



104-10T

**PARTS BOOK
AND INSTRUCTION MANUAL**

INDEX

| | |
|--|-----|
| 1. SPECIFICATIONS | 2 |
| 2. DESCRIPTION | 2 |
| 3. SPEED | 2 |
| 4. TO OIL THE MACHINE | 3 |
| 5. NEEDLES, NIPPLE AND THREAD | 4 |
| 6. TO REMOVE, REPLACE AND SET NEEDLE AND NIPPLE | 5 |
| 7. TO THREAD THE MACHINE | 7 |
| 8. LEARNING TO OPERATE THE MACHINE | 10 |
| 9. TO OPERATE THE MACHINE | 10 |
| 10. TO REGULATE THE PRESSURE ON THE PRESSER FOOT | 11 |
| 11. TENSIONS | 11 |
| 12. TO ADJUST THE LENGTH OF STITCH | 12 |
| 13. TO REGULATE THE PRESSURE ON THE NIPPLE | 12 |
| 14. THE LOOPER | 13 |
| 15. TO SET THE LOOPER | 14 |
| 16. TO ADJSUT THE NUMBER OF THE BRAIDING | 14 |
| 17. TO ADJUST THE TENSION OF THE BRAIDING | 15 |
| 18. RAY STTICH | 15 |
| 19. PILE OR MOSS STITCH | 16 |
| 20. PARTS LIST | 17~ |

1. SPECIFICATIONS

| | |
|----------------------|--|
| Stitch specification | : Single thread, chainstitch |
| Speed | : 1500 stitches per minute |
| Feed | : Universal feed movement |
| Stitch Length | : Maximum 5 m/m |
| Presser foot lift | : 7 m/m |
| Needle bar stroke | : 14 m/m |
| Needle used | : System 137 x 1(chainstitch) 137 *1 SM (Moss stitch) |
| Motor | : 200W(1/4HP), Single or three phase, 4 poles, clutch |

2. DESCRIPTION

Embroidery machine makes the braiding stitch and also can make the single thread chainstitch, the tape attaching, the ray stitch and pile or moss stitch. It is designed for ornamenting or embroidering ladies' cloaks and suits, millinery, uniforms, draperies, table cover, etc.

The read may be of cotton, wool, worsted, silk, metal and other threads of similar adaptability. A large variety of fabrics can be embroidered, ranging from fine chiffon to china silk and cloth.

The usual method of producing embroidered designs is to follow a pattern that has been perforated, stamped or traced on the fabric, but with practice the operator can produce embroidery designs without premarking the fabric.

3. SPEED

When first operating this machine, the best results can be obtained by running the machine approximately 800 stitches per minute. The speed can be increased as the operator becomes more proficient and nature of the work permits.

4. TO OIL THE MACHINE (Fig. 1, 2, 11 & 12)

To insure easy running and prevent unnecessary wear of the parts which are in movable contact, the machine requires oiling.

Oil should be applied to the places designated by unlettered arrows in Fig. 1, 2, 11 and 12.

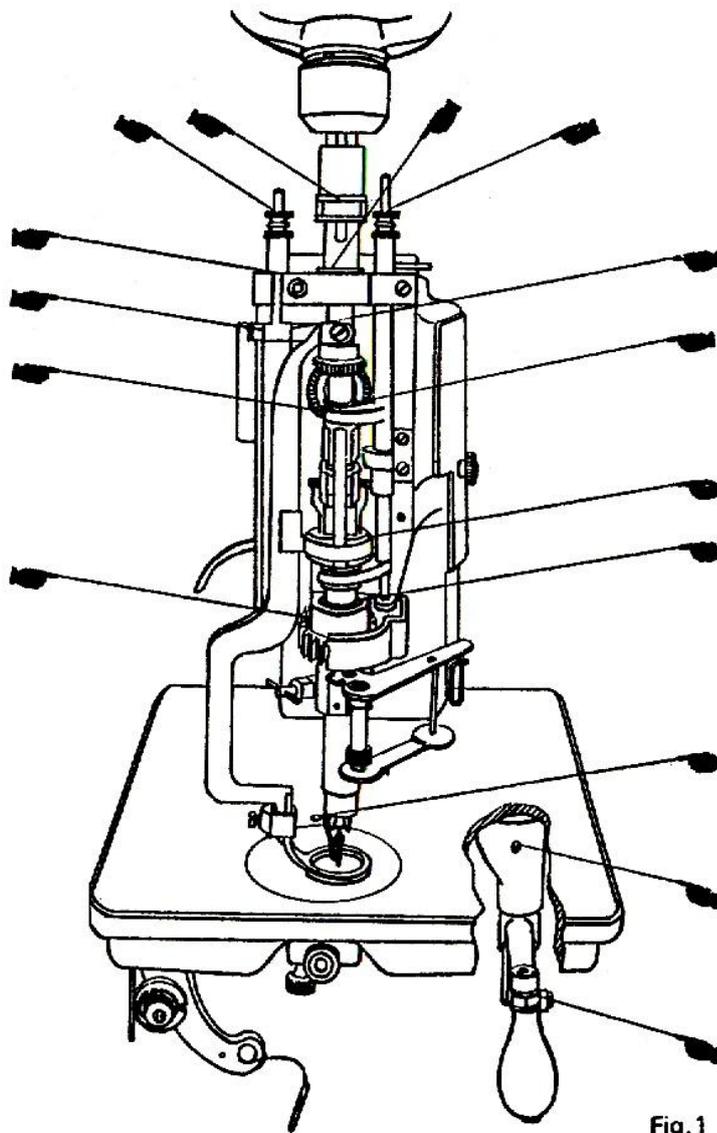


Fig. 1

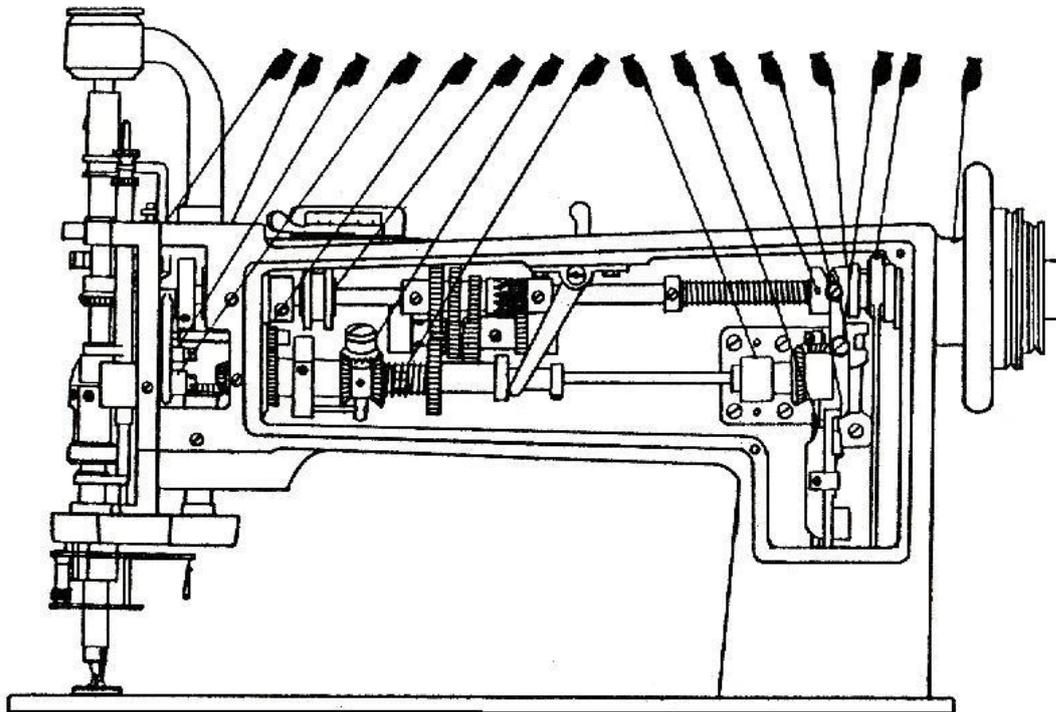


Fig. 2

Fig. 2 shows the arm cover removed for the purpose of oiling. This arm cover can be removed after taking out thumb screw, Fig. 10. If the machine is used continuously, oil should be applied at least once each day.

5. NIPPLES, NIPPLES AND THREAD (Fig. 3)

Needles for embroidery machine are system 137 x 1 and are available in sizes from 1 to 12. These needles have hooks similar in appearance to those of hand crochet needles.

The needle must be selected according to the thickness and the style of the thread to be used. The thread must not only fill the opening of the hook in the needle but must slide freely therein.

To correspond with the needle used in the machine a suitable nipple must be selected, as the needle in forming the stitch has to operate through the nipple. The

needle must fit in the nipple and slide freely without side play. Nipples are available in size numbers similar to those of the needles, and for general work the number of the nipple should be the same as that of the needle.

The nipples for embroidery machine are available in the following kinds, as per Fig. 3.

- (a): For chainstitch and moss stitch
- (b): For tape attaching
- (c): For braiding stitch and ray stitch

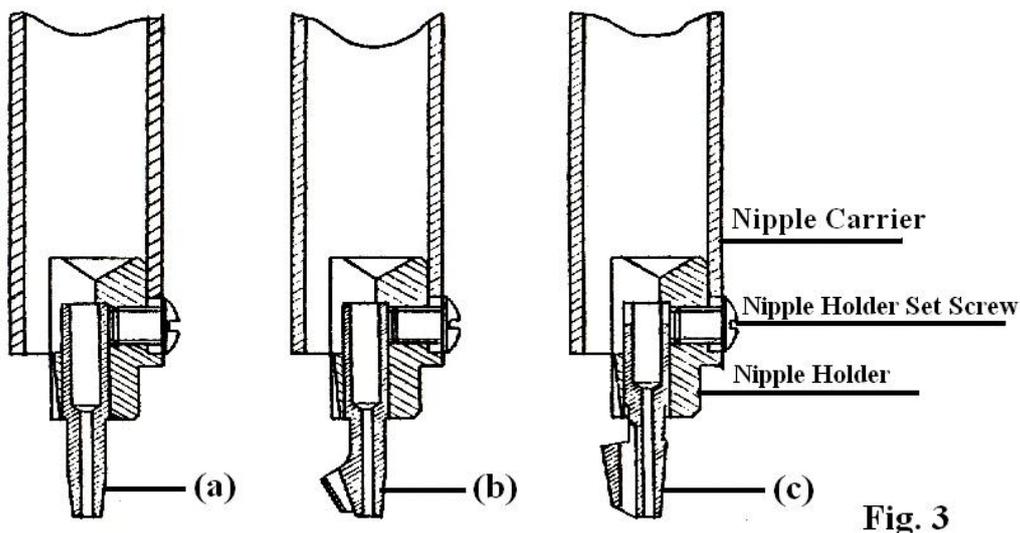


Fig. 3

6. TO REMOVE, REPLACE AND SET NEEDLE AND NIPPLE (Fig. 4)

When it is necessary to change the needle and nipple on the machine, first select another needle and corresponding nipple. Then lower the presser foot lifter (J), loosen screw (B) and remove needle bar (A) and needle from top of machine. Remove nipple holder (O), loosening screw by screwdriver.

Select the correct needle hole in needle plate (D).

NOTE: The needle hole should be slightly larger than the needle, so that the

needle, when laid around the needle, will have sufficient space to pass without touching the sides of the needle hole.

Loosen thumb screw (L) and turn plate (D) until correct needle hole is in line with needle, then tighten thumb screw (L).

Next, insert the selected nipple (N) into the lower part of nipple holder (O) and tighten screw securely with the screwdriver, Insert the nipple holder (O) into the nipple carrier (Fig. 3) and tighten screw securely. Screw selected needle into needle bar (A) and tighten with pliers provided. Replace needle bar (A) down into sleeve and adjust its height so that the fabric to be embroidered can just pass under the point of the needle.

Be sure handle (K) is as far to the front as possible and that the hook of the needle faces the front. Then tighten screw (B), which also should face the front.

NOTE: Do not tighten screw (B) except when needle bar (A) is in its place. If the screw is tightened when needle bar (A) is not in its place, needle bar operating collar is transformed and needle bar does not enter into the collar.

