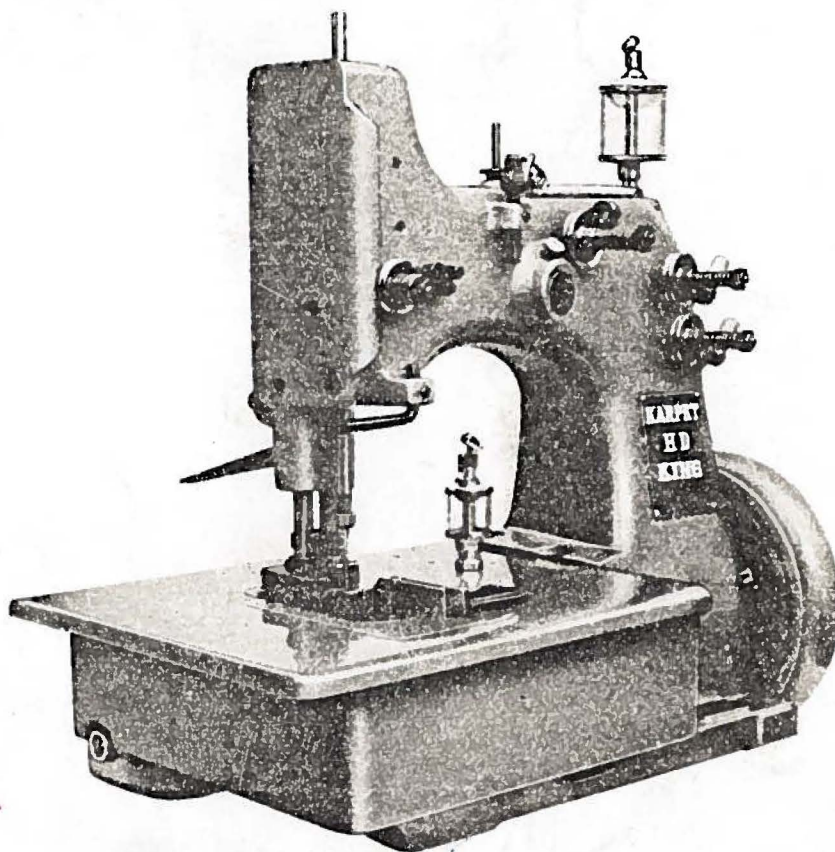


**ILLUSTRATED PARTS LIST**  
**FOR**  
**HEAVY DUTY**  
**KARPET KING MACHINE**  
**Model 812K**



421 NORTH MIDLAND AVE. • SADDLE BROOK, N.J. 07662 • (201) 796-8800  
(212) 929-4415

*National Distributors of Juki & Kingline Industrial Sewing Machines*

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## OILING DIAGRAM

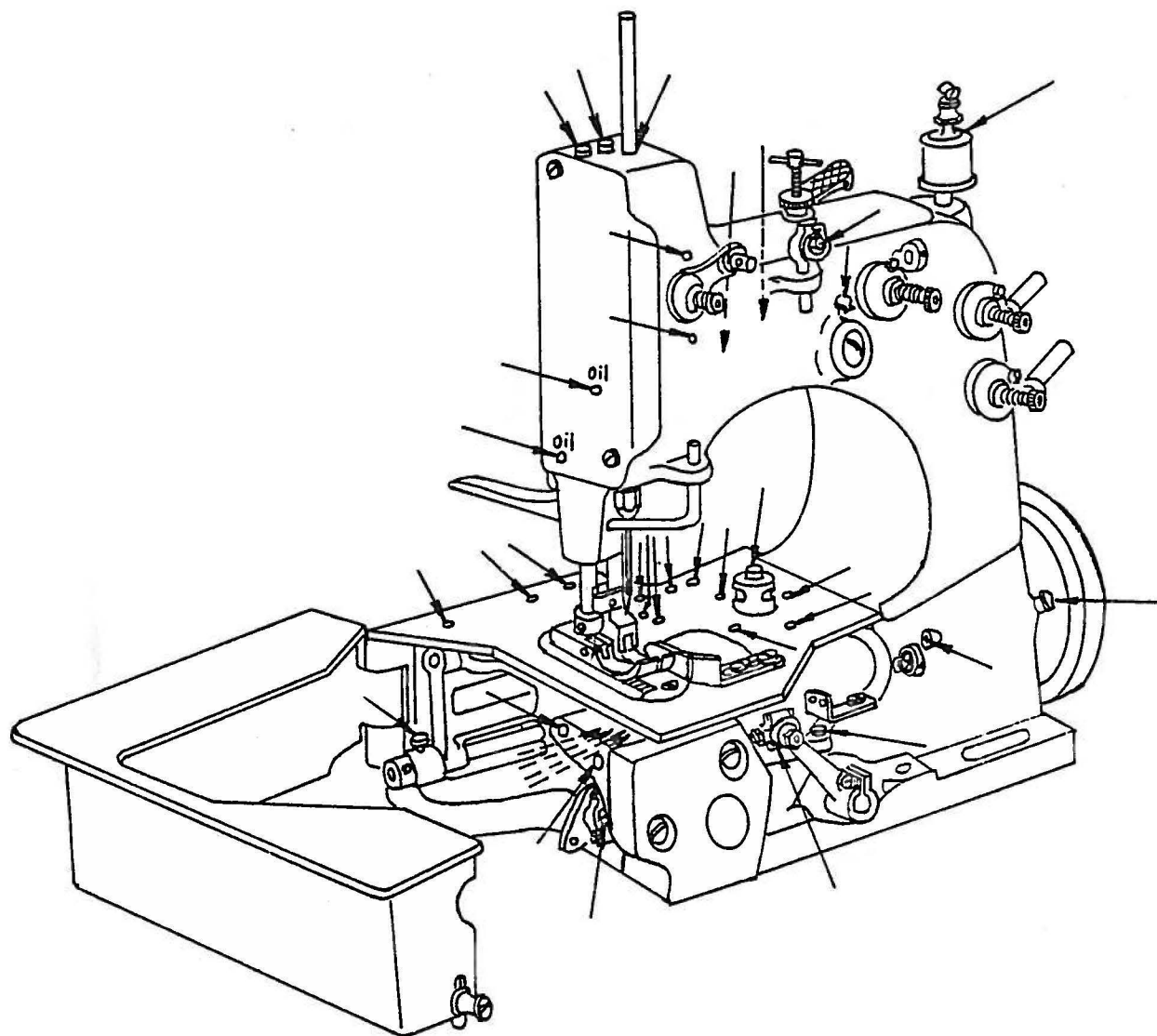


Fig. 1

## THREADING DIAGRAM

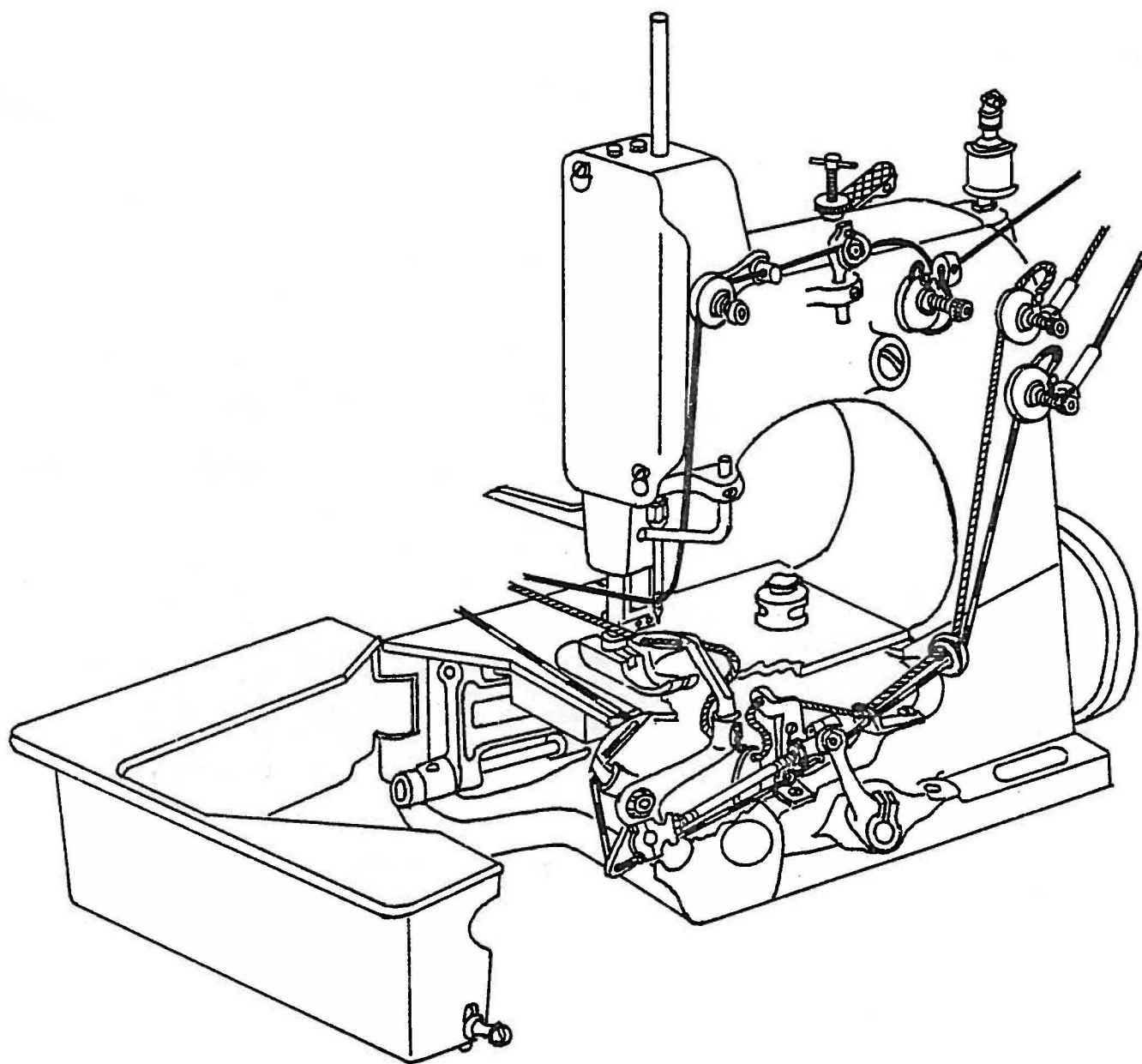


Fig. 2



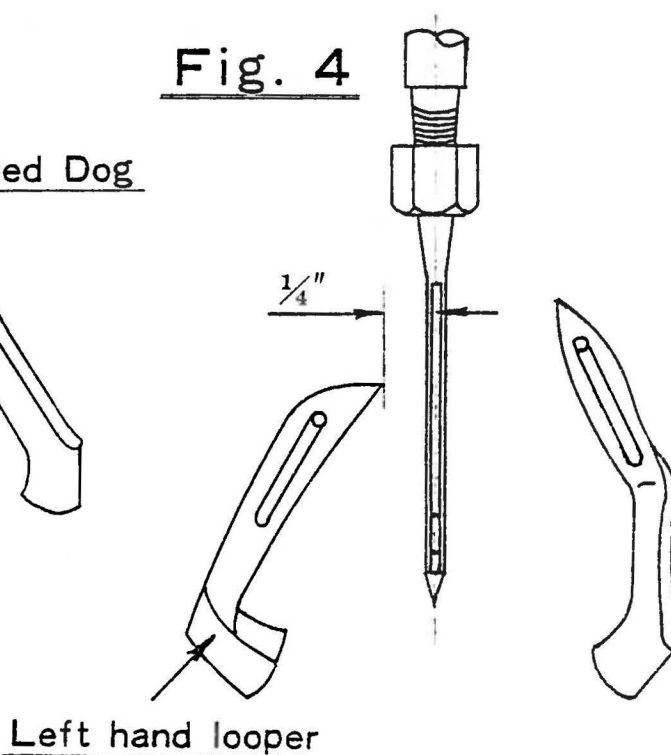
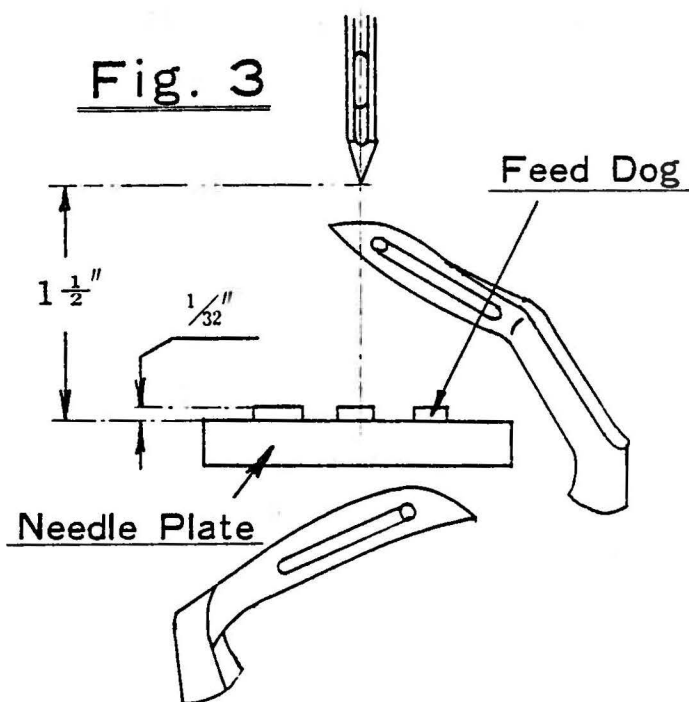
THREADING AND ADJUSTMENT INSTRUCTIONS  
FOR  
KINGLINE MODEL 812K HEAVY DUTY KARPET KING

812K One needle heavy duty flat bed machine for overseaming rugs and carpets.

Stitch type 505-EFD-1 (modified).

——— SETTING UP MACHINE ———

1. Clean machine thoroughly. Fill oiling system and oil all bearings, particularly the eccentrics on the main shaft. Run the machine slowly for a minute to allow the oil wicks to carry the oil to the bearings. See that the wicks are saturated by the flow from the oil reservoir and that they contact the oil holes in the straps. Repeat the oiling and run for five minutes at 2,000 R.P.M.. Oiling diagram (Figure 1) is available.
2. Put in a new needle, class 1970, size 100 (80E) and check location of needle in throat plate. The needle should center in the front end of the throat plate needle slot. The needle point in its highest position should be  $1\frac{1}{2}$  inches above the top of the throat plate (Figure 3).
3. Remove the presser feet, cloth plates and feed dog for convenient access to the machine. Loosen the screw ( $\approx 93A$ ) on the right side of the feed bar and push the rear needle guard ( $\approx 81225K$ ) far enough to the rear to avoid its contacting the needle.
4. Place the left hand looper in the looper holder and set the looper gauge to  $\frac{1}{4}$  inch. The looper gauge is set when the looper is at its farthest point of travel to the left (Figure 4). This adjustment is accomplished by rocker and raising or lowering the ball

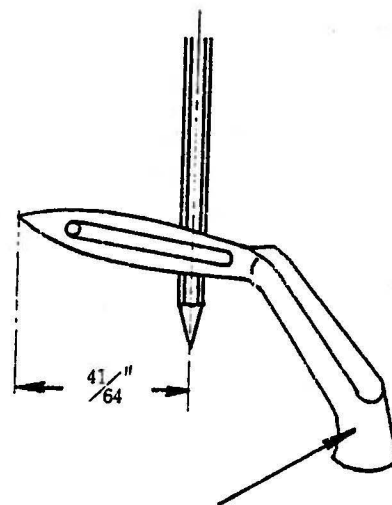




joint (# 15442K) in the slot. Raising the ball joint decreases the looper gauge and lowering it acts the reverse. Looper gauge is available for setting the looper.

5. Set the left hand looper so that it is up to the back of the needle without deflecting it. This adjustment is readily made by loosening the two screws (# 95) in the looper rocker.
6. Set the rear needle guard so that it barely contacts the needle at its most forward point of travel.
7. Set the distance between centers (# 6038K & # 6039K) of the right hand looper drive connecting rod (# 81241) straps at  $4\frac{1}{4}$ ". This is done by loosening the two nuts (# 269 & # 18) on the pitman rod and turning the rod until the desired measurement is obtained, then tighten the nuts and reassemble the connecting rod in the machine.
8. Set the right hand looper gauge so that the point of the right hand looper passes  $\frac{1}{64}$ " to the left of the center of the needle when the looper is at its extreme left position (Figure 5). The looper gauge of the right hand looper is controlled by moving the looper drive lever (# 81238) on the cross shaft. To increase the looper gauge, move the lever clockwise and to decrease the looper gauge, move the lever the opposite. When tightening the screws on the looper drive lever, make sure that there is no end play in the cross shaft.

This may be done by pushing forward on the cross shaft and at the same time setting the looper drive lever tight up against the casting. Re-check the setting of the looper with respect to the needle each time the looper drive lever is shifted.



