

Union Speciale LEWIS® . COLUMBIA®

INDUSTRIAL SEWING MACHINES



STYLES

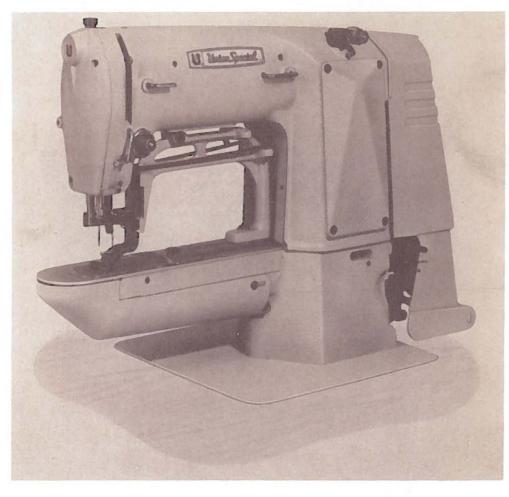
P260-9/108

P260-9/109

P260-9/126

P260-9/139

P260-9/141



CLASS P260

HIGH SPEED SINGLE NEEDLE LOCKSTITCH
MACHINES FOR GENERAL BARRING
AND TACKING OPERATIONS

NO.
P3148

UNION SPECIAL CORPORATION

CHICAGO

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DESCRIPTION

Machines of Class P260 are single-needle, lockstitch machines designed for barring and tacking operations. The machines will produce the number of stitches indicated in their individual descriptions and will stop automatically with needle in raised position upon completion of stitching cycle.

General Characteristics

Fully enclosed starting and stopping mechanism, machine pulley and driving belt.

Manually operated work clamp and thread trimming device actuated by foot treadle.

Link take-up, short beak, central bobbin, oscillating shuttle on horizontal axis.

Automatic stop and clutching device.

Two-piece machine pulley (tight and loose). Outside diameter of V-belt groove 3-1/4 inches.

Needle bar stroke: 1-9/16 inches.

Clearance under clamp: 5/8 inch.

Cylinder bed. Flat bed type work plate furnished on request.

Special Features

Style P260-9/108 — for barring pockets and general barring and tacking operations on clothing, etc. Forms a bar 1/8 to 5/8 inch long and 1/16 to 5/32 inch wide consisting of 42 stitches (12 staying, 27 covering and 3 tying stitches). Space behind needle, 8 inches.

Style P260-9/109 — for barring buttonholes and fastening bows and other ornaments on shoes and garments. Forms a bar 1/8 to 5/16 inch long and 1/16 to 5/32 inch wide, consisting of 21 stitches (7 staying, 11 covering and 3 tying stitches). Space behind needle, 8 inches.

Style P260-9/126 — for barring pockets and other general barring and tacking operations. Forms a bar 1/8 to 5/8 inch long and 1/16 to 5/32 inch wide consisting of 28 stitches (8 staying, 17 covering and 3 tying stitches at left rear corner of bar). Space behind needle, 8 inches.

Style P260-9/139 — for tacking belt loops on trousers, shorts, etc. Forms a line tack 1/8 to 1/2 inch long consisting of 28 stitches (including 3 tying stitches). Space behind needle, 8 inches. Regularly furnished with flat bed type work plate.

Style P260-9/141 — for barring pockets, etc., on 13 to 14 plies of 15 oz. denim or equivalent. Forms a bar 1/8 to 5/8 inch long and 1/16 to 5/32 inch wide consisting of 28 stitches (8 staying, 17 covering, 1 cross and 2 tying stitches). Space behind needle, 8 inches.

LUBRICATION

For best results, use proper "Type B" or "Type D" Oil. Use "Type D" Oil when an oil is desired to produce a minimum of stain on fabric.

Daily Care

Before starting machine, apply a few drops of oil to each of the holes indicated in Fig. 2.



Remove face plate, and apply a drop of oil to each of the points indicated in Fig. 3.

NOTE: At least once each year, machine pulley (loose) should be removed and repacked with ball bearing lubricant.

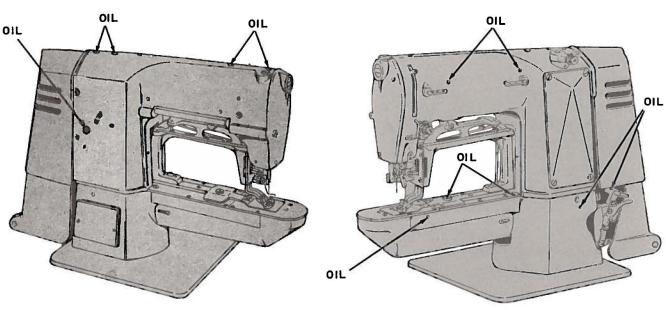
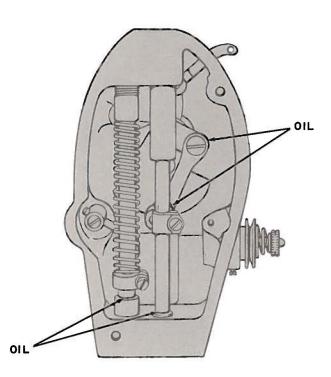


Fig. 2. Lubricating the Machine



Cleaning

Using a short bristled brush (not point of scissors or shears), clean out all lint and other waste from around the shuttle and all other parts of the sewing area.

Wipe off all excess oil which may come in contact with material to be sewn.

SPEED

Maximum speed recommended for these machines is 2,000 stitches per minute, except Style P260-9/141 which is 1,200-1,600.

Maximum efficient speed is determined upon the nature of the operation, the ability of the operator and type of material being sewn.

Fig. 3. Oiling Points Behind Face Plate

NEEDLES

The size needle to be used is determined by the size of the thread which must pass freely through the eye of the needle. Needle type P1628 is recommended for these Class P260 machines.

To Set the Needle

With machine in "stop" position loosen needle clamping screw, shown in Fig. 4.

Insert needle up into needle bar as far as it will go making certain that the long continuous groove of the needle, faces toward the operator as shown in Fig. 4. Then securely tighten clamping screw.

THREAD

Use only left twist thread in the needle and either left or right twist thread in the bobbin.

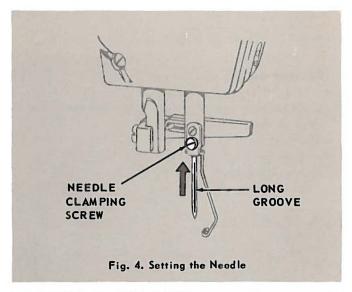
To determine the twist, hold thread as shown in Fig. 5. Then twirl thread over toward you. Thread is left twist if strands tighten; right twist if strands unwind.

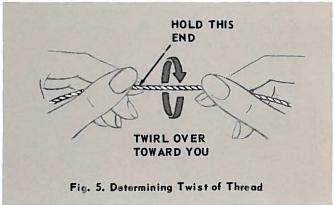
UPPER THREADING

Pass needle thread from the unwinder through all points indicated in Fig. 6. Inset in Fig. 6, shows correct threading of needle.

Draw approximately two inches of thread through the eye of the needle with which to start sewing.

NOTE: Threading of upper thread retainer used only on Style P260-9/109 in place of eyelet, is shown in inset in Fig. 6. Lower thread retainer, Fig. 6, is not used on Style P260-9/109.





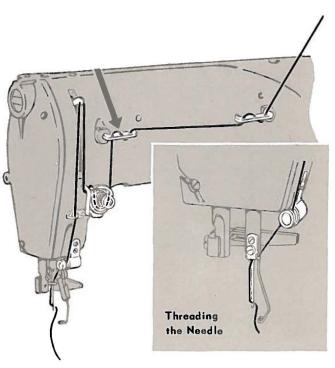


Fig. 6. Threading the Machine

LOWER THREADING

Bobbin Removal

Open front end of cylinder bed and remove bobbin case as shown in Fig. 7.

Release latch and bobbin will drop out of case, as shown in Fig. 8.

To Wind the Bobbin

Place bobbin on bobbin winder spindle, as shown in Fig. 9.

Pass thread from the unwinder through threading points indicated in Fig. 9. Wind thread clockwise around bobbin a few times.

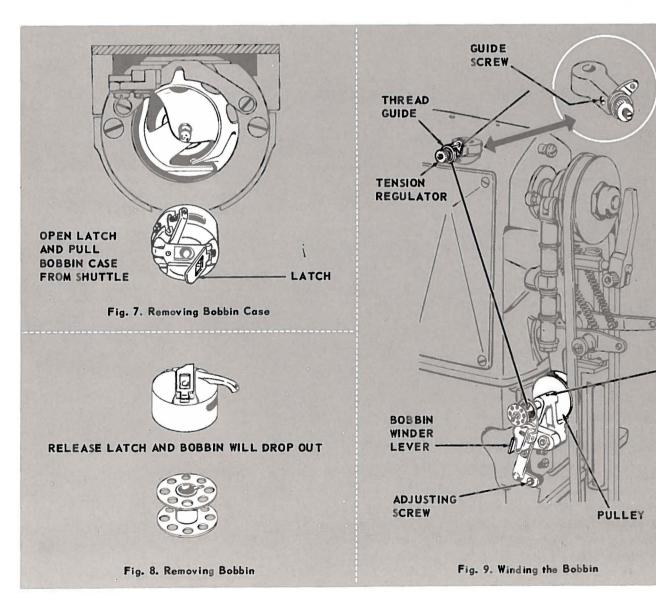
Push bobbin winder lever toward rear, bringing its pulley into contact with machine belt. The bobbin winder will automatically release when bobbin is full.

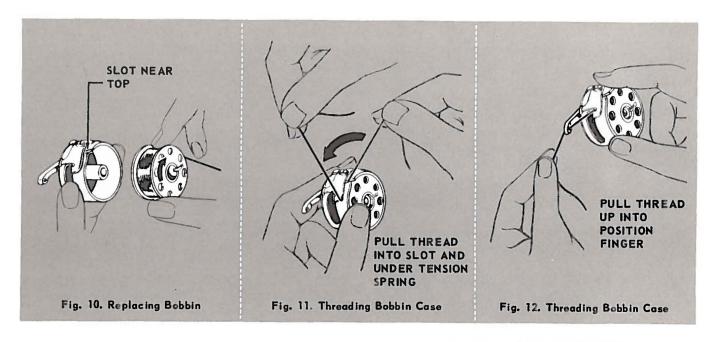
Adjustment for uneven winding can be made by loosening thread guide screw, Fig. 9, and moving thread guide forward or backward, as required. When correct setting is obtained, tighten guide screw.

Adjusting Bobbin Winder

Bobbin winder pulley, Fig. 9, should press firmly against machine driving belt when winding the bobbin. To adjust, place bobbin winder in winding position, loosen adjusting screw, Fig. 9, and move pulley as required. Then securely tighten adjusting screw.

OIL





Threading Bobbin Case

Hold bobbin so that thread will unwind in the direction shown in Fig. 10. Hold bobbin case as shown and place bobbin into case.

Pull thread into slot and under tension spring, Fig. 11. Then up into position finger, as shown in Fig. 12. Draw approximately two inches of thread from bobbin with which to start the sewing.

Bobbin Case Replacement

While holding latch open, place bobbin case on stud of bobbin case holder, (see Fig. 13). Release latch and press bobbin case back until latch engages groove of stud.

THREAD TENSION

Tension of thread should be as light as possible while still sufficient to set the stitch correctly in the material.