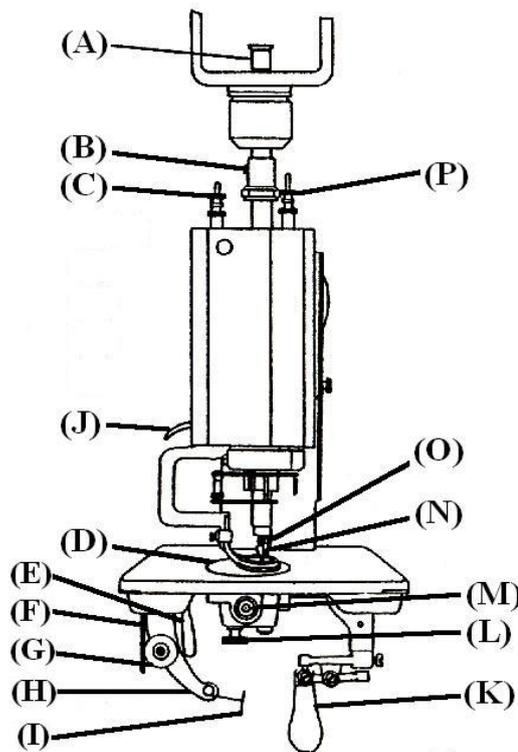


Fig. 4

- A. Needle bar
- B. Needle bar operating collar set screw
- C. Presser foot slide bar thumb screw
- D. Needle plate
- E. Tension regulating lever
- F. Tension regulating plate
- G. Tension complete
- H. Tension bracket
- I. Tension controller spring
- J. Presser foot lifter
- K. Stitch rotating hand lever handle
- L. Needle plate thumb screw
- M. End of looper shaft
- N. Nipple
- O. Nipple holder
- P. Nipple carrier thumb screw

7. TO THREAD THE MACHINE (Figs. 5, 6 & 7)

1) For the thread (Figs. 5 & 6)

Place the cone of thread in a convenient position on the floor.

Three thread eyelets are furnished with the machine. These eyelets should be fastened to the underside of the table as shown at (1), (2) and (3), Fig. 5. Eyelet (1) should be located directly above the cone of thread.

Pass the thread up from the cone and through eyelets (1), (2) and (3), then through hole (1), over between tension discs (5), through thread controller spring (6). Turn handle (A), Fig. 6 to the front or slightly to the left, raise presser foot and insert threading wire (B) in the forward hole (7) of needle plate. With the left hand, catch thread on hook of threading wire (B) and draw wire and thread up through hole needle plate. With the left hand, hold end of thread with a slight tension.

With the right hand, turn handle (A) straight to the left, having started the machine, quickly bear down and up on handle (A) so the needle will pick up the thread for one stitch. Keep handle (A) in same position and with the threading wire (B), draw thread directly toward you, laying end of thread loosely on needle plate after it comes up through needle hole.

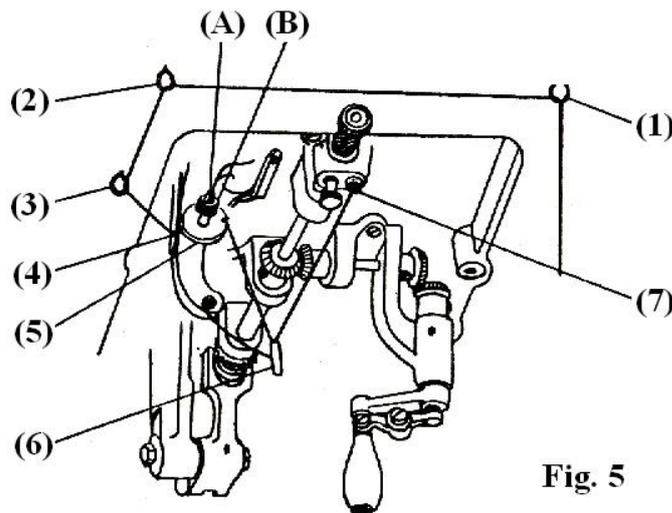


Fig. 5

2) For the cord (Fig. 7)

Wind the cord **1** on the cord spool **2**, using the spool winder spindle on the pulley. Place it on the cord spool bracket **3**. Enter the cord into the top of needle bar **1** with the threading wire (large) **5** and pass it below the end of nipple carrier **6**, then through to the hole of the nipple **7**.

3) For the braid (Fig. 7)

Wind the braid **8** on the braid spool **9**, using the spool winder spindle on the pulley. Place it on the braid spool bracket **10**. Pass the braid through the braid guide **11** of the bracket **10** and through the hole **12** of the braid leader rod and the hole **13** of the braid leader bracket, then through the forward hole **14** of the braid leader guide.

Now the machine is ready for operation.

Fig. 6

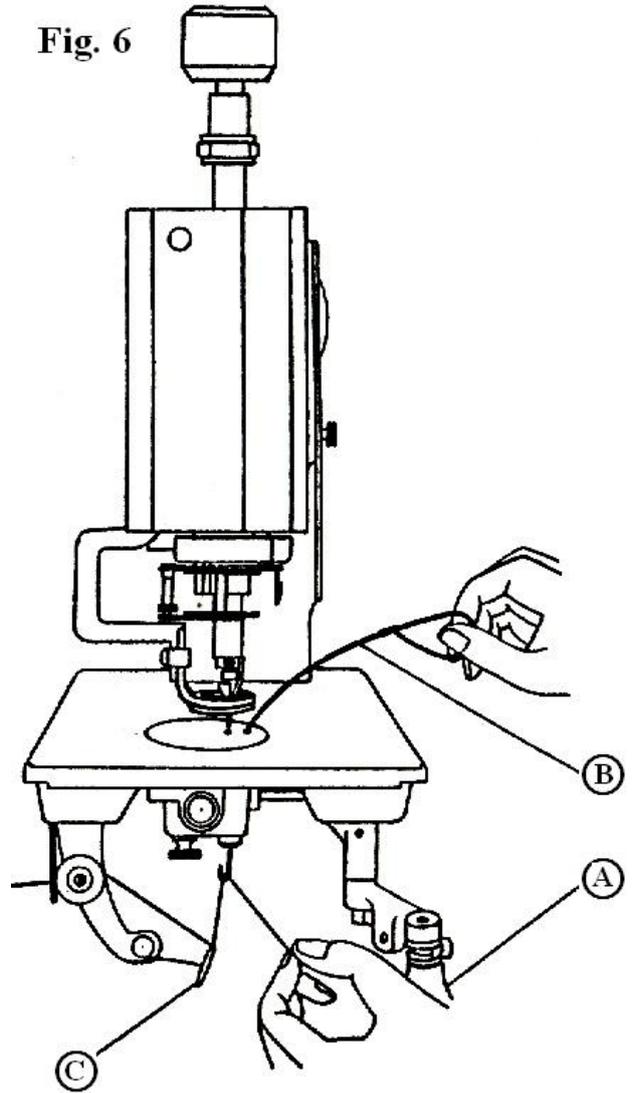
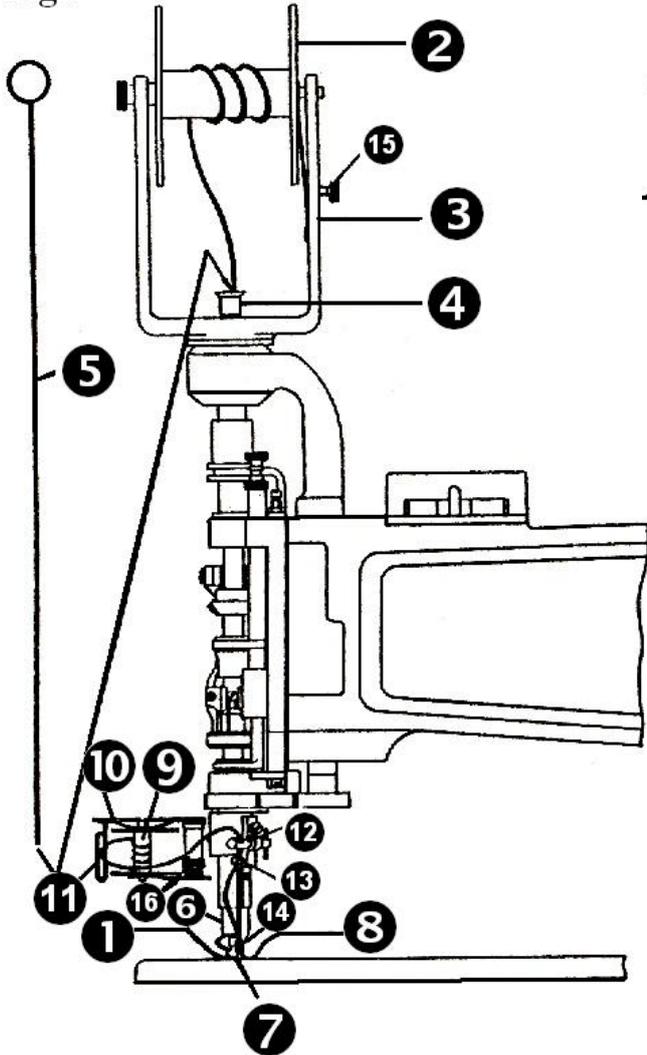


Fig. 7

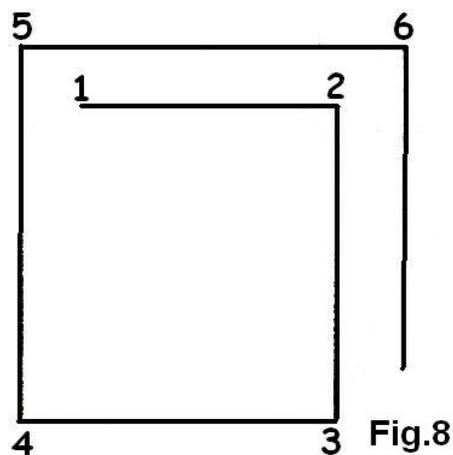


8. LEARNING TO OPERATE THE MACHINE (Fig.8)

Note: When in operation the machine pulley must always turn over away from operator.

Mark a design (see Fig.8) on 30cm (12 inch) square piece of cloth. Place cloth under presser foot so that the needle will enter cloth as at point 1. Turn handle (A), Fig. 6 to the right and the hook of the needle will be turned in the same direction. Lower presser foot, start machine pulley by turning it over away from you, grasp handle (A) and pull it down to start the machine. With handle pressed and to the right, cloth will be fed to point ②, then turn handle to the front and cloth will be fed to point ③ turn handle to the left and cloth will be fed to point ④ etc.

To stop machine raise handle (A). Machine will stop with needle as its highest point.



9. TO OPERATE THE MACHINE (Fig. 9)

The operator should practice embroidering designs similar to those illustrated below.

These designs can be sketched on white material such as lawn, and by following them, the operator can soon become proficient enough to attempt more intricate designs or patterns.



Fig.9

10. TO REGULATE THE PRESSURE ON THE PRESSER FOOT (Fig.4)

The pressure on the presser foot is regulated by the thumb screw **©**, Fig.4. To increase the pressure, turn the thumb screw over to the right or downward. To decrease the pressure, turn the thumb screw over to the left or upward.

11. TENSIONS (Fig.5)

If stitches are too tight, raise needle bar approximately 1.5 m/m (1/16 inch).

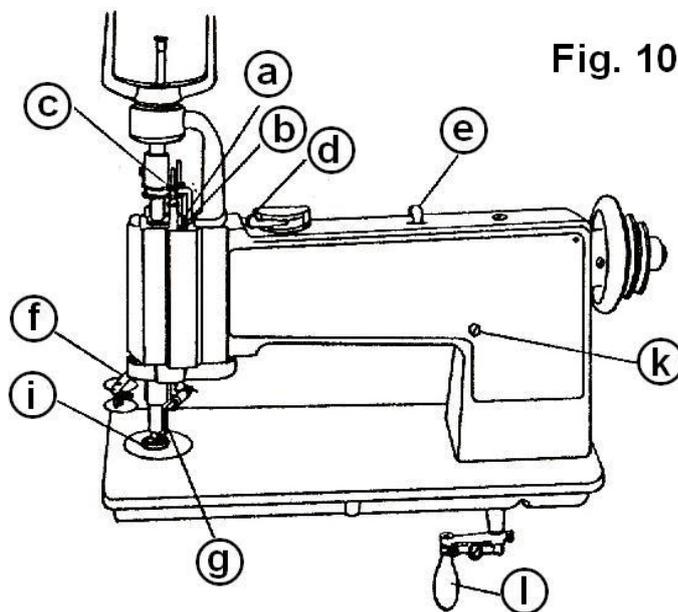
Various effects can be produced by changing the height of the needle bar as well as by adjusting the length of stitch.

The tension on the thread is regulated by the thumb nut **ⓑ**, Fig. 5 at the left of the tension discs. To increase the tension turn this nut over toward you. To decrease the tension turn this nut over from you . this tension should be only tight enough to prevent the skipping of stitch.

12. TO ADJUST THE LENGTH OF STITCH (Fig. 10)

The length of stitch is adjusted by screw (a), Fig. 10. To lengthen the stitch, loosen locking lever (b) and turn screw (a) over to the left or upward, then tighten locking lever (b).

To shorten the stitch, loosen locking lever (b) and turn the screw (a) over to the right or downward, then tighten locking lever (b).