Right hand looper

Fig. 5

9. When right hand looper moves to the right, it must pass the needle as close as possible without deflecting it. It must also cross the left hand looper as close as possible. The adjustment for setting the right hand looper is made by loosening the two screw (# 318) at the front of the machine and moving the looper shaft bearing or sliding block (# 81255). Moving the block upward brings the looper closer to the needle and moving it downward brings the looper closer to the left hand looper. The loopers themselves can be turned slightly by loosening the holding screws and holding the loopers in the desired position while retightening the screws.

10. With right hand looper at its extreme left position, set the right hand looper thread take-up eyelet ( $\pm 81266KB$ ) in a vertical position being careful that the left hand looper gauge is not changed when nut ( $\pm 9937$ ) is loosened.
11. Put the feed dog, cloth plates with throat plate back on the machine and set the front needle guard close to the needle without deflecting it.  
This guard is readily adjusted by loosening the screw ( $\pm 90$ ) in top of the throat plate in front of the needle slot and moving the guard into position and retightening the screw. Place the presser feet on the machine and check the vertical movement of the presser bars with the pressure released as much as convenient. The bars must move freely. THIS FACTOR IS VITAL.
12. The height of the feed dog is correct when at its highest point of travel the tips of the rear teeth project  $1/32''$  above the throat plate. A stop screw is provided to maintain the adjustment (Figure 3).
13. Screw the edge guide on to the cloth plate and adjust it so that the edge guide tongue ( $\pm 81203KA-1$ ) is against the presser foot stitch tongue.
14. Draw the thread into the machine and start operating on a piece of rug material. Threading diagram (Figure 2) is available.
15. Adjust the stitch length to give the desired number of stitches per inch.

This adjustment is made by loosening the stitch regulator stud nut ( $\pm HA 18A$ ) on the side of the feed rocker ( $\pm 80233$ ) (Figure 6). Raising the feed driving arm ( $\pm 80651$ ) shortens the stitch and lowering it lengthens the stitch. After the stitch length is set, reset the rear needle guard so that it barely contacts the needle when in its most forward position of travel.

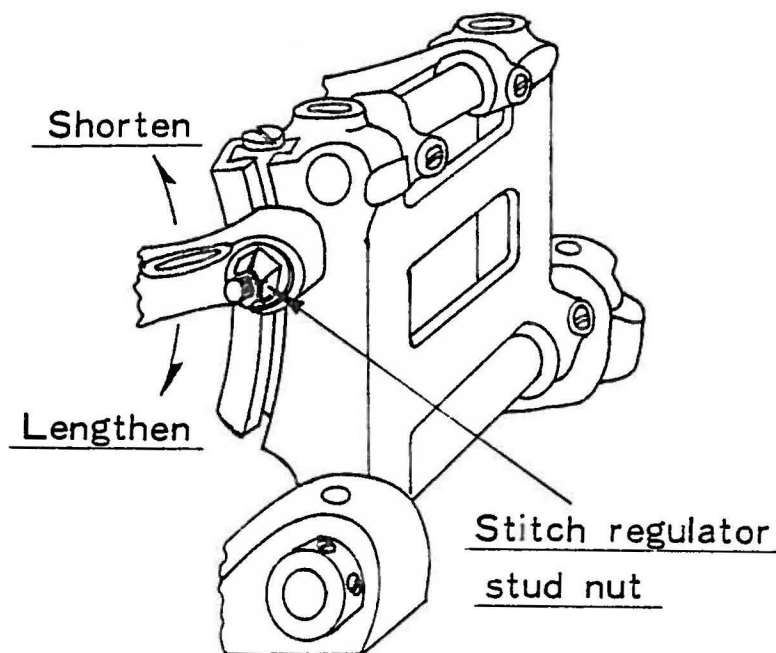


Fig. 6

16. Regulate the pressure on the presser feet so that the springs exert a pressure sufficient to feed properly. A comparatively heavy pressure is usually required.
17. Adjust the left hand looper thread take-up (# 81266K) outward or clockwise until the left hand looper thread just tightens as the left hand looper thread comes off the right hand looper. (CAUTION - NO LEFT HAND LOOPER THREAD SHOULD BE DRAWN FROM THE CONE AT THIS TIME). All the left hand looper thread should be drawn from the cone as the left hand looper moves to the end of its travel to the right.
18. The needle and right hand looper thread tension should be set as low as possible yet high enough to give positive and consistent control to the needle and right hand looper thread. The left hand looper thread tension should be just high enough to give a beaded appearance of the lower thread at the purl or edge.
19. Make sewing test on a single thickness of rug material. If satisfactory samples are not obtained, check the following thread controls.

