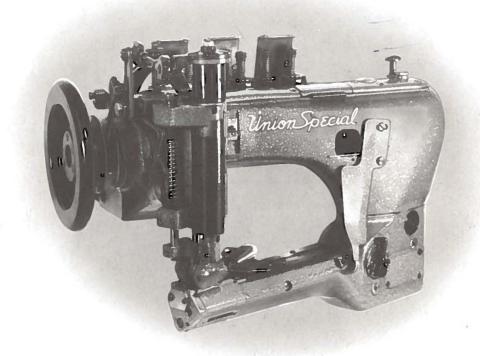




INDUSTRIAL SEWING MACHINES

35800DK 35800DL 35800DM 35800DN



CLASS 35800

HIGH SPEED
FEED-OFF-THE-ARM MACHINES
WITH
DIFFERENTIAL FEED

No. 95DM

Third Edition

UNION SPECIAL CORPORATION

CHICAGO

From the library of: Superior Sewing Machine & Supply LLC

Catalog No. 95DM

INSTRUCTIONS

F O R

ADJUSTING AND OPERATING

LIST OF PARTS

CLASS 35800

Styles

3 5 8 0 0 D K 3 5 8 0 0 D M 3 5 8 0 0 D N

Third Edition

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UNION SPECIAL CORPORATION

INDUSTRIAL SEWING MACHINES

CHICAGO

Printed in U.S.A.

May, 1981

IDENTIFICATION OF MACHINES

Each UNION SPECIAL machine is identified by a Style number which is stamped into the name plate on the machine. Style numbers are classified as standard and special. Standard Style numbers have one or more letters suffixed; but never contain the letter "Z". Example: "Style 35800 DK". Special Style numbers contain the letter "Z". When only minor changes are made in a standard machine, a "Z" is suffixed to the Standard Style number. Example: "Style 35800 DKZ".

Styles of machines similar in construction are grouped under a class number which differs from the style number, in that it contains no letters. Example: "35800".

APPLICATION OF CATALOG

This catalog applies specifically to the Standard Styles of machines as listed herein. It can also be applied with discretion to some Special Styles of machines in this class. Reference to direction, such as right, left, front, back, etc., are given from the operator's position while seated at the machine. Operating direction of the handwheel is counterclockwise.

STYLES OF MACHINES

High Speed, Feed-Off-The-Arm High Throw Machines, Three Needle, Left Needle In Front, Operator Controlled Differential Feed. Light Weight Presser Bar Mechanism, Adjustable Looper Avoid, Periphery of Cylinder at Needle Bar 5 7/8 Inches, Space in Front of Needles 8 Inches, Single Disc Looper Thread Take-up, Automatic Enclosed Type Oiling System and Filter Type Oil Pump, Visual Sight Oil Action and Supply Gauges.

- 35800 DK Equipped with upper driven roller feed for felling non-sanforized overalls, trousers, jackets and coats. .094 inch (2.4 mm) step on right side. Seam specification 401 LSc-3. Type 128 GLS needle. Standard gauge No. 8 (3.2 mm). Maximum recommended speed 4500 R.P.M.
- 35800 DL Same as 35800 DK except for felling sanforized or non-sanforized jeans, denim jackets and western shirts. .040 inch (1 mm) step on right side. Standard gauge No. 9 (3.6 mm).
- 35800 DM Same as 35800 DK except equipped with tractor type presser foot for felling sanforized or non-sanforized jeans, denim jackets, dungarees and shop coats. Standard gauge Nos. 8 (3.2 mm) and 9 (3.6 mm). Maximum recommended speed 5000 R.P.M.
- 35800 DN Same as 35800 DK except Standard gauge Nos. 8 (3.2 mm) and 9 (3.6 mm).

NEEDLES

Each needle has both a type and size number. The type number denotes the kind of shank, point, length, groove, finish and other details. The size number, stamped on the needle shank, denotes largest diameter of blade, measured midway between shank and eye. Collectively, type and size number represent the complete symbol which is given on the label of all needles packaged and sold by Union Special.

NEEDLES (Continued)

The standard recommended needle for Styles 35800 DK, DL, DM and DN is Type 128 GLS. Description and sizes available of the recommended needle as follows.

Type No.

Description

128 GLS Round shank, round point, short, double groove, struck groove, oversize ball eye, one step increase, spotted, short blade, 1/8 inch less than standard, width of eye and grooves undersize, one step reduction, ball point, chromium plated - sizes 090/036, 100/040, 110/044, 125/049.

To have needle orders promptly and accurately filled, an empty package, a sample needle, or the type and size number should be forwarded. Use description on label. A complete order would read: "1000 Needles, Type 128 GLS, Size 110/044".

Selection of proper needle size is determined by size of thread used. Thread should pass freely through the needle eye in order to produce a good stitch formation.

OILING AND THREADING

The oil has been drained from the machine before shipping, and the reservoirs must be filled before beginning to operate. Use a straight mineral oil with a Saybolt viscosity of 90 to 125 seconds at 100° Fahrenheit.

Oil is filled at the caps "A" and "B" in the accompanying diagrams (Figs. 1 & 2). The level is checked at the two sight gauges "C" and "D". Maintain the oil level between the red lines of the gauges.

The machine is equipped with a continuous running rotary driven oil pump. The action of the oil can be observed through the lucite windows "E" and "F" in the front and back top covers. When starting a new machine after filling the reservoirs, or when beginning to operate a machine that has been idle for some time, it may be necessary to prime the pump.

To do this, remove the two plug screws "G". Apply oil from an oil can to these holes and operate machine until bubbling can be observed at the windows. Replace screws. If oil does not bubble when machine is running, the circulating pump is inoperative.

Oil may be drained from the machine at two places, "H" and "J". One plug screw is located in the bottom of the cylinder and the other at the back of the main frame below the handwheel.

Fig. 1 shows the manner in which machine Style 35800 DM is threaded, while Fig.2 shows the manner in which machine Styles 35800 DK, DL and DN are threaded.

Keep the threads in the slots (K, Figs. 1 and 2) in the tension posts "L" and between the tension discs "M" and "N".

A convenient means for threading the looper has been provided. When loopers are at the left end of their travel, press the knob "P" and loopers will back out of position, leaving them easily accessible. After threading, push loopers back into position.

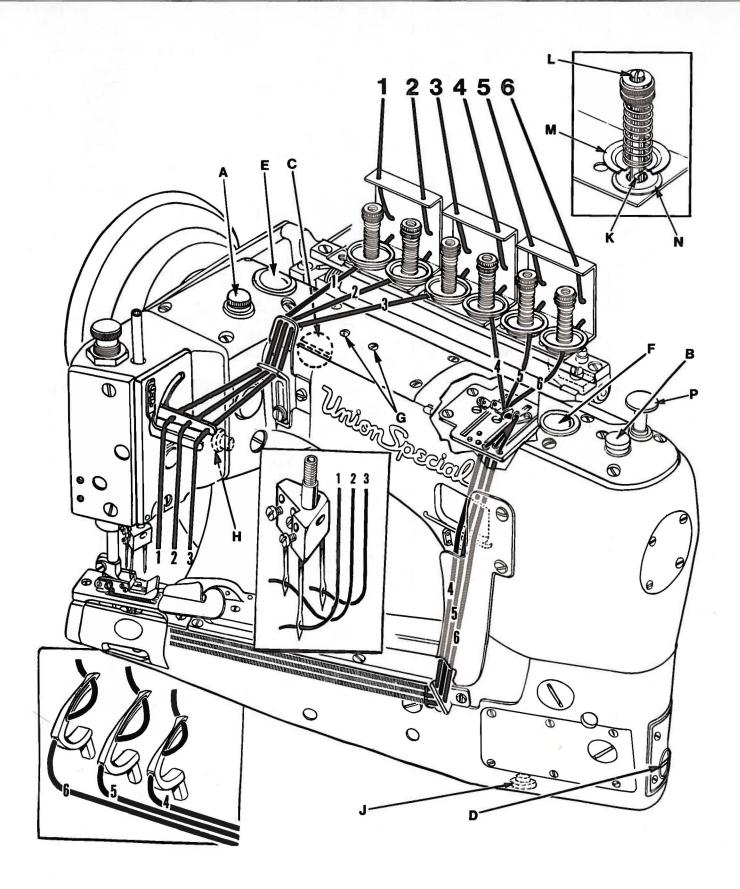


Fig. 1

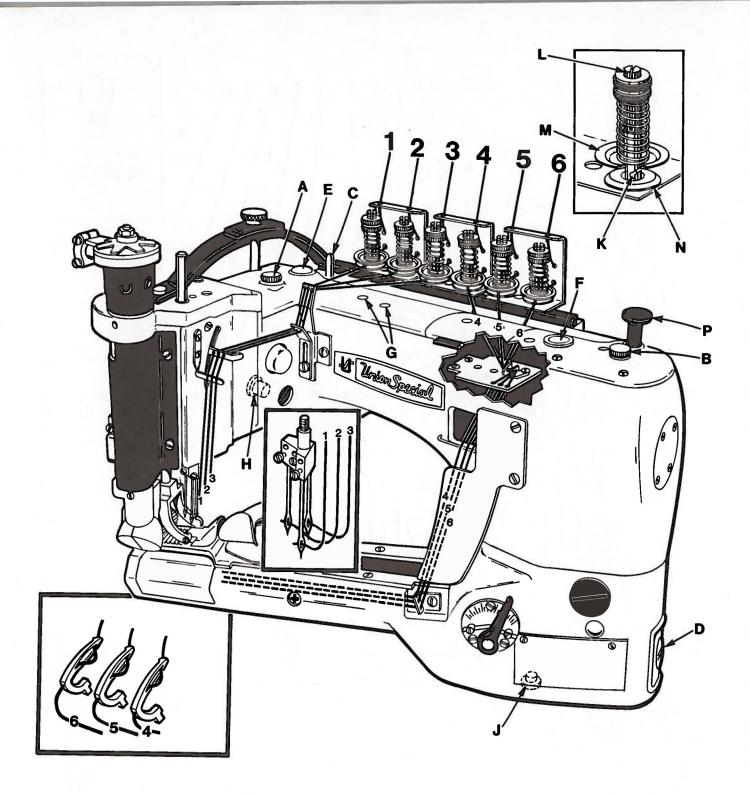


Fig. 2

SYNCHRONIZING NEEDLE AND LOOPER MOTIONS

Needle and looper mechanisms are carefully synchronized with precision gauges before leaving the factory to insure the best possible sewing conditions. Should it become necessary to disassemble the main shaft or replace components of the needle or looper drive mechanisms, re-synchronization of the machine will be required to facilitate proper sewing adjustments. This is accomplished by means of an adjustable split coupling located beneath the rear top cover, connecting the crankshaft to the main shaft, which in turn drives the looper mechanism.