Needle Thread Tension

Tension on needle thread is regulated by thumb nut in front of tension discs, as shown in Fig. 14.

Bobbin Thread Tension

Tension on bobbin thread is regulated by screw on bobbin case tension spring, as shown in Fig. 15.

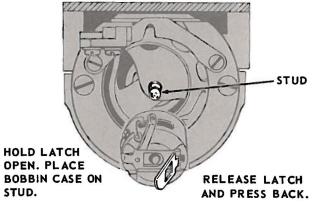


Fig. 13. Replacing Bobbin Case

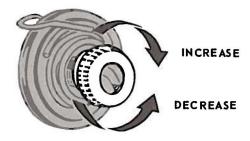


Fig. 14. Adjusting Needle Thread Tension

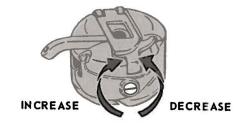
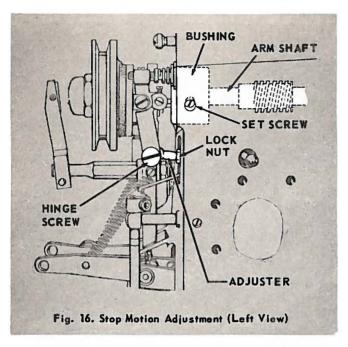
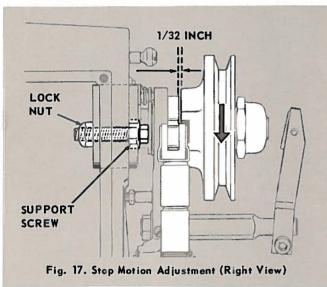
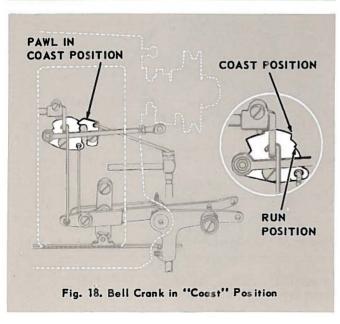


Fig. 15. Adjusting Bobbin Thread Tension







STOP MOTION ADJUSTMENTS

ARM SHAFT

Before any adjustment is made on the stop motion mechanism, check the adjustment of the arm shaft.

Check:

There should be a minimum of play without binding in the arm shaft, shown in Fig. 16.

Adjustment:

To adjust end play, loosen rear bushing set screw, Fig. 16, and support screw lock nut, Fig. 17. Move rear bushing outward by turning support screw, Fig. 17, in a clockwise direction. Then securely tighten bushing set screward support screw lock nut.

Check adjustment to be certain that end play is at a minimum and there is no binding.

STARTING LEVER

Check:

Depress starting lever to engage machine in "run" position. Turn machine pulley over, as indicated in Fig. 17, until bell crank pawl moves back into the first or "coast" position in bell crank, as shown in Fig. 18.

At this position, there should be approximately 1/32 inch clearance between the interlocking arm and the high point of camming surface on machine pulley, as indicated in Fig. 17.

Adjustment:

Loosen starting rod adjuster lock nut and remove hinge screw shown in Fig. 16. Turn starting rod adjuster in or out one full turn for each 1/32 inch of adjustment required to obtain the correct clearance. Then replace hinge screw and tighten lock nut.

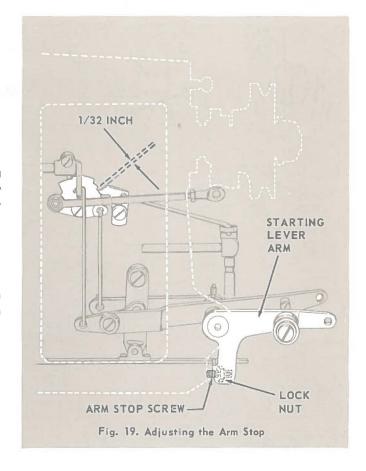
STARTING LEVER ARM STOP

Check:

When correctly set, the starting lever arm stop, Fig. 19, should limit the clearance between the starting bell crank and the bell crank pawl to approximately 1/32 inch past the "run" notch when the starting lever arm is depressed.

Adjustment:

Loosen arm stop screw lock nut, Fig. 19, and turn arm stop screw until proper clearance is attained. Then tighten lock nut.



PINCH SCREW Fig. 20. Engaging Arm Adjustment

ENGAGING ARM

Check:

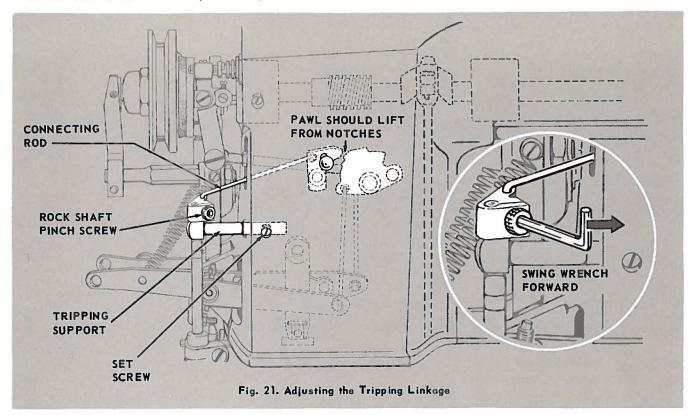
When the engaging arm is properly adjusted, the "V-belt" will rise approximately 1/32 inch off bottom of idler pulley and up the side of the driving pulley, as shown in Fig. 20, when starting lever arm is depressed to "run" position.

Adjustment:

With engaging arm, Fig. 20, in "running" position, loosen engaging arm pinch screw and move engaging arm closer to or farther from starting cap as required. Then securely tighten pinch screw.

NOTE: Tension on "V-belt" should be just sufficient to operate machine without slippage. Adjustment is made by raising or lowering the motor, and should be made in connection with engaging arm adjustment.

STOP MOTION ADJUSTMENTS (continued)



TRIPPING ROCK SHAFT SUPPORT

Check:

The tripping rock shaft support, Fig. 21, should be positioned to hold tripping rock shaft without binding.

Adjustment:

Loosen set screw, Fig. 21, and position support in or out as required. Then tighten set screw and recheck for binding.

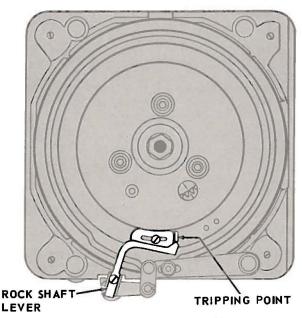


Fig. 22. Lever on Tripping Point

TRIPPING LINKAGE

Check:

When point of tripping rock shaft lever rests on tripping point, as shown in Figs. 22 or 24, the bell crank pawl should be lifted out of notches in bell crank far enough for the interlocking arm to move into "stop" position.

Adjustment:

Turn machine pulley over toward operator until point of rock shaft lever rests on tripping point. Loosen rock shaft pinch screw, Fig. 21, using 5/32 inch hex-head wrench. With wrench (inserted in pinch screw) acting as a lever, move rock shaft connection forward (toward face plate) raising bell crank pawl approximately .010 inch above top of "coast" notch in bell crank, as shown in Fig. 21. Then securely tighten pinch screw.

NOTE: The procedure for adjusting the tripping linkage mechanism on machines which have more than one tripping point is the same as the procedure outlined for machines which have one tripping point.

TIMING TRIPPING POINTS

Check:

Tripping point or points on underside of feed cam should be set so that the interlocking arm will drop back against the camming surface of machine pulley as soon as the notch on pulley passes the interlocking arm prior to going into stop position

Adjustment:

On machines equipped with feed cams with tripping point shown in Fig. 23, loosen tripping point screw and move tripping point to the right to trip off sooner, or to the left to set trip off later. On machines having more than one tripping point, each tripping point must be adjusted independently.

On machines equipped with feed cams with tripping point shown in Fig. 24, it is necessary to loosen the three tripping point screws, then, set the same as above.

STOP MOTION BRAKE

CLEARANCE

Check:

The clearance between the stop motion brake shoe, Fig. 25, and the machine pulley (tight) should be approximately 1/32 inch when the machine is in "run" position.

Adjustment:

With machine in "run" position, loosen eccentric stud set screw, Fig. 25, and turn eccentric stud until the proper clearance is attained. Then tighten set screw.

PRESSURE

Check:

The brake pressure, depending upon machine speed and material being sewn, should be adjusted to prevent machine from going into full stop position while running at excessive speed; to avoid damaging machine parts.

Adjustment:

Loosen adjusting screw pinch screw, Fig. 25, and turn adjusting screw inward for more pressure, or outward for less pressure. Then tighten pinch screw.

NOTE: Stop motion brake adjustment should be readjusted about once a month, to offset any loss in braking power due to wear or glazing of the braking surface.



Fig. 23. Tripping Point on Cast Iron Cam

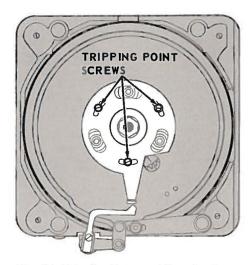
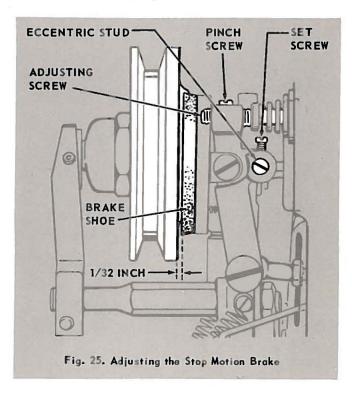


Fig. 24. Tripping Point on Phenolic Cam



KNIFE ACTUATING AND CLAMP LIFTING ADJUSTMENTS

SAFETY INTERLOCK

Check:

The safety interlock, when correctly set, will prevent the clamp from being lifted while the machine is operating and will prevent the machine from running when the clamp is lifted.

Adjustments:

With knife roller at the clear-out slot in the feed cam, depress starting lever to place starting bell crank into running position. Loosen knife bar driving lever pinch screw, Fig. 26, and lift up on clamp lifting lever arm with screwdriver, as shown in Fig. 26, bringing lifting lug against back of bell crank. While maintaining this position of the lifting lug, make certain that the knife roller is in against the cam and then tighten the pinch screw.

TENSION RELEASER

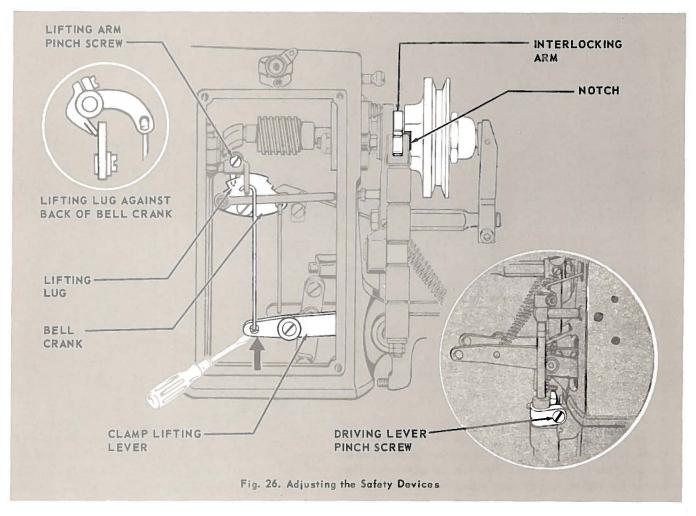
Check:

When work clamp is raised, the first upward movement of the clamp lifting bar, Fig. 27, should separate the needle thread tension discs, releasing tension on needle thread.