20. NEEDLE THREAD CONTROL

To pull less needle thread into the stitch, or move purl down, increase needle thread tension, or raise needle frame eyelet. Most of the needle thread should be drawn from the cone on the upstroke of the needle.

21. RIGHT HAND LOOPER THREAD CONTROL

To pull more right hand looper thread into the stitch, or move purl down, reduce the right hand looper thread tension or move right hand looper thread take-up (eyelet) clockwise, being careful that the left hand looper gauge is not changed when nut (# 9937) is loosened.

22. LEFT HAND LOOPER THREAD CONTROL

The left hand looper thread control eyelet (take-up) should be adjusted outward or clockwise until the left hand looper thread just tightens as the left hand looper thread should be drawn from the cone as the left hand looper moves to the end of its travel to the right.



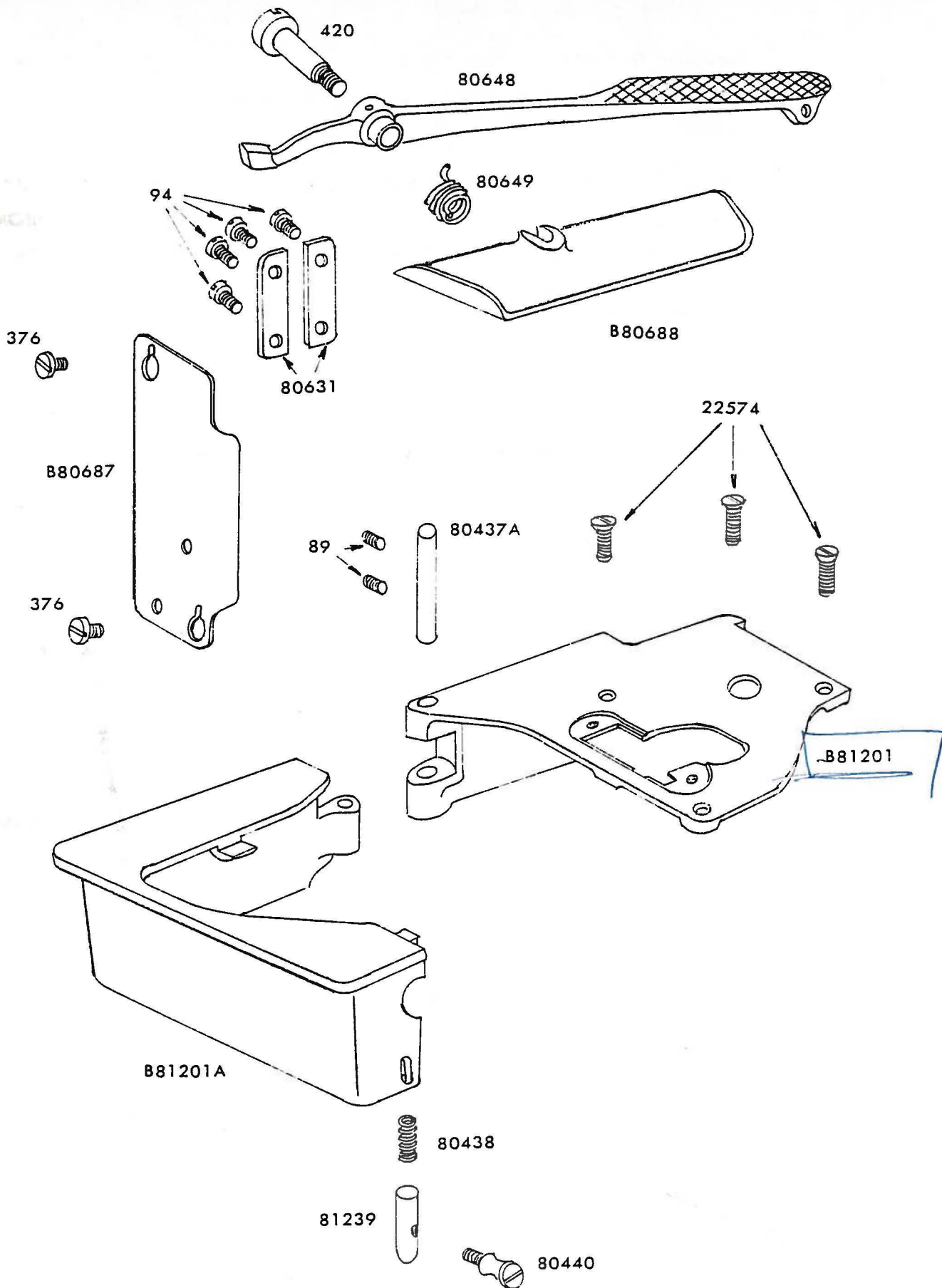
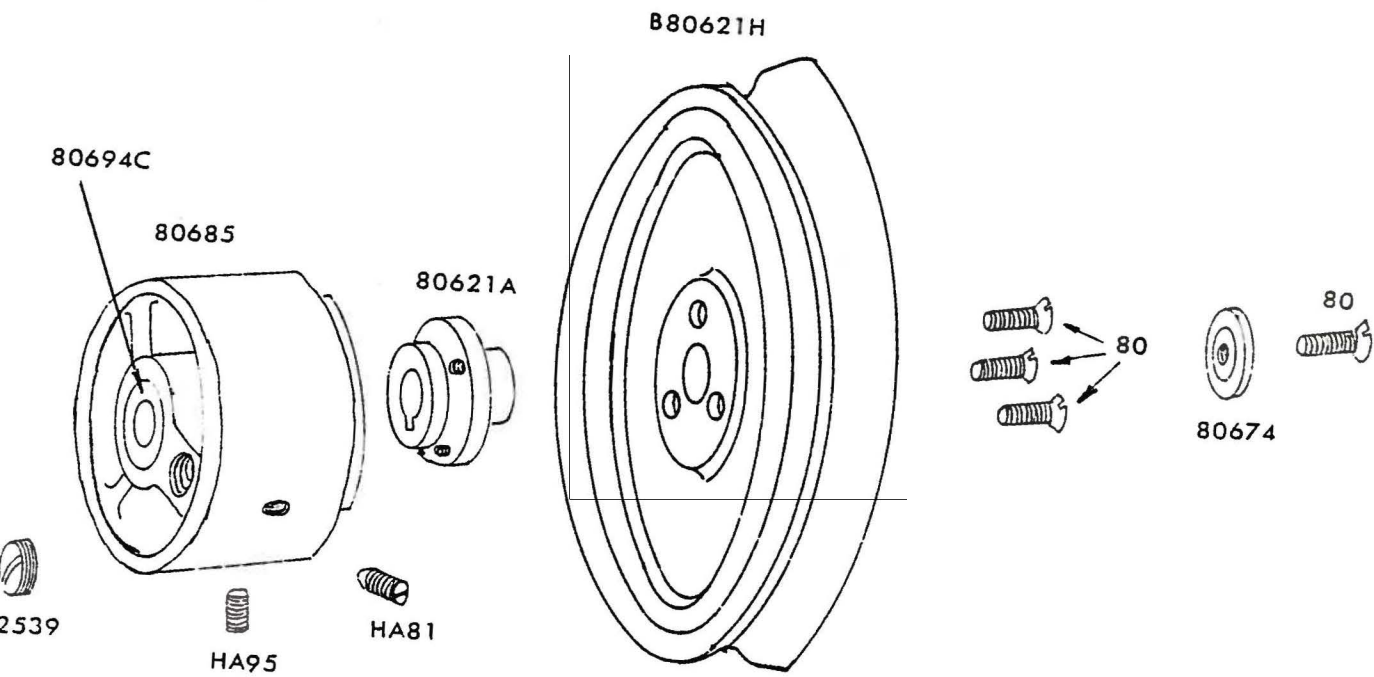
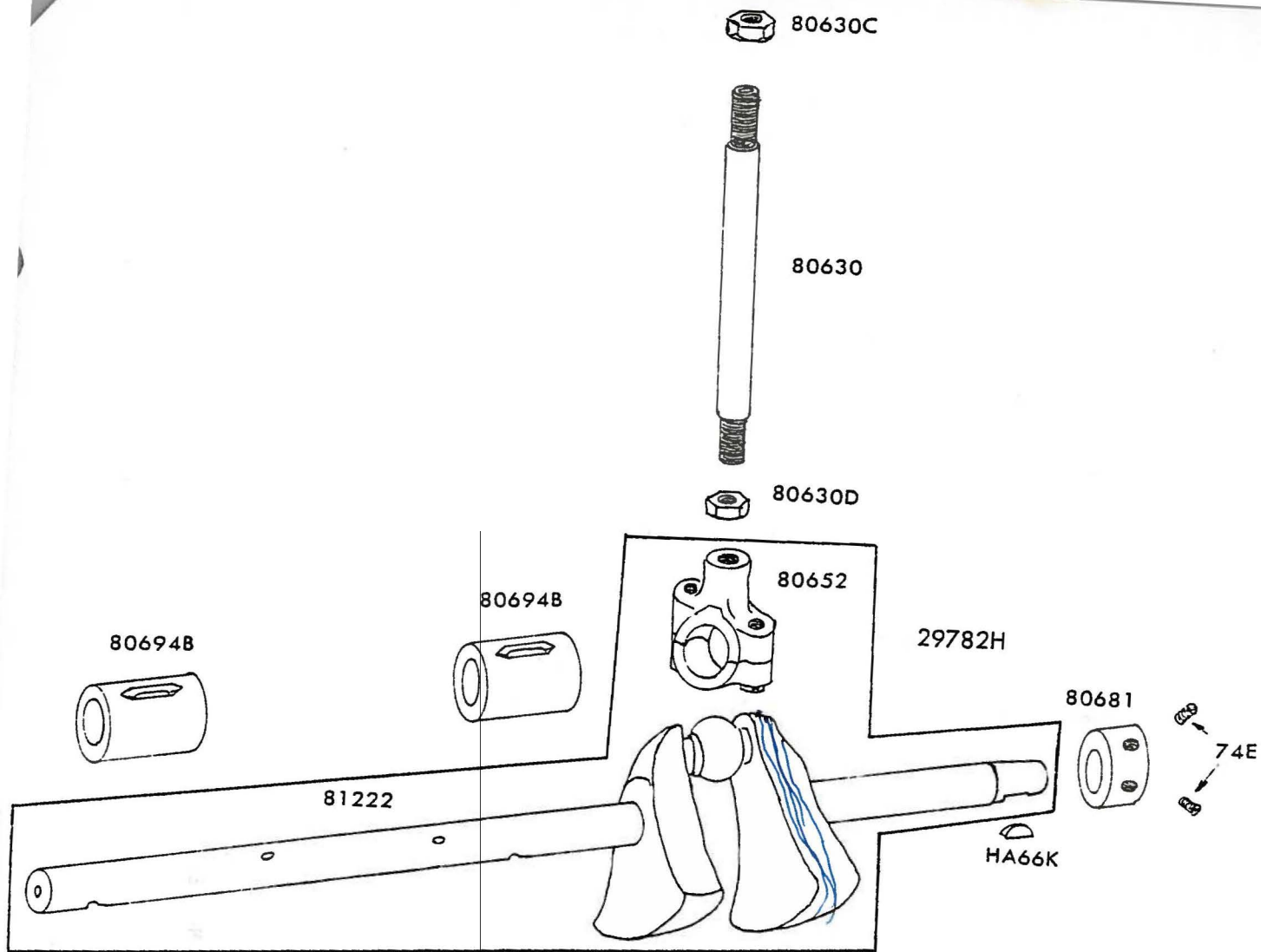