13. TO REGULATE THE PRESSURE ON THE NIPPLE (Fig.10 & 11)

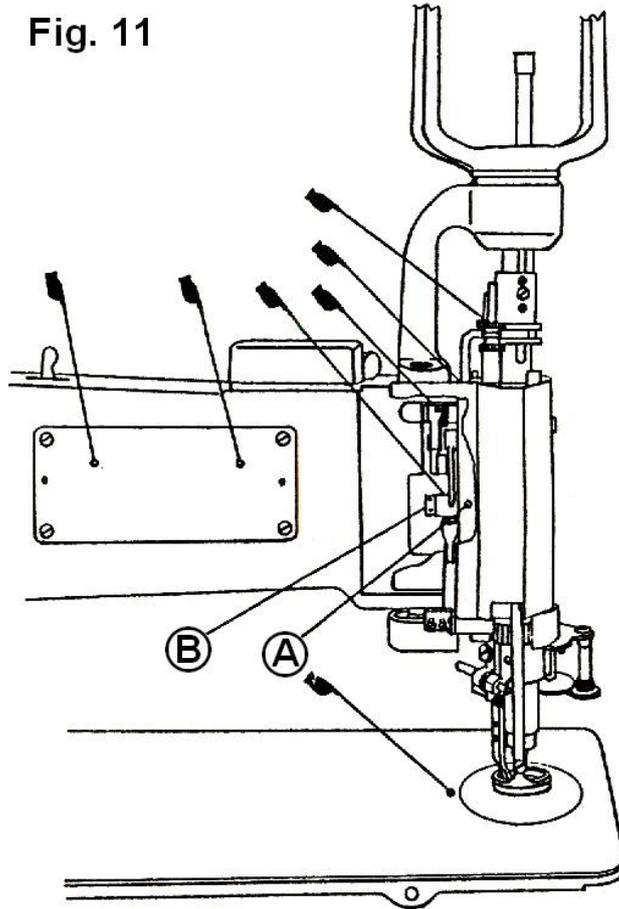
The pressure on the nipple is regulated by the thumb screw (c), Fig. 10 at the top of the machine. To increase the pressure, turn this thumb screw over to the right or downward. To decrease the pressure, turn this thumb screw over to the left or upward.

Note: Too much pressure on the nipple may cause the thread to break.

When sewing fine net, it is sometimes necessary to prevent the nipple from touching the needle plate.

To raise the nipple, insert a screwdriver in hole **(A)**, Fig. 11 and loosen the set screw therein. The eccentric adjusting stud **(B)** can then be turned by the wrench provided so that nipple can be set at desired height, then tighten the set screw in hole **(A)**.

Fig. 11



14. THE LOOPER (Fig. 12)

Allow the stop motion to throw the machine out of action and make sure that it is securely held in its locking position. Raise the needle holder to avoid breaking the point of the needle, remove the needle plate after removing the thumb screw **(1)**, Fig. 12, and observe the notch in the looper which, when in its correct position, should be at the rear slightly to the right of the needle, while the handle **(2)** is toward the front.

15. TO SET THE LOOPER (Fig. 4 & 12)

Turn the machine back on its hinges and turn handle ②, Fig. 12 and screw ⑥, Fig. 4 to the front. Loosen set screw ③, Fig. 12 of the operating worm gear ④. And turn the gear slightly, until the notch in the looper is in its correct position as instructed above. After having set the worm gear flush with the end of the looper shaft ⑤, tighten the set screw ③.

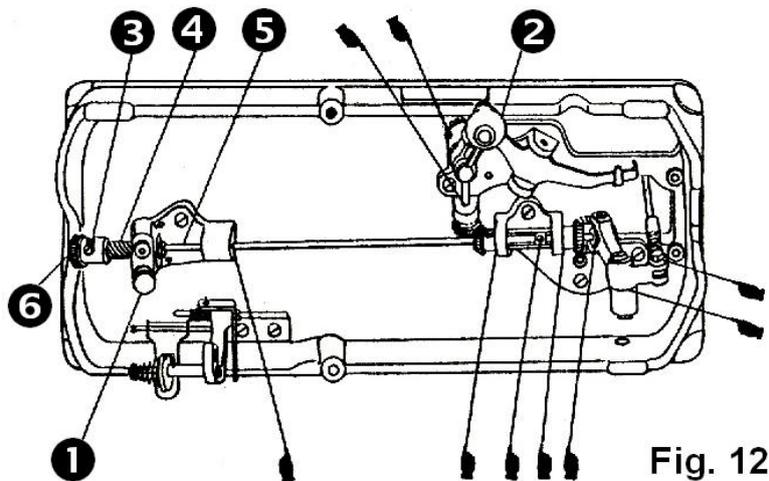


Fig. 12

16. TO ADJUST THE NUMBER OF THE BRAIDING (Fig. 10)

The number of the braiding can be adjusted by the lever ④, Fig. 10, which is located on the top of the machine frame. At the number 0, the gears do not engage and the machine will be operated as chainstitch, moss stitch or tape attaching embroidery.

In case of the number 1, one braiding (roll) per one stitch

In case of the number 2, 1/2 braiding (roll) per one stitch

In case of the number 3, 1/3 braiding (roll) per one stitch

In case of the number 4, 1/4 braiding (roll) per one stitch

The bigger the number is set, the coarser the internal of the braiding will be. Therefore, set the number 1 for normal braiding stitch.

Note: Do not change the lever while the clutch is engaging. If do so, it may cause the machine to damage.

17. TO ADJUST THE TENSION OF THE BRAIDING (Fig. 10)

It is the best for the normal braiding embroidery works that the braid spool bracket **f**, Fig. 10 is set in the left while the handle **d** is at the front.

To adjust as above, bring the handle **d** to front, hold the handle by the knee as it does not turn round, then press the gear changing lever **e**, Fig. 10 to right and turn the braid spool bracket **f** to the above position.

To increase the tension of the braiding, turn the braid spool bracket **f** over from you. To decrease the tension to the braiding, turn the braid spool bracket **f** over toward you.

If the gears do not engage after the above adjustment, hold the braid spool bracket **f** by the left hand and turn the pulley by the right hand.

Note: Do not press the gear changing lever **e** while the clutch is engaging. If do so, it may cause the machine to damage.

The additional adjustment will be made by the braid spool adjusting thumb nut **b**, Fig. 7 and the braid leader guide **g**, Fig. 10.

18. RAY STITCH (Fig. 4 & 7)

The ray stitch can be done by adjusting the tensions of the thread loose, the tensions of the cord and the braid slightly tight as you like.

(1) For loosening thread (Fig. 4)

Loosen the screw **b**, Fig. 4 and lift the needle bar **a** so that the thread

loosens.

(2) For tightening cord (Fig. 7)

Tighten the screw ⑮, Fig. 7 so that the rotation of the cord spool ② becomes slow.

(3) For tightening braid (Fig. 7)

Tighten the screw ⑯, Fig. 7 so that the rotation of the braid spool ⑨ becomes slow.

Then, set the lever ④, Fig. 10 to the number 1.

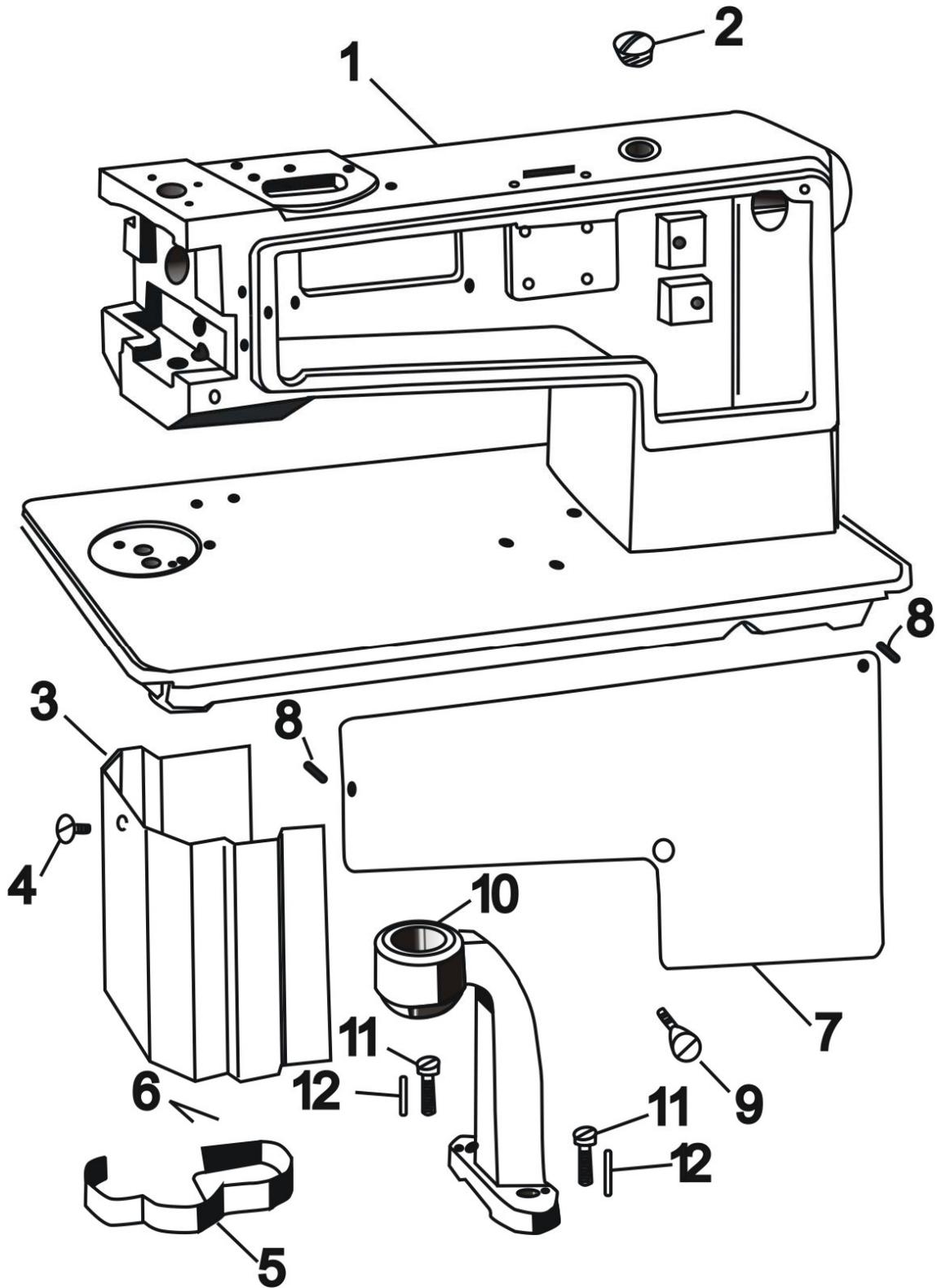
19. PILE OR MOSS STITCH (Fig. 4, 10 & 12)

The raised pile or moss stitch is produced by adjusting the machine so that it will drop the stitches in loose loops on the materials. To accomplish this, turn handle (K), Fig. 4 to the front, loosen the screw (B) and turn the needle bar (A) so that the hook of the needle will point directly to the back of the machine, then tighten the screw (B). Reach under the bed of the machine with the left hand, grasp the knurled end ⑥, Fig. 12 of the operating worm gear ① draw the worm gear to the left and while holding it turn handle ② around to the right directly to the back, then release the knurled end of the gear.

The looper will then be set in the opposite direction to that which is required for the chain stitch, or with the notch of the looper at the front of the needle while handle ①, Fig. 10 is at the front. Change the presser foot ① to the presser foot (spur).