Adjustment:

Loosen the tension regulator set screw, Fig. 27, and move the entire regulator all the way in. Tighten set screw. Then loosen the lifting link connection screw, Fig. 27, and set lifting link so that it projects out of the rock shaft approximately 1/32 inch. Tighten screw.

Next, loosen the lifting arm pinch screw, Fig. 26, and push upward on lifting bar, as shown in Fig. 27, until tension discs just begin to release. Maintain this position while tightening the lifting arm pinch screw. Make certain that the lifting arm is up against the forward shoulder on the rock shaft.



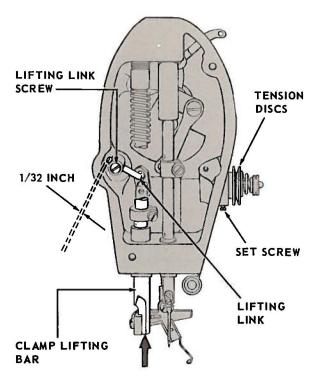


Fig. 27. Adjusting Tension Releaser

WORK CLAMP FOOT LIFTER

Check:

The work clamp foot lifter should be positioned approximately 1/16 inch below the clamp feet shank pins (or arm hook) and parallel to the front of the machine, as shown in Fig. 28.

Adjustments:

Loosen lifting bar clamp screw, Fig. 29, and raise or lowerfoot lifter to correct position as shown in Fig. 28. Then tighten clamp screw.

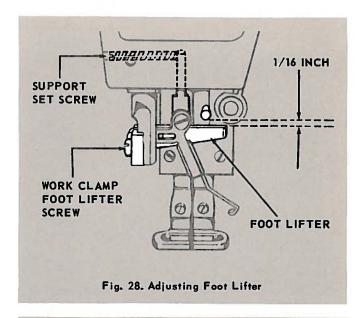
THREAD WIPER

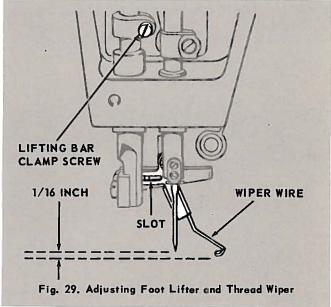
Check:

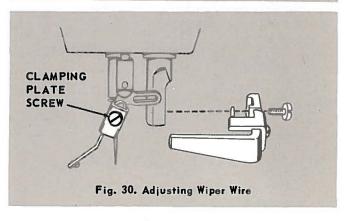
The body finger slot of the thread wiper should be approximately horizontal when the work clamp is in down position. As the work clamp is raised, the thread wiper wire should swing toward the left clearing the needle by approximately 1/16 inch. See Fig. 29.

Adjustment:

To adjust the body finger slot, loosen support set screw, Fig. 28, and raise or lower the support until slot is in correct position. Then tighten set screw. To adjust the thread wiper wire, remove work clamp foot







lifter screw, Fig. 30, and remove foot lifter. Swing upper wire toward the left, loosen wiper wire clamping plate screw, Fig. 30, in rear of wiper body and raise or lower wiper wire to correct position. Then, tighten clamping plate screw and replace foot lifter.

FEED MECHANISM ADJUSTMENTS

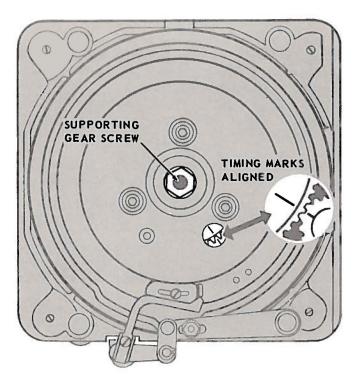
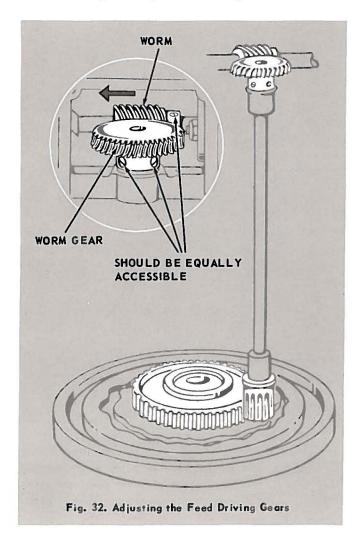


Fig. 31. Alignment of Timing Marks



FEED DRIVING GEARS

Check:

When the machine is in stop position, the timing marks on the cam supporting gear and the vertical shaft pinion gear should be aligned, as shown in Fig. 31, and there should be a minimum of play between driving gears.

NOTE: If for any reason the feed cam and supporting gear are removed, make certain they are replaced with the timing mark on the supporting gear aligning with timing mark on pinion gear.

Adjustment:

To remove excessive play between worm gear and worm, loosen the two screws in worm (see inset Fig. 32) and move worm forward on shaft.

When the worm gear is properly assembled on vertical shaft, the spot and set screws, shown in Fig. 32, should be equally accessible through the side opening in arm casting when the feed cam supporting gear and vertical shaft pinion gear timing marks are aligned.

To remove excessive play between vertical shaft pinion gear and cam supporting gear, insert wrench through hole in center of supporting gear screw and loosen the supporting gear bracket socket head screw. Then, by means of the "hex" head on the supporting gear screw, turn the bracket (which is eccentric) until only the minimum amount of play exists between the gears. Tighten the socket head screw inside supporting gear screw.

FEED LINKAGES ON BARRING AND TACKING MACHINES:

CENTERING LATERAL FEED

Check:

The lateral feed linkage, when correctly adjusted, will ensure that when the length of bar or tack is changed, it will change in size equally on both sides of the throat plate needle hole.

Adjustment:

First determine the position of the needle in relation to the clamping foot so that the feed carrier bar can be returned to its original position after adjustment has been made, e. g., insert a piece of paper under clamping foot, engage machine into "run" position, turn pulley over toward the tight side of machine slowly until needle just punctures the paper, then turn pulley over toward left side of machine to raise the needle. Leave paper under the clamp during adjustment as this will indicate the original position of the needle.

To adjust, loosen lateral pivot driving arm pinch screw and driving arm pinch screw, Fig. 33, and position feed plate carrier bar so it is centered laterally across the cylinder (or center of clamping feet is aligned with the needle).

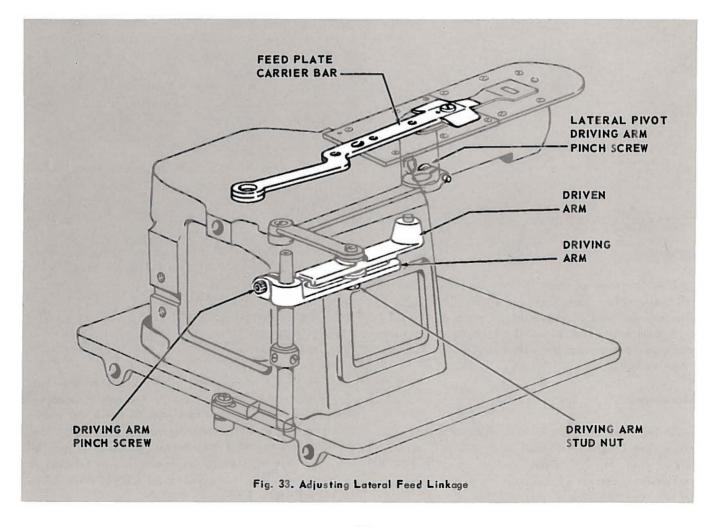
At this position, the lateral feed rock shaft driven arm and the driving arm should be parallel, as shown in Fig. 33. If necessary, move linkage to obtain this position. Then tighten the lateral pivot driving arm pinch screw. Next, return feed carrier bar to its original position. (A check can be made by lowering the needle into puncture hole previously made in paper.) Then tighten the driving arm pinch screw.

TO ADJUST LENGTH OF TACK

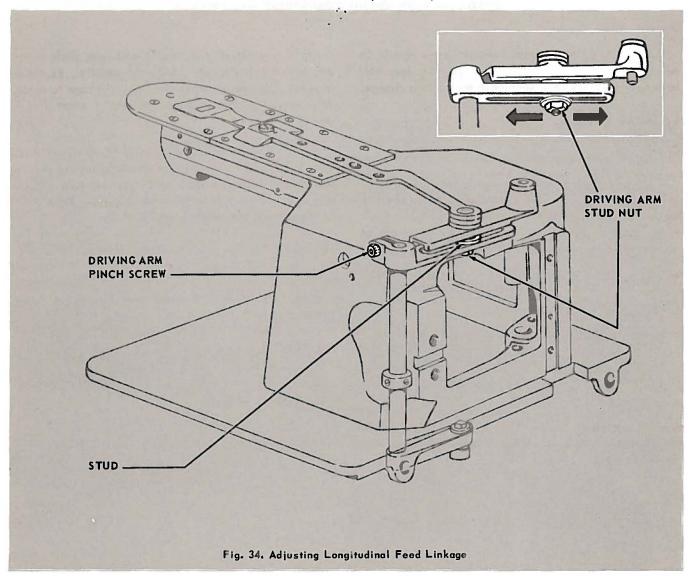
Adjustment:

Loosen the lateral driving arm stud nut, Fig. 33, and slide stud toward front of machine to increase the length of tack (across the bed). To decrease the length of tack, slide stud toward rear of machine. Then tighten stud nut.

NOTE: After this adjustment is made, it may be necessary to adjust the feed carrier bar in relation to the needle as instructed under CENTERING LATERAL FEED.



FEED LINKAGES ON BARRING AND TACKING MACHINES (continued)



CENTERING LONGITUDINAL FEED

Check:

The longitudinal feed, when correctly adjusted, will insure that when the width (bight) of tack is changed, the feed plate moves the same distance forward from the throat plate needle hole as it moves backward preventing the needle from striking the clamping foot.

Adjustment:

Through access hole in right side of upright arm, loosen the longitudinal rock shaft driving arm pinch screw, Fig. 34, and move clamping foot forward or backward in correct relation to the needle. Then retighten the pinch screw.

With machine in "run" position, turn machine pulley slowly while checking to see that the needle does not strike the clamping foot during its longitudinal movement.

TO ADJUST WIDTH OF TACK

Adjustment:

Loosen the longitudinal driving arm stud nut, Fig. 34, and slide stud to the right (facing rear of machine) to increase the width of tack. To decrease the width, slide stud to the left. Then tighten the stud nut.

NOTE: After this adjustment is made, it may be necessary to adjust the feed plate in relation to the needle as instructed under CENTERING LONGITUDINAL FEED.

FEED LINKAGES ON BUTTON SEWING MACHINES

Lateral and longitudinat feeu rinkages should be adjusted when changing from two or from four hole buttons or when the hole spacing in the buttons change.

LATERAL FEED

Check:

The lateral feed linkage, when correctly adjusted, will ensure that the feed plate moves the same distance on one side of the throat plate needle hole as it moves on the other side. This equal distance can be increased or decreased as required.

To Obtain Equal Distance:

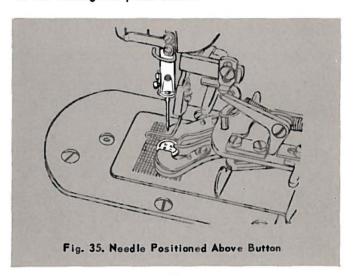
Remove cylinder arm cover.

