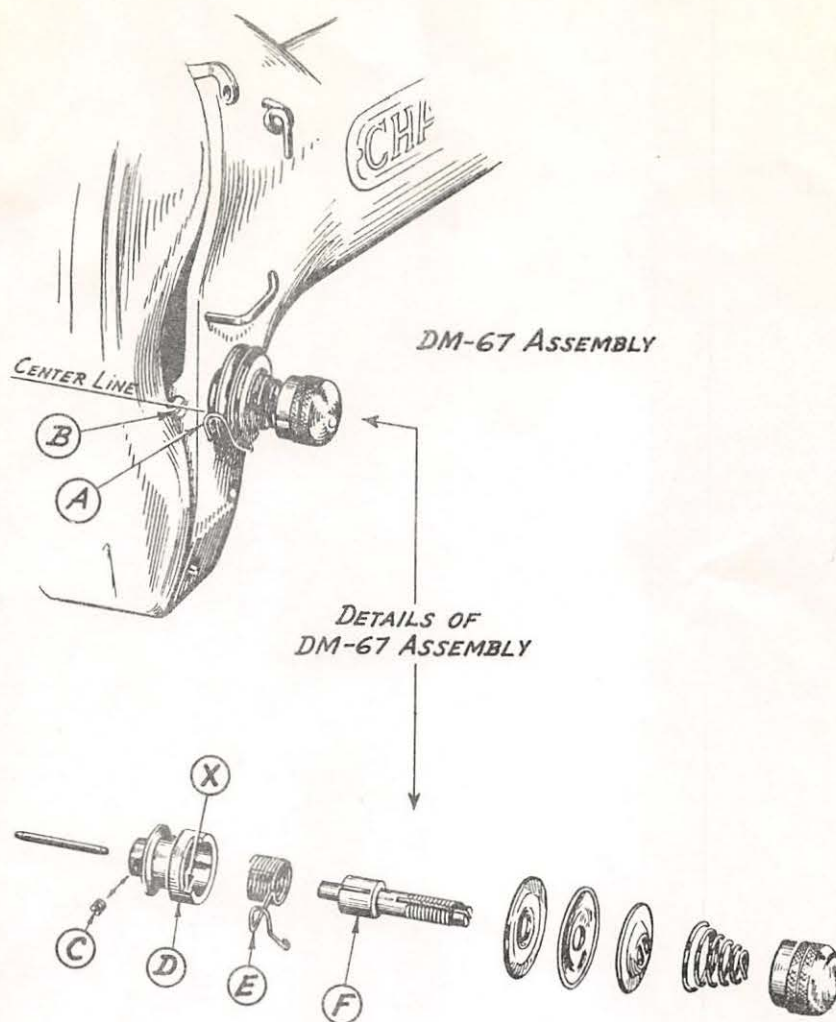# chandler

WORLD FAMOUS

DARNING &

MENDING MCH.

INSTRUCTION &
PARTS BOOK FOR
THE FOLLOWING
CLASSES: 136, 138,
140, 144, 146, 671.

chandler machine co.
ayer, mass. 01432
u. s. a.

tel: 617-772-3393

TOP THREAD TENSION ASSEMBLY

CENTER LINE

DM-67 ASSEMBLY

B

A

DETAILS OF
DM-67 ASSEMBLY

X

C   D   E   F

—NOTE—

Position of DM-67 Assembly is correct when top of
Check Spring Ⓐ is opposite Center Line of Set Screw Ⓑ
as illustrated above... To obtain this position, loosen Set
Screw Ⓑ and rotate DM-67 Assembly the desired amount.
Then tighten Set Screw Ⓑ securely.

When assembling details — Before tightening Set Screw Ⓒ
rotate Stud Ⓕ until Spring Ⓔ positions itself against lower
shoulder Ⓧ with a very slight tension. Otherwise Spring Ⓔ
will have no tension and will "float" in the slotted open-
ing of the Tension Barrel Ⓓ.

BOBBIN CLEARANCE

FOR CHANDLER DARNER CLASS-146

1st STEP

The clearance between Bobbin Holder (A) and Bobbin (B) at (X) (See Figs. 1 and 1A) should be approximately 1/32 of an inch.

To adjust clearance, loosen Set Screw (C) (nearest one towards operator of three Set Screws on underside of Yoke Casting) Fig. 1 and turn Eccentric Screw (D) right or left until the desired clearance is obtained. Then tighten Set Screw (C) securely.
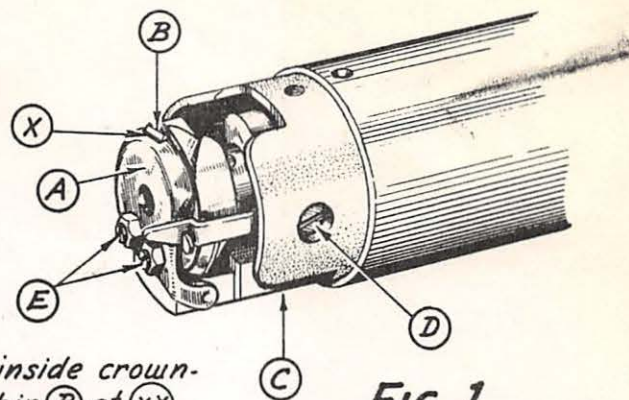
2nd STEP

The amount of clearance between the inside crowned ends of Adjusting Screws (E) and Bobbin (B) at (XX) (See Figs. 1 and 1A) should be just sufficient to allow the thread to pass between them. To adjust, loosen Lock Nuts and turn Adj. Screw (E) until it tightens on Bobbin Case - then loosen about 3/4 of a turn. - hold in position with screw-driver and tighten Lock Nuts.