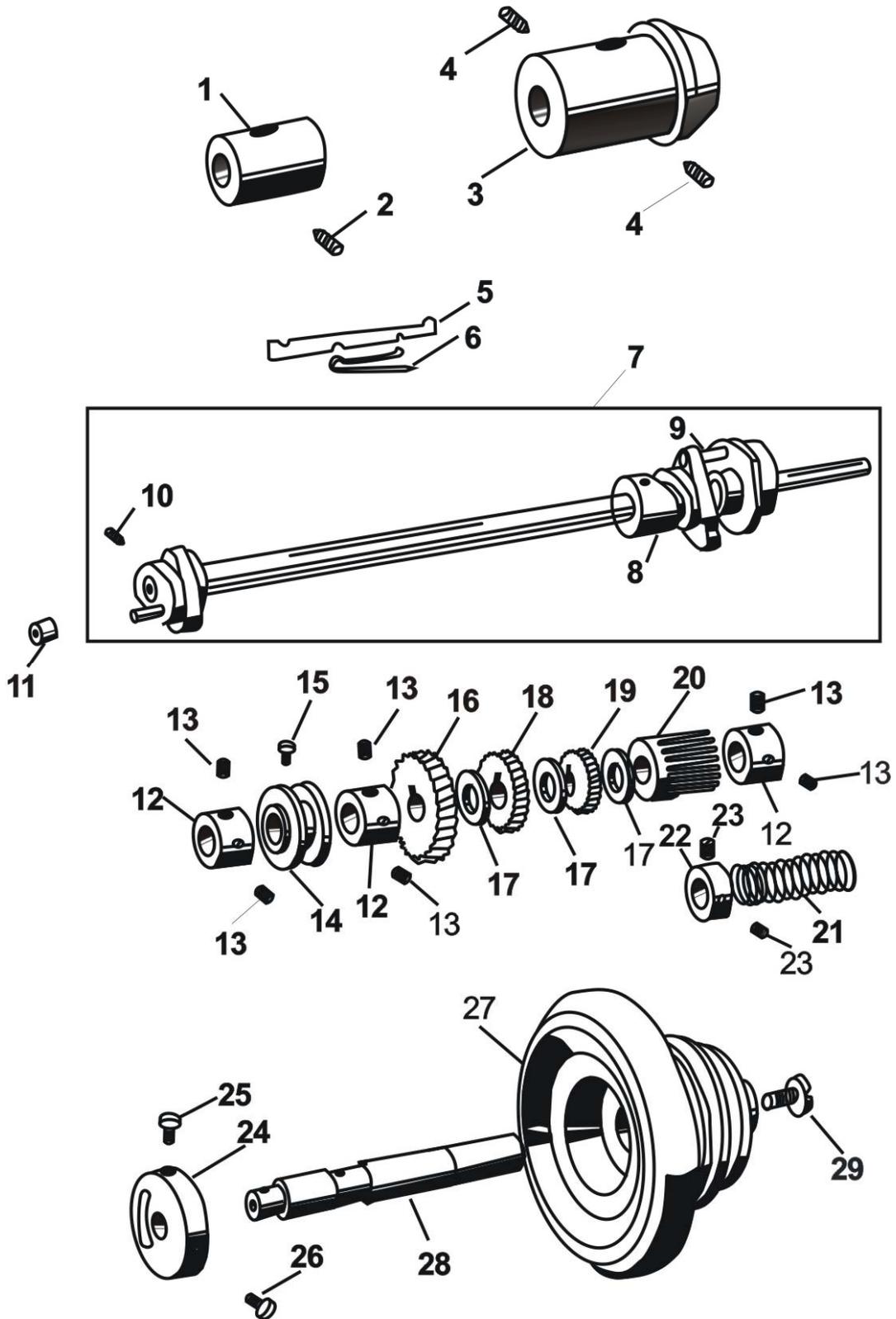
By operating the machine and turn handle ① rapidly, so as to make very small circles of dropped stitch loops laid one on the other, raised pile work is produced. The higher the needle is set the longer the loop will be. The size of the thread and thickness of the material used will have to be considered when adjusting the machine for pile stitching.

1. MACHINE FRAME & COVERS COMPONENTS



| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|---|
| P1-1 | AM1114-10 | MACHINE FRAME |
| P1-2 | 8181 | ARM TOP SCREW |
| P1-3 | 8470 | ARM HEAD COVER |
| P1-4 | 5227 | ARM HEAD COVER THUMB SCREW |
| P1-5 | 8466-A | SPOOL CARRIER DRIVING GEAR COVER |
| P1-6 | 4015 | SPOOL CARRIER DEIVING GEAR COVER SET SCREW |
| P1-7 | 8434 | ARM SIDE COVER |
| P1-8 | 8150 | ARM SIDE COVER POSITION PIN |
| P1-9 | 8483 | ARM SIDE COVER THUMB SCREW |
| P1-10 | S-8445 | CORD SPOOL BRACKET SUPPORTING ARM WITH NEEDLE BEARING |
| P1-11 | 8172 | CORD SPOOL BRACKET SUPPORTING ARM CLAMP SCREW |
| P1-12 | 8146 | CORD SPOOL BRACKET SUPPORTING ARM POSITION PIN |

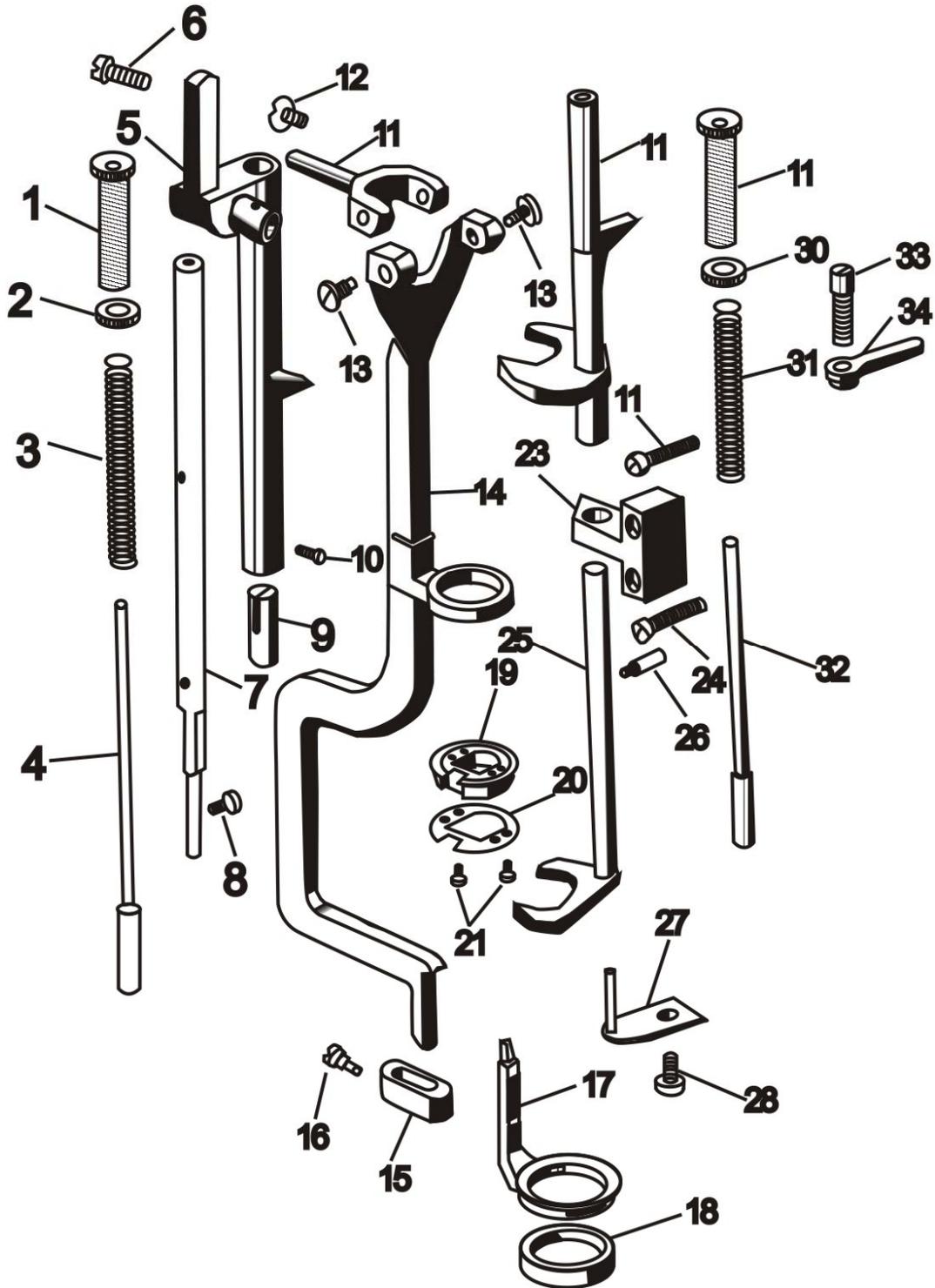
3. ARM SHAFT MECHANISM COMPONENTS



| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|---|
| P3-1 | 8403 | ARM SHAFT BUHSING |
| P3-2 | 98-A | ARM SHAFT BUSHING SET SCREW |
| P3-3 | 8404 | DRIVING PULLEY SLEEVE BUSHING |
| P3-4 | 131 | DRIVING PULLEY SLEEVE BUSHING SET SCREW |
| P3-5 | 8406 | ARM SHAFT GEAR SLIDING KEY |
| P3-6 | 8407 | ARM SHAFT GEAR SLIDING KEY SPRING |
| P3-7 | 824 | ARM SHAFT ASSEMBLY WITH REF. NOS. 8-10 |
| P3-8 | 8008 | STOP CAM |
| P3-9 | 8163-B | STOP CAM DRIVING STUD |
| P3-10 | 8005-A | NEEDLE DRIVING CAM POSITION SCREW |
| P3-11 | 8006 | NEEDLE DRIVING CAM ROLLER |
| P3-12 | 5266 | ARM SHAFT COLLAR |
| P3-13 | 132-C | ARM SHAFT COLLAR SET SCREW |
| P3-14 | 8405 | ARM SHAFT GROOVED COLLAR |
| P3-15 | 8480-A | ARM SHAFT GROOVED COLLAR SET SCREW |
| P3-16 | 8408 | ARM SHAFT GEAR (NO.1) |
| P3-17 | 8412 | ARM SHAFT GEAR WASHER |
| P3-18 | 8409 | ARM SHAFT GEAR (NO.2) |
| P3-19 | 8410 | ARM SHAFT GEAR (NO.3) |
| P3-20 | 8411 | ARM SHAFT GEAR (NO.4) |
| P3-21 | 8009-A | STOP CAM SPRING |
| P3-22 | 8010 | STOP CAM SPRING COLLAR |
| P3-23 | 132 | STOP CAM SPRING COLLAR SET SCREW |
| P3-24 | 8012 | ARM SHAFT DRIVING FLANGE |
| P3-25 | 8013 | ARM SHAFT DRIVING FLANGE POSITION SCREW |
| P3-26 | 8014 | ARM SHAFT DRIVING FLANGE SET SCREW |
| P3-27 | 8017-B | DRIVING PULLEY |
| P3-28 | 8015 | DRIVING PULLEY SLEEVE |
| P3-29 | 8018 | DRIVING PULLEY SLEEVE SCREW |