Insert button to be sewn into clamp, engage machine into "run" position and rotate machine pulley until needle is just above button, as shown in Fig. 35.

Loosen lateral pivot driving arm pinch screw and driving arm pinch screw, Fig. 36, and position feed plate so that button is centered laterally (across cylinder) as shown in Fig. 36.

At this position, the lateral feed rock shaft driven arm and the driving arm should be parallel, as shown in inset, Fig. 36. If necessary, move linkage to obtain this position. Then tighten the lateral pivot driving arm pinch screw.

Next, obtain correct position of needle in relation to holes in button by turning machine pulley and moving feed plate to bring needle into right rear hole of fourhole button or rear hole of two-hole button. Then tighten the driving arm pinch screw.



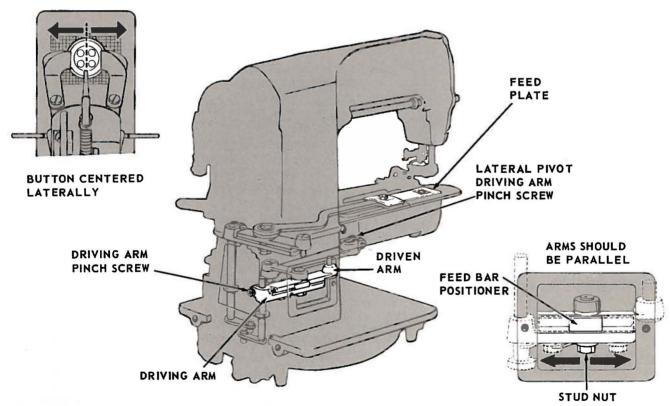


Fig. 36. Adjusting Lateral Feed Linkage

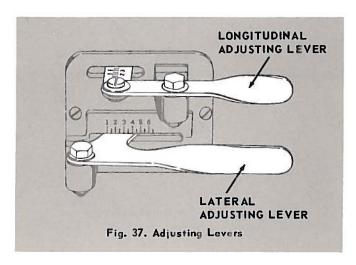
FEED LINKAGES ON BUTTON SEWING MACHINES LATERAL FEED (continued)

To Increase or Decrease Distance:

When sewing two-hole buttons, move the lateral adjusting lever (lower lever), Fig. 37, in toward the machine as far as it will go.

When sewing four-hole buttons, move the lateral adjusting lever (lower lever), Fig. 37, away from the machine until position is attained where needle will enter the left hand hole in button when machine pulley is turned.

When correct adjustment is attained, the lever can be locked into position by tightening the hex head screw.



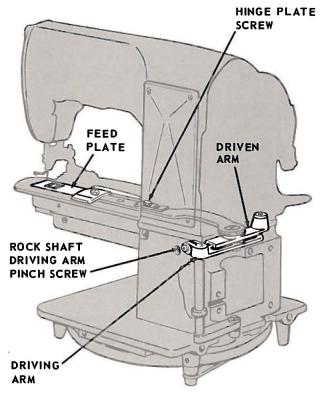


Fig. 38. Adjusting Longitudinal Feed Linkage

LONGITUDINAL FEED

Check:

The longitudinal feed, when correctly adjusted, will ensure that the feed plate moves the same distance forward from the throat plate needle hole as it moves backward. This equal distance can be increased or decreased as required.

To Obtain Equal Distance:

Insert button to be sewn into clamp, engage machine into "run" position and rotate machine pulley until needle is just above button, as shown in Fig. 35.

Loosen arm hinge plate screw, Fig. 38, and longitudinal rock shaft driving arm pinch screw. Move feed plate so that button is centered longitudinally (along the bed) under the needle as shown.

At this position, the longitudinal rock shaft driving arm and the driven arm should be parallel. If necessary, move linkage as required to obtain this position. Then securely tighten the hinge plate screw.

Next, obtain correct position of needle in relation to the holes in the button by turning machine pulley, and moving feed plate to bring needle into right rear hole of four-hole button or rear hole of two-hole button. Then securely tighten the longitudinal rock shaft driving arm pinch screw.

To Increase or Decrease Distance:

With needle positioned over rear hole in button, move the longitudinal adjusting lever (upper lever), Fig. 37, in toward the machine until position is attained where needle will enter the forward needle hole when machine pulley is turned. Movement of the lever in toward the machine, will increase the feed distance; movement from the machine, will decrease the distance.

When correct adjustment is obtained, the lever can be locked into position by tightening the hex head screw.

TIMING THE FEED

NOTE: Longitudinal feed timing should be set before making any lateral timing adjustment.

Check:

The movement of the feed bar, Fig. 40, should be stopped before the needle enters the work. Feed bar should not begin to move until the needle leaves the work.

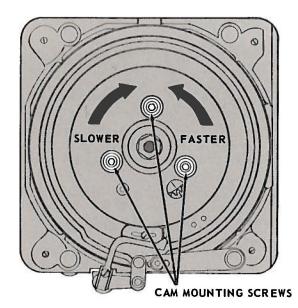


Fig. 39. Timing Longitudinal Feed

Longitudinal Timing:

To time the longitudinal feed movement, loosen the three cam mounting screws, Fig. 39. Then rotate the cam counter-clockwise (as viewed from bottom of machine) to speed up the feed in relation to the needle movement, or clockwise to slow down the movement. When correct adjustment is obtained, securely tighten the cam screws.

Lateral Timing:

To time the lateral feed movement, loosen the lateral rock shaft roller stud nut, Fig. 40. Move roller to the left (as viewed from rear of machine) to slow down the feed in relation to needle movement, or to the right to speed up the feed movement. When correct adjustment is obtained, securely tighten the roller stud nut.

KNIFE TIMING

Check:

To check the knife timing, turn the machine cycle to the stitch before the shuttle thread knife (Fig. 42, page 20) moves across the needle hole (two needle penetrations before the machine goes into stop). Tilt the machine back on its hinges, turn the tight pulley by hand and observe the motion of the shuttle in relation to the shuttle thread knife.

When correctly timed, the shuttle thread knife will start to move toward the right when the "pocket" (the space between the heel of the shuttle and the shuttle driver) comes within 1/8 inch of the end of its stroke, at the top right hand side of the race.

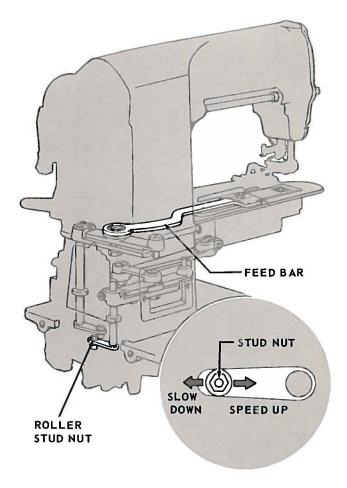
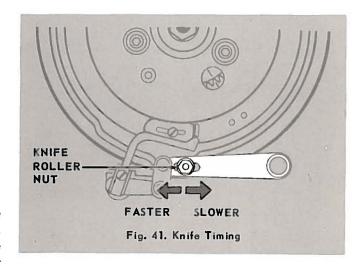


Fig. 40. Timing Lateral Feed



Adjustment:

For faster knife action in relation to the movement of the needle and shuttle, loosen the knife roller nut, Fig. 41, and move roller toward the left, as viewed from bottom of feed cam.

For slower knife action, loosen the knife roller nut and move roller toward the right.

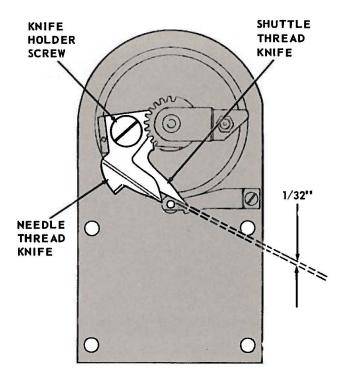
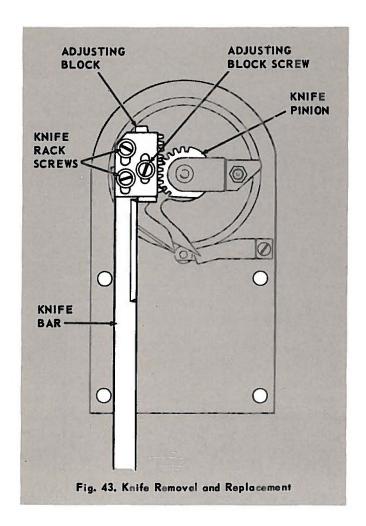


Fig. 42. Knife Positioning



KNIFE POSITIONING

Check:

With machine tilted back, engage starting lever in 'run' position and turn machine pulley by hand until a position between the second and third stitch in the machine cycle has been reached. Continue turning pulley, and as the needle moves down in the area between the needle thread knife and shuttle thread knife, the needle should be approximately 1/32 inch from the inside of the shuttle thread knife, as shown in Fig. 42.

NOTE: This setting should also be checked during the last two stitches of machine cycle.

Adjustment:

To position knives, loosen the two knife rack screws, Fig. 43, and slide knife rack along knife bar until correct position is obtained. Then retighten screws making certain that the rack is set firmly against the knife bar.

Should there be excessive play between the knife rack and pinion, loosen the two rack screws and adjusting block screw, Fig. 43. Slide adjusting block forward until excessive play has been removed and tighten the three screws. Then recheck knife position.

KNIFE REMOVAL AND REPLACEMENT

Removal:

Tilt machine back on its hinges. Remove the two knife rack screws, Fig. 43, and slide rack up out of engagement with knife pinion. Then remove knife holder screw and remove knives.

Position knives on holder and replace screw. Mesh first tooth of knife rack with first tooth of pinion. Slide rack down along knife bar and fasten in place with the two screws. Then check knife position.

SEWING MECHANISM ADJUSTMENTS

POSITIONING SHUTTLE DRIVER

Check:

The shuttle driver should be positioned in relation to the needle with sufficient clearance (approximately .002 to .010 inch) to prevent the shuttle point striking the needle.

Adjustment:

With machine in drive position, rotate machine pulley until needle bar is at bottom of stroke. Then using an Allen wrench, loosen the shuttle driver pinch screw, Fig. 44. Loosen the shuttle shaft bushing (front inner) set screw and move the shuttle driver and bushing to correct position. Tighten the shuttle shaft bushing set screw.

SHUTTLE TIMING

Check:

Loop taking occurs when needle bar has risen .100 inch from bottom of stroke. At this position, the shuttle point should be at centerline of needle, as shown in Fig. 45.

NOTE: A gauge for positioning needle bar .100 inch from bottom position is available upon request at additional charge.

Adjustment:

With needle bar positioned .100 inch above bottom of stroke, rotate the shuttle driver, by means of the Allen wrench, until the shuttle point is correctly positioned. Then securely tighten the shuttle driver pinch screw.

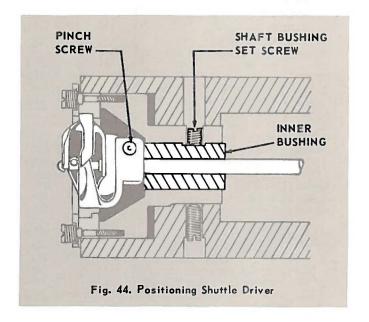
NEEDLE BAR HEIGHT

Check:

Needle bar height should be set so that the shuttle point is just above the needle eye (approximately 1/16 inch) at loop taking, see Fig. 45.