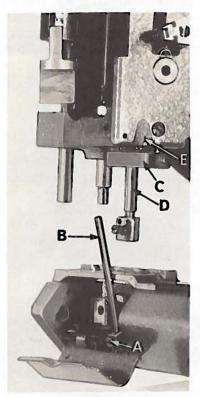


Fig. 3

To synchronize the machine, remove the needles, presser foot, throat plate and feed dogs. The upper feed roller mechanism MUST be removed on Styles 35800 DK, DL and DN machines. Rotate handwheel in the operating direction until the needle bar is at the bottom of its stroke and just begins its upward travel. Loosen screw (A, Fig. 3) and remove the looper for the left hand needle from the looper holder. Insert a straight steel rod (B) 5/32 or 11/64 inch diameter by 2 1/2 inches long into looper holder and retighten screw (A). It may be necessary to re-position the looper holder so that the rod (B) will be in a vertical position when at its farthest travel to the right. Rotate the handwheel until the rod is at extreme left, re-install the throat plate. Turn the handwheel in the operating direction, raising the needle bar until the rod (B) comes in contact with the edge of the throat plate. At this point, clamp Union Special timing gauge No. 21225 H (C) around the needle bar (D), flush against the underside of the machine casting (E). Rotate handwheel in the opposite direction until either the gauge contacts the machine casting on the upstroke of the needle bar or the rod contacts the edge of the throat plate. Maximum allowable clearance between gauge and casting or rod and throat plate is . 005 inch.

Both ends of the adjustable split coupling are secured to the crankshaft and main shaft by spot screws and set screws. On the main shaft end of the coupling (A, Fig. 4)

three screws (B) thread horizontally through the coupling. The holes in the main shaft end of the coupling are drilled several thousandths larger than the diameter of the screws, permitting several degrees of rotation in either direction to properly synchronize the needle and looper. Loosen the three horizontal clamp screws (B,

Fig. 4) and with the rod (B, Fig. 3) at its farthest position to the left, barely tighten the uppermost horizontal clamp screw enough to hold the coupling (A, Fig. 4) in position. If the handwheel is turned in reverse of operating direction and the gauge (C, Fig. 3) on the needle bar (D) contacts the machine casting (E) before the rod (B) contacts the edge of the throat plate, loosen the horizontal clamp screw which was barely tightened, while holding the coupling in place by the set screw (C, Fig. 4) with an Allen wrench. Rotate the handwheel SLIGHTLY in reverse of operating direction, snug the uppermost horizontal clamp screw and use shim gauge to insure no more than .005 inch exists

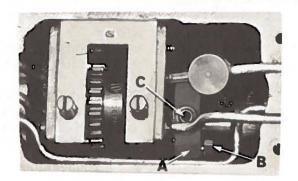


Fig. 4

SYNCHRONIZING NEEDLE AND LOOPER MOTIONS (Continued)

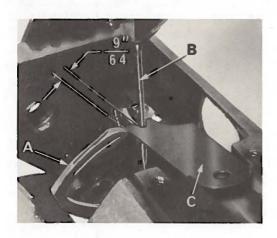


Fig. 5

between gauge and casting or between rod and throat plate, in both the operating and reverse directions of the handwheel. If the handwheel is turned in reverse of operating direction and the rod contacts the edge of the throat plate before the clamp gauge contacts the machine casting, except turn the handwheel adjust as before. SLIGHTLY in the operating direction while holding the main shaft end of the coupling by the set screw with the Allen wrench. When this setting has been made, tighten the three horizontal clamp screws (B, Fig. 4) securely, and recheck both clearance points with .005 inch shim gauge to assure no slippage occurred while tightening the screws.

SETTING THE LOOPER

Insert a new set of needles, type and size specified. Always adjust the looper (A, Fig. 5) for the left needle first. Set the looper so that the distance from the center of the needle (B) to the point of the looper (A) is 9/64 inch, when the looper is

at its farthest position to the left. Looper gauge (C) No. 21225-9/64 can be used advantageously in making this adjustment. If adjustment is required, loosen screw (A, Fig. 6) in looper holder, permitting movement in either direction to obtain the 9/64 inch dimension as shown in Fig. 5. Retighten screw (A). Rotate handwheel in operating direction to assure that the looper point passes to the rear of the needle as close as possible without contacting, and the descending needle barely brushes the back of the looper. adjustment can be made by loosening screw (B, Fig. 6) very

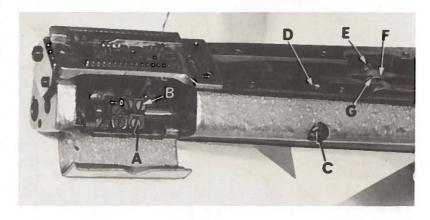


Fig. 6

slightly, so the looper can be moved in the holder, but rigid enough to retain its position while rotating machine through its cycle to attain the required movement, retighten screw. Always check the 9/64 inch looper gauge setting after setting the looper to the back of the needle, and conversely, always check the setting of the looper to the back of the needle after setting the 9/64 inch looper gauge.

If more or less looper avoid motion is required, remove the cylinder side cover located at the lower front left side, loosen looper avoid link ball joint (A, Fig. 11). Moving ball joint downwardly in the lever slot increases the amount of looper avoid motion, moving it upwardly acts the reverse. Retighten ball joint securely. RE-CHECK SETTINGS AS BEFORE.

SETTING THE FEED DOGS

Before assembling the main and differential feed dogs, set the feed bar eccentric pin (C, Fig. 6) located in the left side near center of cylinder, so that the slot in the head is in a horizontal position. This assures a neutral position of eccentricity for

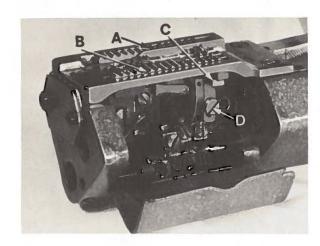


Fig. 7

the purpose of raising or lowering the height of the main and differential feed bars simultaneously. The feed bar pin is retained in position by set screw (D). Assemble the differential feed dog (A, Fig. 7), main feed dog (B) and throat plate. Both the main and differential feed dogs can be individually adjusted to height due to having elongated slots for their attaching screws. The main feed dog at its highest position, should be set to project above the throat plate, slightly more than the depth of its teeth. The differential feed dog may then be leveled with the main feed dog. Tighten the attaching screws securely.

Should the main feed dog require repositioning due to contact with the throat plate in its forward or rearward travel, loosen set screw (E, Fig. 6) in main feed bar driving

link (F) rotate main feed bar eccentric driving stud (G) as required. Driving stud (G) has a thin hexagon head with cut-outs on two of the flats allowing movement by tapping with a sharp pointed tool when a thin open end wrench is not available. Whenever the main feed bar eccentric driving stud position has been changed, re-check rear needle guard setting, adjustment may be required. Retighten set screw (E). Position main feed dog support (C, Fig. 7) flush against bottom of main feed dog (B), tighten support screw (D) securely.

TIGHTENING NEEDLE BAR HEAD

When replacement of the needle bar head is necessary, torque to 17 in. lbs. (19.6 cm.kg) or use torque rod No. 21227 AR that has been supplied with the machine for the purpose of eliminating the possibility of distorting the needle bar due to overtightening. Insert the torque rod in the hole at the upper end of needle bar, while holding the needle bar head with a suitable tool, turn the needle bar with the torque rod onto the needle bar head. When the rod starts to bend, the needle bar head has been threaded into the needle bar the proper distance.

ALIGNING AND SETTING HEIGHT OF NEEDLE BAR

Align the needle bar (A, Fig. 8) with test plate (B) No. 698 BR-8 or -9 as applicable to the machine gauge, using test pins (C) No. 699 D. Loosen screw (D) in needle bar connection (E) permitting alignment of test pins into the test plate. With the needle bar connection (E) at the bottom of its travel and the shoulders of the test pins (C) seated on the test plate (B), the needle bar is automatically set at its proper height. Retighten screw (D).

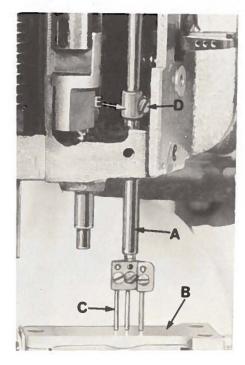


Fig. 8

ALIGNING AND SETTING HEIGHT OF NEEDLE BAR (Continued)

If test plate and test pins are not available, insert a new set of needles, type and size specified, and with screw (D) slightly loosened, lower and turn needle bar as required until the oblique position of the needles corresponds with the vertical faces of the rear needle guard, retighten screw (D). The height of the needle bar is correct when the top of the needle eye is 1/64 inch below the underside of the looper, with the looper point even with the right side of the needle. Adjustment can be made at the needle bar connection as previously described.

Care must be taken not to disturb the alignment of the needle bar, when moving the needle bar either up or down.

UPPER FEED ROLLER ADJUSTMENT (Styles 35800 DK, DL and DN)

When upper feed roller mechanism has been removed or replaced, .005 inch clearance should be maintained between roller and throat plate to alleviate the possibility of the teeth of the roller, chipping at the throat plate during absence of sewing material. Loosen set screw (A, Fig. 9) in feed roller frame (B) permitting feed roller mechanism to be raised on the roller presser bar (C). With presser bar connection (D) properly positioned and secured on roller presser bar with spot screw (E), set screw (F) and resting on head casting (G), insert .005 inch shim between roller and throat plate. Depress feed roller mechanism firmly on shim, retighten set screw (A), remove shim.

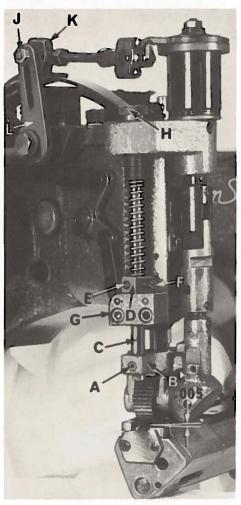


Fig. 9

Regulate the pressure on the feed roller so that it exerts only enough pressure on the fabric to feed the work uniformly by turning roller presser spring regulator (H) clockwise to increase or counterclockwise to decrease the pressure.

To adjust the amount of travel of the roller, loosen nut (J) move ball joint assembly (K) upwardly in clutch driving segment lever (L) to acquire more feed action, downwardly acts the reverse. Retighten nut (J).