Plate No. 1

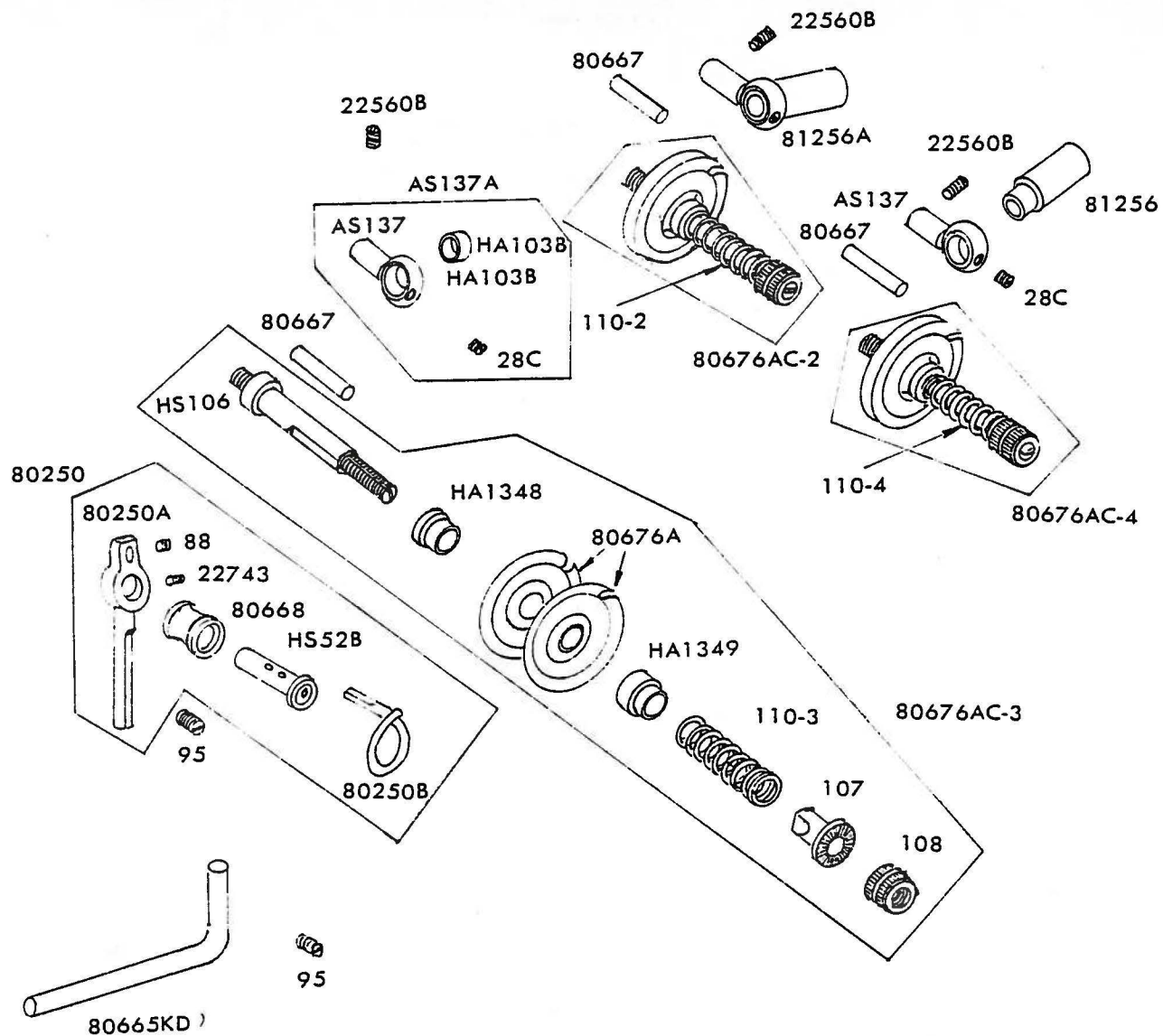
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|         |                                                                       |        |
|---------|-----------------------------------------------------------------------|--------|
| 89      | Set screw for Hinge pin.                                              | 2 pcs. |
| 94      | Set screw for Presser bar lifter guide plate and Looper thread guard. | 4 pcs. |
| 376     | Screw for Face plate.                                                 | 2 pcs. |
| 420     | Lifter lever stud.                                                    | 1 pc.  |
| 22574   | Screw for Cloth plate.                                                | 3 pcs. |
| 80437A  | Cloth plate swinging extension hinge pin.                             | 1 pc.  |
| 80438   | Spring for Locking bolt.                                              | 1 pc.  |
| 80440   | Locking bolt knob.                                                    | 1 pc.  |
| 80631   | presser bar lifter guide plate.                                       | 2 pcs. |
| 80648   | Lifter lever.                                                         | 1 pc.  |
| 80649   | Lifter lever spring.                                                  | 1 pc.  |
| B80687  | Face plate.                                                           | 1 pc.  |
| B80688  | Top cover.                                                            | 1 pc.  |
| B81201  | Cloth plate.                                                          | 1 pc.  |
| B81201A | Cloth plate swinging extension.                                       | 1 pc.  |
| 81239   | Cloth plate swinging extension locking bolt.                          | 1 pc.  |





|         |                                                      |        |
|---------|------------------------------------------------------|--------|
| HA 66K  | Key for Pulley hub.                                  | 1 pc.  |
| 74E     | Screw for Main shaft collar.                         | 2 pcs. |
| 80      | Screw for Wheel.                                     | 4 pcs. |
| HA 81   | Spot screw for Main shaft bushing housing.           | 1 pc.  |
| HA 95   | Set screw for Main shaft bushing housing.            | 1 pc.  |
| 22539   | Plung screw for Main shaft bearing sponge hole.      | 1 pc.  |
| 29782H  | Main shaft assembly.                                 | 1 pc.  |
| 80621A  | Wheel hub.                                           | 1 pc.  |
| B80621H | Wheel rim.                                           | 1 pc.  |
| 80630   | Needle lever connecting rod tube.                    | 1 pc.  |
| 80630C  | Needle lever connecting rod tube nut (left thread).  | 1 pc.  |
| 80630D  | Needle lever connecting rod tube nut (right thread). | 1 pc.  |
| 80652   | Needle lever connection bearing (lower).             | 1 pc.  |
| 80674   | Wheel hub lock washer.                               | 1 pc.  |
| 80681   | Main shaft collar.                                   | 1 pc.  |
| 80685   | Main shaft bushing and housing.                      | 1 pc.  |
| 80694B  | Main shaft bushing, left and middle.                 | 2 pcs. |
| 80694C  | Main shaft bushing, right.                           | 1 pc.  |
| 81222   | Main shaft.                                          | 1 pc.  |



|           |                                                       |        |
|-----------|-------------------------------------------------------|--------|
| 28C       | Set screw for Frame thread eyelet.                    | 4 pcs. |
| HS 52B    | Frame rolling thread guide axle assembly.             | 1 pc.  |
| 88        | Set screw for Rolling thread guide.                   | 1 pc.  |
| 95        | Set screw.                                            | 3 pcs. |
| HA 103B   | Frame thread eyelet.                                  | 1 pc.  |
| HS 106    | Tension post.                                         | 3 pcs. |
| 107       | Tension spring ferrule.                               | 3 pcs. |
| 108       | Tension regulating nut.                               | 3 pcs. |
| 110-2     | Tension spring for right hand looper thread.          | 1 pc.  |
| 110-3     | Tension spring for left hand looper thread.           | 1 pc.  |
| 110-4     | Tension spring for needle thread.                     | 1 pc.  |
| AS 137    | Frame thread eyelet support.                          | 4 pcs. |
| AS 137A   | Frame thread eyelet assembly.                         | 1 pc.  |
| AS 137KA  | Base thread eyelet assembly (two thread hole).        | 1 pc.  |
| 376A      | Looper thread guide set screw.                        | 2 pcs. |
| HA1348    | Frame tension post ferrule, front.                    | 3 pcs. |
| HA1349    | Frame tension post ferrule, rear.                     | 3 pcs. |
| 22560B    | Set screw for Frame thread guide.                     | 3 pcs. |
| 22743     | Screw for Frame rolling thread guide axle.            | 1 pc.  |
| 35871A    | Base thread guide.                                    | 1 pc.  |
| 80250     | Frame needle thread rolling thread guide assembly.    | 1 pc.  |
| 80250A    | Frame needle thread rolling thread guide support.     | 1 pc.  |
| 80250B    | Frame needle thread rolling thread guide.             | 1 pc.  |
| 80665KD   | Needle thread guide, (lower).                         | 1 pc.  |
| 80667     | Tension disc stop pin.                                | 3 pcs. |
| 80668     | Needle thread take-up rolling thread guide roller.    | 1 pc.  |
| 80676A    | Tension disc.                                         | 6 pcs. |
| 80676AC-2 | Thread tension assembly for Right hand looper thread. | 1 pc.  |
| 80676AC-3 | Thread tension assembly for Left hand looper thread.  | 1 pc.  |
| 80676AC-4 | Thread tension assembly for Needle thread.            | 1 pc.  |
| 81256     | Frame thread eyelet.                                  | 2 pcs. |
| 81256A    | Frame thread eyelet assmby.                           | 2 pcs. |
| 81266KA   | Base thread guide assembly.                           | 1 pc.  |