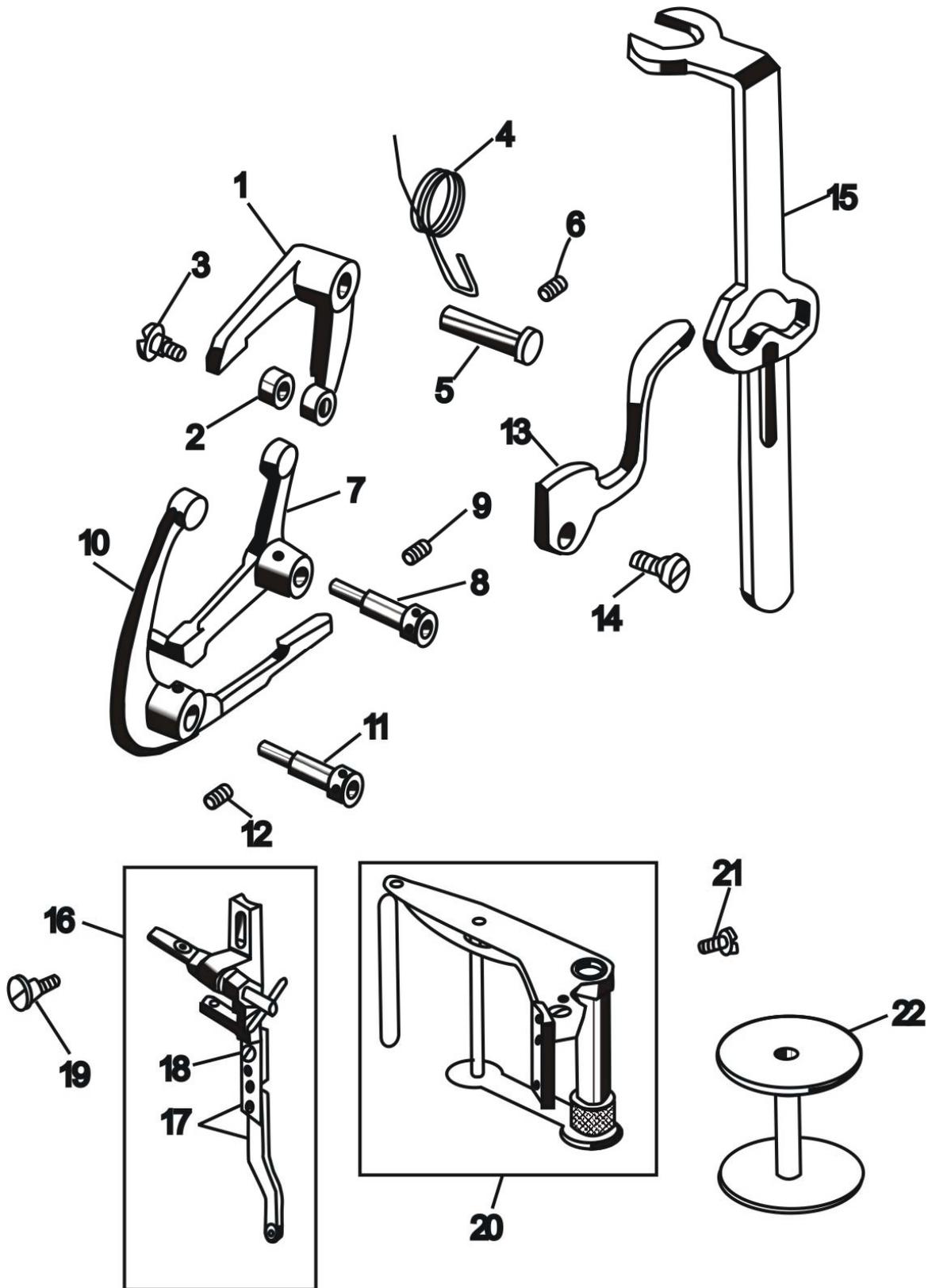
| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|--|
| P5-1 | 8472 | ARM HEAD |
| P5-2 | 8020 | ARM HEAD SCREW (UPPER) (LONG) |
| P5-3 | 8021 | ARM HEAD SCREW (UPPER) (SHORT) |
| P5-4 | 8022 | ARM HEAD SCREW (LOWER) |
| P5-5 | 8150 | ARM HEAD POSITION PIN |
| P5-6 | 8145 | ARM HEAD POSITION PIN |
| P5-7 | S-8462 | SPOOL CARRIER DRIVING GEAR GUIDE WITH REF. NO.8 |
| P5-8 | 11152 | SPOOL CARRIER DRIVING GEAR GUIDE SCREW |
| P5-9 | 4031 | SPOOL CARRIER DRIVING GEAR GUIDE SET SCREW |
| P5-10 | 8474 | SPOOL CARRIER DRIVING GEAR COVER BRACKET |
| P5-11 | 4015 | SPOOL CARRIER DRIVING GEAR COVER BRACKET SET SCREW |
| P5-12 | 8452-A | NIPPLE CARRIER SLEEVE WITH SCREWS |
| P5-13 | 8465 | NIPPLE CARRIER SLEEVE BUSHING |
| P5-14 | 8464 | SPOOL CARRIER DRIVING GEAR |
| P5-15 | 8461 | SPOOL CARRIER DRIVING IDLER GEAR |
| P5-16 | 8475-C | SPOOL CARRIER DRIVING IDLER GEAR STUD |
| P5-17 | 2553-A | SPOOL CARRIER DRIVING IDLER GEAR STUD SET SCREW |
| P5-18 | 8463 | SPOOL CARRIER IDLER GEAR SUPPORTING BLOCK |
| P5-19 | 113-A | SPOOL CARRIER IDLER GEAR SUPPORTING BLOCK SET SCREW |
| P5-20 | 8320-A | NIPPLE HOLDER |
| P5-21 | 8339 | NIPPLE HOLDER SET SCREW |
| P5-22 | 8498-A-3 | NIPPLE (FOR BRAIDING) |
| P5-23 | 8335 | NIPPLE SET SCREW |
| P5-24 | 8510-AA | NEEDLE BAR |
| P5-25 | 8027-3 | NEEDLE (137*1 #3) |
| P5-26 | 8449 | ARM HEAD SLEEVE |
| P5-27 | 831 | NEEDLE BAR GUIDE BLOCK & COLLAR WITH REF. NOS. 28-29 |
| P5-28 | 8477 | NEEDLE BAR GUIDE BLOCK SET SCREW (LARGE) |
| P5-29 | 8476 | NEEDLE BAR GUIDE BLOCK SET SCREW (SMALL) |
| P5-30 | 8308 | ARM HEAD SLEEVE CAP |
| P5-31 | 5176-A | ARM HEAD SLEEVE CAP SCREW |
| P5-32 | 8030 | ARM HEAD SLEEVE GEAR |
| P5-33 | 129-B | ARM HEAD SLEEVE GEAR SET SCREW |
| P5-34 | S-8456 | FEED ROTATING SHAFT & GEAR |
| P5-35 | 8311 | FEED SLIDE BLOCK |
| P5-36 | 8312 | FEED LEVER |
| P5-37 | 8314 | FEED LEVER HINGE PIN |
| P5-38 | 8313 | FEED LEVER BRACKET |
| P5-39 | 124 | FEED LEVER BRACKET SET SCREW |
| P5-40 | 8335 | FEED LEVER BRACKET SET SCREW |
| P5-41 | 8037 | FEED RECOVERING SPRING (RIGHT) |
| P5-42 | 8036 | FEED RECOVERING SPRING (LEFT) |
| P5-43 | 8038 | FEED RECOVERING SPRING SCREW |

7. ARM HEAD PARTS COMPONENTS (NO.2)



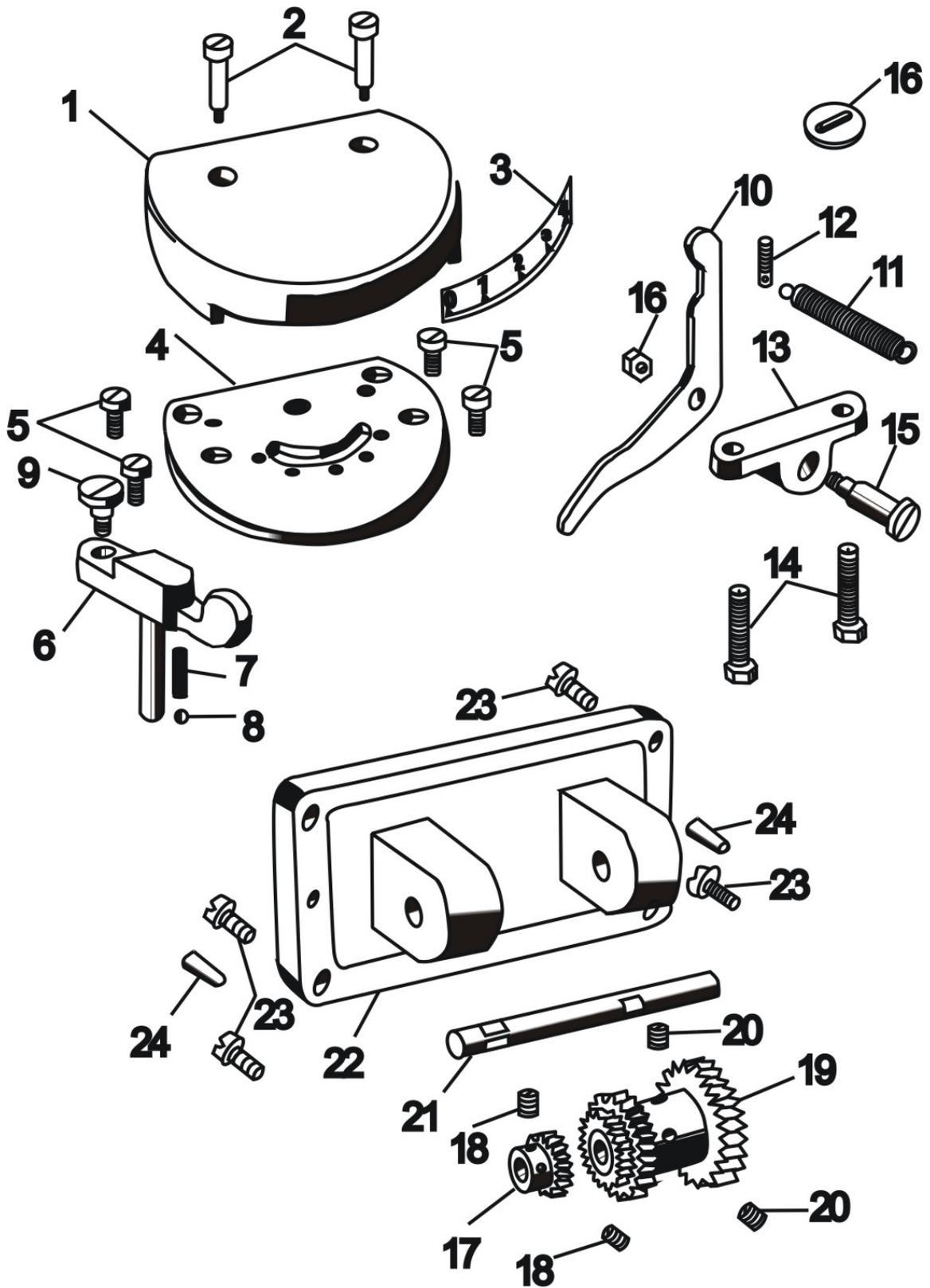
| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|--|
| P7-1 | 8067 | PRESSER FOOT SLIDE BAR THUMB SCREW |
| P7-2 | 8161 | PRESSER FOOT SLIDE BAR THUMB SCREW NUT |
| P7-3 | 8065 | PRESSER FOOT SLIDE BAR SPRING |
| P7-4 | 8066 | PRESSER FOOT SLIDE BAR SPRING PLUNGER |
| P7-5 | 8322-A | PRESSER FOOT SLIDE BAR |
| P7-6 | 8139 | PRESSER FOOT SLIDE BAR ADJUSTING SCREW |
| P7-7 | 8063 | PRESSER FOOT SLIDE BAR GUIDE |
| P7-8 | 8138 | PRESSER FOOT SLIDE BAR GUIDE SET SCREW |
| P7-9 | 8064 | PRESSER FOOT SLIDE BAR SPRING STOP |
| P7-10 | 8140 | PRESSER FOOT SLIDE BAR SPRING STOP SCREW |
| P7-11 | 8069-A | PRESSER FOOT LEVER SWIVEL |
| P7-12 | 8188 | PRESSER FOOT LEVER SWIVEL STOP SCREW |
| P7-13 | 8070-A | PRESSER FOOT LEVER SWIVEL HINGE SCREW |
| P7-14 | S-8453 | PRESSER FOOT LEVER |
| P7-15 | 8072 | PRESSER FOOT CLAMP |
| P7-16 | 8481-A | PRESSER FOOT CLAMP THUMB SCREW |
| P7-17 | 8454-A | PRESSER FOOT |
| P7-18 | 8073-B | PRESSER FOOT SHOE (RUBBER) |
| P7-19 | 8315 | FEED LEVER BRACKET GUIDE |
| P7-20 | 8316 | FEED LEVER BRACKET GUIDE CAP |
| P7-21 | 8136 | FEED LEVER BRACKET GUIDE CAP SCREW |
| P7-22 | 8310-A | FEED SLIDE BAR |
| P7-23 | 8428 | FEED SLIDE BAR BLOCK |
| P7-24 | 4173 | FEED SLIDE BAR BLOCK SET SCREW |
| P7-25 | 8317 | NIPPLE CARRIER |
| P7-26 | 8051 | NIPPLE CARRIER LIFTING SCREW STUD |
| P7-27 | 8055 | NIPPLE CARRIER GUIDE |
| P7-28 | 8182 | NIPPLE CARRIER GUIDE SCREW |
| P7-29 | 8054 | NIPPLE CARRIER THUMB SCREW |
| P7-30 | 8160 | NIPPLE CARRIER THUMB SCREW NUT |
| P7-31 | 8052 | NIPPLE CARRIER SPRING |
| P7-32 | 8053 | NIPPLE CARRIER EXTENSION |
| P7-33 | 8047 | FEED REGULATING SCREW |
| P7-34 | 8048 | FEED REGULATING SCREW LOCK LEVER NUT |