Adjustment:

Rotate shuttle, by machine pulley, until point of shuttle is at centerline of needle. Remove face plate and loosen needle bar pinch screw. Raise or lower needle bar until correct position is obtained. Then securely tighten pinch screw and replace face plate.



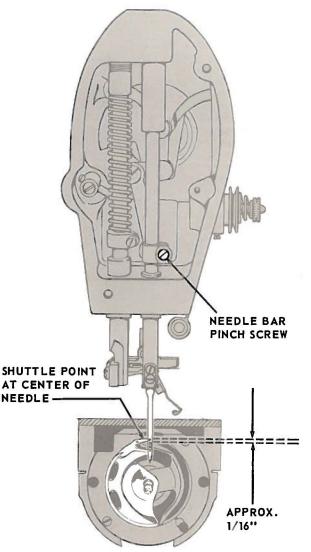


Fig. 45. Needle Bar Height and Hook Timing

NUMERICAL LIST OF PARTS MACHINE P260-9/108

NUMBER	DESCRIPTION	NUMBER	DESCRIPTION	NUMBER	DESCRIPTION
171(830)	Adjusting Screw Pinch	32377	Oscillating Shaft Crank	141407(869)	Worm Position Screw
1/1(630)	Screw	320,,	Slide Block complete,	141407(869)	Worm Gear Position
175(830)	Pinch Screw		Nos. 19448, 32376 and	3.43.400(000)	Screw
176(819)	Arch Clamp Foot Lifter		141412	141408(869) 141408(869)	Worm Gear Set Screw Worm Set Screw
	Screw	32572 37310	Tension Releasing Disc Roller Screw Stud	141412(803)	Slide Block Screw Stud
193(804)	Knife Bar Connection	3/310	Washer (2)	141448(803)	Knife Actuating Lever
201(804)	Screw (2) Bracket Stud Screw	39453	Thread Wiper Body		Screw
202(819)	Arch Clamp Foot		Finger	141449(803)	Pawl Hinge Screw
202(020)	Screw (2)	39653	Oscillating Rock Shaft	141450(803)	Bell Crank Hinge Screw
209(833)	Needle Set Screw	40028-003	Shuttle Body	141462(803)	Slide Block Screw Feed Plate Screw Stud
330(809)	Thread Wiper Body	43725	Shuttle Bobbin Case	141560(805) 141574(803)	Clamping Plate Screw
43.0(00.4)	Finger Screw		complete, Nos. 591(805), 592(805), 2975, 15141	141575(803)	Spring Adjusting Screw
418(804)	Thread Tension Stud Stop Screw		and 224842	- 1-010(000)	(2)
423(830) 4 6 0(830)	Collar Set Screw (2)	50018(806)	Bracket Screw	141576(803)	Tension Stud
462(830)	Adjusting Stud Set	50169(819)	Thread Guide Screw	167001	Arch Clamp Frame
.02(000)	Screw	50356(804)	Spindle Housing Screw		(universal) with two
591(806)	Regulating Screw	50446(803)	Hinge Screw	167004	239208 Lifting Rock Shaft with
592(805)	Latch Lever Stop Screw	50628(809)	Plate Screw	167004	141059(830)
691(819)	Cover Plate Screw (6)	50650(803) 51119(805)	Cap Screw Lever Arm Screw	167006	Lifting Arm with
691(806) 808(830)	Throat Plate Screw (4) Retaining Plate Screw	51381(805)	Spring Screw (2)		350604(869)
000(030)	(4)	51403(869)	Screw (2)	167007	Lifting Link
808(830)	Rubbing Block Screw	51657(805)	Lock Nut	167009	Arm Cover (front) with
858(830)	Crank Set Screw	51948	Follower Arm Roller	147010	1053(806) and 167262
896(830)	Cap Screw (2)		with 1521(805) and	167012 167013	Arm Shaft Bushing (back) Arm Shaft Bushing (back)
908(803)	Hinge Screw	51951	225837 Cam Follower Roller	16/013	167012 with 53618(805),
1053(806)	Knife Screw Crank Position Screw	51951	and Screw Stud with		141128(833) 202299,
1065(830) 1208(809)	Bushing Screw (2)		1655(803), 5968 and		239374 and two 239383
1513(819)	Stud Lock Nut		37310 (2)	167041	Cylinder Cover Plate
1518(805)	Arm Stop Rod Nut (2)	52082	Thread Take-up Spring		(top)
1519(805)	Driving Link Screw Nut	52454	Thread Retainer (front)	167048	Screw Stud (2)
1521(805)	Screw Stud Nut	53612(805)	Screw Stud Nut (2)	167049 167050	Arm Shaft Bushing (center) Supporting Gear Bracket
1560(803)	Tension Thumb Nut	53 6 17(805) 53 6 18(805)		167051	Feed Plate
1562(819) 1620(819)	Tension Thumb Nut Housing Screw Nut	55325	Throat Plate Needle Hole		Feed Plate Carrier Bar
1636(805)	Screw Stud Nut	55525	Bushing (46 drill needle	No. comment access	with two 239448
1650(805)	Stop Screw Lock Nut		hole)	167055	Driving Block complete
1655(803)	Screw Stud Nut (2)	55459	Knife (shuttle thread)	167062	Driving Lever with 350604(869)
1662(805)	Bell Crank Hinge Screw	63837	Arch Clamp Foot Lifter Arch Clamp Foot (left)	167064	Adjusting Block
3.440/005\	Nut	68721 68723	Arch Clamp Foot (left) Arch Clamp Foot (right)	167072	Connecting Arm
1662(805)	Knife Actuating Lever Screw Nut	125044	Oil Pad (felt)	167075	Driving Arm with
1662(805)	Pawl Hinge Screw Nut	131022	Stop Rod Bumper		350600(869)
1747(805)	Screw Lock Nut		(rubber) (3)	167076	Driving Arm 167075 with
2049	Crank Pin	140321(830)	Collar Set Screw (4)		1519(805), 141075(803) and
2102	Tension Disc (2)	140352(830)	Tripping Point Screw (2)		239266 Machine Pulley (loose)
2103	Tension Spring	141059(830)		167084	Engaging Arm Stud
2455	Tension Disc (2)	141066(803)	Screw Locating Screw (4)	1 6 7086	Needle Bar
2807	Bumper Separating Washer (4)	141067(805)	Locking Screw	167087	Needle Bar 167086 with
2973	Latch Lever	141069(869)	Arm Screw (3)		209(833), 50169(819) and
2974	Fulerum Pin	141069(869)	Cylinder Screw (2)		239376
2975	Lever Spring	141069(869)		167088	Needle Bar Connecting Link
5968	Roller Washer (2)	141070/0001	Sorew		271597 with 50650(803), 167089-001 and 239385
10141	Tension Spring	141070(803)	Supporting Gear Screw Driving Block Screw	167089-001	Connecting Stud with
13275	Oil Pad (felt)	141071(819) 141075(803)		10,009-001	175(830) and 239277
13288	Retaining Ring Bobbin Case Latch	141077(830)	Bushing Set Screw	167143	Starting Bell Crank
15140 15141	Bobbin Case Hinge Nos.	141099(805)	Screw Stud (upper) (2)	167144	Starting Bell Crank 167143
13171	2973, 2974 and 15140	141100(850)	Hinge Screw		with 51657(803), 53617(805),
17825	Knife Holder	141101 (803)		3 4 73 4 7	167154 and 167155
17828	Pinion Stud Bracket	141100/500	Adjusting Screw	1 6 71 4 5	Starting Lever with
19448	Slide Block	141128(833)	The state of the s	167146	141077(830) Starting Lever 167145 with
20197	Crank Connecting Rod	141145(803)	Support Screw Knife Screw	10/140	239159, 239307 and two each
, i	with 125044 and two	141145(803)	Adjusting Block Screw		141099(805) and 214053
23421	89 6 (830) Oil Hole Plug (leather)	141242(819)		167154	Starting Lever Starting
23421 23477	Needle Bar Crank with		(2)	2 Perit 2250e	Rod
	858(830), 1065(830) and	141245(869)	Tension Stud Set Sorew	167155	Starting Rod Adjuster
	two 141275(869)		(2)	167157	Stop Rod Swivel
23500	Bobbin	141275(869)		167159	Brake Shoe Support with 171(830) and 201(804)
32376	Retaining Ring		(2)		200 00000000000000000000000000000000000

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NUMERICAL LIST OF PARTS MACHINE P260-9/108