80673B

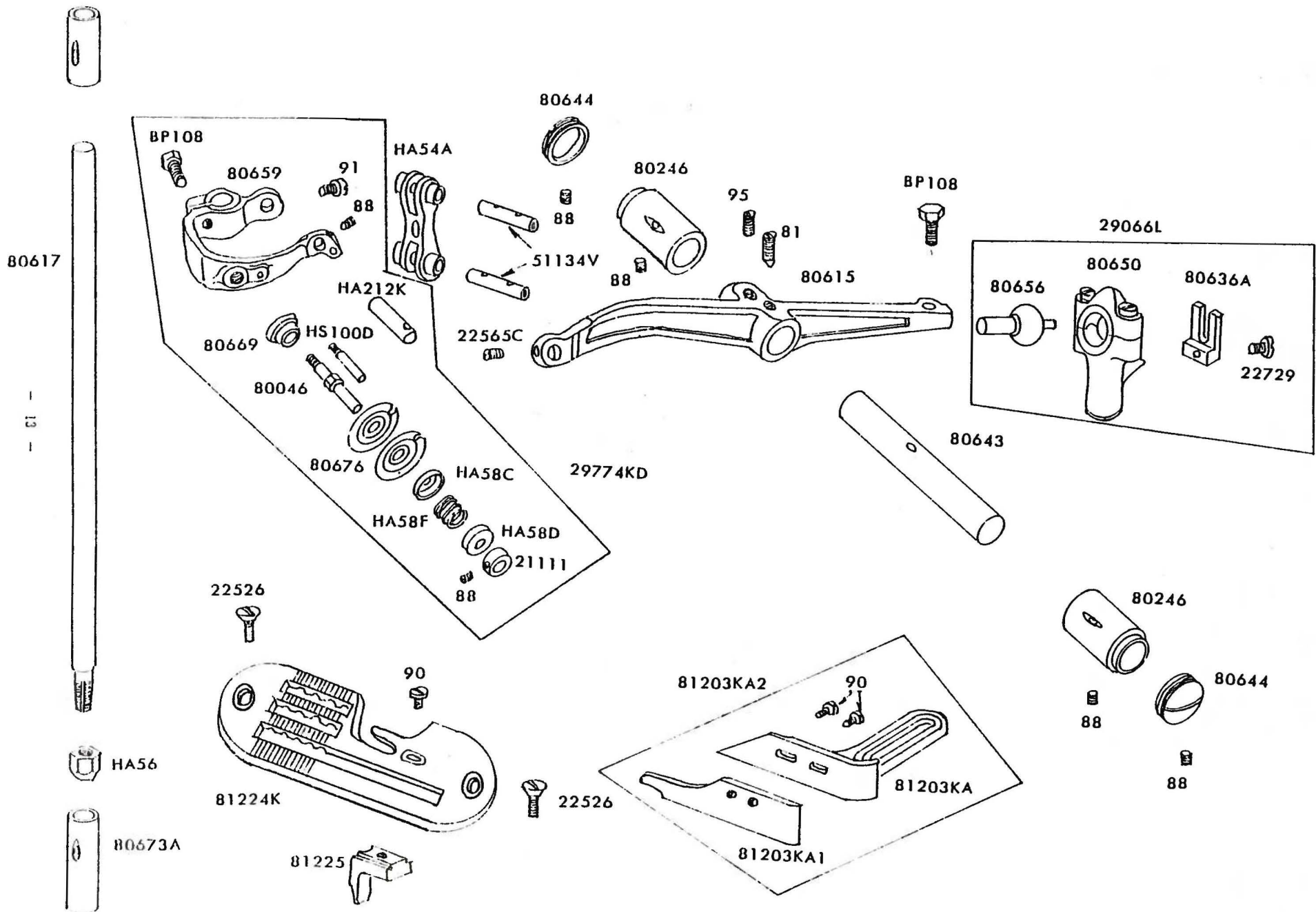
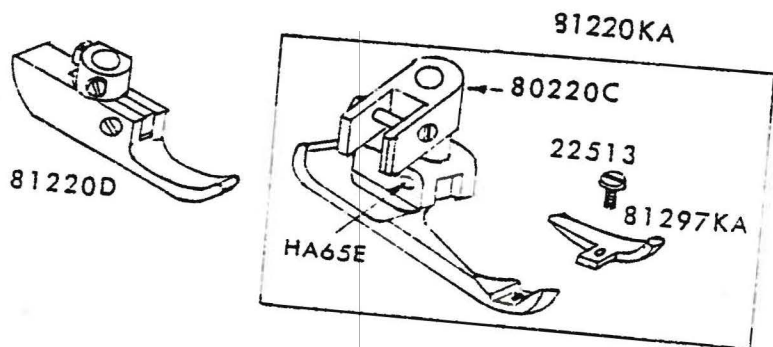
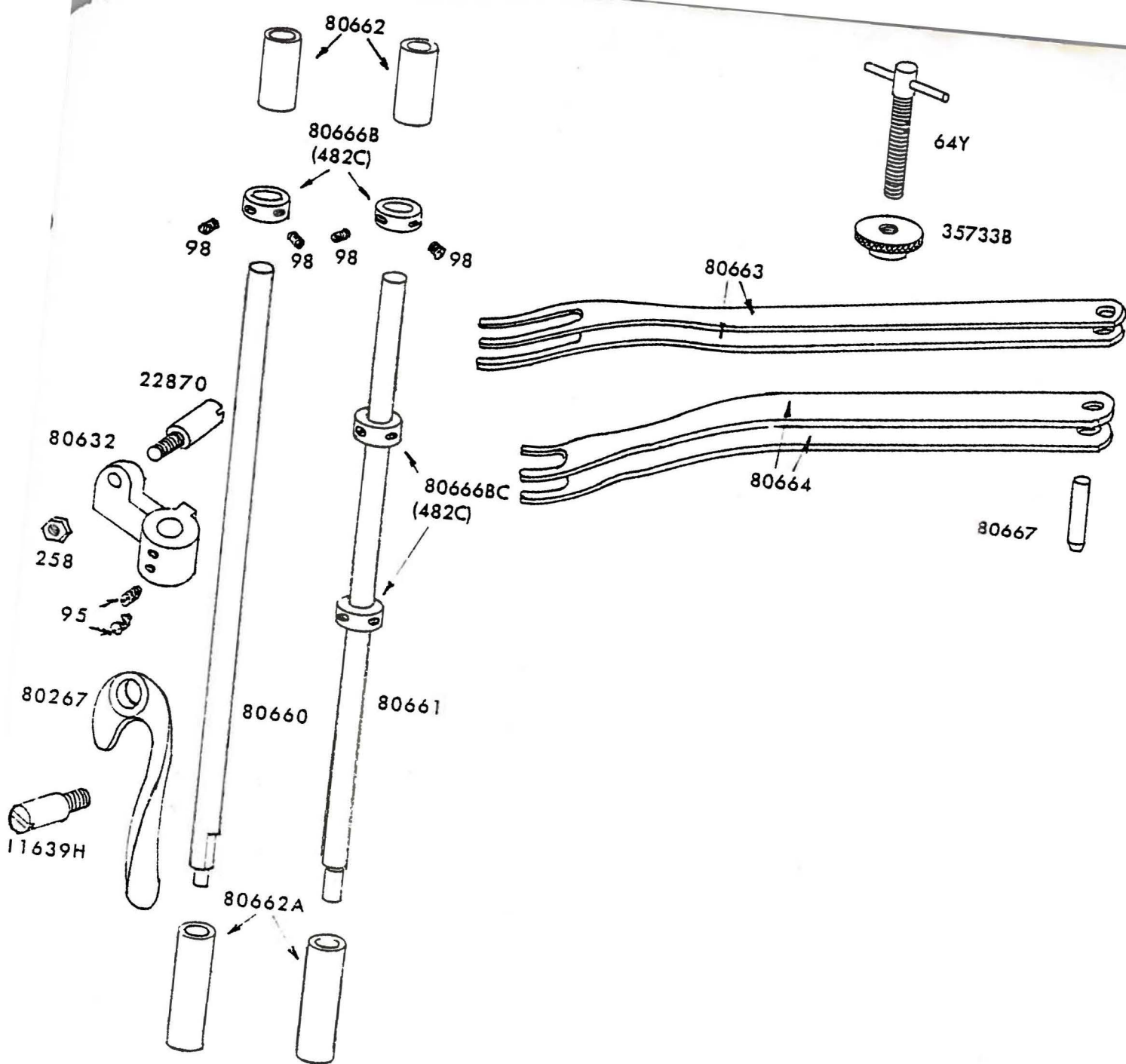


Plate No. 4



|           |                                                                        |        |
|-----------|------------------------------------------------------------------------|--------|
| HA 54A    | Needle bar link.                                                       | 1 pc.  |
| HA 56     | Needle clamp nut.                                                      | 1 pc.  |
| HA 58C    | Needle bar connection tension ferrule (front).                         | 1 pc.  |
| HA 58D    | Needle bar connection tension ferrule (rear).                          | 1 pc.  |
| HA 58F    | Needle bar connection spring.                                          | 1 pc.  |
| 81        | Spot screw for Needle lever.                                           | 1 pc.  |
| 88        | Set screw.                                                             | 6 pcs. |
| 90        | Screw for Needle plate needle guard and Cloth plate edge guide tongue. | 3 pcs. |
| 91        | Screw for Needle lever link upper pin.                                 | 1 pc.  |
| 95        | Set screw for Needle lever.                                            | 1 pc.  |
| HS 100D   | Stop screw for Tension disc.                                           | 1 pc.  |
| BP 108    | Clamp screw for Needle bar connection and Needle lever ball.           | 2 pcs. |
| HA 212K   | Thread guide for Needle bar connection.                                | 1 pc.  |
| 21111     | Needle bar connection post collar.                                     | 1 pc.  |
| 22526     | Screw for Needle plate.                                                | 2 pcs. |
| 22565C    | Screw for Needle lever link lower pin.                                 | 1 pc.  |
| 22729     | Screw for Needle lever ball stud fork.                                 | 1 pc.  |
| 29066L    | Needle lever connecting rod upper bearing assembly.                    | 1 pc.  |
| 29774KD   | Needle bar connection assembly.                                        | 1 pc.  |
| 51134V    | Needle lever link pin assembly.                                        | 2 pcs. |
| 80046     | Needle bar connection tension post.                                    | 1 pc.  |
| 80246     | Needle lever shaft bushing.                                            | 2 pcs. |
| 80615     | Needle lever.                                                          | 1 pc.  |
| 80617     | Needle bar.                                                            | 1 pc.  |
| 80636A    | Needle lever ball stud fork.                                           | 1 pc.  |
| 80643     | Needle lever shaft.                                                    | 1 pc.  |
| 80644     | Needle lever shaft hole plug screw.                                    | 2 pcs. |
| 80650     | Needle lever connection bearing, upper.                                | 1 pc.  |
| 80656     | Needle lever ball.                                                     | 1 pc.  |
| 80659     | Needle bar connection.                                                 | 1 pc.  |
| 80669     | Needle bar connection tension post ferrule (front).                    | 1 pc.  |
| 80673A    | Needle bar bushing (lower).                                            | 1 pc.  |
| 80673B    | Needle bar bushing (upper).                                            | 1 pcs  |
| 80676     | Tension disc.                                                          | 2 pcs. |
| 81203KA   | Cloth plate edge guide.                                                | 1 pc.  |
| 81203KA-1 | Cloth plate edge guide tongue.                                         | 1 pc.  |
| 81203KA-2 | Cloth plate edge guide assembly.                                       | 1 pc.  |
| 81224K    | Needle plate.                                                          | 1 pc.  |
| 81225     | Needle plate front needle guard.                                       | 1 pc.  |