PRESSER FOOT ADJUSTMENT

The presser foot should be adjusted to clear the throat plate 1/8 inch before the upper feed roller mechanism begins to rise. Loosen set screw (A, Fig. 10) in presser bar lifter and guide (B), raise or lower guide as required to attain the specified point at which the feed roller begins to rise. Retighten set screw (A).

Regulate the pressure on the presser foot same as the upper feed roller by turning the presser spring regulating nut, located on top of leaf type spring at the rear of machine.

SETTING REAR NEEDLE GUARD

Set the rear needle guard horizontally so that it barely contacts the needles when at its extreme forward position. It should be set vertically as low as possible, yet have its guarding surface in contact with the needles until the points of the loopers, moving to the right, are even with the right side of the needles.

CHANGING STITCH LENGTH



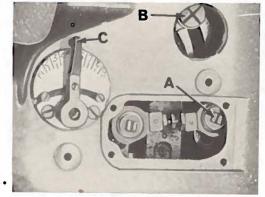
Fig. 10

When change in stitch length is required, remove large plug screw located in the left forward side of cylinder just below the joining line of cylinder and main frame. Loosen feed rocker driving link screw (B, Fig. 11). Moving the feed rocker driving link upwardly in the lever slot lengthens the stitch, moving it downwardly, acts the reverse. Retighten link screw securely.

DIFFERENTIAL CONTROL

The amount of differential is controlled by a lever (C, Fig. 11) located on the lower left side of cylinder. When the

lever is moved towards
the operator, more differential or gathering occurs, when moved towards
the needles, reverse
differential or stretching occurs. If top ply
of material is coming out
long, move lever toward
operator, if top ply is
short, move lever away
from operator, as required.



THREAD TENSION AND RELEASE

Fig. 11

The amount of tension on needle and looper threads is regulated by six knurled tension nuts (A, Figs. 1 & 2). Set the tension on the needle threads as tight as is consistent with their strength and avoid puckering the fabric. The tension on the looper threads should be barely sufficient to steady them in passing through the machine.

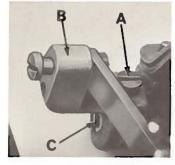


Fig. 12

The thread tension release is set correctly when it begins to function at the point when the upper feed roller begins to raise. When adjustment is necessary, loosen screw (A, Fig. 12) in lifter lever (B). Facing the tension release shaft (C) from the RIGHT end of the machine, insert screwdriver in slot in shaft and rotate counterclockwise to retard, or clockwise to advance the release Retighten screw (A).

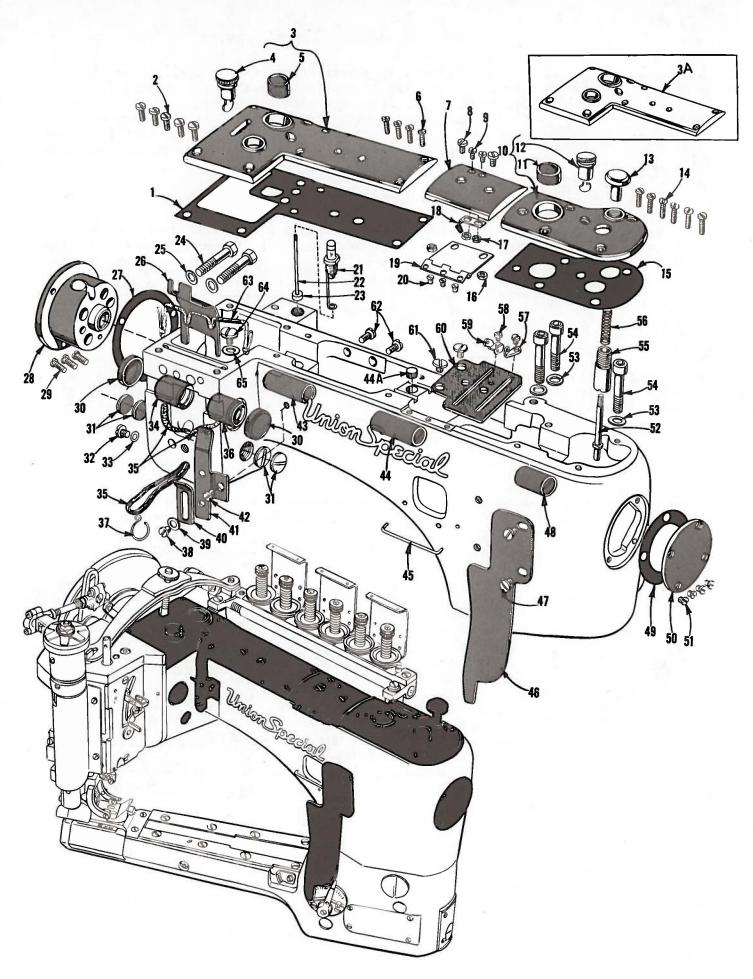
action, as required.



Fig. 13

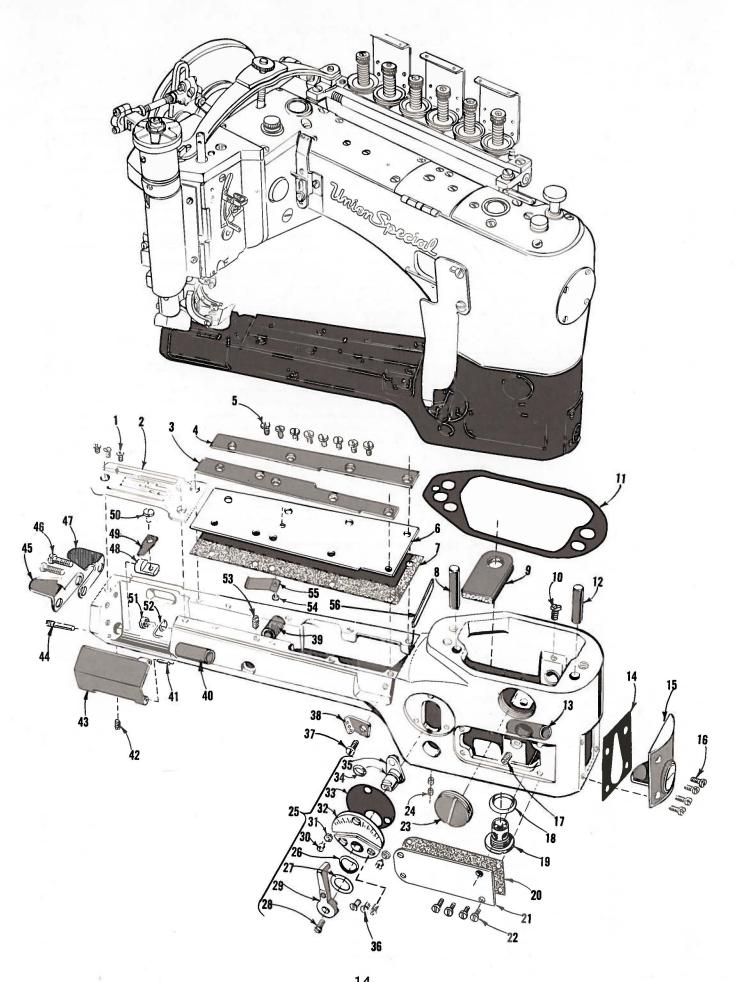
SETTING NEEDLE THREAD TAKE-UP AND FRAME EYELET

Set the adjustable frame needle thread eyelet (A, Fig. 13) in the upper mounting hole of the frame needle thread eyelet (B) adjust and tighten in position so the needle thread from the adjustable frame needle thread eyelet (A) to the needle lever thread eyelet (C) will be in a straight line, with the needle bar at the top of its stroke. With the needle bar at the bottom of its stroke, the needle thread take-up (D) should be set so that its is 1/16 inch above the edge of the needle lever thread eyelet (C).