NUMBER	DESCRIPTION	NUMBER	DESCRIPTION	NUMBER	DESCRIPTION
167160	Swivel Retaining Ring	200161(819)	Position Plate Sorew (2)	223847	Bushing (front) Oil Packing (wick)
167161	Brake Shoe Support Bracket 167159 with	200294(819)	Cylinder Cover (bottom) Sorew (2)	224842 225444	Shuttle Tension Spring Bobbin Winder Stop
	50446(803), 141101(803),	200299(819)	Trip Lever Hinge	005450	Latch
	223812, 239513 and 239557	200308(803)	Screw Hinge Screw	225458 225459	Stop Latch Thumb Lever Thumb Lever Joining
167162	Tension Release Rod	200333(830)	Bushing (front-outer)	223433	Stud (2)
167163	Tension complete, Nos.		Set Screw	225837	Roller Screw Stud Washer
	1560(803), 2103, 32572,	200335(830)	Hinge Stud Set	228485	Number Plate Drive Sorew
	52082, 141576(803), 167173, 270278 and two	200338(803)	Screw (2) Bushing (back) Set		(2)
	2102		Screw	228792	Bobbin Winder Brake
167173	Spring Regulator with	200338(803)	Bushing (center)	228793	(leather)
167181	two 141245(869) Tripping Rock Shaft	200363 (830)	Set Screw Hinge Pin Set Screw	220/93	Bobbin Winder Pulley with 200436(803)
167182	Tripping Rock Shaft	200364(830)	Hinge Stud Set Screw	22 87 94	Bobbin Winder Spindle
200	Collar with two 460(830)	200366(830)	Thread Guard Set	228795	Spindle Housing
167183	Vertical Drive Shaft	200378(830)	Screw Support Set Screw	228796 228798	Thumb Lever Plate Tension Adjusting Stud
	Worm with 141407(869) and 141408(869)	200376(830)	Hinge Pin Set Screw	228800	Adjusting Stud Bracket
167184	Vertical Drive Shaft	200397(833)	Stud Set Sorew	Pagadon Apparent vision of Apparent	167292 with 418(804),
	Worm Gear with	200436(803)	Pulley Set Screw		1562(819), 10141, 228798,
	141407(869) and 141408(869)	200442(803) 200582(819)	Regulator Set Screw Arm Cover (center)	228810	268122 and two 2455 Return Spring Screw Stud
167229	Support Bracket	2000.02(013)	Sorew (2)	228812	Tension Pulley
	Pressure Spring	200582(819)	Thread Retainer (lower)	232837	Retaining Screw Washer
167234	Tripping Point	201135(803)	Screw (2) Pulley Retaining Screw	239078	Oscillating Shaft 239550 with 1636(805), 2049,
167235 167262	Washer (2) Thread Cutter Knife	201188(803)	Collar Set Screw		32377 and 239551
167292	Adjusting Stud Bracket	201256(803)	Bracket Screw (4)	239079	Oscillating Shaft 239550
	with 462(830)	201356(805)	Screw Stud (lower)	000003	with 2049 and 239551
167413	Knife Actuating Lever Screw and Nut complete,	201422(803) 201442	Stud Screw Position Screw (pin)	239081 239133	Thread Guide Starting Lever Arm and
	Nos. 1662(805) and	201472(803)	Bushing (front-inner)	203100	Rock Shaft (adjustable)
Del Stead Control of	141448(803)		Set Screw		with 423(830), 1650(805),
167414	Bell Crank Hinge Screw	201525(805) 201711(803)	Screw Stud Nut Adjusting Screw Lock	2	201135(803), 201442,
	and Nut complete, Nos. 1662(805) and	201711(803)	Nut (2)		201525(805), 228810, 228812 and 232837
	141449(803)	201711(803)	Bracket Screw Nut	239143	Thread Take-up Lever Link
167415	Pawl Hinge Screw and	201749(805)	Hinge Screw Nut Gear Bracket Screw	000144	Hinge Pin Wick
	Nut complete, Nos. 1662(805) and	202005	Washer	239144	Longitudinal Rock Shaft 239384 with 51951
	141450(803)	202299	Oil Packing (wick)	239157	Bobbin Winder Bracket
167416	Collar with two	202342	Arm Hinge Tension	239158	Bobbin Winder complete,
1.67400	140321(830)	202423	Spring Hinge Stud Oil		Nos. 1620(819), 50356(804), 50628(809), 200056(805),
167423	Arch Clamp complete, Nos. 68721, 68723,	202420	Packing (wick) (2)		200299(819), 200478, 225444
	141071(819), 167001,	202478	Stop Latch Trip Lever		225458, 228793, 228794,
	167041, 167051, 167052,	202603	Adjusting Block Screw Washer		228795, 228796, 239157,
	167055, 239202, 239204, 239209, 350605(869),	202603	Adjusting Screw	239159	249716 and two 225459 Stop Cam Interlock Arm
	two each 202(819),		Washer (2)	239160	Lateral Rock Shaft 239264
	141575(803), 201711(803),	203172	Friction Washer	220161	with 51951
	239206, 239613 and five 808(830)	204235 204235	Arm Position Pin (2) Cylinder Position	239161 239165	Knife Bar Lifting Rod
167445	Arm Stop Rod		Pin (2)	239170	Wire (adjustable)
167446	Arm Stop Rod complete,	210805	Sorew Washer (3)	239193	Slide Block
	Nos. 167445, 202342,	210805 210957	Sorew Stud Washer (2) Thread Retainer	239194	Connection with Stud and Block
167447	239518 and 239519 Interlocking Arm Stop	210997	(lower) Stud	239195	Position Plate
-2	Rod 167446 with 167157,	210958	Stud Collar	239196	Shuttle Race complete, Nos.
į	two 1518(805), three	210993	Sleeve		239195, 239289, 239290,
200056(805)	131022 and four 2807 Stop Latch Screw	214053 222583	Return Spring (2) Oil Packing (wick)		two each 51381(806), 200161(819) and 239291
200056(805)	Arm Cover (side) Screw	223710	Thread Retainer	239202	Shank (left)
	(4)		(lower) with	239204	Shank (right)
200072(803)	Pinch Screw	223711	200397(833) Thread Retainer	239206 239208	Spring (medium) (2)
200084(819)	Arm Cover (front) Screw (2)	253/11	(lower) complete, Nos.	239208	Dowel Pin (2) Rubbing Block
200084(819)	Cylinder Cover (side)		210957, 210958, 210993,	239211	Lifting Bar with 176(819)
	Sorew (2)		223710 and 223844	239212	Lifting Bar Bushing (lower)
		000000			
200084(850)	Bracket Set Screw	223812	Brake Shoe Support	239213	
200084(850) 200132(819) 200138(805)		223812 223844	Brake Shoe Support Spring Thread Retainer	239213	Position Guide with 167007, 200072(803) and 239515 Spring

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NUMERICAL LIST OF PARTS MACHINE P260-9/108

NUMBER	DESCRIPTION	NUMBER	DESCRIPTION	NUMBER	DESCRIPTION
				249716	Housing Spring
239221	Arm Cover (center)	239337	Throat Plate	249716	Hinge Pin with
239223	Arm Cover (side)	239339	Throat Plate 239377	249915	
239224	Arm Shaft		with 17825, 17828,		239143
239228	Arm Shaft Bushing		50018(806), 55325,	2 594 70	Collar with 201188(803
	(front)		55459, 141145(803),	262061	Shuttle Driver (C.B.)
239233	Cylinder Cover	2	200138(805), 201711(803),		with 350606(869)
COLUMN TO THE SECOND SE	(bottom)		239367, 239372 and two	268122	Tension Guide
239234	Cylinder Cover		1208(809)	270278	Tension Releasing Pin
20520	(side)	239341	Connection with	271018	Thread Retainer (back)
239236	Oil Stop Pad (felt)		350606(869)	271597	Connecting Link
239238	Follower Arm with	239342	Connection Rod	350238(804)	Brake Sorew (2)
239230	The Control of the Co	239343	Lever Arm	350489(830)	Support Set Screw
	239239 and 239240	00-000 C0000			Thread Retainer Screw
239239	Follower Arm Link	239344	Tripping Rock Shaft	350559(819)	
239240	Link Hinge Stud		Support		(2)
239245	Locating Pin	239345	Vertical Drive Shaft	350577(819)	Pressure Regulating
239250	Oscillating Slide Stud	239346	Vertical Drive Shaft		Screw
239251	Knife Actuating Lever		Bushing (2)	350600(869)	Mounting Screw (3)
239252-001	Lever Link	239361	Hinge Stud	350600(869)	Pinch Screw (2)
239255	Rock Shaft	239363	Locating Pin	350604(869)	Lever Clamping Screw
239256	Rock Shaft Bracket	239365	Oiling Felt	350604(869)	Lifting Arm Pinch Scre
239260	Knife Bar Rack	239367	Knife (stationary)	350604(869)	Pinch Screw (2)
239264	Lateral Rock Shaft	239368	Knife Holder complete.	350605(869)	Frame Screw
1000 to Distributed by	Rock Shaft Driven	20000	Nos. 17825, 55459,	350606(869)	Pinch Screw(2)
239265			141145(803) and 239372	Type P1628	Needle (size 18)
	Arm (2)	020270		Type P1628	
239266	Driving Link	239372	Knife (needle thread)		(Chromium finish)
239267	Hinge Stud with	239374	Needle Thrust Bearing		
	202423 (2)	239376	Thread Guide	Į.	
239268	Driving Arm with	239379	Engaging Arm with		
	250604(869) (2)		239320, 239321 and		
239273	Needle Bar Bushing		350600(869)		
	(lower)	239382	Thrust Plate		
239274	Needle Bar Bushing	239383	Needle Thrust Bearing	ſ	
	(upper)		Washer (2)		
239277	Oil Packing (wick)	239384	Longitudinal Rock		
239279	Hinge Pin	20000	Shaft		
A CASCONICA CONTRACTOR	Hinge Pin 239279 with	239385	Take-up Crank		
239280		239387	Thread Wiper Body		
	23421 and 222583	produktory property	Million and the Company of the Compa		
239282	Oscillating Shaft	239388	Support	i	
	Bushing (back)	239390	Thread Wiper (quick		
239283	Oscillating Shaft		acting) complete, Nos.		
	Bushing (front-inner)		330(809), 39453, 63837,		
239284	Oscillating Shaft		141574(803), 200308(803),	ĺ	
	Bushing (front-outer)		239170, 239336, 239387,		
)	with 201472(803)		and 239388		
239287	Shuttle 1-11/16 in.	239486-001	Machine Pulley (tight)	Ì	
LUSLUI	diam., Nos. 23500,	239501	Driving Block Pin		
	40028-003 and 43725	239512	Pressure Spring Sleeve		
220200		239513	Bracket Stud (eccentric)		
239289	Shuttle Race Body with	239515	Hinge Pin		
000000	2393 6 5				
239290	Shuttle Race Ring	239518	Arm Hinge Pin		
239291	Shuttle Race Ring	239519	Arm Hinge Pin Retainer		
	Spring (2)	239522	Supporting Gear with		
239294	Starting Bell Crank	program of the second	239245		
	Pawl	239524	Starting Cap		
239295	Pawl Return Spring	239525	Thrust Button		
239299	Lifting Rod	239526	Needle Bearing		
239301	Starting Lever Bushing	239549	Stop Motion Brake		
239303	Operating Lever Arm		complete, Nos.		
239307	Retaining Ring		141100(850), 167161,		
			167229 and 239512		
239314	Pulley (tight) Key	230550	Oscillating Shaft		
239315	Retaining Ring (2)	239550			
239317	Machine Pulley (loose)	239551	Oscillating Shaft Crank		
239318	Machine Pulley (loose)	239554	Brake Shoe (leather)		
	239317 with 239322	239555	Rivet (2)		
239320	Engaging Arm Wear	239 5 5 6	Support		
	Block	239557	Support complete, Nos.		
239321	Wear Block Pin		239554, 239556 and two		
239322	Pulley (loose) Needle		239555		
233022	Bearing	239574	Screw Stud Guide Block		
220320	Tension Thread Guard		(2)		
239328	100 pm (c) from the control of the c	239591	Feed and Knife Driving		
239330	Take-up Lever	592321			
239331	Lever Link	i	Cam with 167234 and two		
		te control of the con	each 140352(830) and		
239332	Take-up Lever complete,	l			
239332 23933 6	Take-up Lever complete, Nos. 239330 and 239331 Clamping Plate	239613	167235 Retaining Plate (2)		

