full Size.

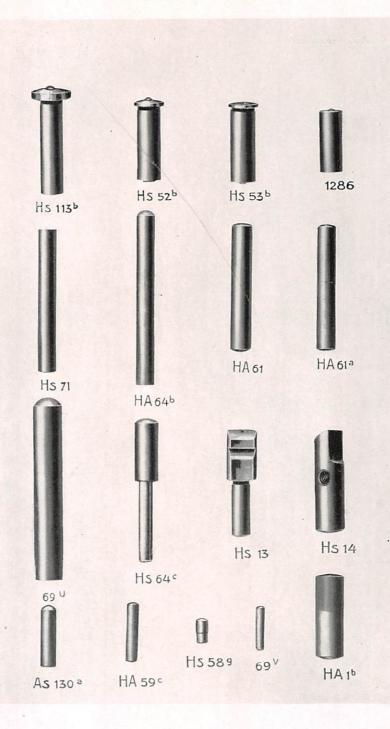


PLATE No. 25-One-half Size.







HS 52



Hs 52 a



HS 100



Hs 100e



Hs 53



HS 53ª



HS 57



HS 58 ª



HS 103ª

HS 105

HS 105 b



154

PLATE No. 26-One-half Size.

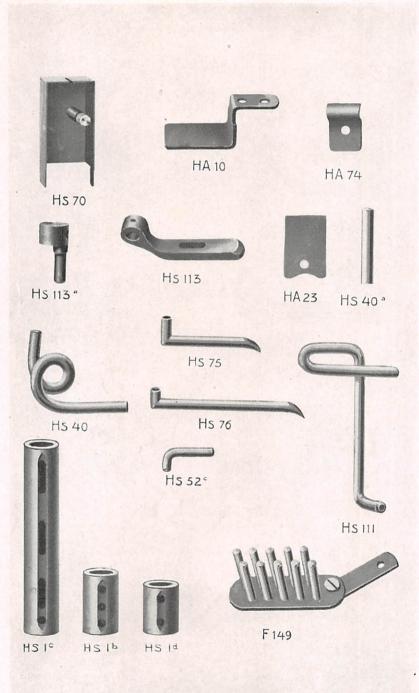


PLATE No. 27-One-half Size.

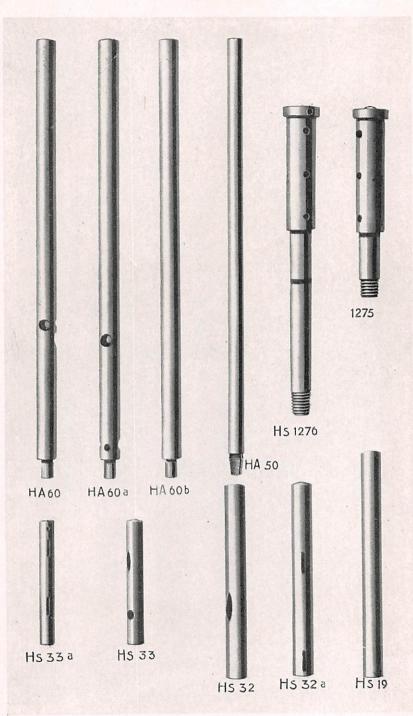


PLATE No. 28-One-half Size.

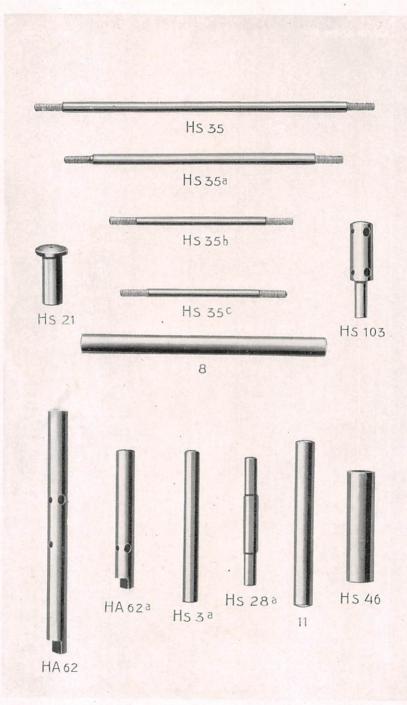


PLATE No. 29-One-half Size.



HS 59b



Hs 59a



HS 38



HS 38a



HS 30



HS 31



HS 12



HS 11a



HA 54 a





PLATE No. 30-One-half Size.



HS 36Z

360

36 f

PLATE No. 31-One-third Size.

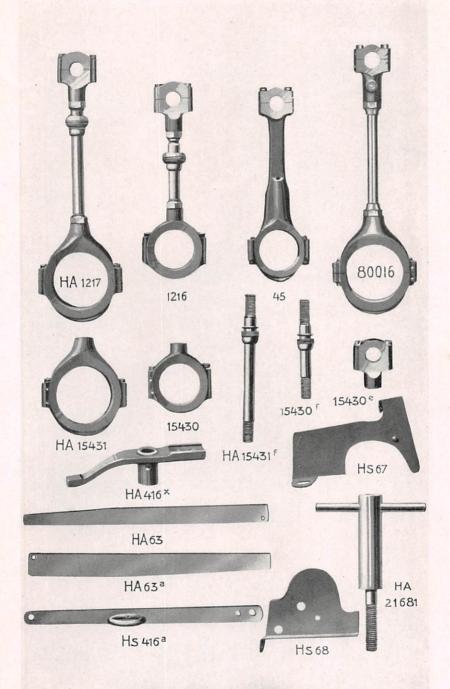


PLATE No. 32-One-third Size.

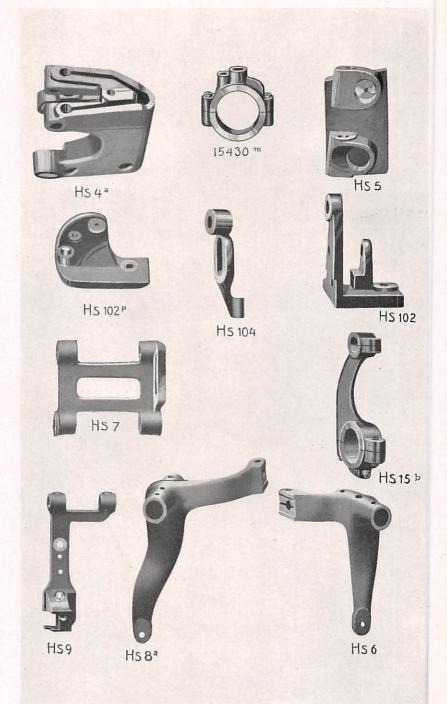
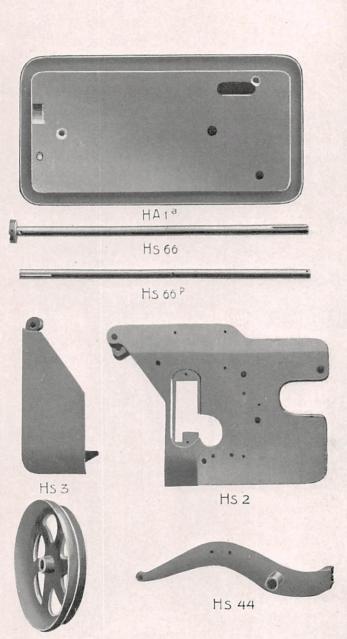
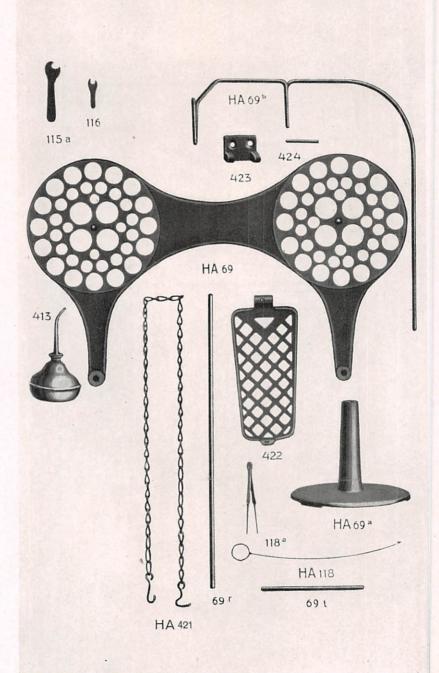


PLATE No. 33-One-fifth Size.