|         |                                              |        |
|---------|----------------------------------------------|--------|
| 64Y     | Presser spring regulator screw.              | 1 pc.  |
| HA 65E  | Hinge screw for Right presser foot.          | 1 pc.  |
| 95      | Set screw for Presser bar lifter.            | 2 pcs. |
| 98      | Screw for Presser bar collar.                | 8 pcs. |
| 258     | Nut for Lifter lever screw pin.              | 1 pc.  |
| 11639H  | Hand lifter stud.                            | 1 pc.  |
| 22513   | Set screw for Presser foot tongue.           | 1 pc.  |
| 22870   | Lifter lever screw pin.                      | 1 pc.  |
| 35733B  | Lock nut for Presser spring regulator screw. | 1 pc.  |
| 80220C  | Presser foot shank (right).                  | 1 pc.  |
| 80267   | Hand lifter.                                 | 1 pc.  |
| 80632   | Presser bar lifter.                          | 1 pc.  |
| 80660   | Presser bar (left).                          | 1 pc.  |
| 80661   | Presser bar (right).                         | 1 pc.  |
| 80662   | Presser bar bushing (upper).                 | 2 pcs. |
| 80662A  | Presser bar bushing (lower).                 | 2 pcs. |
| 80663   | Presser spring (upper).                      | 2 pcs. |
| 80664   | Presser spring (lower).                      | 2 pcs. |
| 80666B  | Presser bar collar.                          | 4 pcs. |
| 80666BC | Presser bar collar with screw.               | 4 pcs. |
| 80667   | Presser spring pin.                          | 1 pc.  |
| 81220D  | Presser foot assembly (left).                | 1 pc.  |
| 81220KA | Presser foot assembly (right).               | 1 pc.  |
| 81297KA | Presser foot tongue.                         | 1 pc.  |

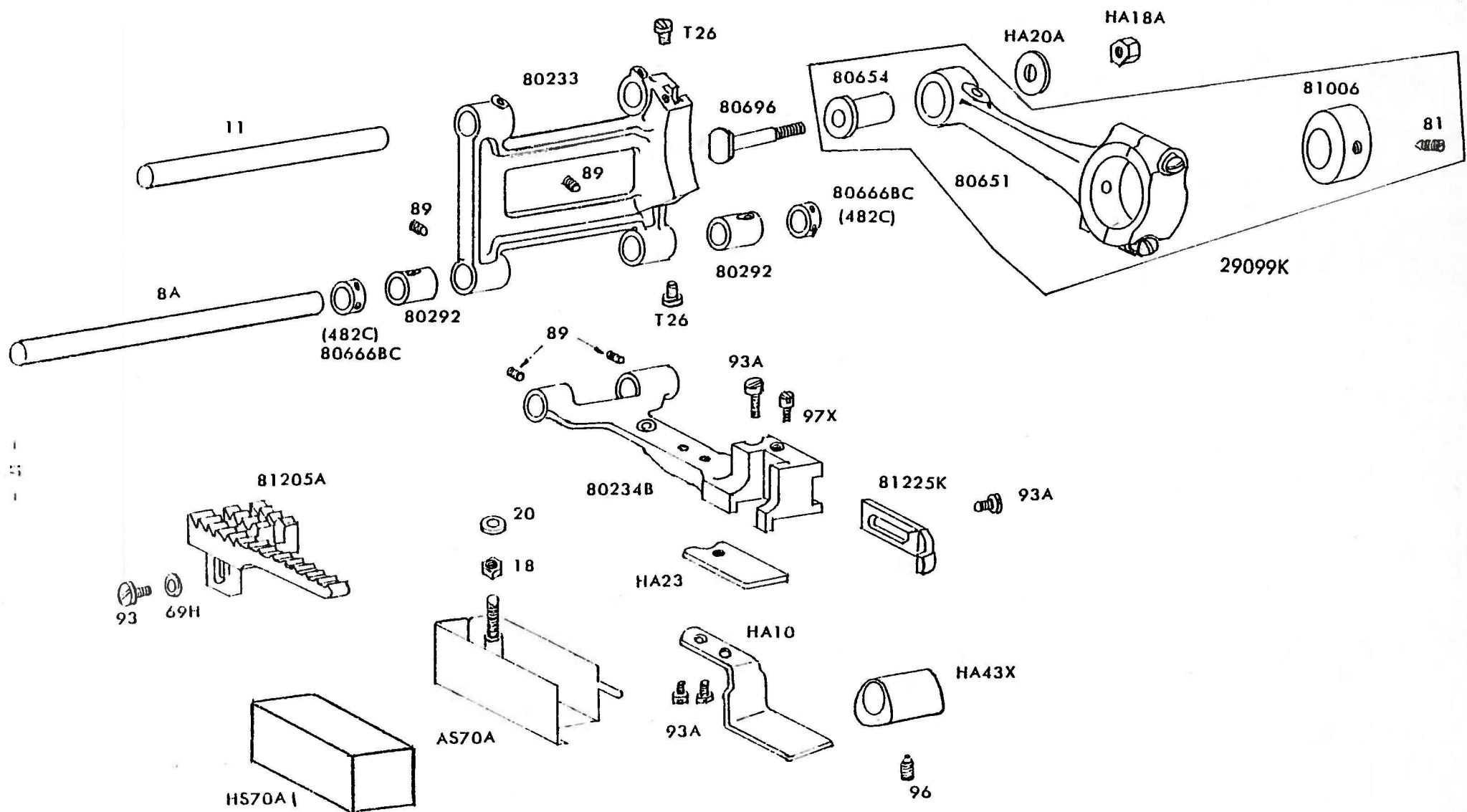


Plate No. 6



|    |         |                                                                    |        |
|----|---------|--------------------------------------------------------------------|--------|
|    | 8A      | Feed rocker shaft.                                                 | 1 pc.  |
| HA | 10      | Feed bar prong.                                                    | 1 pc.  |
|    | 11      | Feed bar shaft.                                                    | 1 pc.  |
|    | 18      | Nut for Feed cam oiling felt holder.                               | 1 pc.  |
| HA | 18A     | Nut for Stitch regulating stud.                                    | 1 pc.  |
|    | 20      | Washer for Feed cam oiling felt holder.                            | 1 pc.  |
| HA | 20A     | Washer for Stitch regulating stud.                                 | 1 pc.  |
| HA | 23      | Feed bar shoe.                                                     | 1 pc.  |
| T  | 26      | Stop screw for Stitch regulating stud.                             | 2 pcs. |
| HA | 43X     | Feed lift cam.                                                     | 1 pc.  |
|    | 69H     | Washer for Feed dog screw.                                         | 1 pc.  |
| AS | 70A     | Feed cam oiling felt holder.                                       | 1 pc.  |
| HS | 70A     | Feed cam oiling felt.                                              | 1 pc.  |
|    | 81      | Screw for Feed driving eccentric.                                  | 1 pc.  |
|    | 89      | Set screw for Feed rocker and Feed bar.                            | 4 pcs. |
|    | 93      | Set screw for Feed dog.                                            | 1 pc.  |
|    | 93A     | Screw for Feed bar prong, Feed bar shoe and Feed bar needle guard. | 4 pcs. |
|    | 96      | Spot screw for Feed lifter cam.                                    | 1 pc.  |
|    | 97X     | Screw for Supporting feed dog.                                     | 1 pc.  |
|    | 98      | Screw for Feed bar shaft collar.                                   | 4 pcs. |
|    | 29099K  | Feed driving eccentric assembly.                                   | 1 pc.  |
|    | 80233   | Feed rocker.                                                       | 1 pc.  |
|    | 80234B  | Feed bar.                                                          | 1 pc.  |
|    | 80292   | Feed rocker shaft bushing.                                         | 2 pcs. |
|    | 80651   | Feed driving eccentric connection.                                 | 1 pc.  |
|    | 80654   | Stitch regulating stud bushing.                                    | 1 pc.  |
|    | 80666B  | Feed rocker shaft collar.                                          | 2 pcs. |
|    | 80666BC | Feed rocker shaft collar with screw.                               | 2 pcs. |
|    | 80696   | Stitch regulating stud.                                            | 1 pc.  |
|    | 81006   | Feed driving eccentric.                                            | 1 pc.  |
|    | 81205A  | Feed dog.                                                          | 1 pc.  |
|    | 81225K  | Feed bar rear needle guard.                                        | 1 pc.  |