MAIN FRAME, CAST-OFF PLATE, EYELETS, MISCELLANEOUS COVERS AND BUSHINGS

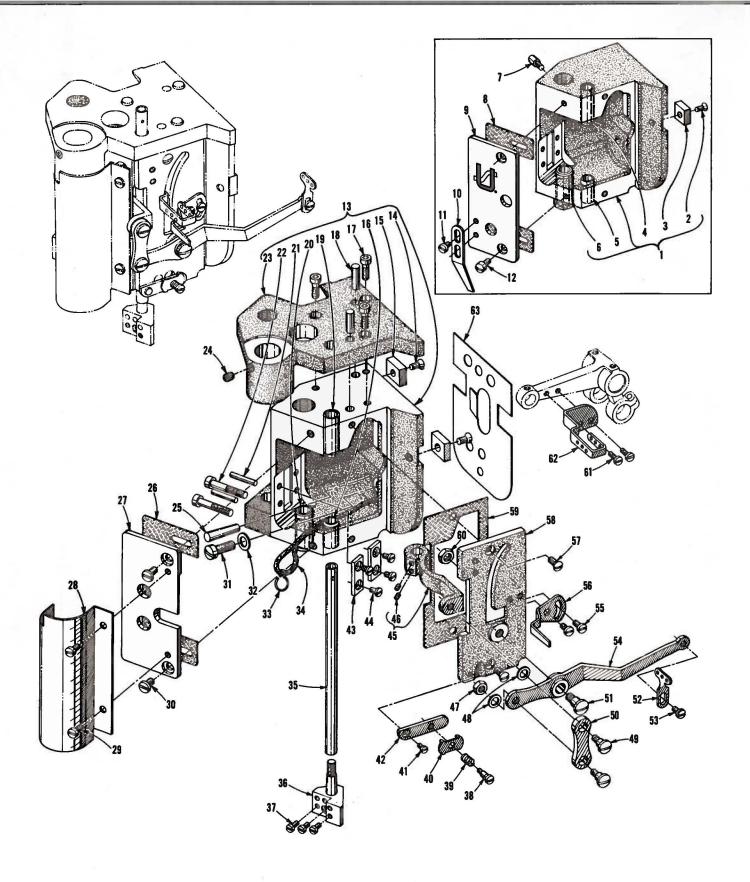
Ref. No.	Part No.	Description		
			Rec	
1	35888 P	Gasket	-	
2	93	Screw	0.00	
3	35888 NR	Crank Chamber Cover, for Styles 35800 DK, DL and DN		
3A	35888 N	Crank Chamber Cover, for Style 35800 DM	. 1	
4	666-96	0il Cup	J.	
5	50-537 Blk.	Oil Sight Gauge		
6	22516 A	Screw		
7	35887 X	Top Cover, middle		
8	93 A	Screw		
9	90	Screw		
10	35887 AE	Top Cover, front		
11	50-537 Blk.	Oil Sight Gauge		
12	666-96	0il Cup	1	
13	35853 Z	Looper Throw-out Plunger Knob		
14	22516 A	Screw		
15	35887 AD	Gasket		
16	12934 A	Nut, for No. 93 A screw	2	
17	41071 G	Nut, for No. 90 screw	2	
18	35887 M	Spring	. 1	
19	35887 R	Middle Top Cover Hinge	1	
20	22564 B	Screw	. 3	
21	36293 В	011 Sight Gauge	1	
22	36293 E	011 Sight Indicator	1	
23	39593 C	011 Gauge Float	1	
24	22759 A	Screw		
25	6042 A	Washer		
26	35889 Н	0il Shield	. 1	
27	56390 E	Gasket	1	
28	35890 F	Bushing Housing, including bushing	1	
29	22569 B	Screw	. 3	
30	35761 D	Bushing Cap, plastic	2	
31	22539 E	Plug Screw	4	
32	22733 B	Oil Drain Screw	1	
33	41394 A	Gasket		
34	35760 E	Needle Lever Shaft Bushing, rear	1	
35	CL21	0il Wick	2	
36	35760 D	Needle Lever Shaft Bushing, front		
37	35897 AW	Oil Wicking Hook, upper	1	
38	22570	Screw	1	
39	8372 A	Washer		
40	35871 A	Needle Thread Eyelet, three holes	1	
41	35871 B	Needle Thread Eyelet, three holes	1	
42	22570 A	Screw	1	
43	35890 E	Crankshaft Rushing, front	1	
44	35890 D	Mainshaft Bushing, rear	1	
44A	50-539 Blk.	P1110	1	
45	35781 D	Looper Thread Guide Wire	ī	
46	35856 AA	Looper Thread Shield	1	
47	22829	Screw	- 2	
48	36290 B	Mainshaft Bushing, front	1	
49	35887 V	Gasket	1	
50	35887 Z	Main Frame End Cover	ī	
51	22564 B	Screw	4	
52	35853 W	Looper Throw-out Plunger	i	
53	35876 U	Washer	3	
54	22653 E-20	Screw	3	
55	35853 AA	Looper Throw-out Plunger Bushing	1	
56	AND THE COURT NAME OF THE COURT	Looper Throw-out Plunger Spring	î	
	35853 Y	Cast-off Plate Eyelet, front	ī	
57	35772 T	Screw	2	
58	28	Cast-off Plate Eyelet, rear	1	
59	35772 S	Cast-off Plate	1	
60	35704 C	Screw	2	
61	22730	Screw Comments and London No. 25007 DM	2	
62	93	Screw, for rotary pump housing No. 35897 BN	1	
63	CL21	Screw, for oil wick	1	
64	22711	Screw, for oil wick	1	
65	69 H	WACULT	-	



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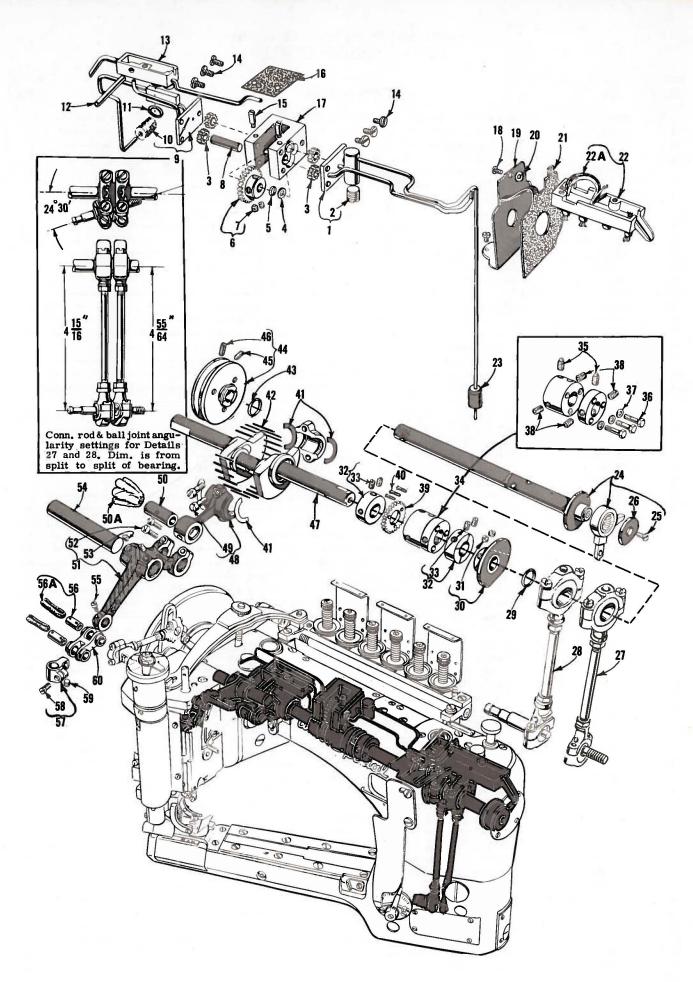
DIFFERENTIAL FEED CONTROL, CYLINDER COVERS AND BUSHINGS

Ref.	Part		Amt.		
No.	No.	Description			
	2050/				
1 2	22524	Screw			
3	35883 N	Throat Plate, (Refer to Page No. 29)	1		
4	35883 P	Folder Gib, right	. 1		
5	22564 J	Screw			
6	35883 T	Cylinder Cover			
7	35883 S	Gasket			
8	667 D-16	Dowel Pin, straight			
9	36297 G	Oil Filter Assembly	- ī		
10	22596	Screw			
11	36284	Gasket			
12	664 F-24	Pin, tapered			
13	36249 A	Looper Shaft Bushing, front	- 1		
14	35884 D	Gasket	· ī		
15	36284 C	Cylinder Cover and Oil Gauge, front			
16	J87 J	Screw	. 4		
17	22560 A	Screw			
18	660-202	Oil Seal Ring			
19	36297 Н	Oil Drainage Screw			
20	36286 A	Gasket			
21	36286	Cylinder Side Cover			
22	22766	Screw			
23	22539 S	Plug Screw			
24	531	Screw			
25	29478 CZ	Differential Feed Control Assembly	. 1		
26	36237 J	Spring Washer	. 1		
27	652 K-24	Washer, fiber			
28	538	Screw			
29	36237 G	Operating Lever	. 1		
30	36237 H	Stop Screw Pin	- 2		
31	60078 Z	Nut			
32	36238	Adjusting Plate	. 1		
33	36238 E	Gasket			
34	660-220	Oil Seal Ring	. 1		
35	36237 E	Adjusting Lever	. 1		
36	87 A	Screw	. 3		
37	22849 A	Screw	1		
38	35856 Y	Looper Thread Eyelet	• 1		
39	36237 F	Bushing, for feed bar eccentric stud	. 1		
40	35850 D	Looper Shaft Bushing, rear	• 1		
41	35883 G	Pin	• 1		
42	22894 W	Screw, for No. 36283 C	. 1		
43	35883 R	Cylinder Hinged Cover	• 1		
44	22791 E	Screw Pin	· I		
45	35796 В	Chain Cutter Blade, upper	. 1		
46	22747	Screw			
47	35796 C	Chain Cutter Blade, lower	1		
48	36283 C	Cylinder Hinged Cover Spring Support Stud	. 1		
49	35883 U	Cylinder Cover Spring	. 1		
50	22585 C	Screw			
51	22849	Screw	1		
52	36256 B	Cylinder Looper Thread Guide Wire	1		
53	531	Screw	1		
54	22798	Screw	1		
55	36284 E	Upper Lint ShieldGasket	1		
56	35883 V	Gasker	. 1		