HA 59



[AS1A-AS9] PRICE LIST OF PARTS

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

Numbe <mark>r to</mark> 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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
		Parts for Class 80000 Machines	
AS 1 Å	9	Cloth Plate, for Styles 80000 C and 80000 D	\$4 5
		" " Screws No. 22574	0
		"" "Screw, fillister head, No. 93	0
HA 1A	33	Base Plate	4 0
HA 1B	24	Base Plate Pin	0
HS 1B	26	Bushing (ground, length over all 11/4 inches) for	
		main shaft	5
HS 1C	26	" (ground, length over all 37% inches) for	
		main shaft	1 0
2	9	Cloth Plate Slide, right, for Styles 80000 C and	
		80000 D	4
AS 2	9	" " left, for Styles 80000 C and	
		80000 D	5
AS 2A	9	Cloth Plate Slide, for Styles 80000 A and 80000 B	4
HA 2A	21	" " Oil Hole Cover	2
AS 3	9	Cloth Plate, for Styles 80000 A and 80000 B	4 0
110 0		" " Screws No. 22574	0
	Sec. De	" Screw, fillister head, No. 93	0
AS 3A	7	" " Extension Pin	2
AS 4	9	" " " Extension	2 0
		··· ·· ·· Screw No. 89	- 0
AS 4 A	6	Cloth Plate Extension Spring Latch	1
no in		" " Screw No. 94	0
5	21	Collar, for main shaft	2
		" Screws No. 95	0
AS 6	8	Looper Eccentric Fork, with shoes	8
AD 0		" Clamp Screw No. 85	0
	1000	" " Set Screws No. 72	0
6 B	6	" " " " " " " " " " " " " " " " " " "	1
0.D	0	"" "Strew No. 94	0
AS 7	8	Feed Rocker, maximum length of stitch 1/2 inch.	1 3
AS 7 A	8	"" " maximum length of stitch 3/4 inch	1 3
AS / A	0	" " " " " " " " " " " " " " " " " " "	1 0
8	28	" "Shaft (5 3/16 inches long, hardened	0.
	40	and ground), sizes .407, .408, .410,	
	10.50	.413 and .416	4
10 0	0		1 0
AS 9	8	Feed Bar	10

63

PRICE LIST OF PARTS [HA9B-30]

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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
		Parts for Class 80000 Machines	
HA 9B	13	Feed Bar Needle Guard (hardened)	55
		··· ·· ·· ·· Serews No. 93 A	04
HA 10	26	Feed Prong	35
		·· ·· Screws No. 93 A	. 04
11	28	Feed Bar Shaft (3 7/16 inches long, hardened and	
		ground) sizes .407, .408 and .410	40
16	21	Feed Connection Ferrule (hardened and ground)	3(
HA 17 A	19	Stitch Regulating Stud	25
18	21	Nut (hardened) for looper connection rod ball joint,	
		No. 36 R, also for Nos. AS 70 A, 897 F and	
		НА 1346 А	10
HA 18 A	21	Stitch Regulating Stud Nut (hardened)	- 1(
20	23	Washer, for No. 36 R	03
HA 20 A	22	Stitch Regulating Stud Washer (7/32-inch hole)	05
HA 20 B	23	" " Washer (1/4-inch hole)	0
AS 22	4	Feed Dog, for Styles 80000 A, 80000 B, 80000 C	
		and 80000 D	53
		" " Screws No. 93	04
AS 22 A	4	" " with separable center section	1 25
		" " Screw No. 93	04
AS 22 B	4	" " without separable center section	80
	1	. " " Serew No. 93	04
AS 22 C	4	Center Section, for feed dog No. AS 22 A	4(
AS 22 D	4	··· ·· Serew	03
HA 23	26	Feed Bar Shoe (hardened and ground)	18
		" " " Screw No. 93 A	04
AS 24	4	Cloth Plate Edge Guide	3(
AS 24 A	3	" " " for Styles 80000 A and	
		80000 B	40
	Sec. 1	" " " Serew No. 25 CA	08
AS 24 B	8	Cloth Plate Edge Guide	1 0
AS 25		** ** ** ** Serew	, 10
25 CA	19	Serew, for cloth plate edge guides Nos. AS 24 and AS 24 A	08
AS 26 X	4	Looper, for Styles 80000 A and 80000 C	1 0
AS 26 Y	4	" for Styles 80000 B and 80000 D	1 0
AS 29	8	" Rocker (hardened)	8
30	8	" " Frame (hardened)	1 0
		" " Serew, left, No. 88	0
	1.5	"" " " right, No. 98	0:
		" " Spot Screw No. 96	0:

64

[AS 31-AS 43 B] PRICE LIST OF PARTS

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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
AS 31	7	Parts for Class 80000 Machines	
110 01		Looper Rocker Shaft (length over all 31/2 inches,	
AS 31 A	22	hardened and ground)	60
AS 32	-7	Thread Guiding Sleeve	25
10.01	1	Looper Rock Shaft (length over all 1% inches,	
33	91	hardened and ground)	30
34	21 21	Looper Rocker Stud (hardened)	35
AS 35		INUt	10
AS 35 36 A		Looper Connection Rod	55
36 B	19	Ball (hardened) for No. 36 L.	30
30 D	30	Shell, for No. 36 L	60
0.0 11	10	"-Screws No. 97 A.	04
36 E	19	Ball (hardened) for No. 36 R	35
36 F	30	Shell, for No. 36 R	60
	1	" Screws No. 97 A	04
36 G	23	Washer, for No. 36 R	10
$\ddagger 36 L$	30	Looper Connection Rod Ball Joint, left, complete.	1 25
$\ddagger 36 \text{ R}$	30	right, complete	1 25
		Screws No. 97A	. 04
37 L	21	" " Nut, left thread	10
$37~\mathrm{R}$	21	" " " right thread	10
AS 38 A	7	Looper Eccentric (ground) for machines using	
	1.1	needles sizes Nos. 12, 14, 16	
		or 18	60
AS 38 B	7	" (ground for machines using	
	1	needles sizes Nos. 8, 9, or 10.	60
		" " Screw No. 81	03
HA 41	30	Presser Foot Lifter (hardened) without handle	70
		" " Serew No. HA 86	15
HA 41 A	10	" " (hardened) with handle	2 00
		" " Screw No. HA 86 A	15
HA 42	20	" " Serew Pin (hardened)	12
42 A	20	Screw Pin, for hemming guide No. 897 A	10
HA 42 A	18	Presser Foot Lifter Roller Screw	15
HA 42 B	6	""""""""""""""""""""""""""""""""""""""	30
AS 43	7	Feed Rocker Eccentric (ground) for making 31/2	
		to 5 stitches per inch	70
AS 43 A	7	" (ground) for making 11/2	
		to 21/2 stitches per inch	70
AS 43 B	7	" (ground) for making 2 to	
		4½ stitches per inch	70
		" " Spot Screw, No. 96	03
		" " Set Screw, No. 95	03

65

PRICE LIST OF PARTS [HS 43 P-+HA 62 A]

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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
		Parts for Class 80000 Machines	
HS 43 P	- 30	Feed Cam (hardened and ground)	45
HA 43 X	30	" " (hardened and ground)	45
	1 34	Feed Cam Screw No. 96	03
AS 44	9	Needle Lever	2 80
47	21	" " Stud Nut	20
48	23	" " " Washer	03
HA 50	27	Needle Bar (hardened and ground)	1 60
		· · · · · Set Screws No. 94	04
AS 51	6	" " Connection	55
HA 54 A	29	" " Link (hardened) also for No. AS 122.	90
HA 56	21	Needle Clamp Nut (hardened)	15
HA 58 C	23	Needle Bar Thread Tension Ferrule (13/32-inch	
		hole)	10
HA 58 D	23	· · · · · · · · · · · · · · · · · · ·	
		hole)	10
HA 58 F	23	··· ·· ·· ·· Spring	04
AS 59	7	Needle Lever Eccentric (2.204-inch throw)	1 50
AS 59 A	7	" " (1.771-inch throw)	1 50
110 00 11		" " Spot Screw No. 81	0:
		" " Set Screw No. 95	0:
HA 59	33	Hand Wheel (diameter of belt groove, 51/2 inches)	2 0
iiii oo	0.0	" " Set Screw No. HA 95	0
		" " Spot Screw No. HA 81	0
HA 59 C	24	Needle Lever Eccentric Pin	0.
+HA 60	27	Presser Bar (hardened and ground)	1 1
HA 60 A	27	Presser Bar (hardened and ground) left	1 0
HA 60 B	27	" " (hardened and ground) right	9
†HA 61	24	" " Connection, for No. HA 60	2
		" " Screw No. 90	0.
HA 61 A	24	" " for No. HA 60 A, also for	
		No. HA 62 A	2
	124	" " Screw No. 90	0
HA 61 B	30	Coiled Presser Spring Support	4
		"" " Screw No. 95	0
HA 61 C	30	Presser Bar Guiding Fork	5
		" " Clamp Serew No. 74	0
HA 61 D	19	··· ·· ·· Set Screw	0
†HA 62	28	Presser Guide Bar (hardened and ground) for use	
		with No. HA 60	7
†HA 62 A	28	"" (hardened and ground) for	
		presser foot No. AS 65 L	7

66

[HA 62 B- +AS 65 X-4]PRICE LIST OF PARTS

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 or- dering. Prices subject to change without notice. TERMS ON FARTS, NET CASH.	Price per Part
		Parts for Class 80000 Machines	
HA 62 B	12	Presser Guide Bar (hardened and ground) for use	
	1.1	with adjustable guiding block	1 00
HA 62 C	12	Presser Foot Guiding Block, adjustable	45
		Presser Foot Guiding Block Screw No. 303	08
HA 62 D	-	Nos. HA 62 B, HA 62 C and 303 assembled	1 50
†HA 63	31	Presser Spring, flat	60
HA 63 A	31	·· · · · · · · · · · · · · · · · · · ·	65
HA 63 F	23	·· ·· coiled	15
†HA 64	30	" " Rest, for use with presser spring	
	1.	No. HA 63	50
HA 64 A	30	" " for use with presser spring	
	14	. No. HA 63 A	50
	1	" " Screw No. 88 A	04
HA 64 B	24	Presser Foot Lifter Stop Pin	05
64 X	20	Presser Spring Regulator Screw Pin	20
HA 64 D	18	Foot Lift Lever Spring Pin	03
AS 65 A	2	Bottom, for presser foot No. AS 65 L	95
AS 65 B	2	Bottom, for presser foot No. AS 65 R	1 00
AS 65 C	2	Shank, for presser foot No. AS 65 L	50
A5 05 0	-	" Set Screws No. 88 A	04
	See 2	"Hinge Screws No. HA 65 L	05
HA 65 D	11		30
HA 05 D	11	'' for presser foot No. AS 65 S '' Set Service No. 28 A	04
	-	Set Screws No. 88 A	09
HA CE E	10	"Hinge Screw No. HA 65 E	08
HA 65 E	19	Hinge Screw, for presser foot No. AS 65 R	08
HA~65L	19	for presser feet Nos. AS 65 L and	05
		AS 65 X-2	00
AS 65 L	2	Presser Foot, left, complete, for Styles 80000 A,	1 00
10.055		80000 B, 80000 C and 80000 D	1 60
AS 65 R	2	right, complete, for Styles 80000 A,	
		80000 B, 80000 C and 80000 D	1 45
AS 65 S	2	right, compiete, for continuous chain-	
		ing	1 45
AS 65 T	2	Bottom, for presser foot No. AS 65 S	1 00
†AS 65 X	1	Presser Foot, complete	6 40
†AS 65 X-1	1	Bottom, right, for presser foot No. AS 65 X	2 50
†AS 65 X-2	1	" left, for presser foot No. AS 65 X	2 50
†AS 65 X-3	1	Shank, for presser foot No. AS 65 X	50
		" Screws No. 88 A	04
†AS 65 X-4	1	Spring Support, for presser foot No. AS 65 X	30
		" " Screw No. 87	04