— NOTE —

Excessive clearance at (XX) Fig. 1A will cause rattling of Bobbin Case (B).

FIG. 1

FIG. 1A

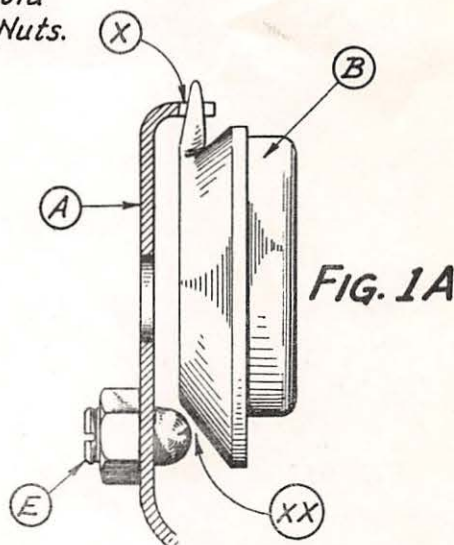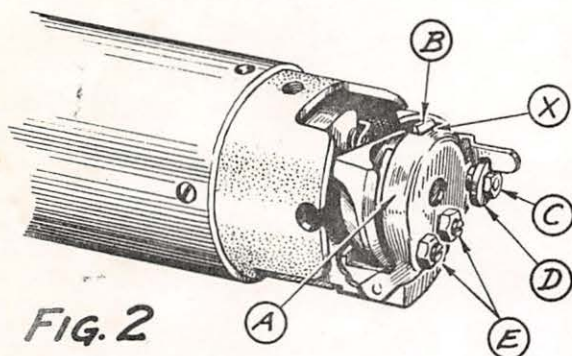## FOR CHANDLER DARNER CLASS-136-138-140 AND 144

FIG. 2

2nd. STEP

Adjust for clearance at point (XX) Fig. 1A by means of Adjusting Screws (E) Fig. 2 using same procedure as outlined in the above 2nd STEP.

1st STEP

The clearance between Bobbin Holder (A) and Bobbin (B) at (X) (See Figs. 2 and 1A) should be approximately 1/32 of an inch. To adjust, loosen Lock Nut (C) Fig. 2 and turn Threaded washer (D) in or out until the desired clearance is obtained. Holding Threaded Washer (D) in position, tighten Lock Nut (C) securely.

MACHINE TIMING
NEEDLE TO HOOK

1st STEP

Remove Screws (A) (B) and (C) Fig. 1 and take off Face Plate and Latch Sleeve.

2nd STEP

Making sure the Needle is up into Needle Bar as far as possible, turn machine until timing mark (X) Fig. 2 on Crank Head (D) is directly in line with Pin (E) as shown in Fig. 2.

At this time the point of Hook (F) Fig. 2 should be at the Vertical Center Line of the Needle and 1/16 of an inch above the Needle Eye as shown in enlarged view Fig. 2A and at the center of the scarf in the Needle as shown below in Fig. 2B.

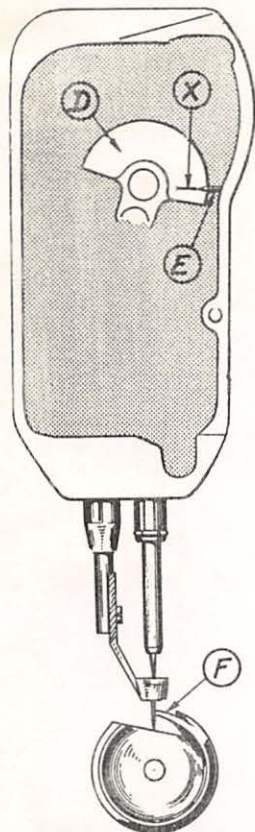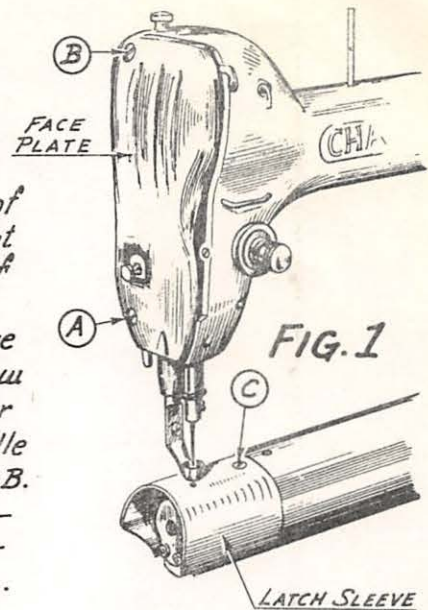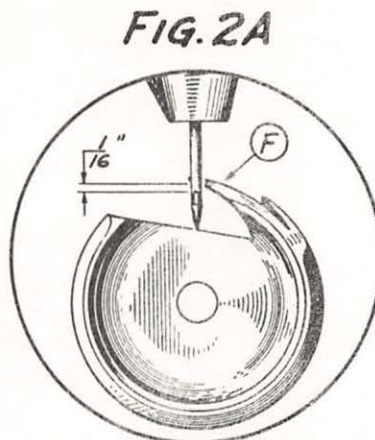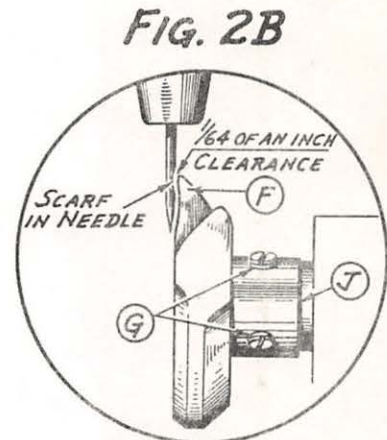To make these adjustments, proceed as outlined below in STEP (3).