ACCESSORIES FOR CLASS P260-9 MACHINES

```
DESCRIPTION
  NUMBER
167189
              Belt Guard with 141093(830), 167188, 239356, 239357 and two 141103(850)
167187
              Belt Guard with 141093(830)
239355
              Belt Guard Base
239444-001
              Belt Guard Base 239355 with two wood sorews 1-1/4" No. 12 R.H.B.
              Belt Guard Hinge Pin
239356
141093(830)
              Belt Guard Hinge Pin Set Screw
              Belt Guard Look Spring
239357
167188
              Belt Guard Lock Spring Plate
              Belt Guard Lock Spring Plate Screw (2)
141103(830)
141577(803)
              Belt Guard Lock Spring Screw Stud
 23500
              Bobbin (2)
228785
              Drip Pan (except for P260-9 Machine)
201308(805)
              Drip Pan Screw (4)
203637
              Drip Pan Sorew Washer (4)
 52843
              Drip Pan Washer (leather) (4)
259832
              Eye Guard Complete, Nos. 200273(819), 226467, 259830, 259831 and two 200184(819)
259846
              Eye Guard and Extension complete, Nos. 200095(819), 201528(819), 259832 and
              259845, for P260-9/139 Machine
259831
              Eye Guard Bracket
200273(819)
              Eye Guard Bracket Hinge Screw
200184(819)
              Eye Guard Bracket Screw (2)
226467
              Eye Guard Bracket Spring Washer
259830
              Eye Guard Deflector
259845
              Eye Guard Deflector Bracket Extension, for 259846
200095(819)
              Eye Guard Deflector Bracket Extension Screw, for 259846
201528(819)
              Eye Guard Deflector Bracket Extension Screw Nut, for 259846
              Machine Base Oil Drain Jar (plastic)
167448
228444
              Machine Cushion (4)
 12361-001
              Machine Hinge Connection (2)
228786
              Machine Support (left)
             Machine Support (left) 228786 with two wood screws 1-1/4" No. 12 F.H. Machine Support (right) with two wood screws 1-1/4" No. 12 F.H.
228865
228809
228787
              Machine Tilting Latch Lever
228788
              Machine Tilting Latch Lever 228787 with 225459 and 228790
225459
              Machine Tilting Latch Lever Joint Stud
200246(803)
             Machine Tilting Latch Lever Screw
228789
             Machine Tilting Latch Lever Spring
228790
             Machine Tilting Latch Lever Stop
                                              OPERATING EQUIPMENT
228807
              Operating Equipment complete, Nos. two each 2770, 32134, 167416, 228802, 228811,
              228861, and four each 228805 and 228806
             Operating Equipment Cable (2)
Operating Equipment Cable (adjustable) complete, Nos. 1521(819), 151633,
167226-001
228861
             167226-001 and 228858 (2)
  1521(819)
              Operating Equipment Cable Lock Nut (2)
228858
              Operating Equipment Cable Yoke End (2)
151633
              Operating Equipment Cable Yoke End Pin (2)
             Operating Equipment Chain (24" long) (2)
228910
228802
             Operating Equipment Chain 228910 with two 202784 (2)
202784
             Operating Equipment Chain Hook (4)
228811
             Operating Equipment Rock Shaft (2)
             Operating Equipment Rock Shaft Collar with two 140321(830) (2)
167416
140321(830)
             Operating Equipment Rock Shaft Collar Set Screw (4)
             Operating Equipment Rock Shaft Lever Arm (4)
228805
228806
             Operating Equipment Rock Shaft Lever Arm Bracket with two 356(803) (4)
   356(803)
             Operating Equipment Rock Shaft Lever Arm Bracket Set Screw (8)
 32134
             Operating Equipment Rock Shaft Spring (2)
             Operating Equipment Rock Shaft Stop Dog with 140219(803) (2)
  2770
140219(803)
             Operating Equipment Rock Shaft Stop Dog Screw (2)
                             DRIVING ACCESSORIES FOR HEAD-ON INSTALLATION
21261M-50
151223
             Machine Driving Belt, 50" long, (V-belt)
             Motor Mount and Belt Tightener complete, Nos. 51655(813), 150783, 151066,
             151219 to 151222, two each 9281, 151068, four each 50807(813) and eight
             each 1778(816), 9842 and 126150
228822
             Treadle complete, Nos. 2718(813). 14372, 14373, 14375, 17881, 50581(813)
             and two 46709 (2)
```

LIST OF PARTS FOR P260-9/126 MACHINE Same as P260-9/108, except for the following:

239189	Feed and Knife Driving Cam with 167234 and two each 140352(830) and 167235	239591
167077	Vertical Drive Shaft Worm with 141407(869) and 141408(869)	167183
167079	Vertical Drive Shaft Worm Gear with 141407(869) and 141408(869)	167184

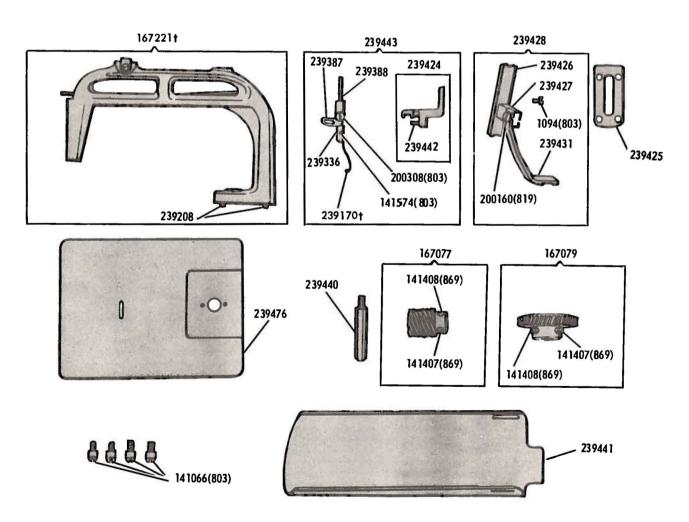
ACCESSORIES FOR MACHINE P260-9/139 FOR SUBMERGED PARALLEL MOUNTING

```
DESCRIPTION
 NUMBER
 239355
               Belt Guard Base
 239445
               Belt Guard Base 239355 with two each 67425, 201752(819) and 350640(819)
 239446
               Belt Guard Base Spacer
 239447
               Drip Pan with four 228804
 228804
               Drip Pan Rook Shaft Bushing (4)
               Drip Pan Sorew (3)
Drip Pan Sorew Washer (3
 201308(805
 203637(805)
  52R43
               Drip Pan Washer (leather)
 263417
               Drip Pan Jack Sorew
   1517(805)
               Drip Pan Jack Sorew Look Nut
 167448
               Machine Base and Oil Drain Jar (plastic)
 228444
               Machine Cushion (2)
 228881
               Machine Support Complete, Nos. 228866, 228868, 228870 to 228872, 239445, 239446,
               two 228444, four each 228873 to 228875 and 350639(819)
               Machine Support (rear)
Machine Support (rear) 228786 with two each 51074(813) and 67425
 228786
 228870
  67425
               Lock Washer (11)
  51074(813)
              Machine Support Bolt (3)
               Machine Support Bracket (rear)
 228872
               Machine Support Bracket Jack (4)
 228873
               Machine Support Bracket Jack Bolt (4)
Machine Support Bracket Jack Bolt Washer (4)
 350639(819)
 228874
               Machine Support Bracket Jack Flange with three wood screw 7/8" No. 12 R.H.B. (4)
Machine Support Bracket (front) with two each 67425,350640(819) and four 201752(819)
 228875
 228871
 350640 (819)
               Screw (4)
 201752(819)
               Nut (10)
               Machine Support (front)
Machine Support (front) 228867 with 51074(813), 67425, 200076(819) and 228869
Machine Support (front) Cushion Screw
 228867
 228868
 200076(819)
 228869
               Machine Support (front) Cushion (nylon)
 350641(819)
               Screw (4)
               Machine Hinge Connection and Belt Guard Mounting Plate with four each 67425,
 228866
               201752(819) and 350641(819)
                                              OPERATING EQUIPMENT
 228879
               Operating Equipment Complete, Nos. 228811, 228878, two each 32134, 228802, 228861,
               268072, four each 2770, 228805 and 228806
 228811
               Operating Equipment Rock Shaft
               Operating Equipment Rock Shaft Stop Dog with 140219(803) (4)
   2770
               Operating Equipment Rock Shaft Stop Dog Set Screw
 140219(803)
               Operating Equipment Rock Shaft Spring (2)
  32134
               Operating Equipment Rock Shaft Collar with two 200386(803) (2)
 268072
 200386(803)
               Operating Equipment Rock Shaft Collar Set Screw (4)
               Operating Equipment Rock Shaft Lever Arm Bracket with two 356(803) (4)
 288806
    356(803)
               Operating Equipment Rook Shaft Lever Arm Bracket Set Screw (8)
 228805
               Operating Equipment Rock Shaft Lever Arm (4)
 228861
               Operating Equipment Cable (adjustable) Complete, Nos. 1521(819), 151633, 167226-001
               and 228858 (2)
               Operating Equipment Cable (adjustable) Yoke End Pin (2)
Operating Equipment Cable (adjustable) Yoke End (2)
 151633
 228858
               Operating Equipment Cable Lock Nut (2)
   1521(819)
 167226-001
               Operating Equipment Cable (2)
               Operating Equipment Chain (lower), 24" long (2)
Operating Equipment Chain (lower) 228910 with two 202784 (2)
 228910
 228802
 228878
               Starting Rock Shaft
                                             DRIVING ACCESSORIES
 228829
               Driving Accessories Complete, Nos. 150748, 228880 and two 228877
 228876
               Foot Lifter Treadle (2)
               Foot Lifter Treadle 228876 with 2718(813), 14373 and 50581(813) (2)
 228877
               Foot Lifter Treadle Extension (2)
  14373
  50581(813)
               Foot Lifter Treadle Extension Screw (2)
               Foot Lifter Treadle Extension Screw Washer (2)
   2718(813)
 151219
               Belt Tightener Hinge Plate
               Belt Tightener Hinge Plate Adjusting Sorew 150701 with 51655(813)
 150783
               Belt Tightener Hinge Plate Adjusting Screw
 150701
  51655(813)
               Belt Tightener Hinge Plate Adjusting Screw Nut
   9281
               Belt Tightener Hinge Plate Adjusting Sorew Nut Washer
 151066
               Belt Tightener Hinge Plate Adjusting Screw Hinge Pin
 151068
               Belt Tightener Hinge Plate Adjusting Screw Hinge Pin Retaining Ring (2)
   1062(819)
               Belt Tightener Hinge Plate Mounting Sorew (4)
               Belt Tightener Hinge Plate Mounting Screw Nut (4)
   1606(819)
               Belt Tightener Hinge Plate Mounting Screw Nut Washer (4)
 126150
               Belt Tightener Hinge Plate Adjusting Screw Hinge Bracket
 151220
 151221
               Belt Tightener Hinge Plate Hinge Bracket
               Belt Tightener Hinge Plate Hinge Bracket Pin
 151222
  50807(813)
               Belt Tightener Hinge Plate Motor Mounting Bolt (4)
               Belt Tightener Hinge Plate Motor Mounting Bolt Nut (4)
   1778(813)
               Belt Tightener Hinge Plate Motor Mounting Bolt Nut Washer (4)
   9842
               Machine Driving Belt, 48" long (V-belt)
Motor Hount and Belt Tightener Complete, Nos. 51655(813), 150783, 151088, 151219 to
21261M-480
 228880
               151222, two each 9281, 151068, four each 1062(819), 1606(819), 1778(813), 9842,
               50807(813) and eight 126150
```

From the library of. Superior Sewing Machine & Supply LLC

LIST OF PARTS FOR P260-9/139 MACHINE Same as 269W108, except for the following:

Parts Added	DESCRIPTION	Parts Removed
239431	Arch Clamp Foot	
239424	Arch Clamp Foot Lifter with 239442	63837
239425	Arch Clamp Foot Retaining Plate	
200160(819)	Arch Clamp Foot Screw	
239426	Arch Clamp Foot Shank	
239427	Arch Clamp Foot Shank Arm	
1094(803)	Arch Clamp Foot Shank Arm Screw	
239428	Arch Clamp Foot Shank complete, Nos. 1094(803), 200160(819), 239426, 239427 and 239431	
167221	Arch Clamp Frame with two 239208	167001
239430	Arch Clamp complete, Nos. 141071(819), 141575(803), 167041,	167423
	167052, 167221, 201711(803), 239206, 239209, 239425, 239428,	
	239476 and five 808(830)	
239440	Cylinder Base Leg	
239441	Cylinder Cover (bottom)	239233
239596	Feed and Knife Driving Cam with 167234 and two each 140352(830) and 167235	239591
239476	Feed Plate	167051
239387	Thread Wiper Body	
200308(803)	Thread Wiper Body Hinge Screw	
239388	Thread Wiper Body Support	
239170	Thread Wiper Body Wire	
239336	Thread Wiper Body Wire Clamping Plate	
141574(803)	Thread Wiper Body Wire Clamping Plate Sorew	
239442	Thread Wiper Fulorum Pin	
239443	Thread Wiper (quick acting) complete, Nos. 141574(803), 200308(803), 239170, 239336, 239387, 239388 and 239424	239390
167077	Vertical Drive Shaft Worm with 141407(869) and 141408(869)	167183
167079	Vertical Drive Shaft Worm Gear with 141407(869) and 141408(869)	167184
239394	Work Plate complete	