PRICE LIST OF PARTS [†AS 65 X-5-88 A]

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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
+AS 65 X-5	23	Parts for Class 80000 Machines Spring, for No. AS 65 X	10
tAS 65 Y	1		6 40
tAS 65 Z	1	Presser Foot, complete, for continuous chaining	2 50
AS 66	9	Bottom, for presser foot No. AS 65 Y	3 0
		Main Shaft (hardened and ground)	
HA 66 K HA 69	21	Key, for main shaft No. AS 66	0
HA 69	34	Spool Support	1 5
HA 69 A	34	Base, for thread stand	9 0
HA 69 B	34	Thread Rod	5
69 R	34	" " Extension	3
69 T	34	Spool Pin, for thread stand	2
69 U	24	Spool Support Connecting Pin, for thread stand	0
69 V	24	Thread Rod Extension Pin, for thread stand	0
AS 70	6	Looper Eccentric Sponge Holder	3
ASTO	0		0
AS 70 A	c	Screw No. 94	3
AS 70 A	6	Feed Cam Sponge Holder	
72	10	Nut No. 18	1
A CONTRACTOR OF	18	Set Screw, for looper eccentric fork	0
73 114 79 D	18	101 100 pers, also 101 100. 857 A	0
HA 73 B	18	Screw, for thread eyelet No. HA 103 B	0
74	19	Clamp Screw, for presser bar guiding fork, also for No. 897 F	0
HA 74	26	Oil Tube Support	1
		" " Screw No. 94	0
75 A	19	Screw, for feed rocker connection	0
77	18	" for needle bar link pin, also for Nos. AS 122	
		and AS 123	0
80 A	19	" for main shaft sponge hole	1
81	18	Spot Screw, for looper eccentrics, also for Nos. AS 59, AS 59 A and HA 69	(
HA 81	18	" for hand wheel	0
82	19	Hemming Guide Stop Screw	0
85	19		(
HA 86	19	Clamp Screw, for looper eccentric fork Screw, for presser foot lifter No. HA 41	1
HA 86 A	19		-
HA 86 B	18	"for presser foot lifter No. HA 41 A Presser Foot Lifter Friction Washer	0
HA 86 B 87	1000		
87 88	18	Screw, for throat plates, also for No. AS 65 X-4	0
88	18	'' for feed rockers, also for Nos. AS 9, 30, AS 51, AS 130, AS 132 and HA 482 A	0
88 A	-18	" for presser spring rest, also for Nos.	
		HA 64 A, AS 65 C, HA 65 D and AS 65 X-3	0

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[89-AS 112 C] PRICE LIST OF PARTS

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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
		Parts for Class 80000 Machines	
89	18	Screw for cloth plate extension	0
90	18	" for presser bar connections, also for Nos.	
		AS 128, AS 129 and AS 134	0
92	19	" for cloth plate	0
93	19	Screw fillister head, for cloth plate, also for Nos.	
		AS 22, AS 22 A, AS 113 and AS 416 A	0
93 A	19	" for feed bar needle guard, also for Nos.	
	1	HA 10, HA 23, AS 127 and AS 130	0
94	19	" for cloth plate extension spring latch, also	
91	10	for Nos. 6 B, AS 51, AS 70, HA 74, AS 124	
		and AS 125	(
95	18	" for main shaft collar, also for Nos. AS 43,	
55	10	AS 43 A, AS 43 B, AS 59, AS 59 A,	
		HA 61 B, AS 113, AS 122, AS 135 and	246
		AS 136	(
	10	Set Screw, for hand wheel	
HA 95	18		
96	18	Spot Screw, for looper rocker frame, also for Nos.	(
		AS 43, AS 43 B, HA 43 X and HS 43 P	
97 A	19	Screw, for shells, for looper connection rod ball	
		joints	9
97 X	18	" for supporting feed dogs	(
. 98	18	Set Screw, for looper rocker frame, also for Nos.	
		424 and 482	
IA 102 A	22	Thread Eyelet, for tension bracket No. AS 123	-
HA 103 B	22	" for Nos. AS 135, AS 136 and AS 137	-
	1 2 10	·· ·· Screw No. HA 73 B	
HA 106 A	20	Tension Post, length over all 2 inches	-
AS 106 A	20	" " length over all 31/4 inches	13
107	21	" Spring Ferrule	
108 A	21	· · · Nut	
AS 109	23	". Disc (diameter 11/4 inch, 7/16-inch hole)	13.5
		hardened	
HA 109 A	23	" (15/16 inch diameter, 3/s-inch hole)	
		hardened	
110 A	.23	" Spring (.036 inch diameter wire)	
AS 112	3	Throat Plate	1
AS 112 A	3	" " for continuous chaining	1
		" " Screws No. 87	
AS 112 B	3	Chain Support, for throat plate No. AS 112 A	
		··· Screw	

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PRICE LIST OF PARTS [†AS 113-135]

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

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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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
		Parts for Class 80000 Machines	
†AS 113	8	Frame Thread Guide Holder	45
		" " " Screw No. 93	04
AS 113 A	5	Frame Thread Guide	40
		" " Screw No. 98	03
115 A	34	Wrench, for nuts Nos. 18, HA 18 A, 37 L, 37 R,	
		HA 56 and 1280	15
HA 118	34	Thread Hook	10
118 B	34	Thread Tweezers (improved model)	- 20
AS 121	8	Feed Rocker Connection	1 15
	1237.3	·· ·· Screws Nos. 75 A	04
AS 122	8	Looper Intermediate Lever	90
		" " Serews No. 95	03
AS 123	8	Tension Bracket	1 25
		" Screws No. 135	06
AS 124	5	Needle Thread Intermittent Nipper Spring, back	20
AS 125	5	" " Intermittent Nipper Spring, front	40
AS 126	23	" " Intermittent Nipper Spring Washer.	05
AS 127	5	" " Intermittent Nipper Spring Operat-	
		ing Block Support Bracket	55
		" " Intermittent Nipper Spring Operat-	2 20 L 3
		ing Support Bracket Screws No.	
10.100	1 2 2	93 A	04
AS 128	5	" Intermittent Nipper Spring Operat-	
10.100	1.20	ing Block Support	30
AS 129	5	Internittent Nipper Spring Operat-	
		ing Block	20
	1	intermittent Ripper Spring Operat-	
AS 130	5	ing Block Screw No. 90	04
AS 150	0	Frame Pull-off Support	45
AS 130 A	7	"" "" Serew No. 93 A "" "" Guiding Pin	04
AS 130 A AS 131	5	" Thread Pull-off	05
110 101		· · · · Serew No. 88	$15 \\ 03$
AS 132	5	Needle Lever Thread Pull-off Support	40
		" " " " Serews No.	40
	1	22526	05
AS 133	5	Needle Lever Thread Pull-off	20
		"" " " Screw No. 88	03
AS 134	5	Needle Bar Thread Tension Support	60
	1	" " " " Serew No. 90.	04
135	19	Serew, for tension bracket, also for No. 897 B	06

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[AS 135-HA 1217] PRICE LIST OF PARTS

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

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		Parts for Class 80000 Machines	
AS 135	6	Frame Thread Eyelet Support, upper	4
		·· ·· ·· Screw No. 95	0
136	19	Clamp Screw, for needle bar bushing	0
AS 136	6	Frame Thread Eyelet Support, lower	3
		··· ·· ·· Screw No. 95	0
AS 137	6	Needle Lever Thread Eyelet Support	3
AS 138	5	Frame Thread Guiding Wire	1
AS 139	7	Looper Intermediate Lever Shaft (hardened and	
		ground)	4
AS 141	7	Oil Tube, for feed eccentrie	4
154	6	Needle Lever Washer	. 0
156	19	" "Ball (hardened)	4
303		Presser Foot Guiding Block Screw	0
413	34	Oil Can	1
AS 416 A	9	Foot Lift Lever Extension	5
non	1	" "	0
TA 416 X	31	Foot Lift Lever Casting	5
420	20		
420 HA 421		Stud	2
	34	Unam	3
422	34	11eaule	2
423	34	nest	1
424	34	·· ·· Pin	0
	1	" " Screw, No. 98	0
HA 426	23	" Lift Lever Spring	0
482	21	Looper Intermediate Lever Shaft Collar	. 2
		" " Screw No.	1.1
		98	(
TA 482 A	21	Presser Bar Collar, also for No. AS 65 X	2
		" " Screw No. 88	0
897 A	8	Hemming Guide	3 (
897 B	6	Edge Guide, for Styles 80000 C and 80000 D	e
		" " Screws No. 135	. (
897 C	19	Screw, for hemming guide	2
897 E	23	Spring, for hemming guide	(
897 F	6	Hemming Guide Lever	2
		" " Screw No. 74	(
IA 1217	31	Needle Lever Connection, complete (includes Nos.	
	101	15430C, 15430 D, 15430 E,	
		15430U, 15430U, 15430L, 15430H, 15430K, 15430L	