FIG. 1

FACE PLATE

LATCH SLEEVE

FIG. 2

FIG. 2A

FIG. 2B

1/64 OF AN INCH CLEARANCE

SCARF IN NEEDLE

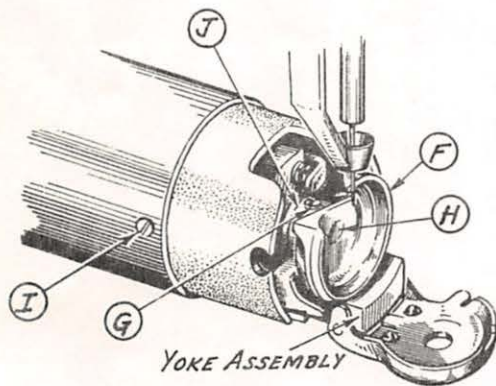**3rd STEP**

Loosen 3 Screws (G) Fig. 3 and turn Hook (F) to Left or Right on Shaft (H) the desired amount. Now check for 1/64 of an inch clearance between scarf in Needle and point of Hook (F) as shown in Fig. 2B.

To adjust lateral position of Hook and Yoke, loosen Set Screw (I) Fig. 3 and move entire Yoke Assembly in or out on Shaft (H) making certain that hub of Hook shoulders firmly against the Yoke at point (J) Figs. 2B and 3. Tighten 3 Screws (G) and Set Screw (I) Fig. 3 securely making certain that you do not bind Hook and Shaft by too much pressure at (J).
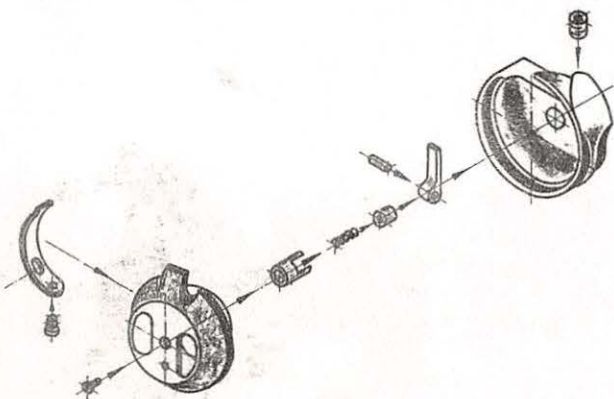
YOKE ASSEMBLY

FIG. 3
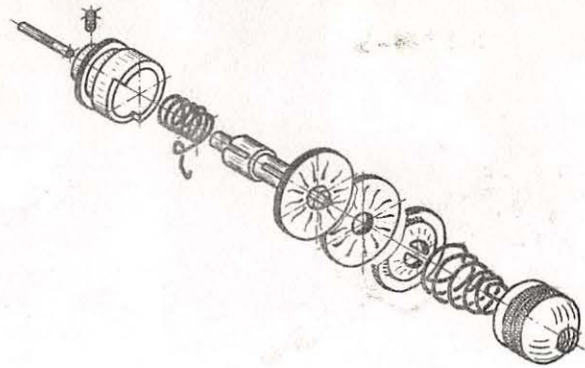
2 DL 8 - 3

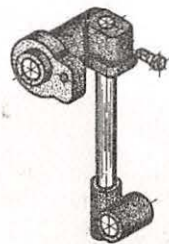# DARNING & MENDING MACHINE

CHANDLER MACHINE CO.