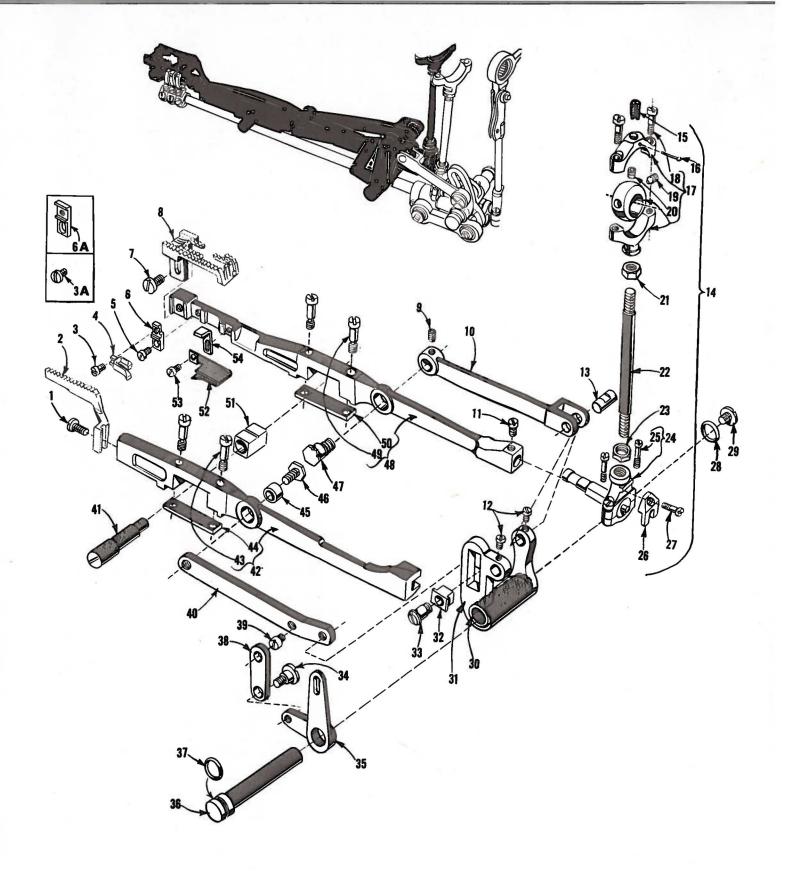
NEEDLE BAR, NEEDLE HEAD, DETACHABLE HEAD AND MISCELLANEOUS COVERS

Ref. No.	Part No.	Description	Amt. Req.
1	35829 AA	Detachable Head, for Style 35800 DM	1
2	22524	Screw	2
3	35767	Sewing Head Key	2
4	35859 D	Needle Bar Bushing, upper	1
5	35859 C	Needle Bar Bushing, lower	1
6	35731 F	Presser Bar Bushing, lower	1
7	42 A	Lifter Lever Link Stop Screw, for Style 35800 DM	1
8	35889 AA	Gasket, for Style 35800 DM	1
9	35889 AC	Detachable Head Cover, left, for Style 35800 DM	1
10	35831 F	Presser Foot Stop, for Style 35800 DM	ī
11	22584	Screw, for Style 35800 DM	2
12	22528	Screw, for Style 35800 DM	2
13	35829 AC	Detachable Head, for Styles 35800 DK, DL and DN	ī
14	22524	Screw	2
15	35767	Sewing Head Key	2
16	35859 L	Needle Bar Bushing, lower	ī
17	22653 B-8	Screw	3
18	667 C-12	Dowel Pin	2
19	35859 K	Needle Bar Bushing, upper	1
20	35831 G	Presser Bar Bushing, lower	ī
21		Dowel Pin	2
22	667 B-16	Screw	2
200.00	22653 B-16	Puller Clutch Bracket	
23 24	35876 AK	Screw, for Styles 35800 DK, DL and DN	1
25	22894 C	Dowel Pin, tapered	1
12 12	664 F-16		1
26	35889 AA	Gasket, for Styles 35800 DK, DL and DN	1
27	35889 Y	Detachable Head Cover, left, for Styles 35800 DK, DL and DN	1
28 29	35889 Z	Detachable Head Cover, left, for Styles 35800 DK, DL and DN	1
-	22564 B	Screw, for Styles 35800 DK, DL and DN	2
30	22829	Screw, for Styles 35800 DK, DL and DN	2
31	318		1
32	6042 A	Washer	1
33	35897 AW	Oil Wick as requ	, 1,
34	CL21	Needle Bar, marked "DY"	
35	35817 E		1
36	35818 BY-8	Needle Bar Head, marked "V-8", for No. 8 gauge machines	1
27	35818 BY-9	Needle Bar Head, marked "V-9", for No. 9 gauge machines	1
37	605	Screw	3
38	57 WD		1
39 40	15438 C	Needle Thread Nipper Spring	1
40 41	57 WB	Needle Thread Nipper Spring Plate	1
	605		1
42	43296	Needle Thread Nipper Base	1
43	35731 A	Presser Bar Guide Plate	2
44	22513	Screw	4
45	35869 L	Thread Controller Arm	1
46	89	Screw	2
47	12934 A	Nut	1
48	69 H	Washer	2
49	22758 E	Screw	2
50	35869 D	Control Lever Connection Link	1
51	22557 A	Screw	1
52	35869 K	Needle Thread Lever Control Eyelet	1
53	25 B	Screw	1
54	35869 C	Needle Thread Control Lever	1
55	22768	Screw	2
56	35870	Needle Thread Take-up	1
57	22524	Screw	2
58	35889 X	Detachable Head Cover, front	1
59	35889 B	Gasket	1
60	12982	Nut	1
61	77	Screw	2
62	35864 F	Needle Lever Thread Eyelet	1
63	35889 G	Baffle Plate	1



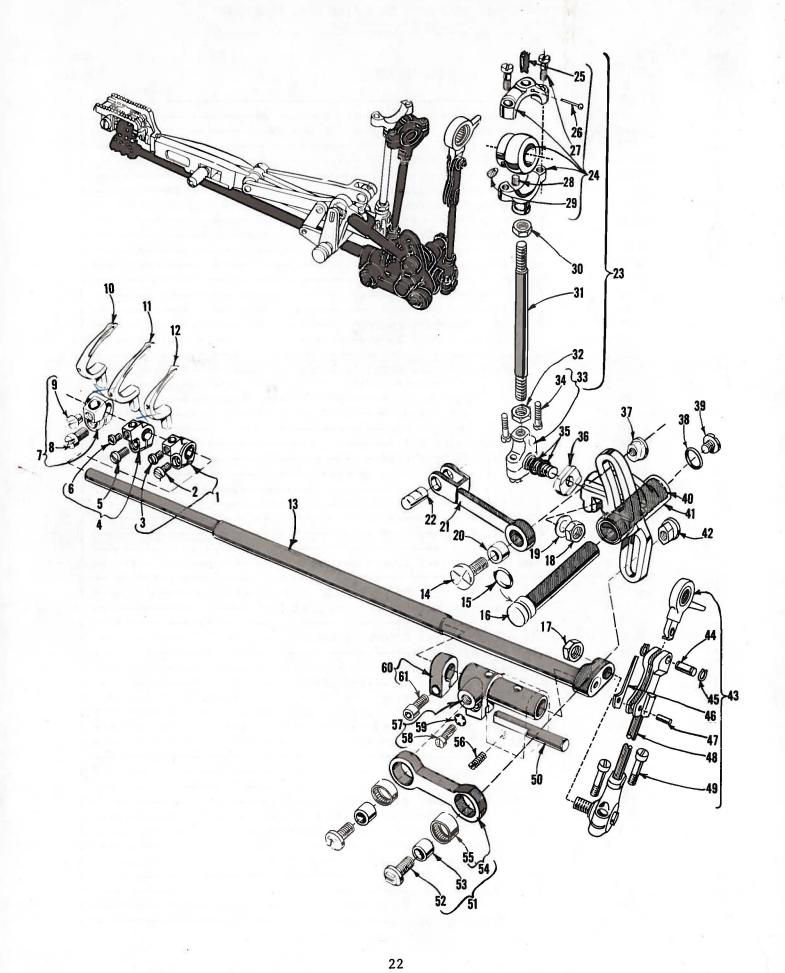
MISCELLANEOUS OILING, NEEDLE LEVER, CRANKSHAFT AND MAINSHAFT PARTS

Ref.	Part No.	Description	Amt. Req.
1	35897 CB	Oil Pump Housing Cover, front	1
2	22571 B	Plug Screw	1
3	51493 E	Rotary Pump Gear	4
-		Washer	i
4	6042 A	Oil Seal Ring	î
5	660-220	Oil Pump Driven Gear	i
6	35897 BR	Oil Pump Driven Gear	
7	89	Screw	Z
8	35897 BP	Driven Gear Shaft	1
9	35897 CC	Oil Pump Housing Cover, rear	1
10	35897 BV	Intake Filter	1
11	660-207	Oil Seal Ring	1
12	35897 BU	Oil Reservoir Outlet Tube	1
13	35894 J	Oil Reservoir, back	1
		Screw	6
14	22585 A	Vent Screw, for oil pump	
15	21756 G	vent Screw, for oil pump	2
16	35897 BW	Gasket	I
17	35897 BN	Oil Pump Housing	1
18	90	Screw	2
19	36261 B	Take-up Shield	1
20	80265	Spacer Washer	1
21	35861 D	Gasket	1
22	35894 K	Oil Reservoir, front	1
22A	WO-3	Columbia Wool Yarn	s required
1000 0000	The second course of the second	Oil Intake Filter Screen	1
23	36297 E	Mainshaft Assembly	1
24	35722 AF	Mainshart Assembly	I
25	22526	Screw	
26	35895 V	Washer	
27	29478 DU	Feed Drive Eccentric Assembly (See Page 23 for components)	1
28	29478 DV	Feed Lift Eccentric Assembly (See Page 21 for components)	1
29	660-202	Oil Seal Ring	1
30	35723 C	Looper Thread Take-up	1
31	22580 D	Screw	
32	35895 Y	Crankshaft Thrust Collar	
1 = 10100		Screw	2
33	22560 B		
34	35895 W	Mainshaft and Crankshaft Coupling	1
35	22894 K	Spot Screw	2
36	22519 F	Screw	
37	80265	Washer	3
38	22894 J	Set Screw	4
39	35897 BY	Oil Pump Driving Gear	1
40	22797	Screw	3
41	35763 G	Needle Bearing Retainer	4
42	35763 F-625	Needle Bearing .0625 inch (1.588 mm) diameter	28
42			
	35763 F-626	Needle Bearing .0626 inch (1.590 mm) diameter	20
	35763 F-627	Needle Bearing .0627 inch (1.593 mm) diameter	28
_	35763 F-628	Needle Bearing .0628 inch (1.595 mm) diameter	28
43	660-202	Oil Seal Ring	1
44	35721 J	Pulley, for Style 35800 DM	1
45	22894 H.	Spot Screw	1
46	22894 E	Set Screw	1
47	35822 T	Crankshaft, for Style 35800 DM	1
48	35862	Needle Lever Connecting Rod	1
49	22587 B	Screw	
50		Needle Lever Connecting Rod Pin	
	35763	Needle Lever Connecting Roa Fin	1
50A	WO-3	Columbia Wool Yarna	
51	35815 A	Needle Lever	
52	22729	Screw	
53	22596 B	Screw	2
54	35761	Needle Lever Shaft	1
55	77	Screw	
56	51054	Link Pin	
56A	666-149	011 Wick	
50A 57	51254 J	Needle Bar Connection	
7441741		Screw	
58	22562 A		
59	22564	Screw	
60	56354 A	Needle Lever Link	1