PRICE LIST OF PARTS [1230-1275 E]

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

Number to Order By.	Plate No.	plates i	llustrati	ng par	arged on all parts sent by mail. ecoad column refer only to the ts, and are not to be used in or- ect to change without notice. NET CASH.	Pric per Par
1230	-	Part Needle	ts for Lever	Class	0, 11 , 1	
					for No. 80016 (includes Nos. 1230A, 1230B,	
	1200				1230 D and 22586 A)	1
‡1230 A	-	"	"		. bearing, upper, without	
1090 D					spring pin or screw	1.1
1230 B	-				Bearing Spring	
1230 D					Bearing Spring Pin	
1275	27	"	"	Stud	(hardened and ground) inter- nal oiling, with screw, stand-	
					ard size	1
1275 A					(hardened and ground) inter-	1
1210 A						1
					nal oiling, without end screw,	1
1075 D	1. 1. 200			"	standard size	1
1275 B		R.W.			(hardened and ground) inter-	121
		1.1.1.1			nal oiling, with end screw,	
	10.00	1-3 5 4			extra size on frame end	1
		100			(specify the number of thou-	1.54
					sandths of an inch larger	1
	1 4 4				than standard size) made	
					only to order	1
$1275~\mathrm{C}$	-	"	"	"	(hardened and ground) inter-	1.21
		149.20			nal oiling, with end screw,	
		1.			extra size on lever end (spec-	
	1.1				ify the number of thou-	14.
	1				sandths of an inch larger	
					than standard size) made	
					only to order	1
1275 D	_	"	"	"	(hardened and ground) inter-	
					nal oiling, with end screw.	
	1-1-1				extra size on both ends	
					(specify the number of thou-	
					sandths of an inch larger	
					on each end than standard	
	100				size) made only to order	2
1275 E	-		"		(hardened and ground) inter-	-
10.0 10					nal oiling, without end screw,	
		1.			extra size on frame end	
					(specify the number of thou-	
		1			sandths of an inch larger	
		- See			than standard size) made	
					man standard size) made	

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[1275 F-15430 C]

PRICE LIST OF PARTS

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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
	1	Parts for Class 80000 Machines	
$1275 \mathrm{F}$	-	Needle Lever Stud (hardened and ground) inter-	
	100	nal oiling, without end screw,	
		extra size on lever end (spec-	
		ify the number of thou-	
	L. P.S.	sandths of an inch larger	
		than standard size) made	
		only to order	1 7
$1275~\mathrm{G}$	-	" " (hardened and ground) inter-	
	1	nal oiling, without end screw,	
		extra size on both ends	
		(specify the number of thou-	
	1.1	sandths of an inch larger on	
		each end than standard size)	
		made only to order	1 9
		··· ·· ·· Screw No. 22586	0.
1280	21	" "Bolt Nut	1
\$1286	24	" Bar Link Pin (hardened and ground, length	
		over all 5% inch) complete,	
		internal oiling	3
	100	··· ·· ·· ·· Screw No. 22560	0
HA 1286	6	(hardened and ground, length	
	1	over all 5% inch) complete	
		internal oiling	3
HA 1346 A	20	Tension Post (length over all 1 1/16 inches) for	
	BAR SA	use with hardened steel ferrule No.	
	10.65	HA 1347 A	1
HA 1347 A	22	" " Ferrule (length over all 9/32 inch,	
	1000	hardened) for use with	
A BOTT SULLEY	10-	tension post No. HA1346A	1
HA 1348	22	" " (length over all 3% inch,	
		hardened) for use with	
		tension posts Nos. HS 106	
		and HA 106 A	1
HA 1349	22	" Sleeve, for use with Nos. HS 106 and	
		HA 106 A	1
6042	20	Needle Lever Bolt	2
HA 12873	22	Bushing (ground) for needle bar bearing	3
	13	" Screw No. 136	C
$15430~{ m C}$	21	Needle Lever Connection Tube Nut, upper, left	
	1-11	thread	1
			1.1.1.2

PRICE LIST OF PARTS [15430 D-80031]

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

Number to Order By	Plate No.	plates illustrating parts, and are not to be used in or-	rice per Part
		Parts for Class 80000 Machines	
. 15430 D	21	Needle Lever Connection Tube Nut, lower, right	
		thread	10
15430 E	31	Needle Lever Connection Bearing, upper, for No.	10
		HA 1217	70
	1.15	" " Screws No.	10
		22587	05
$15430 \mathrm{~H}$	21	" " Oil Reservoir Cover, for	00
10100 11		No. HA 1217	25
$15430~{ m K}$	23	" " Oil Reservoir Leather	20
10100 11	10	Washer	02
HA 15431	31		1 45
1111 10101	01	" " Screws No.	1 40
	1	22587	05
HA 15431 F	31	" " " Tube, with oil reservoir.	05
IIA 10401 1	01	and the second se	1 10
21202		Screw Driver, round steel (diameter 7/32 inch,	1 10
21202		length over all 10 3/16 inches).	40
21204		"" "round steel (diameter ¹ / ₄ -inch,	40
21201		length over all 15 inches)	60
21388	_	Wrench, for nuts Nos. 18, HA 18 A, 37 L, 37 R,	00
21000		HA 56 and 1280	1.0
21388 B		" (¹ / ₂ -inch, 4 ³ / ₅ inches long, hardened) for	15
21000 D		nuts Nos. 15430 C and 15430 D.	20
HA 21681	31	Machine Bed Screw	45
22508	19	Serew, for base, for thread stand	03
22526	18	"for needle lever thread pull-off support	05
22560	18	"for needle bar link pins	03
22574	18	" for cloth plate	06
22586	18	" for needle lever stud	05
22587	19	" for needle lever connection bearings	05
80016	31	Needle Lever Connection, complete (includes Nos.	00
00010		1230, 15430 C, 15430 D,	
		15430 L, HA 15431 and	
	1		3 45
80031	-	" " Tube, without oil reser-	, 40
00001	1.64	voir, for No. 80016	80
	1	1011, 101 110. 00010	00

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[HA1A-HS9] PRICE LIST OF PARTS

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

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	00	Parts for Class 81000 Machines	++ 00
HA 1A	33	Base Plate	\$4.00
HA 1B	24	1	05
HS 1B	26	Bushing (ground, length over all 1¼ inches) for main shaft	55
HS 1C	26	" (ground, length over all 3% inches) for	
10 10		main shaft	1 00
HS 1D	26	" (ground, length over all 15/16 inches) for	
		main shaft	50
HS 2	33	Cloth Plate	4 00
		" " Screw, headless, No. 89	03
		" " " fillister head, No. 93	04
		"" " long, No. 22574	06
HA 2A	21	" " Oil Hole Cover	20
HS 3	33	" " Extension	2 00
110 0		··· ·· Screw, No. 89	03
HS 3A	28	··· ·· ·· Pin	35
HS 4A	32	Spreader Bracket	3 00
110 1 11		" Screw, headless, No. 95	03
		" Screws, fillister head, No. 318	15
HS 4X	17	Cast-off Wire	35
no in	1	" " Screw, No. 94	04
	1	" " Adjusting Screw, No. 82	08
5	21	Collar, for main shaft	25
0	-1	" Screws, No. 95	08
HS 5	32	Looper Carrier Bracket	1 30
115 5	02	" " " " " " " " " " " " " " " " " " "	1
HS 6	32	Spreader Lever	1 85
115 0	01	" Clamp Screw, No. 74 A	1
HS 7	32 -	Feed Rocker	1 30
11.5 7	02	" " " " " " " " " " " " " " " " " " "	03
8	28	" " Shaft (5 3/16 inches long, hardened	
0	20	and ground) sizes, .407, .408, .410,	
		.413 and .416	4
HS 8A	32	Looper Lever	2 00
no o A	54	" Clamp Screw, No. 74 A	10
HS 9	32	Feed Bar	9(
no 9	04	" " " Screws, No. 88	0;

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PRICE LIST OF PARTS [HA9B-HS21]

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		Parts for Class 81000 Machines	
HA 9B	13	Feed Bar Needle Guard (hardened)	58
HA 10	26	Screw, No. 55 A	04
1111 10	20	Feed Prong. ··· '' '' Screws, No. 93 A	36 04
11	28	" Bar Shaft (3 7/16 inches long, hardened and ground) sizes .407, .408 and .410	4
HS 11 A	29	Looper Carrier Shaft Arm	40 70 03
HS 12	29	"Intermediate Lever	90 03
HS 13	24	Cloth Plate Locking Pin	- 50
		"" "Screw, No. 89	03
HS 14	24	" " Plunger	30
HS 14 A	23	" " Spring	05
HS 15 A	30	Feed Rocker Eccentric	55
		" " Screw, No. 81	08
HS 15 B	32	" " Connection	1 15
		" " Screw, front, No.	
	1.000	22587	05
		Screw, rear, No.	
	01	22569	05
16	21	Connection refruie (nardened and	
110 10 4	22	ground)	30
HS 16 A HS 16 B	22	Take-up Lever Sliding Sleeve	15
HA 17 A	19	Feed Rocker Stud	20
HS 17 B	20	Take-up Lever Stud, small thread	25 25
HS 17 C		"" " large thread	25 25
18	21	Nut, for take-up lever stud, also for Nos. HS 36 R,	20
10		HS 36 X, HS 36 Y, HS 36 Z and HA 1346 A.	10
HA 18 A	21	Feed Rocker Stud Nut.	10
HS 19	27	Looper Intermediate Lever Shaft (hardened and ground)	45
20	23	Washer, for looper connection rod ball joint No. HS 36 Y	45 03
HA 20 A	22	Feed Rocker Stud Washer (7/32-inch hole) also for	05
ST STORES		No. HS 17 B	05
HA 20 B	23	"" " (1/4-inch hole) also for	00
		No. HS 17 B	05
HS 21	28	Take-up Lever Stud	35
		" " Screw, No. 98	03