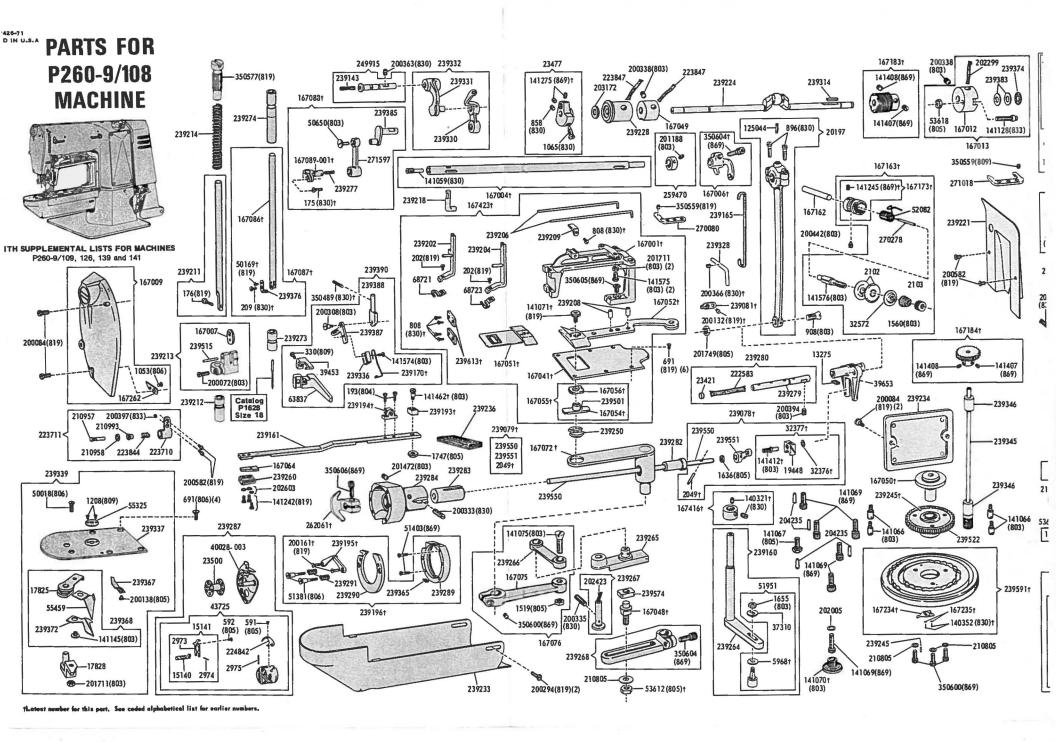
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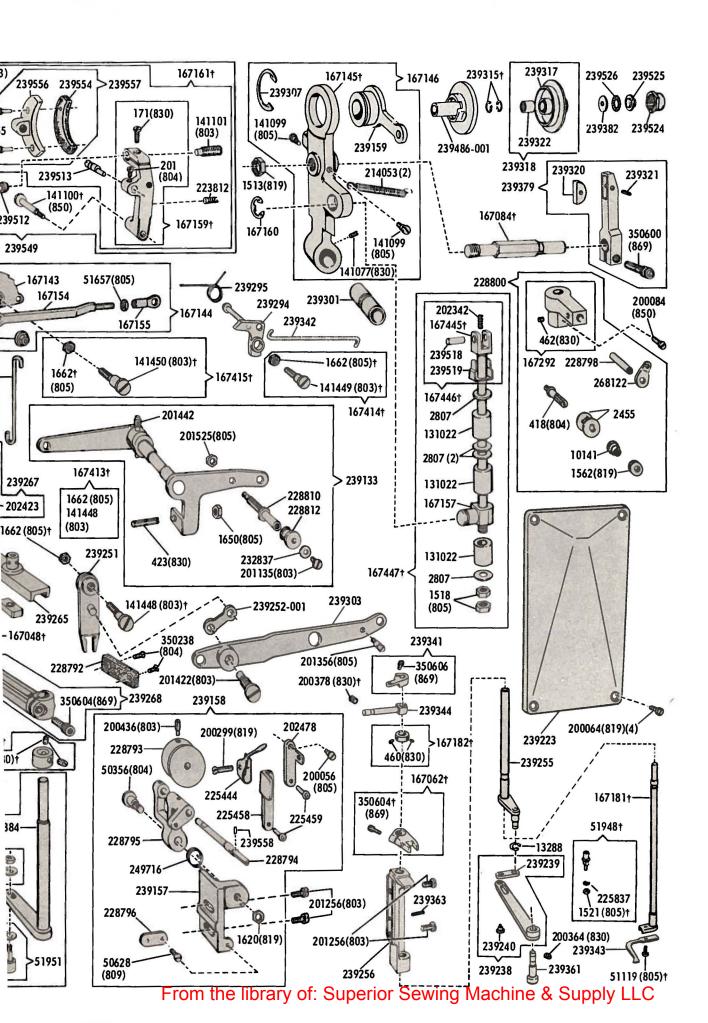
LIST OF PARTS FOR P260-9/109 MACHINE Same as P260-9/108, except for the following:

Parts Added	DESCRIPTION	Parts Removed
239401	Arch Clamp Foot (left)	68721
239402	Arch Clamp Foot (right)	68723
239593	Feed and Knife Driving Cam with two 167234 and four each 140352(830) and 167235	239591
167083	Feed Plate	167051
239532	Knife Holder complete, Nos. 17825, 55458, 55459 and 141145(803)	239368
210993	Thread Retainer Sleeve	
223844	Thread Retainer Spring	-24
210957	Thread Retainer Stud	
210958	Thread Retainer Stud Collar	
239337	Throat Plate	
239127	Throat Plate 239337 with 17825, 17828, 50018(806), 55326, 55458, 141145(803), 200138(805), 201711(803), 239367 and two 208(830)	2 3 9339
55326	Throat Plate Needle Hole Bushing	55325
167085	Arch Clamp complete, Nos. 141070(819), 167001, 167041, 167052, 167055, 167083, 239202, 239204, 239209, 239401, 239402, 350605(869), two each 202(819), 141575(803), 201711(803), 239206, 239613 and four 808(830)	167423

LIST OF PARTS FOR P260-9/141 MACHINE Same as P260-9/108, except for the following:

Parts Added	DESCRIPTION	Parts Removed
239166	Feed and Knife Driving Cam with 167324 and two each 140352(830) and 167235	239591
55458	Knife (needle thread)	239372
239532	Knife Holder complete, Nos. 17825, 55458, 55459 and 141145(803)	239368
239627	Needle Bar	167086
239629	Needle Bar 239627 with 200125(833), 201143(819) and 239628	16 7 087
239628	Needle Bar Thread Guide	2 3937 6
201143(819)	Needle Bar Thread Guide Screw	50169(819)
200125(833)	Needle Set Screw	209(833)
239172	Throat Plate 239337 with 17825, 17828, 50018(806), 55458, 55459, 141145(803), 200138(805), 201711(803), 239173, 239367 and two 1208(809).	239339
239173	Throat Plate Needle Hole Bushing (square hole .099)	5 5 32 5
167077	Vertical Drive Shaft Worm with 141407(869) and 141408(869)	167183
167079	Vertical Drive Shaft Worm Gear with 141407(869) and 141408(869)	167184
Type P3355	Needle - Size 22	Cat. 1628
,,		(Size 18)





Union Special Wants to Help You Cut Sewing Machine Maintenance Costs

Union Special is offering two practical systems to help pinpoint and reduce your sewing machine maintenance costs: a record keeping system to help spot machines requiring abnormally high maintenance, and a parts inventory system to speed routine repairs.

Machine Maintenance Records

Repair-prone machines or inexperienced competent operators can eat up your maintenance dollars in short order. To help spot these problems, Union Special suggests two variations of a simple maintenance record keeping system using cards provided by Union Special.

The first system utilizes a "Machine Maintenance Record" card (Form 237) for each sewing machine in a plant. When a repair is required, the card is pulled from the file and the repair date, parts used, and their cost are entered in the spaces provided and the card is refiled.

to A	HER S HAWE	91764	-"	PE NEEDLE	OERIAL NO	DATE PURCH
PAIG	SYMBOL PART	ueso.	cost	DATE	STHEOL PARTUE	COST
		FO Mach	RM ine M	237 aintena	nce	

The second system is normally used when more detailed information on repair costs is desired. Two record cards are used: a "Repair Request Card" (Form 234), and a "Machine Repair Record" (Form 233). When a machine requires service, the forelady or foreman fills out the top of a "Repair Request Card" and gives it to a mechanic. He fills in the time the repair work is started, the parts used and their cost,

and the completion time. This data is then transferred to the permanent "Machine Repair Record" kept in the office.

Whichever system is used, management now has an invaluable tool to reduce needless maintenance costs.

Repair Part Inventories

While record keeping tells management which machines require abnormally high maintenance, it does little to help reduce the downtime caused by routine repairs. To alleviate this situation, Union Special recommends that manufacturers establish a formal parts inventory system for each type of sewing machine they operate.

Excessive machine downtime and wasted hours by mechanics can be eliminated with an orderly in-plant inventory of the most commonly needed parts. There is no longer a need to cannibalize other machines for spare parts. Long waits for deliveries are avoided and machine downtime is kept to a minimum. The cost of a parts inventory is small when the overall savings are considered.



For free sample copies of the machine record cards and spare part inventory lists for a variety of the most popular machines, contact your local Union Special Representative or write direct to Union Special.

Ulinion Special Style 52800 BN-16

and the second second					
Part Number	Description	Minimum Quantity Per 5 Machines	Part Number	Description	Minimum Quantity Per 5 Machines
G 52827-16	Presser foot	1	88 B	Needle clamp screw	4
91	Presser foot clamp screw	2	28 C	Needle clamp screw	2
52805 D-16	Main feed dog	1	41076 D	Spreader thread eyelet	2
22593	Main feed dog screw	4	73 A	Spreader thread eyelet screw	4
3026 A	Differential feed dog	1	22743	Spreader thread eyelet holder	screw 4
90	Differential feed dog screw	2	52945 M	Spreader	2
52824 D-16	Throat plate (12 to 15 S.P.I.)	1	77 A	Spreader set screws	4
or			88	Spreader holder screws	4
52828 D-16	Throat plate (16 to 18 S.P.I.)	1	52844 A	Spreader thread guide	1
87	Throat plate screw	4	90	Spreader thread guide screws	4
121 GBS	Needles (specify size)	300	52904 G	Cast-off wire	2
52708 B	Looper	2	73 A	Cast-off wire screws	2
73	Looper set screw	2	22564	Needle bar clamp screw	2
22563	Looper needle guard screw	4	21225	Looper gauge	1
33174 B	Looper needle guard holder sci	rew 4	21227 C-14	Spreader gauge	1
52842 G	Needle thread guide wire	2	29484	Screw assortment	1
28 B	Needle thread guide wire screw	v 4			

^{*}The parts and quantities listed above are intended to assist you in setting up the initial inventory of spare parts. An efficient inventory can only be established according to actual usage. The nature of the sewing operation will determine actual usage.





SINCE 188

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