DIFFERENTIAL FEED BAR, MAIN FEED BAR, FEED LIFT ECCENTRIC ASSEMBLY

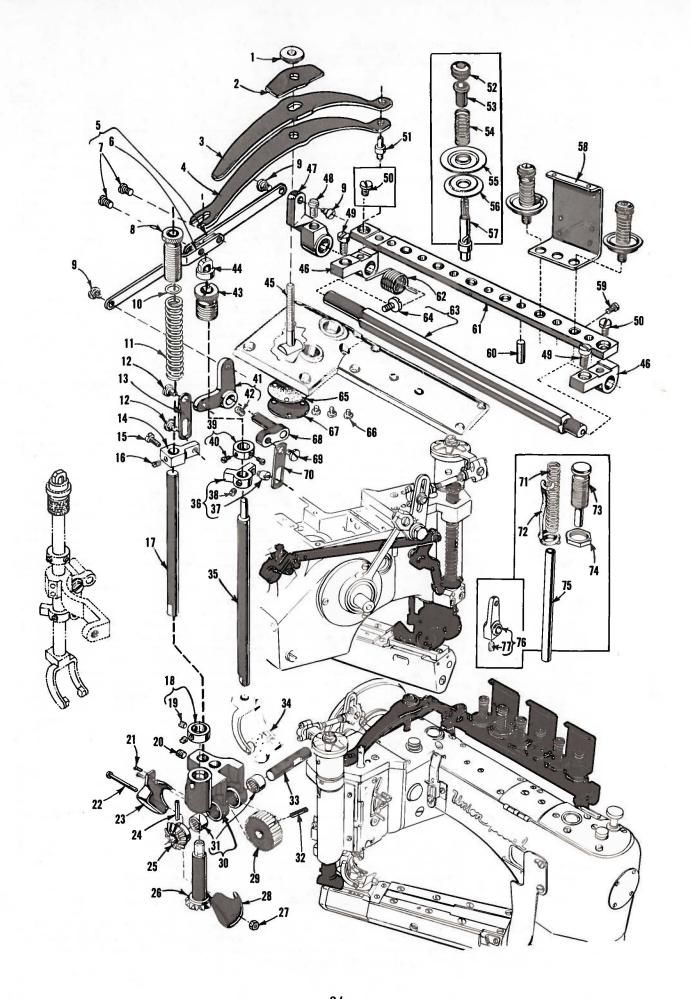
Ref.	Part No.	Description	Amt. Req.
10.		<u> Descripcion</u>	<u>keq.</u>
1	22528	Screw	
2	W	Differential Feed Dog (Refer to Page 29)	1
3	87 บ	Screw, for Styles 35800 DK, DL and DN	1
3A	22 KH	Screw, for Style 35800 DM	1
4	35825 Z	Needle Guard, marked "LD"	
5	22768	Screw	
6	35835 C	Needle Guard Holder, marked "D", for Style 35800 DM	
6A	35835 B	Needle Guard Holder, for Styles 35800 DK, DL and DN	1
7	22528	Screw	
8		Main Feed Dog (Refer to Page 29)	1
9	22894 P	Screw	1
10	35834 W	Main Feed Bar Driving Link	1
11	33174 В	Screw	
12	77	Screw	
13	62238 A	Link Pin	
14	29478 DV	Feed Lift Eccentric Assembly	
15	WO-3	Columbia Wool Yarn as	
16	PI-18	Pin	
17	29103 T	Feed Lift Eccentric Assembly Ball Joint	
18	22587 E	Screw	2
19	22894 U	Spot Screw	
20	22894 W	Set Screw	
21	269	Nut, left thread	
22	36244	Connecting Rod	
23	18	Nut, right thread	1
24	36244 A	Ball Joint, complete	1
25	22729 C	Screw	2
26	41255 B	Ball Fork	1
27	22747	Screw	1
28	660-206	Oil Seal Ring	1
29	22711	Screw	
30	36236 B	Bushing, for feed rocker shaft	1
31	35836 A	Feed Rocker	1
32	36236 K	Differential Feed Driving Link Slide Block	1
33	36236 J	Differential Feed Bar Driving Link Stud	1
34	22504 C	Screw	1
35	36237	Differential Feed Adjusting Lever	1
36	36236 A	Feed Rocker Shaft	1
37	660-207	Oil Seal Ring	1
38	36237 A	Differential Feed Adjusting Lever Link	1
39	22845 M	Screw	1
40	35836 B	Differential Feed Bar Driving Link	1
41	36234 D	Feed Bar Eccentric Stud	1
42	36234 F	Differential Feed Bar	
43	22587 Н	Screw	
44	36234 G	Feed Bar Plate	
45	36236 Н	Bushing	
46	36236 G	Differential Feed Bar Driving Link Stud	
47	35834 X	Main Feed Bar Eccentric Driving Stud	ī
48	35834 AB	Main Feed Bar	ī
49	22587 H	Screw	2
50	36234 G	Feed Bar Plate	
51	36234 C	Feed Bar Slide Block	
52	35884 K	Lower Lint Shield	1
53	22804 K	Screw	1
54	35834 AA	Main Feed Dog Support	
J-T	32U34 DD	INVELL FOR DOE DUDDOIL	



LOOPERS, LOOPER HOLDERS, FEED DRIVE ASSEMBLY AND LOOPER AVOID ASSEMBLY

Ref. No.	Part No.	Description R
1	35848 В	Looper Holder, for left needle looper, marked "A"
2	22562 A	Screw
3	22564 D	Screw
/	U-11_000 NO NO	SCrew
4	35848 E	Looper Holder, for right needle looper, marked "D"
/ 3	22562 A	Screw
/ 6	22564	Screw
7	35848 D	Looper Holder, for middle needle looper, marked "C"
8	22562 A	Screw
9	22564	Screw
10	35809 BY	Looper, for middle needle, marked "AY"
11	35809 AY	Looper, for right needle, marked "AV"
12	35808 AY	Looper, for left needle, marked "AU"
13	35849 C	Looper Rocker Shaft
10 3350	C. COLONIA DE COLO	Feed Rocker Driving Link Screw
14	35836 C	reed Rocker Driving Link Screw
15	660-207	Oil Seal Ring
16	36236 A	Feed Drive Shaft
17	258 A	Nut
18	258	Nut
19	6042 A	Washer
20	36236 H	Bushing, for feed rocker driving link
21	36236 C	Feed Rocker Driving Link
22	62238 A	Link Pin
23	29478 DU	Feed Drive Assembly
		Feed Drive Eccentric Assembly
24	29101 K	
25	WO-3	Columbia Wool Yarn as requir
26	PI-18	Pin
27	22587 E	Screw
28	22894 W	Set Screw
29	22894 U	Spot Screw
30	269	Nut, left thread
31	43246	Connecting Rod
32	18	Nut, right thread
		Ball Joint Assembly
33	35846	
34	22729 C	Screw
35	41355 U-4	Shim, .004 inch (.102 mm) thick as requir
-	41355 U-5	Shim, .005 inch (.127 mm) thick as requir
-	41355 U-6	Shim, .006 inch (.152 mm) thick as requir
_	41355 U-7	Shim, .007 inch (.178 mm) thick as requir
-	41355 U-8	Shim, .008 inch (.203 mm) thick as requir
_	41355 U-9	Shim, .009 inch (.229 mm) thick as requir
36	35846 B	Ball Stud Washer
37	35866	Nut
		Nut
38	660-206	Oil Seal Ring
39	22711	Screw
40	36236 B	Bushing, for feed drive shaft
41	35842 J	Feed Rocker, Looper Lever and Drive Lever
42	35766 B	Nut. for No. 29478 DM
*43	35853 AL	Looper Drive Connecting Rod Assembly
44	35853 V-156	Hinge Pin
45	660-310	Truarc Ring
46	56341 G	Locking Spring
	700 P. D.	Pin
47	50-458 Blk.	F10
48	35853 AK	Looper Drive Connecting Rod
49	97 A	Screw
50	36278 C	Stud, for looper shaft sleeve
51	29478 DM	Looper Avoid Link Assembly
52	35851 K	Screw
53	56341 F	Ferrule
54	35851 M	Connecting Rod Bearing Shell
		Needle Bearing Snell
55	660-311	
56	22560 A	Screw
57	36249 B	Looper Shaft Sleeve
58	22729 D	Screw
FO	652 C-9	Washer
59		
60	35751 G	Looper Shaft Collar

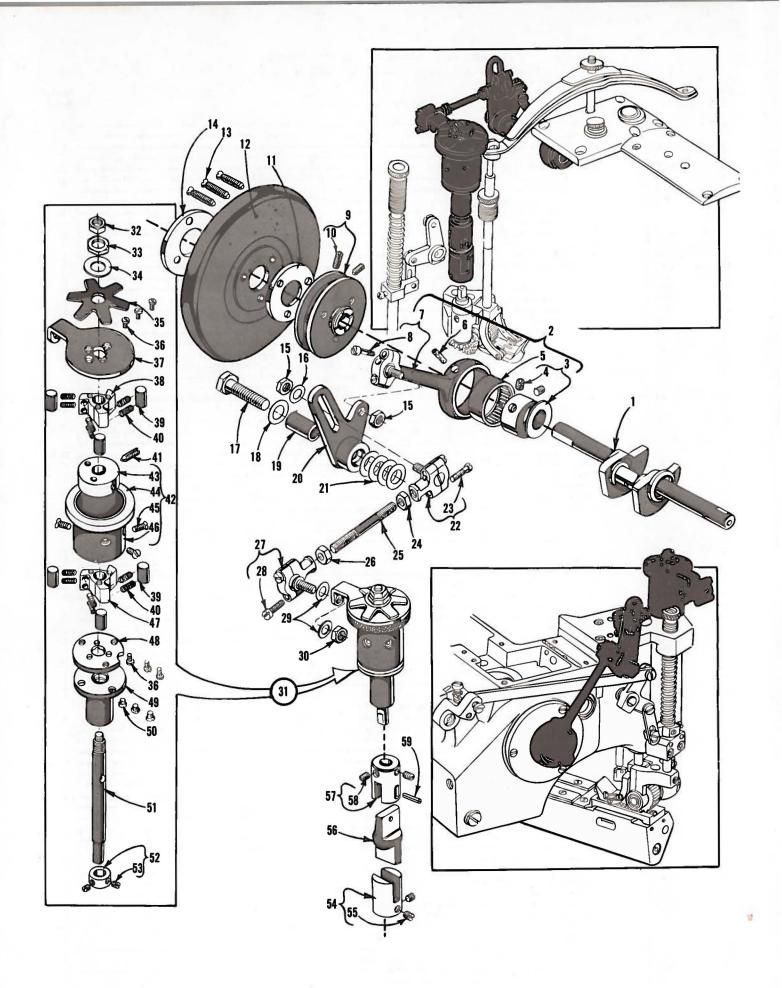
^{*} Needle bearings in looper drive connection are fitted to mainshaft at assembly, for proper oil clearance. Flange of mainshaft No. 35722 AF, Page No. 19, is marked with 1 to 6 lines, denoting proper group size of corresponding needle bearing to be assembled. When ordering repair part, order should read 35853 AL (Group #___), specify number of lines ground into flange of mainshaft.