[HS 22-HS 26 C] PRICE LIST OF PARTS

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		Parts for Class 81000 Machines	
HS 22	15	Feed Dog, for Style 81000 A	55
HS 22 A	15	" " with teeth cut ten to the inch, for use	
	13.2	with throat plate No. HS 112	75
		" " Screw, No. 93	04
HS 22 P	15	" " for Style 81000 B	70
		" " Screw, No. 93	04
HS 22 Q	15	" " complete, with teeth cut ten to the inch,	
		for use with throat plate No. HS 112 Q	1 35
		·· ·· Screw No. 93	04
$\mathrm{HS}~22$ Q-1	15	" " including center and right-hand prong,	
		for use with throat plate No. HS112Q	80
$HS 22 Q \cdot 2$	15	" " Left-hand Prong, for use with throat	
		plate No. HS 112 Q	45
		" " Screws No. 87 A	05
HS 22 R	15	" " teeth cut ten to the inch, for use with	
		throat plate No. HS 112 Q	80
		" " Screw No. 93	04
HA 23	26	Feed Bar Shoe (hardened and ground)	18
		"" " Screw No. 93 A	04
HS 24	17	Edge Guide, complete, for Styles 81000 A and	
		81000 B	80
		" " Screw No. 25 CA	08
HS 24 A	17	" Tongue, for Styles 81000 A and	
		81000 B	40
		Screw No. 115 24 0	05
HS 24 A'T	14	'' '' (width %-inch) '' '' Serow No. HS 24 C Serow No. HS 24 C	45
		Sciew No. 115 24 0	05
HS 24 B	17	" " without tongue	35
HS 24 C	18	Screw, for edge guide tongues	05
HS 24 D	17	Edge Guide, for use with rolling presser feet	35
HS 24 E	17	for use with forming presser reet	35
HS 24 F	14	for carpet work	40 08
07.01	1 104	Derew 110. 20 011	
25 CA	19*	Screw, for edge guides	08
HS 26	16	Looper, for Styles 81000 A and 81000 B	1 00
TIC OC 1	10	Spreader, complete with loop retainer, for Styles	04
HS 26 A	16	Spreader, complete with loop retainer, for Styles 81000 A and 81000 B	1 25
		" Screws No. 73 X	1 25
TIC OC D	16	" Loop Retainer.	20
HS 26 B HS 26 C	10	Screw, for spreader loop retainer	03
115 20 0	10	berew, for spreader loop retainer	00

PRICE LIST OF PARTS [HS 26 D-36 F]

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

Number to Order ByPlate No.Postage will be charged on all parts sent by mail The figures in the second column refer only to the dering. Prices subject to change without notice TERMS ON PARTS, NET CASH.HS 26 D16Parts for Class 81000 MachinesHS 26 E16'' for single thread machines '' Screw No. 73 XHS 26 H16Thread Take-up '' Screw No. 73 XHS 2722Spreader Gear Shaft Bushing '' Screw No. 77HS 28 A2818Serew, for springs Nos. HS 65 G and HS 65 P-3 '' Screws No. 95HS 2929Looper Carrier '' Screws No. 98HS 3029'' Gear, upper '' Screws No. 98HS 312929HS 3227Looper Carrier Shaft (hardened and ground) with out key slots	Price
HS 26 D 16 Looper, short, for three thread machines. HS 26 E 16 '' for single thread machines. HS 26 H 16 Thread Take-up. HS 26 H 16 Thread Take-up. HS 27 22 Spreader Gear Shaft Bushing. 28 18 Screw, for springs Nos. HS 65 G and HS 65 P-3. HS 28 A 28 Spreader Gear Shaft, eccentric. 18 29 29 Looper Carrier. 18 29 A 29 Spreader Carrier. 18 30 29 '' Gear, upper . 18 31 29 '' Iscrews No. 98. HS 31 29 '' Iscrews No. 98. HS 32 27 Looper Carrier Shaft (hardened and ground) with	Part Part
HS 26 D 16 Looper, short, for three thread machines. HS 26 E 16 '' for single thread machines. HS 26 E 16 '' for single thread machines. HS 26 H 16 Thread Take-up. HS 26 H 16 Thread Take-up. HS 26 H 16 Thread Take-up. HS 27 22 Spreader Gear Shaft Bushing. 28 18 Screw, for springs Nos. HS 65 G and HS 65 P-3. HS 28 A 28 Spreader Gear Shaft, eccentric. 18 29 29 Looper Carrier. 14S 29 A 29 Looper Carrier. 14S 30 29 '' Screws No. 98. HS 31 29 '' Gear, upper . 14S 32 27 Looper Carrier Shaft (hardened and ground) with	
HS 26 E 16 '' for single thread machines HS 26 H 16 Thread Take-up	1 20
HS 26 H 16 Thread Take-up	
HS 26 H 16 Thread Take-up	
HS 27 22 Spreader Gear Shaft Bushing. 28 18 Screw, for springs Nos. HS 65 G and HS 65 P-3 HS 28 A 28 Spreader Gear Shaft, eccentric. HS 29 29 Looper Carrier. HS 29 A 29 Spreader Carrier. HS 30 29 '' Gear, upper. HS 31 29 '' I' lower HS 32 27 Looper Carrier Shaft (hardened and ground) with	
HS 27 22 Spreader Gear Shaft Bushing	
28 18 Serew, for springs Nos. HS 65 G and HS 65 P-3 HS 28 A 28 Spreader Gear Shaft, eccentric	
HS 28 A 28 Spreader Gear Shaft, eccentric. HS 29 29 Looper Carrier. HS 29 A 29 Spreader Carrier. HS 29 A 29 Spreader Carrier. HS 30 29 '' Screws No. 98. HS 31 29 '' Gear, upper HS 32 27 Looper Carrier Shaft (hardened and ground) with	
HS 29 29 29 Looper Carrier	
HS 29 29 Looper Carrier	0:
HS 29 A 29 Spreader Carrier. HS 30 29 '' Gear, upper HS 31 29 '' I ower HS 32 27 Looper Carrier Shaft (hardened and ground) with	1 100 100
HS 29 A 29 Spreader Carrier	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
HS 30 29 '' Gear, upper HS 31 29 '' Gear, upper HS 31 29 '' Iower tHS 32 27 Looper Carrier Shaft (hardened and ground) with	
HS 30 29 '' Gear, upper HS 31 29 '' Screws No. 98 HS 31 29 '' Iower tHS 32 27 Looper Carrier Shaft (hardened and ground) with	
HS 31 29 '' '' Screws No. 98 tHS 32 27 Looper Carrier Shaft (hardened and ground) with	
HS 31 29 '' '' lower tHS 32 27 Looper Carrier Shaft (hardened and ground) with	0:
tHS 32 27 Looper Carrier Shaft (hardened and ground) with	
OUT FOV SIOTS	
HS 32 A 27 '' '' (hardened and ground) wit	
key slots	
HS 32 K 21 '' '' Key	
tHS 33 27 Spreader Carrier Shaft (hardened and ground) with	
out key slots	
HS 33 A 27 '' '' (hardened and ground) wit	
key slots	
HS 33 K 21 Spreader Carrier Shaft Key	
tHS 34 29 '' Lever and Looper Lever	
(i ii ii ii Set Serew No. 9	
"" " " " Spot Serew No. 9	
HS 35 28 '' Connection Rod (length over all 8 5/3	1
inches)	5
HS 35 A 28 Looper Connection Rod (length over all 6 inches).	1
HS 35 R 23 Hooper Connection Rod (length over all 0 menes). +HS 35 B 28 Spreader Connection Rod (length over all 4 inches).	
11335 B 23 Spreader Connection Rold (length over all 4 menes) 11835 C 28 11 11 11 11 11 11 11 1	
36 A 19 Ball (hardened), for No. 36 L	
36 B30Shell, for Nos. HS 36 X and HS 36 Z	
" Screws No. 97 A	
36 E 19 Ball (hardened) for Nos. 36 R, HS 36 X, HS 36	
and HS 36 Z	
36 F 30 Shell, for Nos. 36 R and 36 Y	2
So F 30 Sheh, for Nos. 50 K and 50 F	
SCIEWS INC. OF A	. 6