9. ARM HEAD PARTS (NO.3), BRAID LEADER & SPOOL CARRIER COMPONENTS



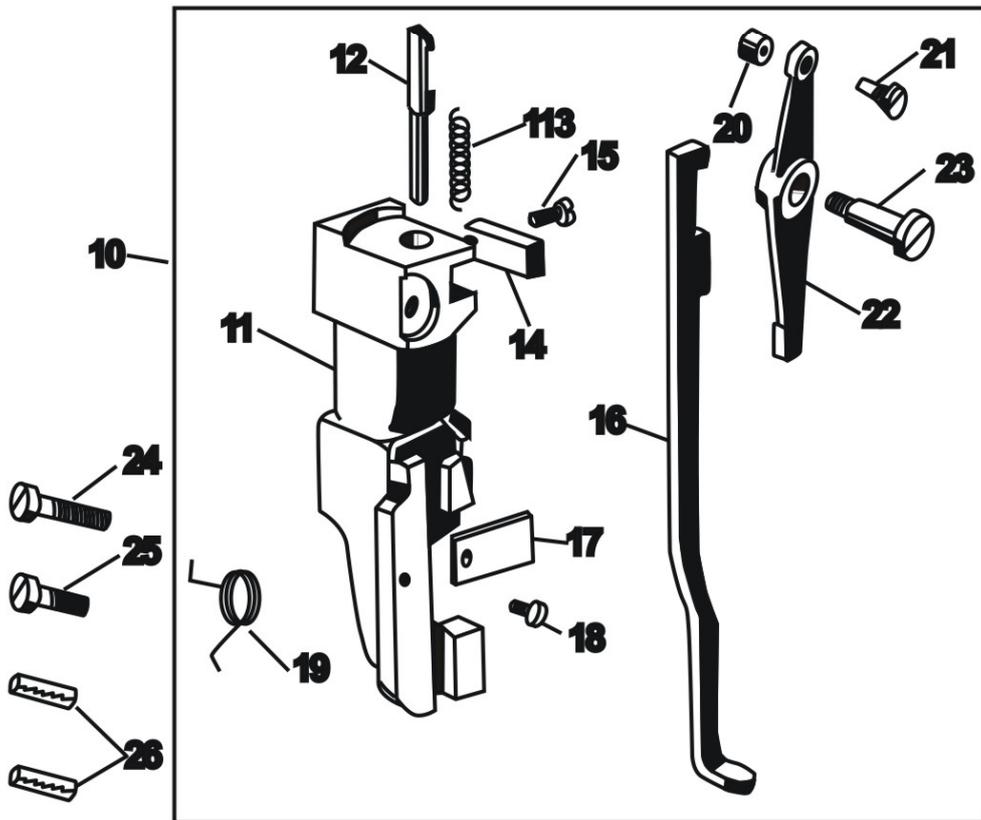
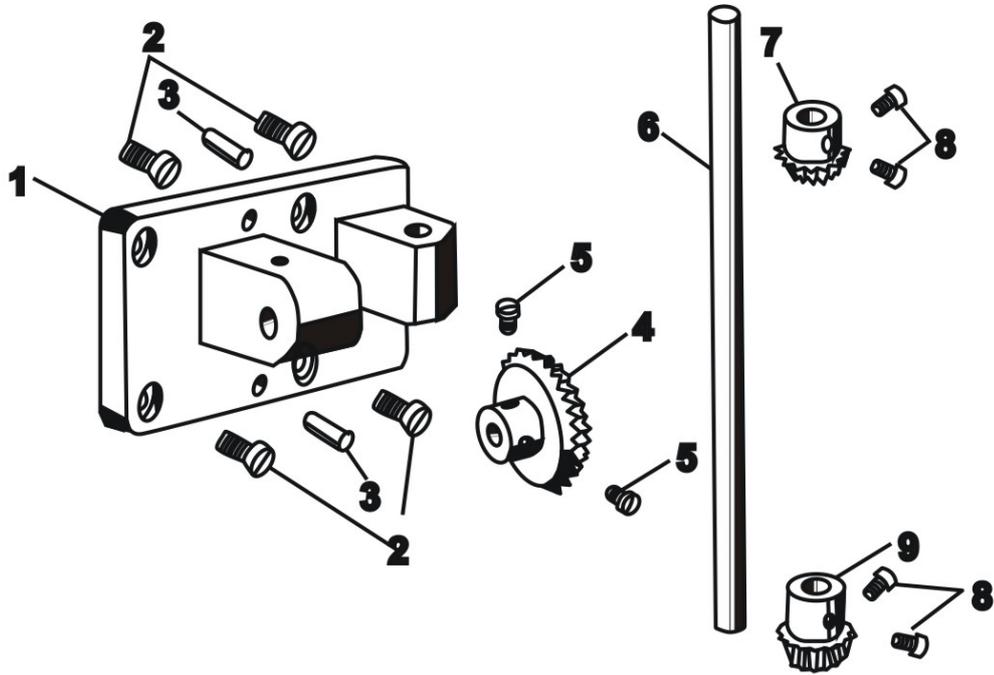
| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|--|
| P9-1 | 8042 | FEED BELL CRANK |
| P9-2 | 8044 | FEED BELL CRANK ROLLER |
| P9-3 | 8045 | FEED BELL CRANK ROLLER SCREW |
| P9-4 | 8046 | FEED BELL CRANK SPRING |
| P9-5 | 8043 | FEED BELL CRANK HINGE STUD |
| P9-6 | 5225-C | FEED BELL CRANK HINGE STUD SET SCREW |
| P9-7 | 8057 | NIPPLE CARRIER BELL CRANK |
| P9-8 | 8455 | NIPPLE CARRIER BELL CRANK HINGE STUD |
| P9-9 | 5225-C | NIPPLE CARRIER BELL CRANK HINGE STUD SET SCREW |
| P9-10 | 8059 | PRESSER FOOT SLIDE BELL CRANK |
| P9-11 | 8455 | PRESSER FOOT SLIDE BELL CRANK HINGE STUD |
| P9-12 | 5225-C | PRESSER FOOT SLIDE BELL CRANK HINGE STUD SET SCREW |
| P9-13 | 8060-A | PRESSER FOOT LIFTER |
| P9-14 | 8061 | PRESSER FOOT LIFTER HINGE SCREW |
| P9-15 | 8304 | NEEDLE BAR OPERATING SLIDE |
| P9-16 | 827 | BRAID LEADER ASSEMBLY WITH REF. NOS.17-18 |
| P9-17 | 827-1 | BRAID LEADER GUIDE |
| P9-18 | 4185 | BRAID LEADER GUIDE SET SCREW |
| P9-19 | 8484 | BRAID LEADER THUMB SCREW |
| P9-20 | 826 | SPOOL CARRIER ASSEMBLY |
| P9-21 | 124 | SPOOL CARRIER SET SCREW |
| P9-22 | 8467 | BRAID SPOOL (METAL) |

11. GEAR CHANGE LEVER, SPOOL CARRIER DISENGAGING LEVER & INTERMEDIATE GEAR PARTS COMPONENTS



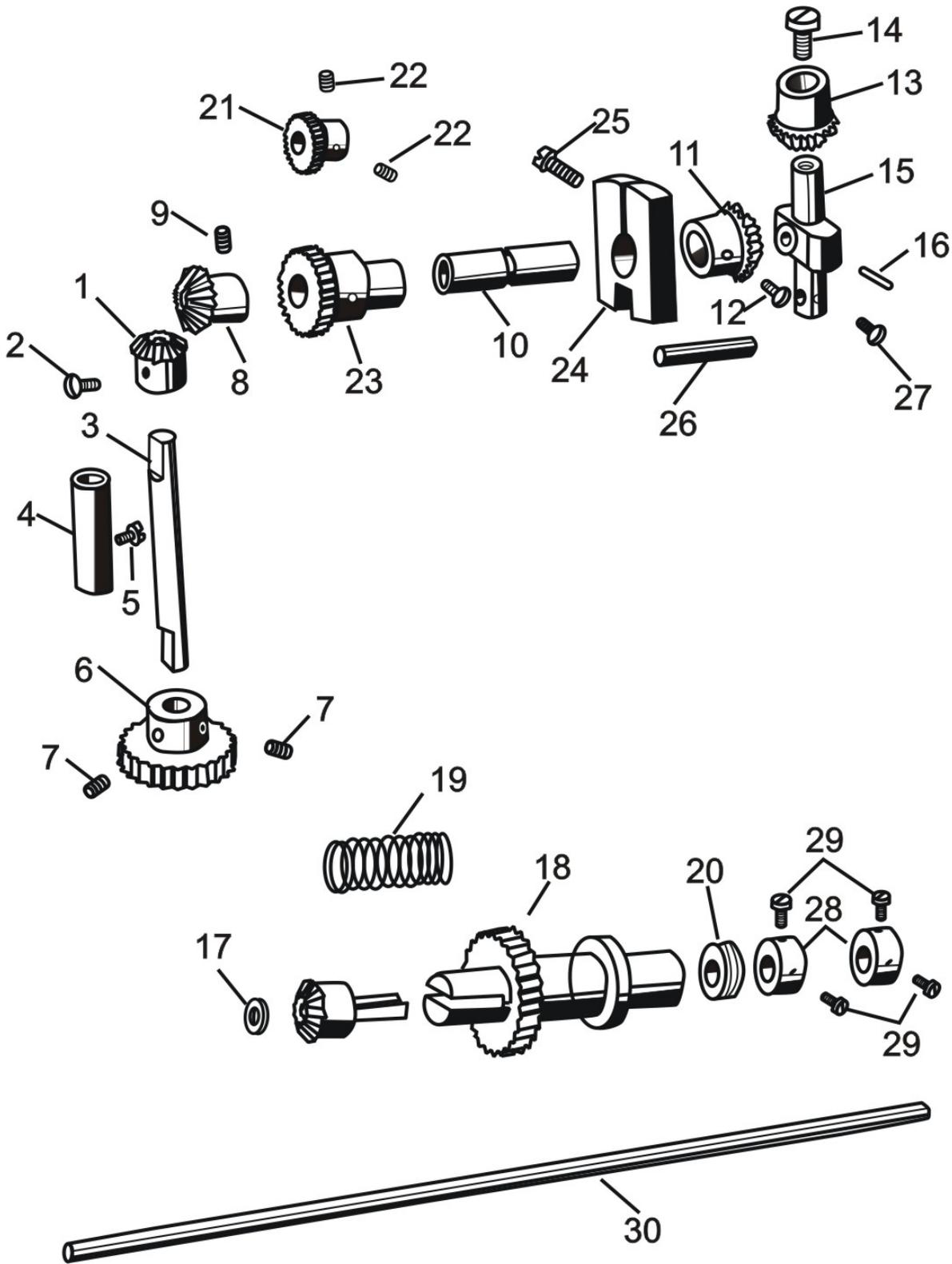
| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|---|
| P11-1 | 8439 | GEAR CHANGE LEVER COVER |
| P11-2 | 8440 | GEAR CHANGE LEVER COVER SET SCREW |
| P11-3 | 8441 | GEAR CHANGE GRADUATED PLATE |
| P11-4 | 8435 | GEAR CHANGE LEVER BASE |
| P11-5 | 113-B | GEAR CHANGE LEVER BASE SET SCREW |
| P11-6 | 8437-1 | GEAR CHANGE LEVER |
| P11-7 | 8437-2 | GEAR CHANGE LEVER SPRING |
| P11-8 | 8437-3 | GEAR CHANGE LEVER BALL |
| P11-9 | 8438 | GEAR CHANGE LEVER SET SCREW |
| P11-10 | 8490 | SPOOL CARRIER DISENGAGING LEVER |
| P11-11 | 5162-B | SPOOL CARRIER DISENGAGING LEVER SPRING |
| P11-12 | 4105 | SPOOL CARRIER DISENGAGING LEVER SPRING SCREW |
| P11-13 | 8488 | SPOOL CARRIER DISENGAGING LEVER BRACKET |
| P11-14 | 8491 | SPOOL CARRIER DISENGAGING LEVER BRACKET SET SCREW |
| P11-15 | 8489 | SPOOL CARRIER DISENGAGING LEVER STUD |
| P11-16 | 5207 | SPOOL CARRIER DISENGAGING LEVER STUD NUT |
| P11-16' | 8514 | SPOOL CARRIER DISENGAGING LEVER COVER |
| P11-17 | 8416 | INTERMEDIATE GEAR (NO.1) |
| P11-18 | 129-B | INTERMEDIATE GEAR SET SCREW |
| P11-19 | S-8417 | INTERMEDIATE GEAR ASSEMBLY (NO. 2-4) |
| P11-20 | 129-A | INTERMEDIATE GEAR SET SCREW |
| P11-21 | 8415 | INTERMEDIATE GEAR SHAFT |
| P11-22 | 8414 | INTERMEDIATE GEAR BRACKET |
| P11-23 | 114-B | INTERMEDIATE GEAR BRACKET SET SCREW |
| P11-24 | 8146 | INTERMEDIATE GEAR BRACKET POSITION PIN |