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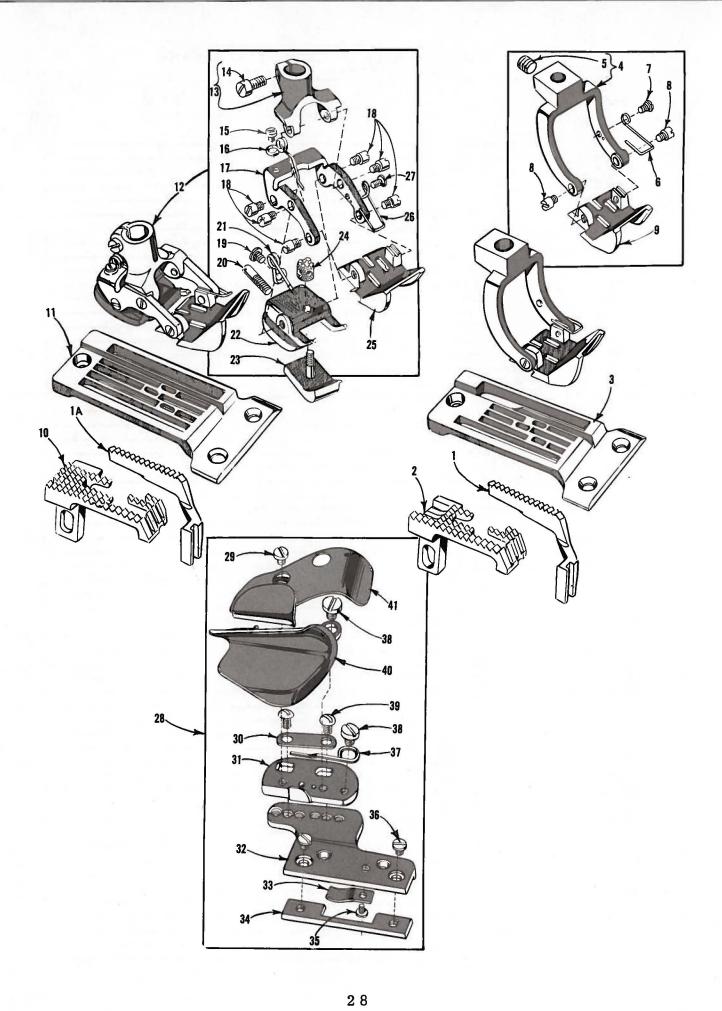
UPPER ROLLER FEED, FOOT LIFTER AND TENSION PARTS (FOR STYLES 35800 DK, DL AND DN EXCEPT WHEN SPECIFIED)

Ref. No.	Part No.	Description	Amt. Req.
1	35733 B	Presser Spring Regulating Nut	- 1
2	35833 C	Presser Spring Plate	- 1
3	35833 E	Presser Spring upper	- 1
4	35833 D	Presser Spring, lower	- 1
5	36280 L	Lifter Lever Link Assembly, for all Styles	- 1
6	36280 K	Lifter Lever Link	- 1
7	22585 C	'Screw	- 2
8	61257 G	Roller Presser Spring Regulator	- 1
9	86	Screw, for all Styles	- 3
10	61256 G	Roller Presser Spring Washer	- 1
11	35873 Z	Roller Presser Spring	- 1
12	22758 C	Screw	- 2
13	35880 K	Lifter Lever Bell Crank Link	- 1
14	35873 X	Presser Bar Connection	- 1
15	33174 B	Screw	
16	22764	Screw	- 1
17	35873 W	Roller Presser Bar	- 1
18	14649	Drive Gear Collar	
19	88	Screw	
20	22894 C	Screw	
21	22738	Screw	
22	22851 C	Screw	- 1
23	35875 N	Gear Guard, front	
24	660-219 M	Roll Pin	
25	35875 B	Driven Miter Gear	- 1
26	35875 D	Drive Miter Gear	- 1
27	35875 V	Nut, rear guard	- 1
28	35875 P	Feed Roller, .468 inch (12mm) wide, 36 teeth	- 1
29 30	35826 U	Feed Roller Frame, for .468 inch (12mm) wide roller	- :
31	35873 AC	Needle Bearing	- 1
32	660-303 660-219 X	Roll Pin, for No. 35826 U	- 2
33	35873 AD	Feed Roller Shaft	- 1 - 1
34	33073 AD	Presser Foot, (Refer to Page No. 29)	
35	35878 S	Presser Bar	_ i
36	35831 C	Presser Bar Lifter and Guide, for all Styles	- i
37	402	Screw	- 1
38	22560 B	Screw	
39	52888 B	Collar	
40	22562	Screw	- 2
41	35880 P	Lifter Lever Bell Crank	- 1
42	22894 J	Screw	- 1
43	35878 H	Presser Bar Bushing and Spring Regulator	- 1
44	55287 L	Presser Spring Rest	- 1
45	35878 F	Presser Spring Regulating Screw	- 1
46	36292 M	Tension Plate Bracket, for all Styles	- 2
47	35880 E	Lifter Lever, for all Styles	- 1
48	22839	Screw, for all Styles	- 1
49	136	Screw, for all Styles	- 2
50	94	Screw, for Styles 35800 DK, DL and DN	- 1
51	94 35833 F	Screw, for Style 35800 DM	
52		Tension Nut, for all Styles	- 1
53	108 107	Tension Post Ferrule, for all Styles	- 6 - 6
54	51292 F-4	Looper Thread Tension Spring, for all Styles	_ 2
_	110-3	Needle Thread Tension Spring, for all Styles	- 3
55	35792	Tension Disc. large, for all Styles	- 6
56	109	Tenson Disc, small, for all Styles	- 6
57	35792 Н	Tension Post, for all Styles	- 6
58	35792 S	Tension Thread Eyelet, for all Styles	- 3
59	22652 A	Screw, for all Styles	- 6
60	35792 T	Tension Disc Release Pin, for all Styles	- 6
61	35892-6	Tension Support, for all Styles	- ĭ
62	36292 K	Tension Release Shaft Spring, for all Styles	- 1
63	36292 N	Tension Release Shaft, for all Styles	- 1
64	22784 F	Screw	- 1
65	35888 M	GasketGasket	- 1
66	98 A	Screw	- 3
67	35888 L	Cover Plate	- 1
68	35880 N	Presser Bar Lifter Lever, for all Styles	. 1
69	22758 C	Screw, for all Styles	- 1
70	35880 L	Lifter Lever Connecting Link, for all Styles	. 1
71	35833 K	Presser Spring, for Style 35800 DM	. 1
72	WO-3	Columbia Wool Yarn, for Style 35800 DMas requ	ired
73	35733 E	Presser Spring Regulator, for Style 35800 DM	. 1
74	35733 G	Locknut, for Style 35800 DM	. 1
75 76	35878 G	Presser Bar, for Style 35800 DM	· 1
76 77	35880 M	Lifter Lever Bell Crank, for Style 35800 DM	. 1
11	22894 J	3CIMA ====================================	



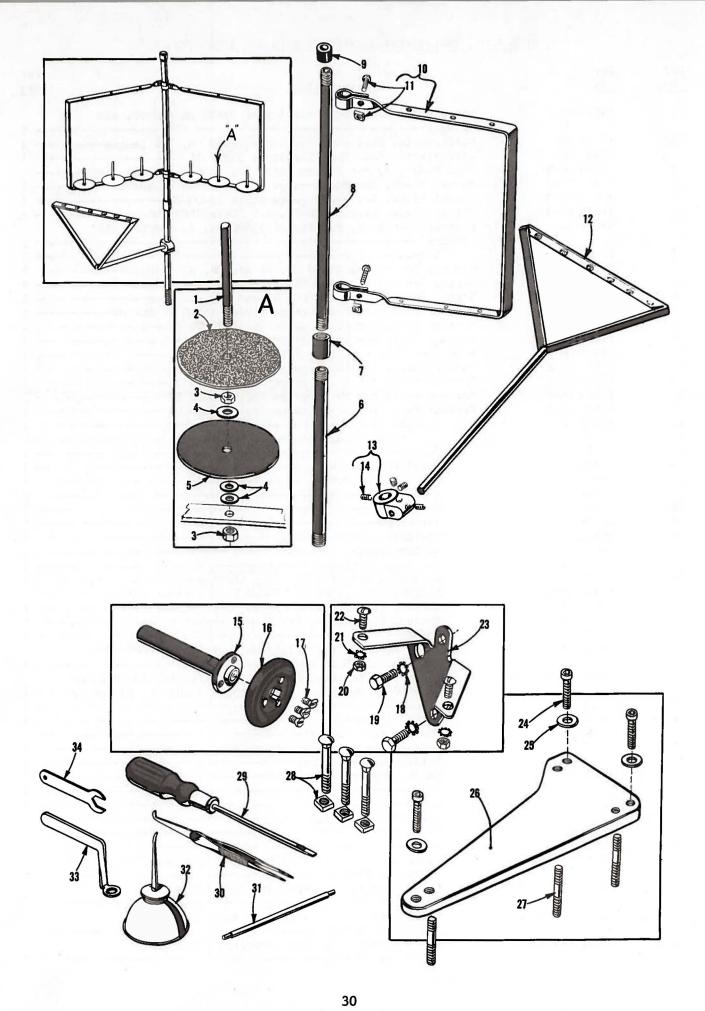
PULLEY, CRANKSHAFT, CLUTCH AND CLUTCH DRIVING MECHANISM (FOR STYLES 35800 DK, DL and DN)

Ref.	Part		A
No.	No.	Description	R
	05000 **		
1	35822 W	Crankshaft	
2	29727 B	Connecting Rod and Clutch Driving Eccentric Assembly	
3	35877 X	Eccentric, .300 inch throw	
4	22894 C	Screw	
5	660-244	Needle Bearing	
6	666-186	011 Wick	
/	35877 B	Connecting Rod	
8	97 B	Screw	
9	35821 F	Pulley	
0	22894 E	Set Screw	
1	35721 G	Spacing Plate	
2	35721 F	Handwheel	
3	22574 A	Screw	
.4	35721 H	Clamp Plate	
.5	18	Nut	
.6	20	Washer	
.7	22644 K-80	Screw	
.8	61351 C	Washer	
.9	35877 N	Segment Lever Bushing	
.0	35877 A	Clutch Driving Segment Lever	
1	61351 C	Washer	
2	35876 V	Ball Joint Assembly, right	- :
3	22729 C	Screw	- 6
4	269	Nut, left thread	
5	4761	Roller Clutch Connecting Rod	- :
5	18	Nut	
7	35876 W	Roller Clutch Ball Joint Assembly, left	- :
В	22729 C	Screw	-
9	20	Washer	
0	18	Nut	-
l .	29478 BY	Constant Wedge Angle Clutch Assembly	- :
2	18	Nut	- :
3	11638 M	Nut	
4	61351 C	Washer	
5	54274 N	Brake Spring	
6	605 A	Screw	
7	35876 AC	Clutch Drive Lever	
3	54274 H	Clutch Disc, upper	
9	54274 L	Clutch Roller	
Ó	29480 KP	Clutch Roller Spring and Wear Cap Assembly	
Ĺ	22894 Н	Spot Screw	
2	35876 AB	Barrel Assembly	
3	50-835 B1k.	Barrel Core	
í	35876 AD	Drive Lever Brake	
5	538	Screw	
5	50-834 Blk.	Barrel	
7	54274 H	Clutch Disc, lower	
3	35876 AG	Locking Spacer Plate	
	35876 AF	Locking Spacer Plate	
	222 D	Screw	
)	7. 20 20 25	Feed Drive Shaft	
L	35876 AE		
2	41363 U	Collar	
3	22743	Screw	
1	54274 C	Feed Roller Connection, lower	
	22560 B	Screw	
5	54279	Feed Roller Drive Floating Connection	4.1
7	35876 AH	Feed Roller Connection, upper	•]
3	22560 B	Screw	
9	660-219	Roll Pin	. 1