[36 G-HS 48 A] PRICE LIST OF PARTS

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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
		Parts for Class 81000 Machines	
36 G	23	Washer, for No. HS 36 R	10
HS 36 H	22	'' for No. HS 36 X	06
HS 36 I	22	"for No. HS 36 Y	06
HS 36 K	22	" for No. HS 36 Z	10
$36 \mathrm{R}$	30	Spreader Connection Rod Ball Joint, right, complete	1 25
HS 36 X	30	" " " " left, complete.	1 25
HS 36 Y	30	Looper Connection Rod Ball Joint, right, complete.	1 25
HS 36 Z	30	" " " " left, complete	1 25
37 L	21	Nut, left thread, for connection rods Nos. HS 35 A,	
	100	HS 35 B and HS 35 C	10
$37~\mathrm{R}$	21	" right thread, for connection rods Nos. HS 35,	
		HS 35 A, HS 35 B and HS 35 C	10
HS 38	29	Looper Lever Eccentric	1 50
		" " Set Screw No. 95	03
		" " Spot Screw No. 81	03
HS 38 A	29	Spreader Lever Eccentric	1 50
		· · · · · Set Screw No. 95	03
		" " Spot Screw No. 81	03
HS 40	26	Lower Thread Guide	20
	-	··· ·· ·· Screw No. 89	03
HS 40 A	26	" Guiding Pin	08
HA 41	30	Presser Foot Lifter (hardened) without handle	70
-122		"" " Serew No. HA 86	15
HA 41 A	10	" " " " " " " " " " " " " " " " " " "	2 00
	10	" " " " " " " " " " " " " " " " " " "	15
42 H		Nut, for use with Screw No. 22569	10
HA 42	20	Presser Foot Lifter Screw Pin (hardened)	10
HA 42 A	18	" " " " " " " " " " " " " " " " " " "	
HA 42 B	6	(' (' (hardened and ground)	15 30
HS 43 P	30	Feed Cam (hardened and ground)	45
HA 43 X	30	" (hardened and ground)	
IIA to A	50	" " Screw No. 96	45
HS 44	33	Needle Lever	03 2 50
†‡ 45	31		2 50
1 + 10	01	Connection, with non-separable bear-	
		ings, distance between centers,	1 0-
HS 46	28	4 11/16 inches	1 35
47	28	Looper Lever Bushing	1 10
41	21	Needle Lever Stud Nut (hardened) also for No.	
10	23	HS 1276	20
48 HS 48 A	25	wasner	03
113 48 A	1 44	Looper Lever Bushing Washer	10

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PRICE LIST OF PARTS [+49 A-HS 59 A]

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

Number to Order By	Plate No.	The figure plates il dering	ires in t lustrating	the secon c parts, a subject	nd col and an to	umn r ce not change	rts sent by mail. efer only to the to be used in or- without notice	per
							achines	
† 49 A	19	Needle	Lever B	all (har	dened	l) for	use with No. 45	
HA 50	27	")	
			" Set	Screws	No.	94		. 0
HS 51	30	"						
HS 52	25	"	Lever R	olling T	hread	l Guid	e, complete, wit	h
						sup	port	. 1 4
HS 52 A	25			" "	"	Gui	de Suppor	t
						Ser	ews, No. 22526.	. (
HS 52 B	24	"	"	"	"	Guid	e Axle	. :
				"	"	Guid	e Axle Screw N	0.
						225	60	. (
HS 52 C	26	"	"	"	"	Guid	e Wire	
10010			"	"		Guid	e Wire Scre	w
						No.	88	
HS 53	25		Thread	Rolling	r Th		Guide, comple	
HS 33	20		Interra	1.0111.6	-		with support	
TTO 29 A	25		"	"			Guide Support.	
HS 53 A	20						Guide Support	
							Screw No. 98	
TTO TO D	24	"		"			Guide Axle	
HS 53 B	24						Guide Axl	
		1 11 11					Screw No. 2250	
	00	NT 11		D.11.		D Los		
HS 53 C	22	Needle ()					uide	••
HA 54 A	29						for No. HS 8 A	
HA 56	21							
HS 57	25	Looper	Thread	Tension	1 Guio		in Support	
							n Support Screv	
							No. 87 A	
HS58	25			"				
HS 58 A	25		"	"			<mark></mark>	
HS 58 B	22	••	"	••		0		
HA 58 C	23		"	"			13/32-inch hole	
HA 58 D	23	"		"	Fer	rule (7/32-inch hole	
HA~58~F	23	" "		"	Spri	ing		
HS 58 G	24	"					g Spring Pin	
HS 58 H	23			"	Con	trollin	g Spring	
HA 59	33	Hanl	Wheel					
	1000	"	" S	et Screv	v No.	HA 9	5	
	12 12 1		" S	pot Ser	ew N	o. HA	81	
HS 59 A	29	Needle	Lever	Eccent	rie (throw	$2\frac{5}{8}$ inches) f	or
		1.1.1.1.1.1				Style	81000 B	1

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[HS 59 B-HA 64 D] PRICE LIST OF PARTS

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

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		Parts for Class 81000 Machines	
$\mathrm{HS}~59~\mathrm{B}$	29	Needle Lever Eccentric (throw 23% inches) for	
		Style 81000 A	1 50
		" " Set Screw No. 95	0:
		" " Spot Screw No. 81	0:
HA 59 C	24	" " " " " " " " " " " " " " " " " " "	0.
†HA 60	27	Presser Bar (hardened and ground)	1 1
HA 60 A	27	Presser Bar (hardened and ground) left	1 0
HA 60 B	27	" (hardened and ground) right	1 0
†HA 61	24	" Connection, for use with Nos. HA 60	51
		and HA 62	20
		"" " Screws No. 90	04
HA 61 A	24	for use with Nos. HA 60 A	0.
		and HA 62 A	2
		" " " " " " " " " " " " " " " " " " "	-
HA 61 B	30	Coiled Presser Spring Support	0.
IIII OI D	50		4
HA 61 C	30	Serew 110. 55	0.
IIII OI O	50	Presser Bar Guiding Fork	5
HA 61 D	19	Clamp Screw No. 74	0
†HA 62	19 28	Set Screw	0
IIIA 02	28	Guide Dar (nardened and ground) for use	-
†HA 62 A	0.0	with presser foot No. HS 65 X	7
IIA 02 A	28	(hardened and ground) for use	
HA 62 B	10	with presser foot No. HS 65	7(
HA 02 B	12	(hardened and ground) for use	
HA 62 C	10	with adjustable guiding block	1 00
HA 02 U	12	root duluing block, aujustable	43
TLA CO.D.		Screw No. 505	08
HA 62 D		Nos. HA 62 B, HA 62 C and 303 assembled	1 50
+HA 63	31	Presser Spring, flat	6(
HA 63 A	31	nat	65
HA 63 F	23	coned	1
64 X	20	Presser Spring Regulator Screw Pin.	20
†HA 64	. 30	nest, for use with presser spring	
		No. HA 63	50
The set	-	Screw No. 88 A	04
HA 64 A	30	" " " for use with presser spring	
		No. HA 63 A	50
		" " Screw No. 88 A	04
HA 64 B	24	" Foot Lifter Stop Pin	05
†HS 64 C	24	Operating Pin, for use with presser foot No. HS65X	15
HA 64 D	18	Foot Lift Lever Spring Pin	03

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PRICE LIST OF PARTS [HS 65-+HS 65 X-4]

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HS 65	11	Parts for Class 81000 Machines Presser Foot, left, complete for Styles 81000 A and	
115 05	11	81000 B	1 40
†HS 65 A	11	" " right, complete	2 50
tHS 65 B	11	" " right, complete, for carpet work	2 25
tHS 65 C	11	Bottom, for presser foot No. HS 65 A	1 20
†HA 65 D	11	Shank, for presser foot No. HS 65 A	30
1111 00 1		" Set Screws No. 88 A	04
		" Hinge Screws No. HA 65 E	08
HA 65 E	19	Presser Foot Hinge Screw, for Nos. HA 65 D and	
1111 00 11	10	HS 65 P-2	08
HS 65 F	_	Serew, for tongues Nos. HS 65 Z, HS 65 ZA and	
110 00 1		HS 65 ZT	03
†HS 65 G	11	Presser Foot Spring	06
1110 00 0		" " Screw No. 28	04
†HS 65 H	11	" " Guide	10
1110 00 11		" " Screw No. 90	04
HS 65 I	11	Bottom, for presser foot No. HS 65	75
HS 65 K	11	Shank, for presser foot No. HS 65	50
110 00 11		" Set Screw No. 88 A	04
		"Hinge Screw No. HA 65 L	05
HA 65 L	19	Hinge Screw, for presser foot No. HS 65	05
†HS 65 O	19	Hinge Screw, length over all 1/2 inch	05
HS 65 P	12	Presser Foot, right, for Styles 81000 A and 81000 B	3 10
HS 65 P-1	12	Bottom, for presser foot No. HS 65 P	1 70
HS 65 P-2	12	Shank, for presser feet Nos. HS 65 P and HS 65 S	60
		" Set Screw No. 88 A	04
		"Hinge Screw No. HA 65 E	08
HS 65 P-3	12	Presser Foot Spring, for presser feet Nos. HS 65 P	
		and HS 65 S	06
		" " Screw No. 28	04
HS 65 P-4	12	" " Stud Screw, for presser foot	
		spring No. HS 65 P-3	04
+HS~65~S	12	" " right, complete, without tongue	2 60
†HS 65 S-1	12	Bottom, for presser foot No. HS 65 S	1 70
$^{+}\mathrm{HS}~65~\mathrm{X}$	10	Presser Foot, complete	6 40
$^{\dagger}\mathrm{HS}~65~\mathrm{X}\text{-}1$	10	" " Section, right	2 50
$^{\dagger}\mathrm{HS}~65~\mathrm{X}\text{-}2$	10	··· ·· ·· left	2 50
†HS 65 X-3	10	Shank, for presser foot No. HS 65 X	50
		" Screw No. 88 A	
†HS 65 X-4	10	Presser Foot Spring Support, for presser foot No. HS 65 X	30

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[†HS 65 X-5-HA 74] PRICE LIST OF PARTS