13. FEED ROTATING GEAR & STOP BRACKET PARTS COMPONENTS



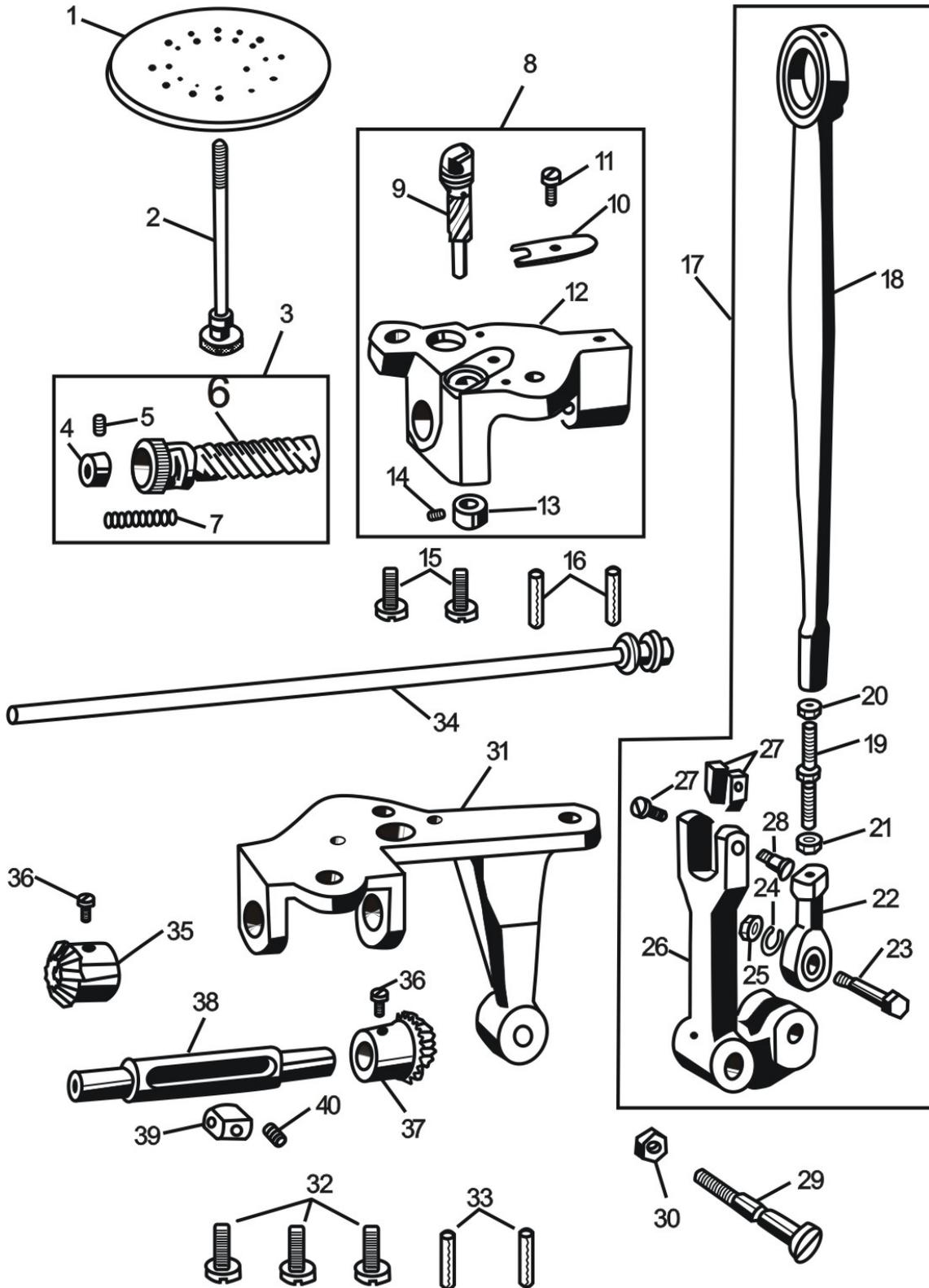
| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|--|
| P13-1 | 8424 | FEED ROTATING SHAFT BRACKET |
| P13-2 | 113-A | FEED ROTATING SHAFT BRACKET SET SCREW |
| P13-3 | 8146 | FEED ROTATING SHAFT BRACKET POSITION PIN |
| P13-4 | 8423-A | FEED ROTATING GEAR (REAR) |
| P13-5 | 8142 | FEED ROTATING GEAR SET SCREW |
| P13-6 | 8420 | STITCH ROTATING SHAFT |
| P13-7 | 8422-A | STITCH ROTATING GEAR (UPPER) |
| P13-8 | 8142 | STITCH ROTATING GEAR SET SCREW |
| P13-9 | 8112-B | STITCH ROTATING GEAR (LOWER) |
| P13-10 | 821 | STOP BRACKET ASSEMBLY (REF. NOS.11-23) |
| P13-11 | 8442 | STOP BRACKET |
| P13-12 | 8079 | STOP BRACKET INTERLOCKING ROD |
| P13-13 | 8486 | STOP BRACKET INTERLOCKING ROD SPRING |
| P13-14 | 8081 | STOP BRACKET INTERLOCKING STOP BLOCK |
| P13-15 | 121 | STOP BRACKET INTERLOCKING STOP BLOCK SCREW |
| P13-16 | 8443 | STARTING TRIP LEVER SLIDE |
| P13-17 | 8083 | STARTING TRIP LEVER SLIDE CAP |
| P13-18 | 124 | STARTING TRIP LEVER SLIDE CAP SCREW |
| P13-19 | 8084 | STARTING TRIP LEVER SLIDE SPRING |
| P13-20 | 8077 | STOP CAM ROLLER |
| P13-21 | 8078 | STOP CAM ROLLER SCREW STUD |
| P13-22 | 8075 | STOP CAM ROCKING LEVER |
| P13-23 | 8076 | STOP CAM ROCKING LEVER HINGE SCREW |
| P13-24 | 8473 | STOP BRACKET SET SCREW (LONG) |
| P13-25 | 8172 | STOP BRACKET SCREW (SHORT) |
| P13-26 | 8159 | STOP BRACKET POSITION PIN |

15. FEED ROTATING SHAFT MECHANISM COMPONENTS



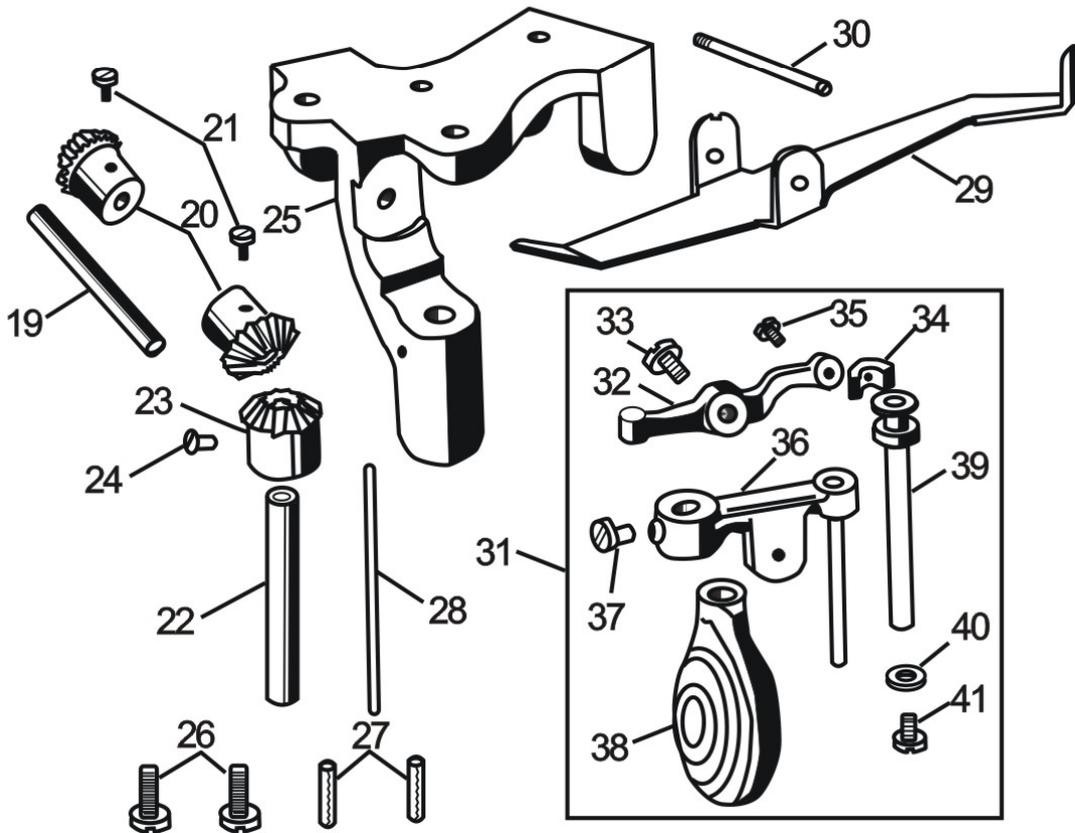
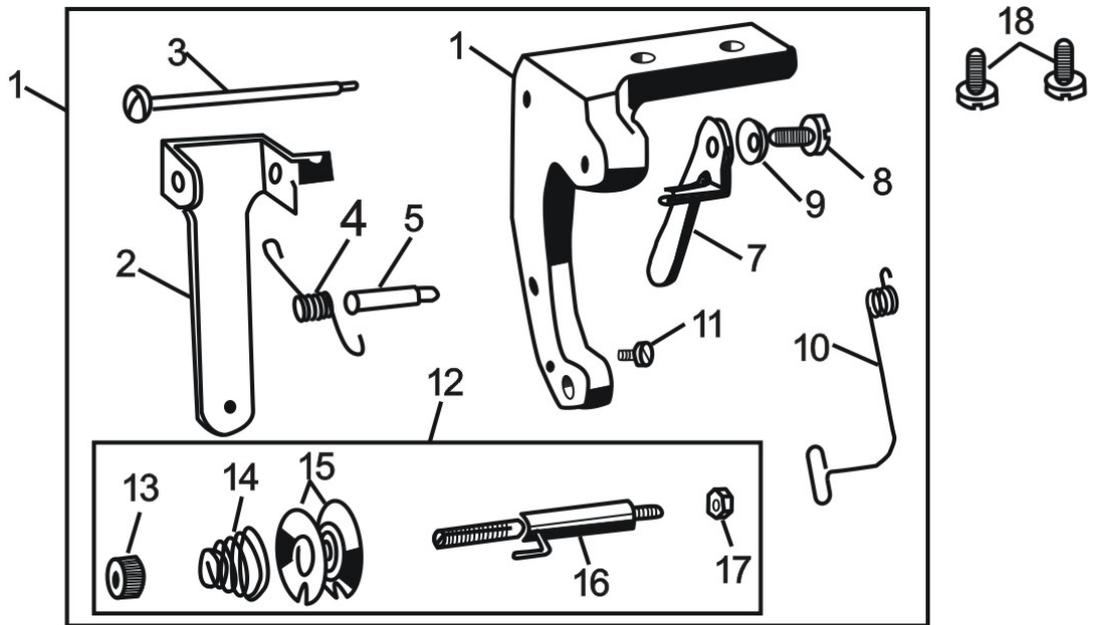
| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|---|
| P15-1 | 8110-A | SPOOL CARRIER GEAR DRIVING BEVEL GEAR |
| P15-2 | 8142 | SPOOL CARRIER GEAR DRIVING BEVEL GEAR SET SCREW |
| P15-3 | 8458 | SPOOL CARRIER GEAR DRIVING GEAR SHAFT |
| P15-4 | 8459 | SPOOL CARRIER GEAR DRIVING GEAR SHAFT BUSHING |
| P15-5 | 4078 | SPOOL CARRIER GEAR DRIVING GEAR SHAFT BUSHING SET SCREW |
| P15-6 | 8460 | SPOOL CARRIER GEAR DRIVING GEAR |
| P15-7 | 129-A | SPOOL CARRIER GEAR DRIVING GEAR SET SCREW |
| P15-8 | 8097-A | SPOOL CARRIER GEAR DRIVING BEVEL GEAR |
| P15-9 | 129-B | SPOOL CARRIER GEAR DRIVING BEVEL GEAR SET SCREW |
| P15-10 | 8457 | SPOOL CARRIER GEAR DRIVING BEVEL GEAR SLEEVE |
| P15-11 | 8097 | SPOOL CARRIER GEAR DRIVING BEVEL GEAR |
| P15-12 | 8142 | SPOOL CARRIER GEAR DRIVING BEVEL GEAR SET SCREW |
| P15-13 | 8427 | SPOOL CARRIER GEAR DRIVING BEVEL GEAR |
| P15-14 | 8496 | SPOOL CARRIER GEAR DRIVING BEVEL GEAR SET SCREW |
| P15-15 | 8429 | SPOOL CARRIER GEAR DRIVING BEVEL GEAR BRACKET |
| P15-16 | 8146 | SPOOL CARRIER GEAR DRIVING BEVEL GEAR BRACKET TAPER PIN |
| P15-17 | 8495 | SPOOL CARRIER GEAR DRIVING BEVEL GEAR BRACKET WASHER |
| P15-18 | S-8425 | SPOOL CARRIER GEAR DRIVING SLEEVE GEAR ASSEMBLY |
| P15-19 | 8492-T | SPOOL CARRIER GEAR DRIVING SLEEVE GEAR SPRING |
| P15-20 | 8504 | SPOOL CARRIER GEAR DRIVING SLEEVE GEAR THRUST BEARING |
| P15-21 | 8433 | FEED ROTATING SHAFT GEAR (SMALL) |
| P15-22 | 129-B | FEED ROTATING SHAFT GEAR SET SCREW |
| P15-23 | 8432 | FEED ROTATING SHAFT GEAR (LARGE) |
| P15-24 | 8431 | FEED ROTATING SHAFT BLOCK |
| P15-25 | 8479 | FEED ROTATING SHAFT BLOCK SET SCREW |
| P15-26 | 8430 | FEED ROTATING SHAFT BLOCK PIN |
| P15-27 | 5262 | FEED ROTATING SHFAT BLOCK PIN SET SCREW |
| P15-28 | 10017-A | FEED ROTATING SHAFT COLLAR |
| P15-29 | 8142 | FEED ROTATING SHAFT COLLAR SET SCREW |
| P15-30 | 8421 | FEED ROTATING SHAFT |