WHEN ORDERING ANY OF THESE
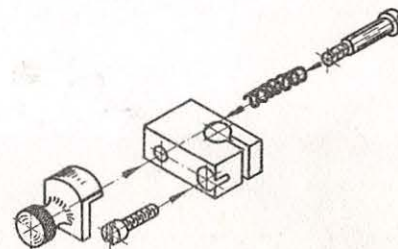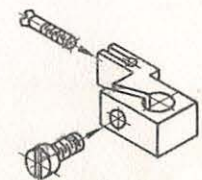UNITS COMPLETE, REFER TO NUMBER
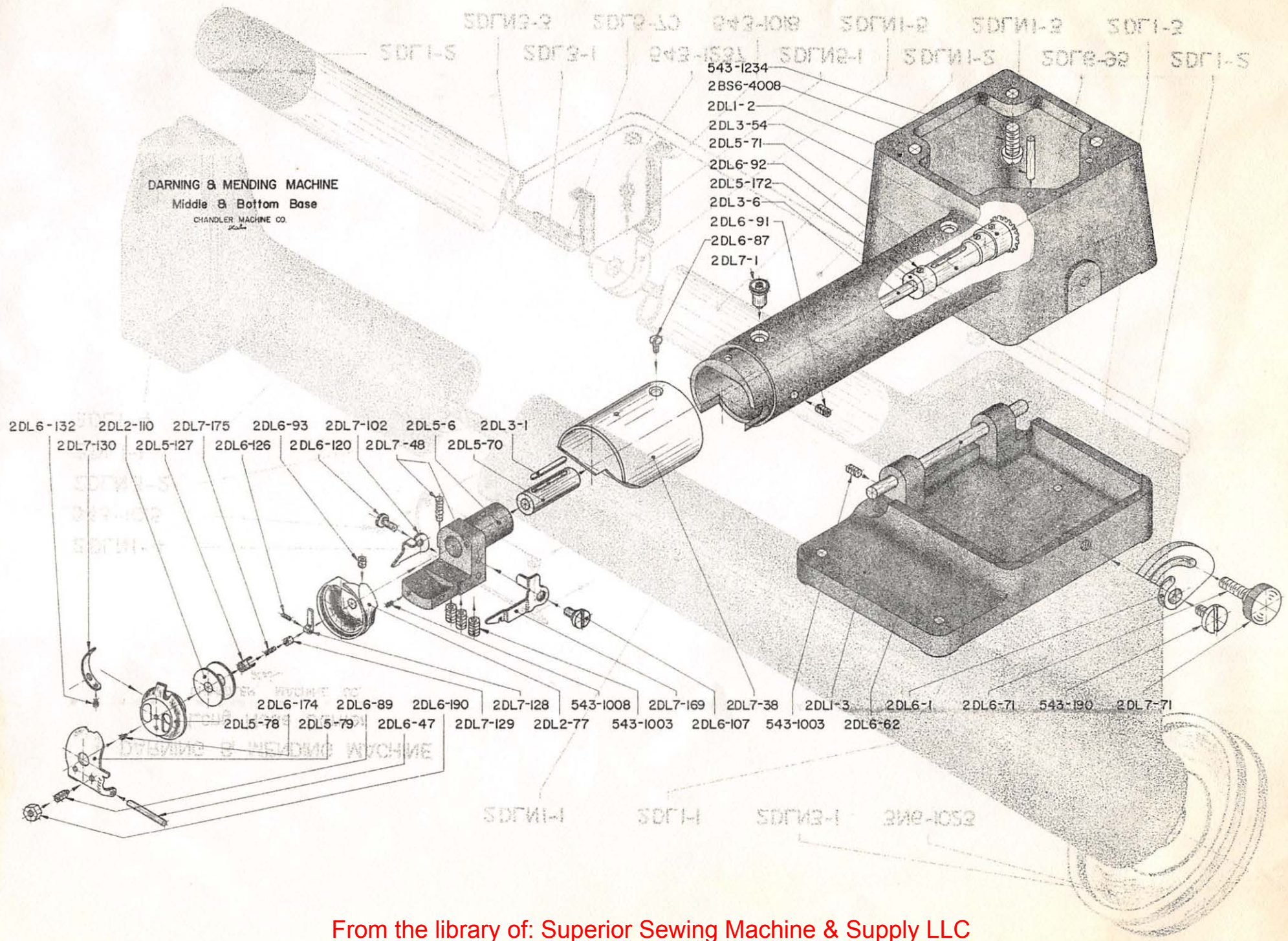ON THIS PAGE ONLY.
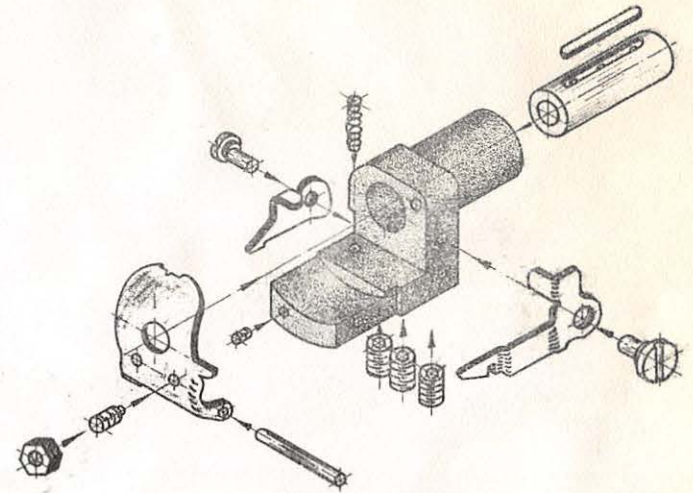
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2 DL 8 - 5

2 DL 8 - 6

2 DL 8 - 7

2 DL 8 - 8

DARNING & MENDING MACHINE
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2 DL 1 - 5
2 DL 1 - 1
2 DL 5 - 72
2 DL 5 - 105
2 DL 3 - 7
2 DL 6 - 55
2 DL 6 - 186
2 DL 5 - 192

543-1006
2 DL 3 - 16
2 DL 5 - 11
543-1006
2 DL 5 - 192
2 DL 3 - 5
543-1013
2 DL 3 - 52
2 DL 6 - 93
2 DL 3 - 51
2 DL 5 - 61
2 DL 6 - 92
2 DL 5 - 172
543 - 1008
2 DL 3 - 15
2 DL 6 - 67
2 DL 5 - 172
2 DL 6 - 92
2 DL 6 - 17
2 DL 7 - 18
2 DL 5 - 62