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

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	10.24	Parts for Class 81000 Machines	
†HS 65 X-5	23	Presser Foot Spring, for presser foot No. HS 65 X	10
HS 65 Z	10	Tongue, for presser feet Nos. HS 65 A, HS 65 X-1	50
		" Serew No. HS 65 F	03
$\mathrm{HS}~65~\mathrm{ZA}$	12	" for presser foot No. HS 65 P	50
		" Screw No. HS 65 F	03
HS 65 ZT	12	" for presser foot No. HS 65 P for seaming	
	1.1.1.5	bed covers	50
	1 Martin	" Screw No. HS 65 F	03
HS 66	33	Main Shaft (hardened and ground) for Style	
		81000 A	3 10
$\mathrm{HS}~66~\mathrm{P}$	33	" (hardened and ground) for Style	
		81000 B	2 40
HA~66~K	21	Key, for main shafts	08
HS 67	31	Spreader Gear Guard, rear	40
		" " Screw No. 94	04
	18.00	" " " " No. 98 A	04
HS 68	31	" " " front	30
		" " Screw No. 98 A	04
HA 69	34	Spool Support	1 50
	119	" " Serew No. 81	03
HA 69 A	34	Base, for thread stand	90
		" Serew No. 22508	03
HA 69 B	34	Thread Rod	50
$69~\mathrm{R}$	34	" Extension	35
69 T	34	Spool Pin, for thread stand	20
69 U	24	Spool Support Connecting Pin, for thread stand	08
69 V	24	Thread Rod Extension Pin, for thread stand	06
HS 70	26	Sponge Holder, for feed bar No. HS 9	30
HS 70 A		" for No. HS 70	10
HS 71	24	Looper Thread Tension Bearing Pin	30
72	18	Screw, for lower thread pull-off	05
HS 72 A	21	Looper Thread Tension Bearing Pin Collar	10
		" "Bearing Pin Collar Screw,	
		No. HA 73 B	03
HA 73 B	18	Screw, for looper thread tension bearing pin collar,	
	1 20	also for Nos. HS 100 C, HS 100 F, HS 102	
	120	and HS 103 A	03
73 X	18	Set Screw, for loopers and spreaders	04
74	19	Screw, for presser bar guiding fork No. HA 61 C.	05
HA 74	26	Oil Tube Support	10
	1	"" " " Serew No. 94	04

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PRICE LIST OF PARTS [74 A-HA 95]

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

		Postage will be charged on all parts sent by mail.	
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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
		Parts for Class 81000 Machines	
74 A	21	Screw, for spreader lever, also for No. HS 8 A	15
HS 75	26	Spreader Carrier Shaft Oil Tube	3(
15 75 A	19	Screw, for needle lever connection No. 45	04
HS 76	26	Oil Tube, for feed cam	38
	18	Screw, for thread take-up No. HS 26 H	0
77 80	18	" for needle thread tension support	0
80 A	19	" for main shaft sponge hole	1
	18	Spot Screw, for feed rocker eccentric No. HS 15 A,	
81	10	also for Nos. HS 38, HS 38 A, HS 59 A,	
		HS 59 B, HA 59 and HA 69	0:
TTA O1	18	Spot Serew, for hand wheel	05
HA 81 82	19	Adjusting Screw, for cast-off wire	08
82 HS 82		Lower Thread Pull-off Adjusting Screw	10
HS 82 HA 86	19	Screw, for presser foot lifter No. HA 41	1
HA 86 A	18	" for presser foot lifter No. HA 41 A	1
HA 86 B	- 22	Presser Foot Lifter Friction Washer	0
87	18	Screw, for throat plates	0.
87 A	18	" for feed dog prong No. HS 22 Q-2, also for	
87 A		Nos. HS 57 and HS 102 Q	0
88	18	" for feed rocker, also for Nos. HS 9, HS 51,	
00	10	. HS 52, HS 53, HS102 P and HA 482 A	0
88 A	18	" for presser spring rest No. HA 64, also for	
00 A		Nos. HA 64 A, HA 65 D, HS 65 P-2,	
		HS 65 K and HS 65 X-3	0
89	18	" headless, for cloth plate, also for Nos HS 3,	
00	-	HS 40, HS 103 and HS 113	0
90	18	" for looper intermediate lever, also for Nos.	
		HA 60, HA 60 A, HA 62, HA 62 A,	
		HS 65 H, HS 112 A, and HS 416 A	0
93	19	" fillister head, for cloth plate, also for Nos.	
		HS 22, HS 22 A, HS 22 P, HS 22 Q,	
		HS 22 R, HS 113 and HS 416 A	0
93 A	19	" for feed bar needle guard, also for Nos.	
		HA 10, HA 23 and HS 65 V-4	0
94	19	" for cast-off wire, also for Nos. HS 51, HS 67,	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		HA 74 and F 149	0
95	18	" for spreader bracket, also for Nos. HS 11 A,	
		HS 12, HS 38, HS 38 A, HA 59, HS 59 A,	
		HS 59 B, HA 61 B, HS 111 and HS 113 A	0
HA 95	18	Set Screw, for hand wheel	0

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[96-HS 104] PRICE LIST OF PARTS

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Number to Order By	Plate No.	Posta The fig plates dering. TERMS	age will sures in illustratin Prices S ON PA	be charg the second parts, s subject RTS, NE	ed on all parts sent by mail. and column refer only to the and are not to be used in or- to change without notice. T CASH.	Price per Part
					ss 81000 Machines	
96	18	Screw.	for feed	l cam, a	lso for Nos. HS 34, HS 43 P,	
				and the second second	НЅ 101 Ү	03
97 A	19	"			36 B and 36 F	04
97 X	18	Suppor	ting Ser	rew, for	feed bar	05
98	18				rier, also for Nos. HS 29 A,	
			HS 30), HS 34	, HS 102, 422 and 482	03
98 A	18	"			ar guards, also for No. HS 53	04
HS 100	25	Needle	Thread	Tension	, complete	2 70
HS 100 A	20		"	"	Thread Roll Stud	30
HS 100 B	22	"	"	"	Thread Roll	25
HS 100 C	22	"	"	"	Thread Roll Collar	15
	133.		"	"	Thread Roll Collar Screw,	
		1.118			No. HA 73 B	03
HS 100 D	20	"	"	"	Disc Stop Screw, also for	
		1			No. HS 57	10
HS 100 E	25	"	" "	"	Support, complete with	
					thread eyelet	1 00
		"	"	"	Support Screw No. 80	05
HS 100 F	-	""	""	" "	Thread Eyelet	40
		"	"		Thread Eyelet Screw No.	
	1.2				HA 73 B	03
HS 101 Y	30		p			1 30
		"	Screw	No. 96	• • • • • • • • • • • • • • • • • • • •	03
HS 102	32	"			t	1 50
		"	"	"	Screw No. 318	15
HA 102 A	22		•		s. HS 102 and HS 102 P	20
HS 102 P	32				Bracket	1 05
		"	"	"	Bracket Screw No. 318	15
HS 102 Q	22		"	Rolling		
	1				HS 102 P	15
		"	"	""	" Guide Screw No.	1
		1022 00 /			87 A	05
HS 103	28	"	"		Support	40
	-	"	"	"	Support Screw No. 89	03
HS 103 A	25	"	"	"	for No. HS 103	45
	1	"	"	"	Screw No. HA 73 B	03
HA 103 B	22	"	"	"	Bushing, for Nos. HS 100 F	1.1
	1.11		24		and HS 103 A	20
	1	"	" "	"	Bushing Screw No. 77	03
HS 104	32					1 00

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PRICE LIST OF PARTS [HS 105-HS 113]

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		Parts for Class 81000 Machines	
HS 105	25	Lower Thread Pull-off	85
		" " Serew No. 72	05
HS 105 A	20	" " Screw Pin	20
HS 105 B	25	" " Guide	45
HS 105 C	22	" " Roll	10
HS 105 D	21	" " Screw Pin Nut	10
HS 106	20	Tension Post (length over all 21/2 inches) for three	
	1.1.1.1	thread machines	30
HA 106 A	20	" (length over all 2 inches)	25
107	21	" Spring Ferrule	06
108 A	21	· · Nut	10
109	23	" Disc (15/16-inch diameter, 1/4-inch hole)	
	S. C.	hardened	05
HA 109 A	23	" " (15/16-inch diameter, 3/3-inch hole)	
	12.15	hardened	06
HS 109 B	22	" " (11/4-inch diameter, 3/8-inch hole)	
		hardened	10
HS 110	23	" Spring (.048-inch diameter wire) for needle	
		thread	05
110 A	23	" (.036-inch diameter wire) for looper	
		thread	05
HS 110 B	23	" (.059-inch diameter wire) for needle	
	Tuesd	thread	05
HS 111	26	Frame Needle Thread Wire	30
		wire Screw No. 95	03
HS 112	13	Throat Plate, for Style 81000 A	1 35
		Belew No. 87	04
HS 112 A-12	13	Needle Guard, for machines using	
		No. 12 or smaller needles	45
		Needle Guard Selew No. 50	04
HS 112 A-16	13	for machines using ivo.	1-
		14 or 16 needles	45
HC 110 D	10	" for Style 81000 B	04
HS 112 P	13 14	" for style \$1000 B for seaming mattress ticks	$1 35 \\ 1 55$
HS 112 Q HS 112 R	14	" for seaming mattress ticks for seaming carpets	1 55
10 112 N	14	" " " " " " " " " " " " " " " " " " "	04
HS 113	26	Frame Needle Rolling Thread Guide Pin Support.	40
110 110	20	" " " Guide Pin Support	40
		Screw No. 93	04
		Screw No. 93	0