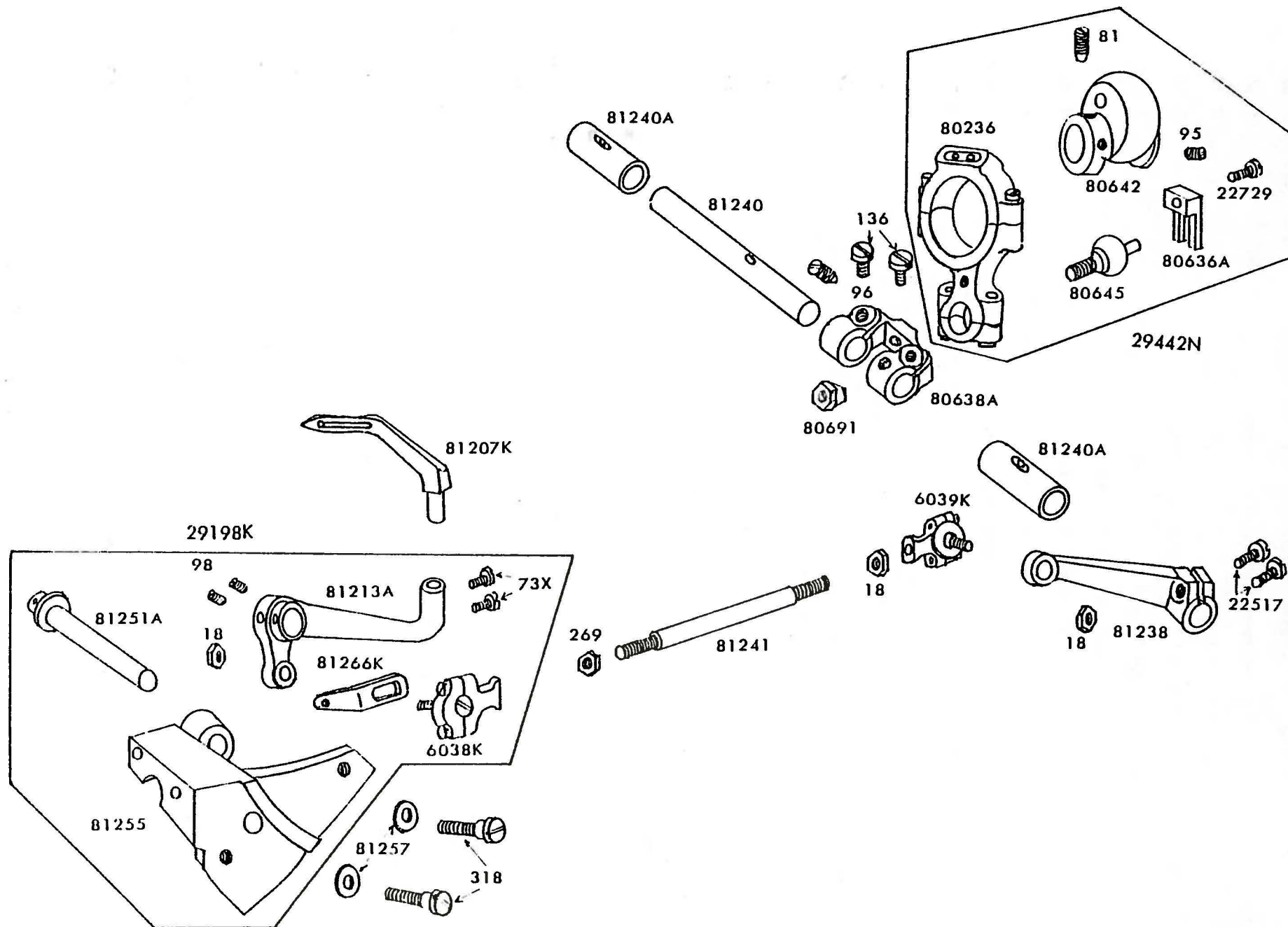


Plate No. 7

|        |                                                                |        |
|--------|----------------------------------------------------------------|--------|
| 18     | Nut for Looper drive connecting rod and Ball joint.            | 3 pcs. |
| HS 36K | Looper connecting rod ball joint washer.                       | 1 pc.  |
| 73X    | Set screw for Looper.                                          | 2 pcs. |
| 81     | Spot screw for Looper driving eccentric.                       | 1 pc.  |
| 95     | Set screw for Looper driving eccentric.                        | 1 pc.  |
| 96     | Spot screw for Looper drive lever shaft rocker.                | 1 pc.  |
| 98     | Screw for Looper rocker (right hand).                          | 2 pcs. |
| 136    | Clamp screw for Looper drive lever shaft rocker.               | 2 pcs. |
| 269    | Nut for Looper drive connecting rod (left thread).             | 1 pc.  |
| 318    | Clamp screw for Right hand looper rocker shaft bearing.        | 2 pcs. |
| 6038K  | Looper rocker connecting rod ball joint (left).                | 1 pc.  |
| 6039K  | Looper rocker connecting rod ball joint (right).               | 1 pc.  |
| 22517  | Screw for Looper drive lever.                                  | 2 pcs. |
| 22729  | Screw for Looper lever ball stud fork.                         | 1 pc.  |
| 29198K | Right hand looper rocker assembly.                             | 1 pc.  |
| 29442N | Looper drive eccentric assembly.                               | 1 pc.  |
| 80236  | Looper drive eccentric connecting bearing.                     | 1 pc.  |
| 80636A | Looper lever ball stud fork.                                   | 1 pc.  |
| 80638A | Looper drive lever shaft rocker.                               | 1 pc.  |
| 80642  | Looper drive eccentric.                                        | 1 pc.  |
| 80645  | Looper drive eccentric connection ball stud.                   | 1 pc.  |
| 80691  | Looper drive eccentric connection ball stud nut.               | 1 pc.  |
| 81207K | Right hand looper.                                             | 1 pc.  |
| 81213A | Looper rocker (right hand).                                    | 1 pc.  |
| 81238  | Looper drive lever.                                            | 1 pc.  |
| 81240  | Looper drive lever shaft.                                      | 1 pc.  |
| 81240A | Looper drive lever shaft bushing.                              | 2 pcs. |
| 81241  | Looper rocker connecting rod.                                  | 1 pc.  |
| 81251A | Right hand looper rocker shaft.                                | 1 pc.  |
| 81255  | Right hand looper rocker shaft bearing.                        | 1 pc.  |
| 81257  | Right hand looper rocker shaft bearing attaching screw washer. | 2 pcs. |
| 81266K | Left hand looper thread take-up.                               | 1 pc.  |

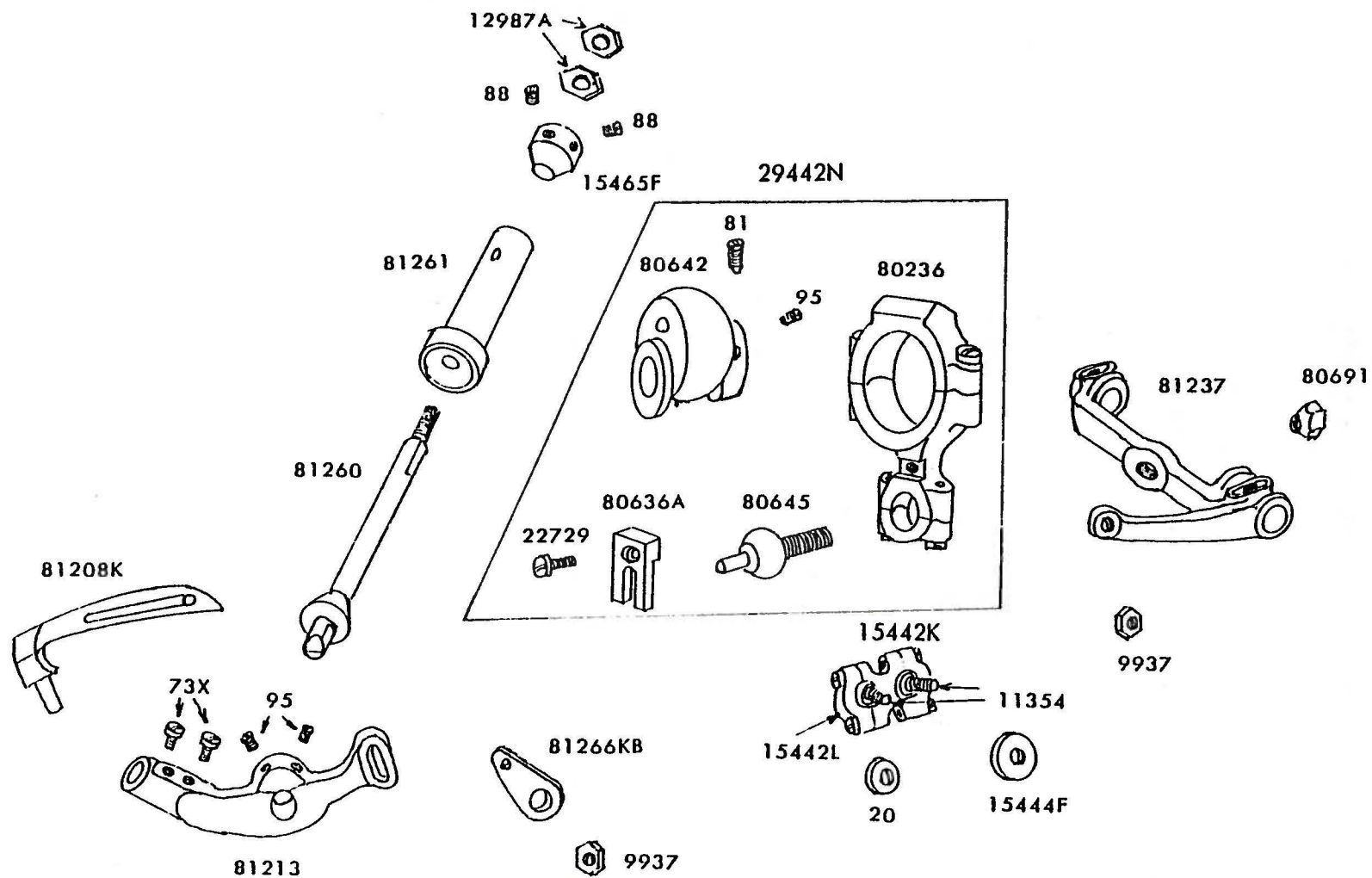


Plate No. 8



|         |                                                           |        |
|---------|-----------------------------------------------------------|--------|
| 20      | Washer for Looper rocker double ball joint right stud.    | 1 pc.  |
| 73X     | Set screw for Looper.                                     | 2 pcs. |
| 81      | Spot screw for Looper driving eccentric.                  | 1 pc.  |
| 88      | Set screw for Looper rocker cone.                         | 2 pcs. |
| 95      | Set screw for Looper driving eccentric and Looper rocker. | 3 pcs. |
| 9937    | Nut for Looper rocker double ball joint stud.             | 2 pcs. |
| 11354   | Looper rocker double ball joint stud.                     | 2 pcs. |
| 12987A  | Check nut for Looper rocker cone stud.                    | 2 pcs. |
| 15442K  | Looper rocker double ball joint connection assembly.      | 1 pc.  |
| 15442L  | Looper rocker double ball joint connection.               | 1 pc.  |
| 15444F  | Washer for Looper rocker double ball joint left stud.     | 1 pc.  |
| 15465F  | Looper rocker cone.                                       | 1 pc.  |
| 22729   | Screw for Looper lever ball stud fork.                    | 1 pc.  |
| 29442N  | Looper driving eccentric assembly.                        | 1 pc.  |
| 80236   | Looper drive eccentric connecting bearing.                | 1 pc.  |
| 80636A  | Looper lever ball stud fork.                              | 1 pc.  |
| 80642   | Looper drive eccentric.                                   | 1 pc.  |
| 80645   | Looper drive eccentric connection ball stud.              | 1 pc.  |
| 80691   | Looper drive eccentric connection ball stud nut.          | 1 pc.  |
| 81208K  | Left hand looper.                                         | 1 pc.  |
| 81213   | Looper rocker (left hand).                                | 1 pc.  |
| 81237   | Looper driving lever (left hand).                         | 1 pc.  |
| 81260   | Left hand looper rocker cone stud.                        | 1 pc.  |
| 81261   | Left hand looper rocker cone stud bushing.                | 1 pc.  |
| 81266KB | Right hand looper thread take-up.                         | 1 pc.  |