2 DL 4 - 9   2 DL 6 - 26   2DL5-8   2DL4 - 10   543-1007
2 DL 2 - 176   543-1002   2 DL 4 - 113   2 DL 5-171   2 DL 4 - 32   543-1016

2 DL 7 - 31
2 DL 4 - 25
2 DL 6 - 56
2 DL 6 - 57
2 DL 2 - 33
2 DL 6 - 41
543 - 1018
2 DL 6 - 154
2 DL 5 - 10
543 - 1023
2 DL 6 - 49
543 - 1023
2 DL 4 - 104
2 DL 7 - 40
2 DL 7 - 43
2 DL 1 - 4
2 DL 6 - 73
2 DL 4 - 101
2 DL 6 - 36
2 DL 5 - 28
2 DL 3 - 23
2 DL 5 - 111
2 CT 6 - 1035
2 DL 7 - 24
2 DL 6 - 121
2 DL 7 - 25

2 DL 7 - 42   2 DL 5 - 30   2 DL 6 - 34   2DL4-103   2 DL 6 - 94   2 DL 6 - 20   2 DL 7 - 80   2 DL 7 - 9   2 DL 3 - 53
2BS6-169   2DL5-29   2DL6-49   2DL6-35   2DL6-93   2DL5-177   2DL7-19   2DL6-92

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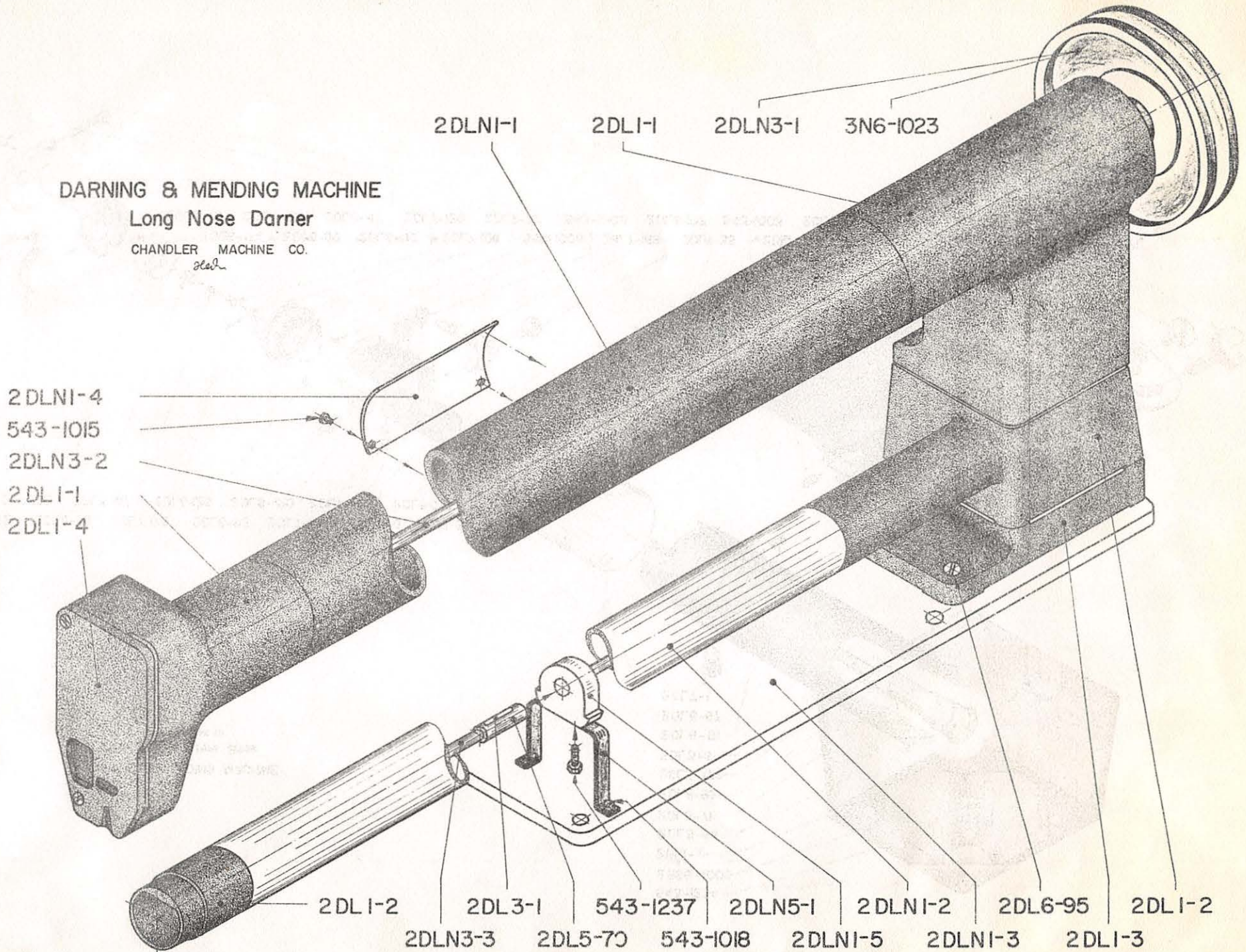
543-1234
2BS6-4008
2DL1-2
2DL3-54
2DL5-71
2DL6-92
2DL5-172
2DL3-6
2DL6-91
2DL6-87
2DL7-1