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[HS 113 A-525] PRICE LIST OF PARTS

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		Parts for Class 81000 Machines	
HS 113 A	26	Frame Needle Thread Rolling Thread Guide Pin,	
		eccentric	40
		" " Thread Rolling Thread Guide Pin,	
		Screw No. 89	03
HS 113 B	24	" " Thread Rolling Thread Guide Axle	45
		" " Thread Rolling Thread Guide Axle	
	1.10	Screw No. 98	03
HS 113 C	22	" " Thread Rolling Thread Guide	30
$115 \mathrm{A}$	34	Wrench, for nuts Nos. 18, HA 18 A, 37 L, HA 56,	
		74 A and 1280	15
116	34	'' for nut No. HS 105 D	10
HA 118	34	Thread Hook	10
118 B	34	"Tweezers (improved model)	20
136	19	Clamp Screw, for needle bar bushing	08
F 149	26	Binding Tension, complete, for binding carpets	1 75
		" Screw No. 94	04
154	6	Needle Lever Washer	05
156	19	Dan (nardened) also for Nos H50	10
0.00		and HS 8 A	40
303		Screw, for presser foot guiding block	08
318	19	"for spreader brackets, also for Nos. HS 5, HS 102 and HS 102 P	15
413	34	Oil Can	10
413 HS 416 A	31	Foot Lever Extension, with thread guiding ring	60
HS 410 A	91	Contract Extension, with thread guiding Fing	04
HS 416 B	-	Thread Guiding Ring, for No. HS 416 A	30
110 410 D		" " " " " " " " " " " " " " " " " " "	04
HA 416 X	31	Foot Lift Lever Casting	50
420	20	··· ·· Stud	20
HA 421	34	" " Chain	30
422	34	" Treadle	20
423	34	" " Rest	15
424	34	" " Pin	05
		" " " Screw No. 98	03
HA 426	23	" Lift Lever Spring	05
482	21	Looper Intermediate Shaft Collar	25
	10.00	··· ·· ·· Screw No. 98	03
HA 482 A	21	Presser Bar Collar, also for No. HS 65 X	20
		" " Screw No. 88	03
		DCrew INO. 55	03

PRICE LIST OF PARTS [1216-1275 C]

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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
		Parts for Class 81000 Machines	
1216	31	Spreader Lever and Looper Lever Connection, com-	
		plete (includes Nos. 15430,	
	1 - 4	15430 C, 15430 D, 15430 E,	
	1.18	15430 F, 15430 H, 15430 K	
	R	and 15430 L)	3 00
1216 B	_	" " Looper Lever Connection, com-	
	10000	plete (includes Nos. 1230,	
		1230 C, 15430 C, 15430 D,	
		15430 L and 15430 M)	2 30
HA 1217	31	Needle Lever Connection, complete (includes Nos.	
		15430 C, 15430 D, 15430 E, 15430 H, 15430 K,	
	1.	15430 L, HA 15431 and HA 15431 F)	3 75
1230	-	Spreader Lever and Looper Lever Connection Bear-	
	1. 5-16	ing, upper (includes Nos.	
		1230 A, 1230 B, 1230 D and	
	1.1.25	22586 A)	1 00
‡1230 A	-	" " Looper Lever Connection Bear-	
		ing, upper, without spring,	
	1	pin or guiding serew	85
$1230 \mathrm{B}$	-	" " Looper Lever Bearing Spring.	05
1230 C	-	Looper Level Tube (length	
		over all 2 15/16 inches)	30
$1230 \mathrm{D}$		Looper Lever spring 1 m	00
1275	27	Needle Lever Stud (hardened and ground) internal	
	1 1 215	oiling, with screw, standard size	1 50
1077 1		" " (' (hardened and ground) internal	1 00
1275 A	-	oiling, without screw, stand-	
		ard size	1 4
1275 B		" " " " " " " " " " " " " " " " " " "	T T
1273 D		oiling, with screw, extra size	
		on frame end (specify the	
		number of thousandths of an	
	- 65	inch larger than standard	
	1. 1. 1. 1.	size) made only to order	1 7
1275 C	1	" " (hardened and ground) internal	
12.00		oiling, with screw, extra size	
		on lever end (specify the	
	1 12	number of thousandths of an	
	123	inch larger than standard	
	12113	size) made only to order	1 75

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[1275 D-†1286] PRICE LIST OF PARTS

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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
1275 D	-	Parts for Class 81000 Machines Needle Lever Stud (hardened and ground) internal oiling, with serew, 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	-	" " " " " " " " " " " " " " " " " " "	1 70
1275 F		" " " " " " " " " " " " " " " " " " "	1 70
1275 G	-	" " " " " " " " " " " " " " " " " " "	1 95
		order	1 95
HS1276	27	Spreader Lever and Looper Lever Stud (hardened and ground) '' '' Looper Lever Stud Screw No. 22586	1 75 08
1280	21	Needle Lever Bolt Nut	10
†1286	24	 Bar Link Pin (hardened and ground, length over all 5% inch) complete, internal oiling 	30 03 03

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PRICE LIST OF PARTS [†HA 1286-15430 F]

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

	1		
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 or- dering. Prices subject to change without notice. TERMS ON PARTS, NET CASH.	Price per Part
		Parts for Class 81000 Machines	
+HA 1286	6	Needle Bar Link Pin (hardened and ground, length	
1111,1200		over all % inch) complete,	
	in the second	internal oiling	35
	10.00	"" " " Screw, upper, No. 78	03
	1 million	"" "" "" lower, No. 77	03
1346	20	Tension Post, length over all 1 11/16 inches, for	
1010		use with hardened steel ferrule	
	- Carlos	No. 1347	20
HA 1346 A	20	" (length over all 1 1/16 inches) for	
HA 1940 A	20	use with hardened steel ferrule	
		No. HA 1347 A	10
10.45	21	Tension Post Ferrule (length over all 5/16 inch,	10
1347		hardened) for use with	
3	1.0000	tension post No. 1346	08
TTA 1047 A	22	" " " " " " " " " " " " " " " " " " "	00
HA 1347 A	44	rerrule (length over all 9/52 men	
	1	hardened) for use with tension	10
TT 1 10 10	22	post No. HA 1346 A	10
HA 1348	22	rerrue (length over all % men,	
	1.1	hardened) for use with	
	11	tension post Nos. HS 106	15
TT 1 1010	00	and HA 106 A	15
HA 1349	22	bleeve, for use with 1005. 110100 and	10
		HA 106 A	10
6042	20	Needle Lever Bolt	20
†7940	30	Looper Intermediate Lever Connection	70
HA 12873	22	Bushing (ground) for needle bar bearings	30
		" Screw No. 136	08
15430	31	Spreader Lever and Looper Lever Connection Bear-	
	1	ing, lower, for No. 1216	75
		Lever and Looper Lever Connection Bear-	
		ing Screws No. 22587	05
$15430~\mathrm{C}$	21	" Lever and Looper Lever Connection Tube	
		Nut, upper, left thread	10
15430 D	21	" Lever and Looper Lever Connection Tube	
	1	Nut, lower, right thread	10
15430 E	31	Lever and Looper Lever Connection Dear-	
	12	ing, upper, also for No. HA 1217	70
		Lever and Looper Lever Connection Dear-	
		ing Screws No. 22587	05
$15430~{ m F}$	31	" Lever and Looper Lever Connection Tube,	
	1 1 2 1	with oil reservoir	1 10

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[15430 H-80031] PRICE LIST OF PARTS

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 mai The figures in the second column refer only to th plates illustrating parts, and are not to be used in o dering. Prices subject to change without notic TERMS ON PARTS, NET CASH.	e Price • per
		Parts for Class 81000 Machines	
$15430~\mathrm{H}$	21	Spreader Lever and Looper Lever Connection (il
		Reservoir Cover, also for No. HA 15431	F 2.
15430 K	23	" Lever and Looper Lever Connection C	
		Reservoir Leather Washer	
$15430 \mathrm{M}$	32	" Lever and Looper Lever Connection Bea	r-
		ing, lower, for No. 1216 B	
HA 15431	31	Needle Lever Connection Bearing, lower	
		······ ·· ·· Screws No. 225	7 0
HA~15431 F	31	" " " Tube, with oil reservoi	. 11
21202	_	Screw Driver, round steel (diameter 7/32-inc	h.
		length over all 10 3/16 inches	/
21204	-	" " round steel (diameter 1/4 ind	h.
	1.1.7	length over all 15 inches)	
21388	-	Wrench, for nuts Nos. 18, HA 18 A, 37 L, 37	
	1000	HA 56 and 1280	
21388 B	-	" (1/2-inch 43/8 inches long, hardened) f	or
	18.18	nuts Nos. 15430 C and 15430 D	. 2
HA 21681	31	Machine Bed Screw	
22508	19	Screw, for base, for thread stand	. 0
22526	18	" for needle lever rolling thread guide suppo	rt 0.
22560	18	" for needle lever rolling thread guide ax	e,
		also for Nos. HS 36 B, HS 102, HS 113	
		1286 and HA 1286	. 0
22569	19	" for feed rocker eccentric connection	. 0
22574	18	" for cloth plates	. 0
22586	18	" for needle lever studs, also for No. HS 12	6 0
22587	19	'' for feed rocker eccentric connection, also f	or
	1.2	Nos. 15430, 15430 E, 15430 M, HA 154	1 0
80016	31	Needle Lever Connection, complete (includes No	s.
		1230, 15430 C, 15430),
		15430 L, HA 15431 a	d
		80031	. 3 4
80031	-	" " " Tube, without oil rese	
		voir for No. 80016.	
	1		1.000

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