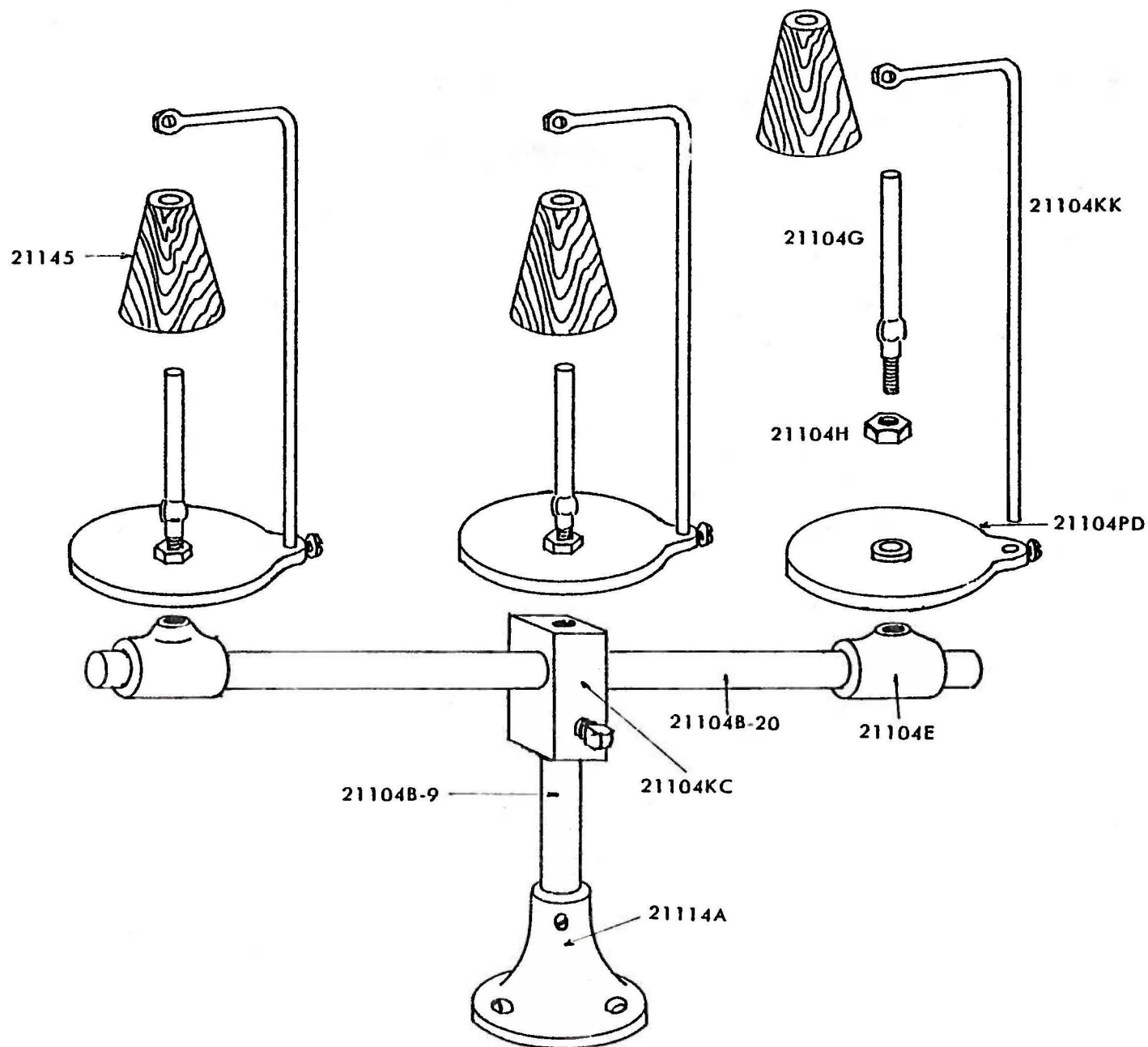


Plate No. 9

|           |                                |        |
|-----------|--------------------------------|--------|
| 21104B-9  | Thread stud support rod.       | 1 pc.  |
| 21104B-20 | Thread stand seat support rod. | 1 pc.  |
| 21104E    | Thread seat connection.        | 2 pcs. |
| 21104G    | Thread stand seat pin.         | 3 pcs. |
| 21104H    | Thread stand seat pin nut.     | 3 pcs. |
| 21104KC   | Thread stand rod connection.   | 1 pc.  |
| 21104KK   | Thread stand eyelet wire.      | 3 pcs. |
| 21104PD   | Thread stand seat.             | 3 pcs. |
| 21114A    | Thread stand base.             | 1 pc.  |
| 21145     | Thread stand cone (wood).      | 3 pcs. |

# NUMERICAL LIST OF PARTS

| Part No.     | Plate No. | Part No.        | Plate No. | Part No.      | Plate No. |
|--------------|-----------|-----------------|-----------|---------------|-----------|
| 8A .....     | 6         | 97X .....       | 6         | 21104KC ..... | 9         |
| HA 10 .....  | 6         | 98 .....        | 5,6,7     | 21104KK ..... | 9         |
| 11 .....     | 6         | HS 100D .....   | 4         | 21104PD ..... | 9         |
| 18 .....     | 6,7       | HA 103B .....   | 3         | 21111 .....   | 4         |
| HA18A .....  | 6         | HS 106 .....    | 3         | 21114A .....  | 9         |
| 20 .....     | 6,8       | 107 .....       | 3         | 21145 .....   | 9         |
| HA 20A ..... | 6         | 108 .....       | 3         | 22513 .....   | 5         |
| HA 23 .....  | 6         | BP 108 .....    | 4         | 22517 .....   | 7         |
| T 26 .....   | 6         | 110-2 .....     | 3         | 22526 .....   | 4         |
| 28C .....    | 3         | 110-3 .....     | 3         | 22539 .....   | 2         |
| HS 36K ..... | 7         | 110-4 .....     | 3         | 22560B .....  | 3         |
| HA 43X ..... | 6         | 136 .....       | 7         | 22565C .....  | 4         |
| HS 52B ..... | 3         | AS 137 .....    | 3         | 22574 .....   | 1         |
| HA 54A ..... | 4         | AS 137A .....   | 3         | 22729 .....   | 4,7,8     |
| HA 56 .....  | 4         | AS 137KA .....  | 3         | 22743 .....   | 3         |
| HA 58C ..... | 4         | HA 212K .....   | 4         | 22870 .....   | 5         |
| HA 58D ..... | 4         | 258 .....       | 5         | 29066L .....  | 4         |
| HA 58F ..... | 4         | 269 .....       | 7         | 29099K .....  | 6         |
| 64Y .....    | 5         | 318 .....       | 7         | 29198K .....  | 7         |
| HA 65E ..... | 5         | 376 .....       | 1         | 29442N .....  | 7,8       |
| HA 66K ..... | 2         | 376A .....      | 3         | 29774KD ..... | 4         |
| 69H .....    | 6         | 420 .....       | 1         | 29782H .....  | 2         |
| AS 70A ..... | 6         | HA1348 .....    | 3         | 35733B .....  | 5         |
| HS 70A ..... | 6         | HA1349 .....    | 3         | 35871A .....  | 3         |
| 73X .....    | 7,8       | 6038K .....     | 7         | 51134V .....  | 4         |
| 74E .....    | 2         | 6039K .....     | 7         | 80046 .....   | 4         |
| 80 .....     | 2         | 9937 .....      | 8         | 80220C .....  | 5         |
| 81 .....     | 4,6,7,8   | 11354 .....     | 8         | 80233 .....   | 6         |
| HA 81 .....  | 2         | 11639H .....    | 5         | 80234B .....  | 6         |
| 88 .....     | 3,4,8     | 12987A .....    | 8         | 80236 .....   | 7,8       |
| 89 .....     | 1,6       | 15442K .....    | 8         | 80246 .....   | 4         |
| 90 .....     | 4         | 15442L .....    | 8         | 80250 .....   | 3         |
| 91 .....     | 4         | 15444F .....    | 8         | 80250A .....  | 3         |
| 93 .....     | 6         | 15465F .....    | 8         | 80250B .....  | 3         |
| 93A .....    | 6         | 21104B-9 .....  | 9         | 80267 .....   | 5         |
| 94 .....     | 1         | 21104B-20 ..... | 9         | 80292 .....   | 6         |
| 95 .....     | 3,4,5,7,8 | 21104E .....    | 9         | 80437A .....  | 1         |
| HA 95 .....  | 2         | 21104G .....    | 9         | 80438 .....   | 1         |
| 96 .....     | 6,7       | 21104H .....    | 9         | 80440 .....   | 1         |



| Part No. | Plate No.  | Part No.  | Plate No. | Part No. | Plate No. |
|----------|------------|-----------|-----------|----------|-----------|
| 80615    | .....4     | 80676AC-2 | .....3    | 81261    | .....8    |
| 80617    | .....4     | 80676AC-3 | .....3    | 81266K   | .....7    |
| 80621A   | .....2     | 80676AC-4 | .....3    | 81266KA  | .....3    |
| B89621H  | .....2     | 80681     | .....2    | 81266KB  | .....8    |
| 80630    | .....2     | 80685     | .....2    | 81297KA  | .....5    |
| 80630C   | .....2     | B80687    | .....1    |          |           |
| 80630D   | .....2     | B80688    | .....1    |          |           |
| 80631    | .....1     | 80691     | .....7,8  |          |           |
| 80632    | .....5     | 80694B    | .....2    |          |           |
| 80636A   | .....4,7,8 | 80694C    | .....2    |          |           |
| 80638A   | .....7     | 80696     | .....6    |          |           |
| 80642    | .....7,8   | 81006     | .....6    |          |           |
| 80643    | .....4     | B81201    | .....1    |          |           |
| 80644    | .....4     | B81201A   | .....1    |          |           |
| 80645    | .....7,8   | 81203KA   | .....4    |          |           |
| 80648    | .....1     | 81203KA-1 | .....4    |          |           |
| 80649    | .....1     | 81203KA-2 | .....4    |          |           |
| 80650    | .....4     | 81205A    | .....6    |          |           |
| 80651    | .....6     | 81207K    | .....7    |          |           |
| 80652    | .....2     | 81208K    | .....8    |          |           |
| 80654    | .....6     | 81213     | .....8    |          |           |
| 80656    | .....4     | 81213A    | .....7    |          |           |
| 80659    | .....4     | 81220D    | .....5    |          |           |
| 80660    | .....5     | 81220KA   | .....5    |          |           |
| 80661    | .....5     | 81222     | .....2    |          |           |
| 80662    | .....5     | 81224K    | .....4    |          |           |
| 80662A   | .....5     | 81225     | .....4    |          |           |
| 80663    | .....5     | 81225K    | .....6    |          |           |
| 80664    | .....5     | 81237     | .....8    |          |           |
| 80665KD  | .....3     | 81238     | .....7    |          |           |
| 80666B   | .....5,6   | 81239     | .....1    |          |           |
| 80666BC  | .....5,6   | 81240     | .....7    |          |           |
| 80667    | .....3,5   | 81240A    | .....7    |          |           |
| 80668    | .....3     | 81241     | .....7    |          |           |
| 80669    | .....4     | 81251A    | .....7    |          |           |
| 80673A   | .....4     | 81255     | .....7    |          |           |
| 80673B   | .....4     | 81256     | .....3    |          |           |
| 80674    | .....2     | 81256A    | .....3    |          |           |
| 80676    | .....4     | 81257     | .....7    |          |           |
| 80676A   | .....3     | 81260     | .....8    |          |           |

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