2DL6-132   2DL2-110   2DL7-175   2DL6-93   2DL7-102   2DL5-6   2DL3-1
   2DL7-130   2DL5-127   2DL6-126   2DL6-120   2DL7-48   2DL5-70

   2DL6-174   2DL6-89   2DL6-190   2DL7-128   543-1008   2DL7-169   2DL7-38   2DL1-3   2DL6-1   2DL6-71   543-190   2DL7-71
2DL5-78   2DL5-79   2DL6-47   2DL7-129   2DL2-77   543-1003   2DL6-107   543-1003   2DL6-62

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2DL1-1
2DL1-4

2DL1-2   2DL3-1   543-1237   2DLN5-1   2DLN1-2   2DL6-95   2DL1-2

2DLN3-3   2DL5-70   543-1018   2DLN1-5   2DLN1-3   2DL1-3

2DL7-160

2DL6-87

2DL7-159

2DL7-161

2DL6-96

WHEN ORDERING THIS UNIT COMPLETE
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IP6-2101

DARNING & MENDING MACHINE
Bobbin Winder & Motor Assembly

CHANDLER MACHINE CO.

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2DL6-93
2DL3-66
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BELT 2DL9-2

MOTOR
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2DL6-156
2DL7-136
2DL6-157
2DL6-185
2DL1-8
2DL3-178

2DL1-1
2DL5-183
2DL6-196
2DL6-122
2DL6-184

COMPLETE -
Machine, table, light, chair, thread stand, bobbin winder, ready to go - ready to sew.
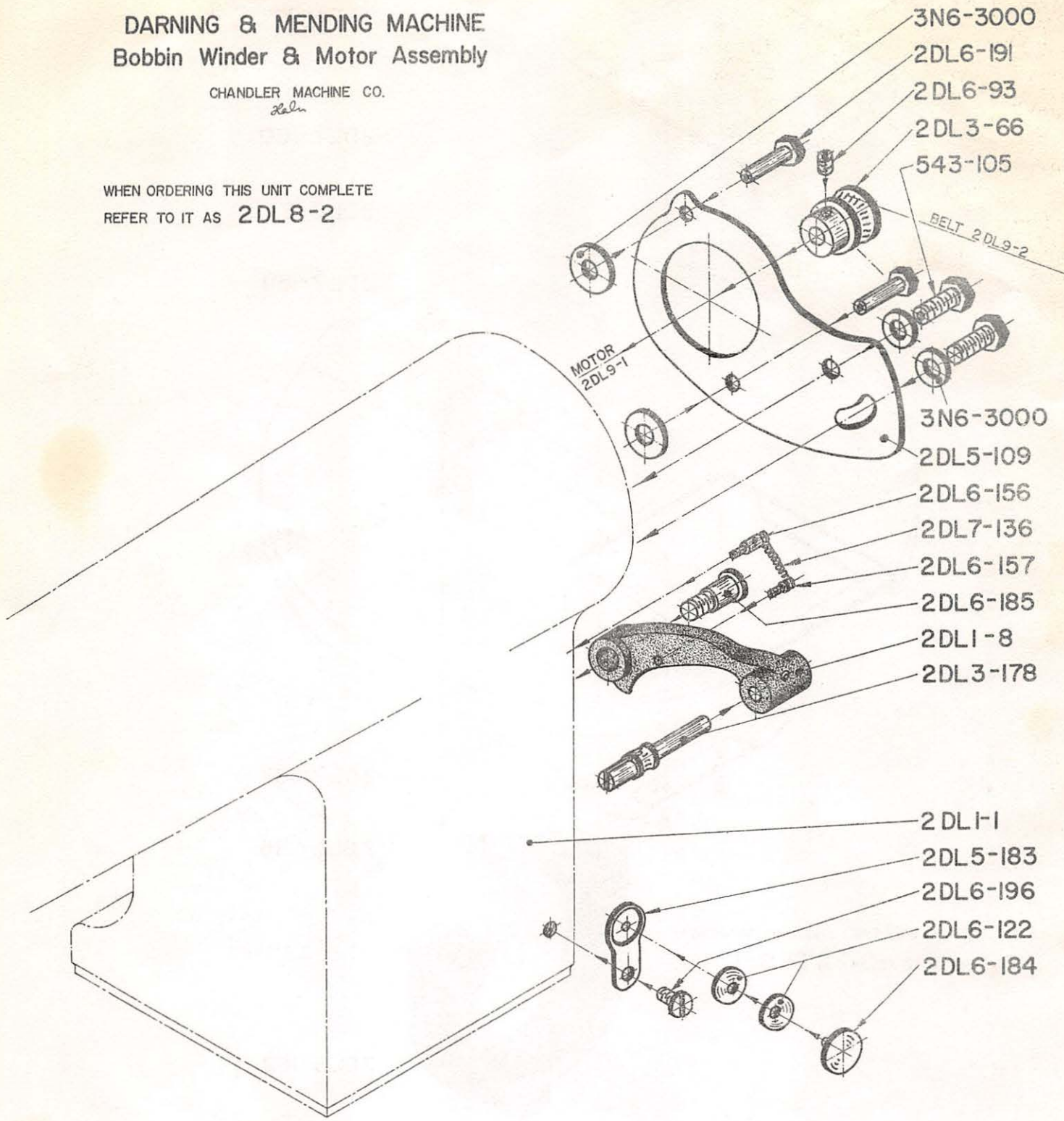
NOW AVAILABLE

ZIG-ZAG

MODEL 217-25
ZIG-ZAG AND PLAIN SEWER

Now one of the finest Zig-Zag machines made. This is a well made excellent piece of workmanship.