FEED DOGS, THROAT PLATES, PRESSER FEET AND ATTACHEMENTS

Ref.	Part		Amt
No.	No.	Description	Req
1	35826 DP	Differential Feed Dog, for Styles 35800 DK and DN, all	1
1A	35826 DM	Differential Feed Dog, for Style 35800 DM, all gauges	-
	35826 DL	Differential Feed Dog, for Style 35800 DL	
2	35805 DP-8	Main Feed Dog, for Styles 35800 DK, DL and DN, all gauges	
3	35824 DN-8	Throat Plate, for No. 8 gauge Styles 35800 DK and DN	
_	35824 DN-9	Throat Plate, for No. 9 gauge Styles 35800 DN	
	35824 BQ-9	Throat Plate, marked "AG-9", for Style 35800 DL	
4	35874 B	Presser Foot Fork, for Styles 35800 DK, DL and DN, all	
	22804 C	gauges	
5	22894 C		
6	35830 K	Spring, for Styles 35800 DK, DL and DN, all gauges	
7	22599	Screw, for Styles 35800 DK, DL and DN, all gauges	
8	22845 A	Screw, for Styles 35800 DK, DL and DN, all gauges	
9	35830 DM-8	Presser Foot, for No. 8 gauge Styles 35800 DK and DN	
-	35830 DM-9	Presser Foot, for No. 9 gauge Style 35800 DN	1
_	35830 DL-9	Presser Foot, for Style 35800 DL	1
10	35805 DM	Main Feed Dog, for Style 35800 DM, all gauges	1
11	35828 DM-8	Throat Plate, for No. 8 gauge Style 35800 DM	1
-	35828 DM-9	Throat Plate, for No. 9 gauge Style 35800 DM	1
12	35820 DM-8	Presser Foot, for No. 8 gauge Style 35800 DM	1
-	35820 DM-9	Presser Foot, for No. 9 gauge Style 35800 DM	1
13	35830 CB	Presser Foot Shank	1
14	91 D	Clamp Screw	1
15	73 A	Screw	
16	35830 н	Equalizing Spring, rear	
17	35830 CD	Presser Foot Yoke	1
18	22845 A	Screw	
19	22561	Screw	
20	22799 L	Set Screw	
21	35830 D	Yielding Section Spring	1
22	35830 Z	Bottom, rear	1
23	35830 AE	Yielding Section	
24		Adjusting Nut, for yielding section	
25	35830 F 35830 DM-8	Bottom, front, for No. 35820 DM-8 presser foot	1
-		Pottom front for No. 35020 DM-0 presser foot	1
	35830 DM-9	Bottom, front, for No. 35820 DM-9 presser foot	1
26	35830 CA	Spring, for bottom, front	;
27	22599	Screw	1
28	23420 AY-18-3/32	Double Lap Seam Feller, 3/32 inch capacity, for No. 8 gauge Styles 35800 DM and DN	1
-	23420 AY-18-1/8	Double Lap Seam Feller, 1/8 inch capacity, for No. 8 gauge Style 35800 DK and No. 9 gauge Styles 35800 DL, DM and DN	
29	28	Screw	1
30	23425 T	Clamp Plate	1
31	23424 T	Lower Scroll Support	1
32	23424 D	Folder Support Slide, right	1
33	23424 F	Folder Support Spring	1
34	23424 E	Folder Support Slide, left	1
35	73 A	Screw	1
36	22561	Screw	
37	23424 S	Lower Scroll Spring	
38	22760 A	Screw	2
39	22849 A	Screw	2
40	23422 AY-18-3/32	Lower Scroll, 3/32 inch capacity, for No.	
70	222.4	23420 AY-18-3/32	1
	23422 AY-18-1/8	Lower Scroll, 1/8 inch capacity, for No. 23420 AY-18-1/8	1
41	23421 Y-9-3/32	Upper Scroll, 3/32 inch capacity, for No. 23420 AY-18-3/32	1
-	23421 Y-9-1/8	Upper Scroll, 1/8 inch capacity, for No. 23420 AY-18-1/8	1



THREAD STAND AND ACCESSORIES

Ref.	Part		Amt.
No.	No.	<u>Description</u>	Req.
1	21114 W	Spool Pin	6
2	21104 V	Pad	6
3	258 A	Nut	12
4	652-16	Washer	
5	21114	Spool Seat Disc	
6	21104 Y-18	Rod, lower	
7	660-194	Coupling	1
8	21104 Y-26	Rod, upper	1
9	660-181	Insulating Cap	1
10	21114 AA	Cone Support Frame	
11	650 C-6	Stove Bolt and Nut	2
12	21114 AG-6	Lead-in Eyelet	1
13	21233 AJ	Lead-in Eyelet Connection	1
14	22651 CD-5	Screw	4
15	1421 A	Handwheel Stud	1
16	1421	Handwheel	1
17	22807	Screw	3
18	652 B-24	Lockwasher	2
19	22640 M-32	Cap Screw	2
20	651-16	Nut	2
21	652 B-16	Lockwasher	2
22	22635	Screw, for switch	2
23	21233 K	Switch Box Bracket	1
24	22652 E-20	Screw, for Styles 35800 DK, DL and DN	3
25	652-20	Washer, for Styles 35800 DK, DL and DN	
+26	1460 J	Electro-Drive Adaptor Plate, for Styles 35800 DL and DN	
+27	1460 K	Adaptor Plate Stud, for Styles 35800 DK, DL and DN	3
28	650 X-20	Carriage Bolt, for mounting electro-drive	3
29	21201	Screwdriver, 9/64 inch (3.6 mm) round blade, length over-all 7 3/8 inch (187.3 mm)	1
30	660-240	Thread Tweezers	- 1
31	21227 AR	Torque Rod	- 1
32	413 D	0il Can	
33	21388 AY	Wrench, for 3/16 inch (4.8 mm) square nut	- 1
34	21388 AZ	Wrench, for 7/16 inch (11.1 mm) hexagonal nut	
*	660-457	Dust Cover	
*	28604 R	Can of Oil, Union Special Spec. 175, 16 oz.	- 1

Not furnished with machine, available as an extra send and charge item.

Furnished with machine, but not shown on picture plate.

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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.

MAKER S MAME		FITLE		PENANCE	SERIAL NO	DATE PURCH.	
DATE	STHERE, PART	mes	COST	BATE	SYMBOL PART US	co coer	
		FO Mach	RM nine M ord ca	237	nce		
		100					

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.

Union Special Style 35800 DM-8, 9

Suggested Minimum Spare Parts List

- 33			
Minimum Quantity Per 5 Machines			

^{*}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.

Helpful, authoritative information on the most efficient types of equipment for making virtually any machine sewed article is available from Union Special Sales Promotion Department. Among the many interesting, illustrated bulletins that are available without obligation are the following:



No. 240, "Men's, Women's, Children's Footwear"

No. 249, "Rainwear"

No. 250, "Men's Dress Shirts"

No. 251, "Service Shirts and Pants"

No. 252, "Men's Shorts and Pajamas"

No. 253, "Overalls, Coveralls, and Dungarees"

No. 254, "Men's Knit Underwear"

No. 256, "Knit Outerwear"

No. 259, "Men's Sports Shirts"

No. 260, "Work Gloves"

No. 262, "Cotton, Burlap, Jute, and Multiwall Paper Bags'

No. 263, "Men's Clothing"

No. 264, "Men's Women's, Children's Jackets"

No. 265, "Women's Wear"

No. 266, "Women's Wear And High Fashion"

No. 267, "Corsets, Girdles, Brassieres"

No. 268, "Children's Wear"

No. 269, "Mattresses, Slip Covers, Furniture Upholstery"

No. 271, "Awnings, Canopies, Tents, Tarps"

No. 273, "Curtains & Drapes"

No. 610, "Klipp-it"

No. 710, "MCS ForMation Unit"

No. 730, "MCS Automatic Dual Underfront Shirt Hemmer"

No. 740, "MCS Automatic Rib-Knit Cuff Machine"

No. 750, "Fusing Presses"

No. 1100, "Lewis Blindstitch, Chainstitch, Lock-stitch, Machines"

No. 1105, "Button Sewers-Ticket Tackers"

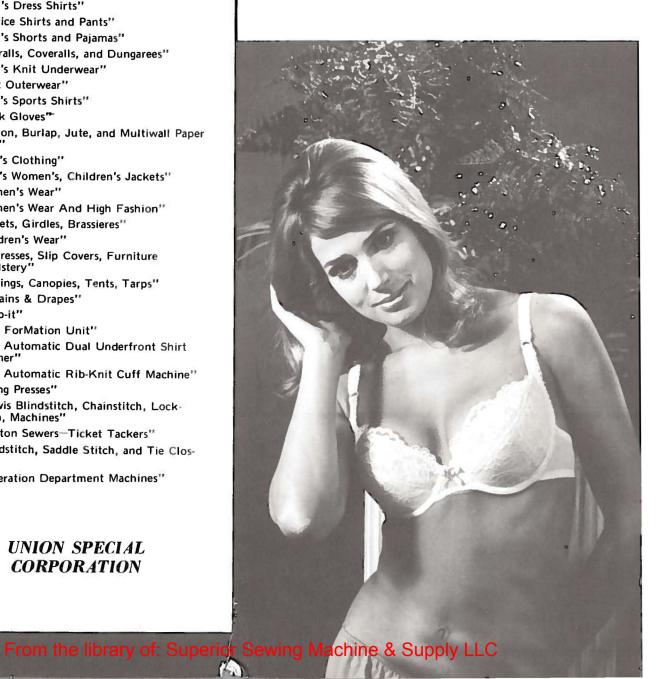
"Columbia Blindstitch, Saddle Stitch, and Tie Closing Machines"

No. 1500, "Alteration Department Machines"



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UNION SPECIAL maintains sales and service facilities throughout the world. These offices will aid you in the selection of the right sewing equipment for your particular operation. Union Special representatives and service men are factory trained and are able to serve your needs promptly and efficiently. Whatever your location, there is a Union Special Representative to serve you. Check with him today.

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