LEATHERWORK:
The excellent results obtained with model 217 also extend to work with artificial and real leathers. materials difficult to pass, such as oilskin, foam rubber, or rubberized products from cotton or synthetics slide through easily and without difficulty when the specially designed roller foot is used.

SAIL AND CANVAS:
Sailcloth, awnings, canvas or the most heavily impregnated (waterproof) cotton materials can be sewn four to six ply in straight stitch and zig zag with the 217.

CORSET AND BRASSIERE:
Model 217 is the ideal machine for sewing stretch fabrics and materials.

LINGERIE:
For all straight and zig-zag sewing work, hemming, lace insets and trimmings.

CLOTHING TRADE:
For all kinds of straight and zig-zag stitch.

CURTAINS AND DRAPERIES:
You can sew curtains and drapes in all fabrics.

SPECIFICATIONS:
Standard bed size, 8mm (5/16) inch zig-zag width, medium brown finish, 16 x 231 needles, 2700 spm, pressure foot lift 3.5mm (3/8 inch)
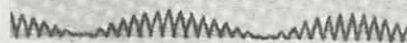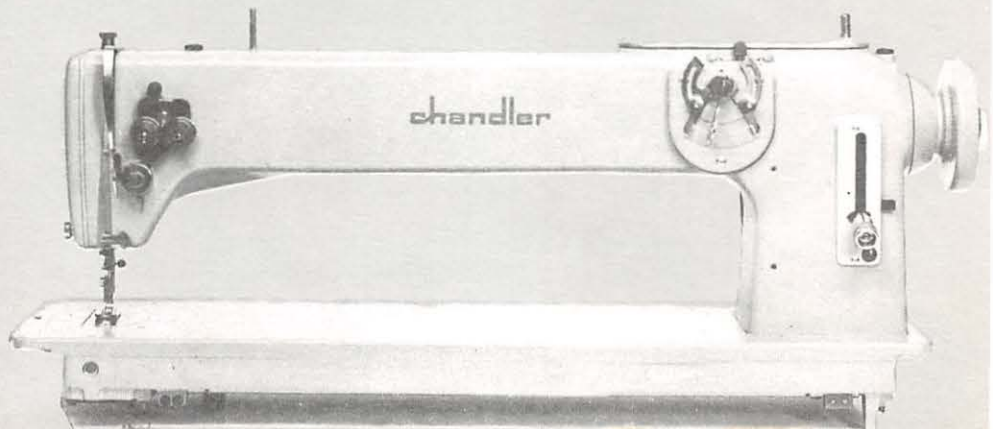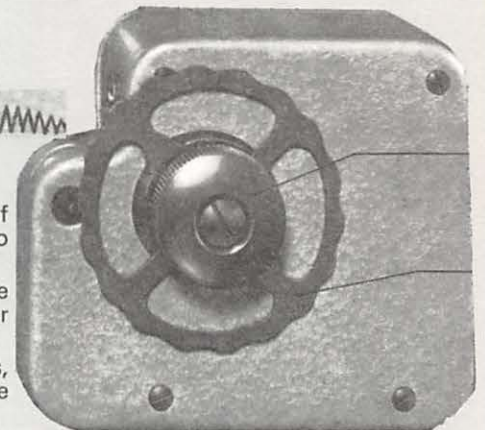
**MODEL 217-25Z**
Auxillary programmed stitching-
Cam driven linkage box attached to rear of machine automatically programs needle bar to stitch a wide variety of patterns.

One of the most popular patterns is the serpentine stitch used in sailwork for greater strength of seam.

Other patterns such as diamonds, wedges, half circles, etc., are used mainly in decorative color threads on clothing or leather.

STRETCHED
MODEL 217-50-25

Designed especially for sail work where that long reach is often necessary. This is simply a medium duty machine capable of straight sewing, zig-zag sewing or wave sewing.

The machine will not sew the points of sails as this requires a very heavy machine (See Model 166-1). However, many satisfied users in New England, Chesapeake Bay area, Great Lakes, Gulf States, and West Coast report that the machine is in use 5-6 hours per day on varied jobs.

Needle 16 x 231, reverse stitch, color light brown, 20'' clearance underarm. 2500 RPM.

INTERNAL WORKING MECHANISMS-MODEL 217-25
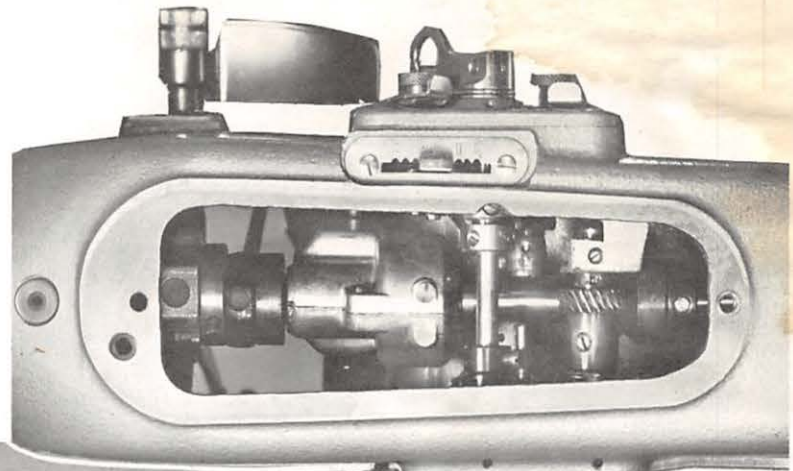
TOP VIEW:

Into gearbox shows top main shaft gear drive with gear lubrication housing. Please also note auxilliary cam housing for programmed stitching. Available only on "Z" machines at extra cost. You cannot make a field installation of cam housing. It is easier to order a "Z" machine complete if you need the automatic program stitching.
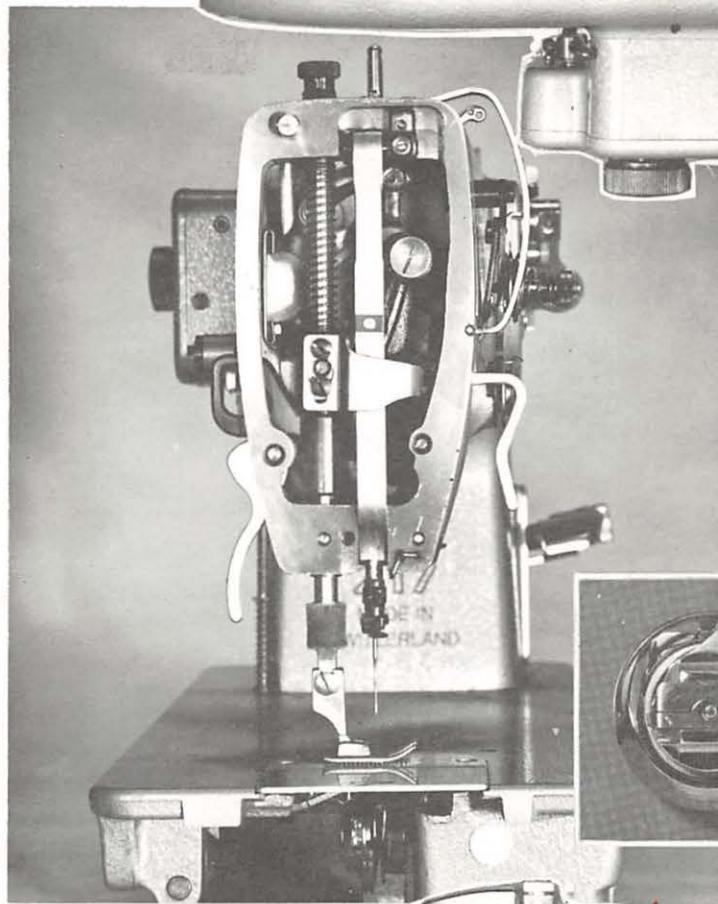
FRONT VIEW:

Shows crank type link take up motion that ensures quiet smooth running at higher speeds and heavier materials. Reverse stitch lever visible in background on right. Simple push down action-automatic return.

HOOK:

Full rotary hook specially designed for zig-zag stitching. Produced from the finest quality alloy steels and precisioned machined for maximum performance and long life. Replacements reasonably priced.
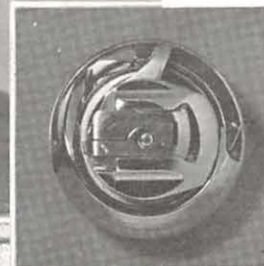
BOTTOM VIEW:

Illustrates gear shaft driven bottom shaft and right angle gearing to position hook in front of needle thereby building better stitch loops when the sewing gets tough. This unique design makes the 217-25 zig-zag machine the best performer on the market today.
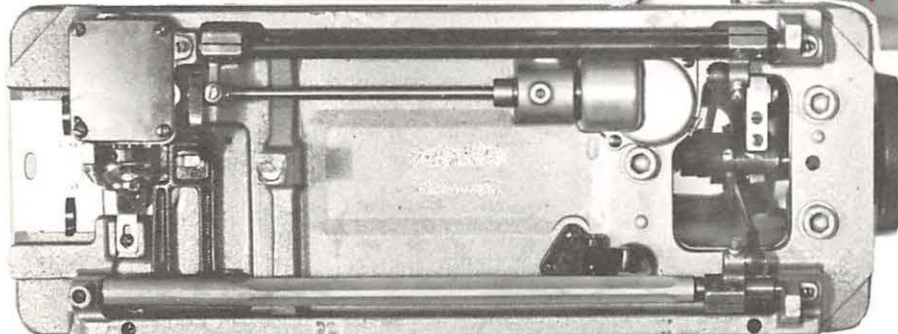
SUMMARY:

We hope you are or will shortly be a proud owner of the model 217-25 zig-zag machine. This brochure could never describe what a handsome machine this is to own. Its performance is unsurpassed. It can work on the lightest materials with gentle swift precision or sew heavy canvas binding work by altering the fittings. Certainly not the lowest priced zig-zag but in analizing what money buys, this is the most economical investment. If you just want in and out, do not buy this machine. If, however, you are in business, will be in business, or want to sell your assets at some later time, this is the machine to call yours.