17. LOOPER OPERATING MECHANISM COMPONENTS



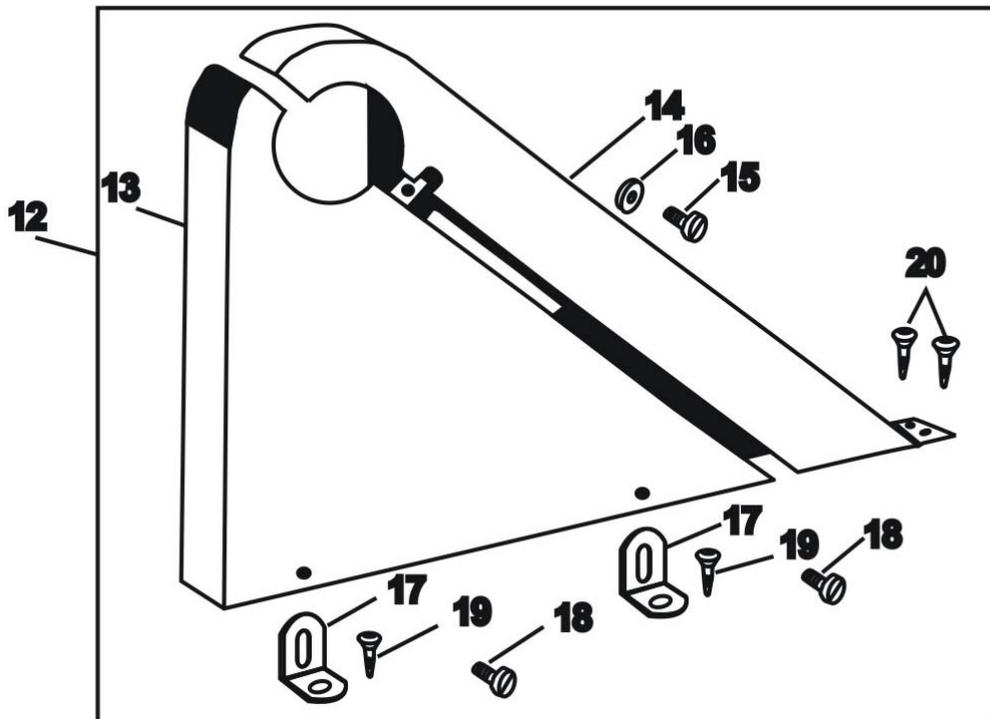
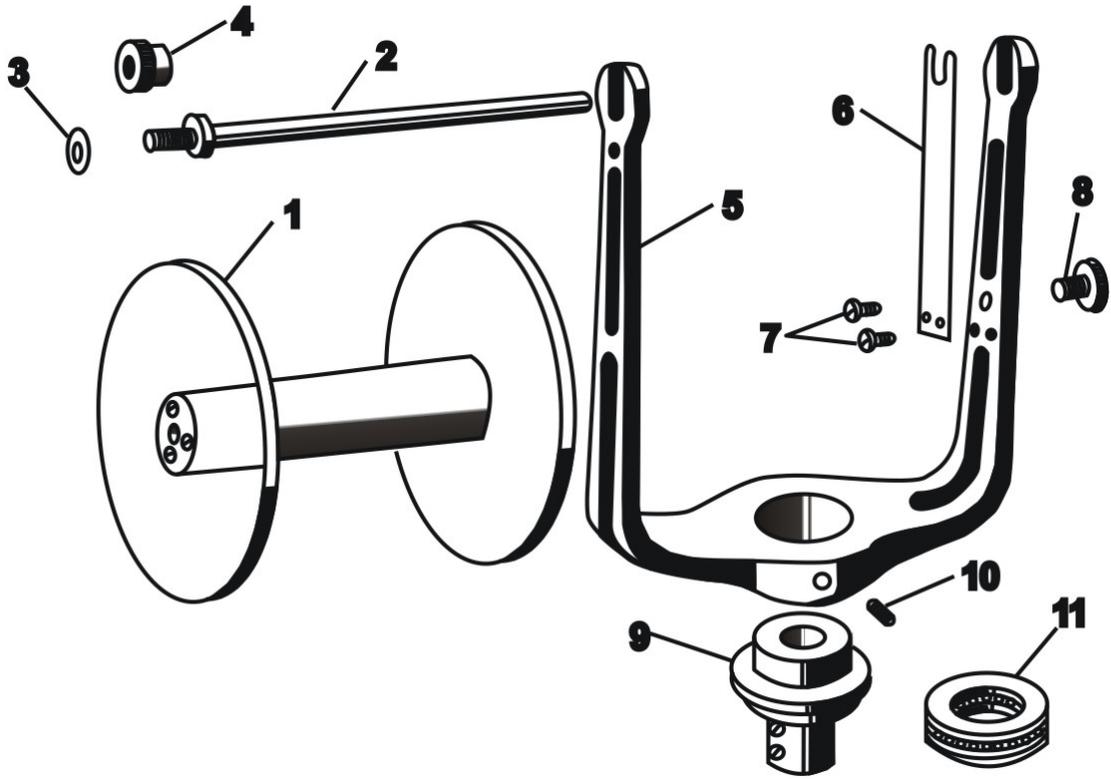
| | | |
|--------|--------|--|
| P17-12 | 8099 | LOOPER BRACKET |
| P17-13 | 8152 | LOOPER COLLAR |
| P17-14 | 129-B | LOOPER COLLAR SET SCREW |
| P17-15 | 8158 | LOOPER BRACKET SET SCREW |
| P17-16 | 8150 | LOOPER BRACKET POSITION PIN |
| P17-17 | 822 | LOOPER OPERATING CONNECTION ASSEMBLY (REF. NOS. 18-28) |
| P17-18 | S-8444 | LOOPER OPERATING CONNECTION |
| P17-19 | 8174 | LOOPER OPERATING CONNECTION JOINT PITMAN |
| P17-20 | 8175 | LOOPER OPERATING CONNECTION JOINT PITMAN NUT (UPPER) |
| P17-21 | 8176 | LOOPER OPERATING CONNECTION JOINT PITMAN NUT (LOWER) |
| P17-22 | 8177 | LOOPER OPERATING CONNECTION JOINT |
| P17-23 | 8178 | LOOPER OPERATING CONNECTION JOINT HINGE STUD |
| P17-24 | 8179 | LOOPER OPERATING CONNECTION JOINT HINGE STUD |
| | | SPRING WASHER |
| P17-25 | 5207 | LOOPER OPERATING CONNECTION JOINT HINGE STUD NUT |
| P17-26 | 8089-A | LOOPER OPERATING BELL CRANK |
| P17-27 | 8092 | LOOPER OPERATING BELL CRANK HINGE BLOCK |
| P17-28 | 8093 | LOOPER OPERATING BELL CRANK HINGE BLOCK SCREW |
| P17-29 | 8090 | LOOPER OPERATING BELL CRANK HINGE SCREW |
| P17-30 | 8091 | LOOPER OPERATING BELL CRANK HINGE SCREW NUT |
| P17-31 | 8088 | LOOPER OPERATING BELL CRANK BRACKET |
| P17-32 | 8143 | LOOPER OPERATING BELL CRANK BRACKET SET SCREW |
| P17-33 | 8149 | LOOPER OPERATING BELL CRANK BRACKET POSITION PIN |
| P17-34 | 8094 | LOOPER OPERATING SHAFT |
| P17-35 | 8097-A | LOOPER OPERATING SHAFT BEVEL GEAR (LEFT) |
| P17-36 | 8142 | LOOPER OPERATING SHAFT BEVEL GEAR SET SCREW |
| P17-37 | 8096-A | LOOPER OPERATING SHAFT BEVEL GEAR (RIGHT) |
| P17-38 | 8095-B | LOOPER OPERATING SHAFT SLEEVE |
| P17-39 | 8098-B | LOOPER OPERATING SHAFT GUIDE BLOCK |
| P17-40 | 129-B | LOOPER OPERATING SHAFT GUIDE BLOCK SET SCREW |

19. TENSION REGULATING PARTS & STITCH ROTATING HAND LEVER PARTS COMPONENTS



| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|--|
| P19-1 | 811 | TENSION BRACKET ASSEMBLY (REF. NOS. 2-17) |
| P19-2 | 8127 | TENSION REGULATING PLATE |
| P19-3 | 8128 | TENSION REGULATING PLATE HINGE SCREW |
| P19-4 | 8129-A | TENSION REGULATING SPRING |
| P19-5 | 8130-A | TENSION REGULATING SPRING SCREW STUD |
| P19-6 | 8125 | TENSION BRACKET |
| P19-7 | 8131 | TENSION REGULATING LEVER |
| P19-8 | 8132-A | TENSION REGULATING LEVER HINGE SCREW |
| P19-9 | 4140-A | TENSION REGULATING LEVER HINGE SCREW SPRING WASHER |
| P19-10 | 8133-A | THREAD CONTROLLER SPRING |
| P19-11 | 121 | THREAD CONTROLLER SPRING SCREW |
| P19-12 | 810 | TENSION ASSEMBLY (REF. NOS.13-17) |
| P19-13 | 81 | TENSION THUMB NUT |
| P19-14 | 5267-A | TENSION SPRING |
| P19-15 | 5190-A | TENSION DISC |
| P19-16 | 8164 | TENSION STUD |
| P19-17 | 8207 | TENSION STUD NUT |
| P19-18 | 8143 | TENSION BRACKET SET SCREW |
| P19-19 | 8117 | STITCH ROTATING GEAR BRACKET SHAFT (INTERMEDIATE) |
| P19-20 | 8110-A | STITCH ROTATING GEAR BRACKET SHAFT GEAR |
| P19-21 | 8142 | STITCH ROTATING GEAR BRACKET SHAFT GEAR SET SCREW |
| P19-22 | 8114-A | STITCH ROTATING HAND LEVER SHAFT |
| P19-23 | 8096-A | STITCH ROTATING HAND LEVER SHAFT GEAR |
| P19-24 | 8142 | STITCH ROTATING HAND LEVER SHAFT GEAR SET SCREW |
| P19-25 | 8113 | STITCH ROTATING GEAR BRACKET |
| P19-26 | 8143 | STITCH ROTATING GEAR BRACKET SET SCREW |
| P19-27 | 8149 | STITCH ROTATING GEAR BRACKET POSITION PIN |
| P19-28 | 8122 | STARTING TRIP LEVER ROD |
| P19-29 | 8123 | STARTING TRIP LEVER (INTERMEDIATE) |
| P19-30 | 8124 | STARTING TRIP LEVER HINGE SCREW |
| P19-31 | 808 | STITCH ROTATING HAND LEVER HANDLE ASSEMBLY (REF. NOS.31-40) |
| P19-32 | 8119 | STARTING TRIP LEVER |
| P19-33 | 8045 | STARTING TRIP LEVER HINGE SCREW |
| P19-34 | 8120 | STARTING TRIP LEVER BLOCK |
| P19-35 | 8121 | STARTING TRIP LEVER BLOCK SCREW STUD |
| P19-36 | S-8115-A | STITCH ROTATING HAND LEVER WITH PIN & SCREW |
| P19-37 | 5176-A | STITCH ROTATING HAND LEVER SET SCREW |
| P19-38 | 8118 | STITCH ROTATING HADN LEVER HANDLE |
| P19-39 | 8116 | STITCH ROTATING HAND LEVER HANDLE SLEEVE |
| P19-40 | 5070 | STITCH ROTATING HAND LEVER HANDLE SLEEVE WASHER |
| P19-41 | 8141 | STITCH ROTATING HAND LEVER HANDLE SLEEVE SCREW |

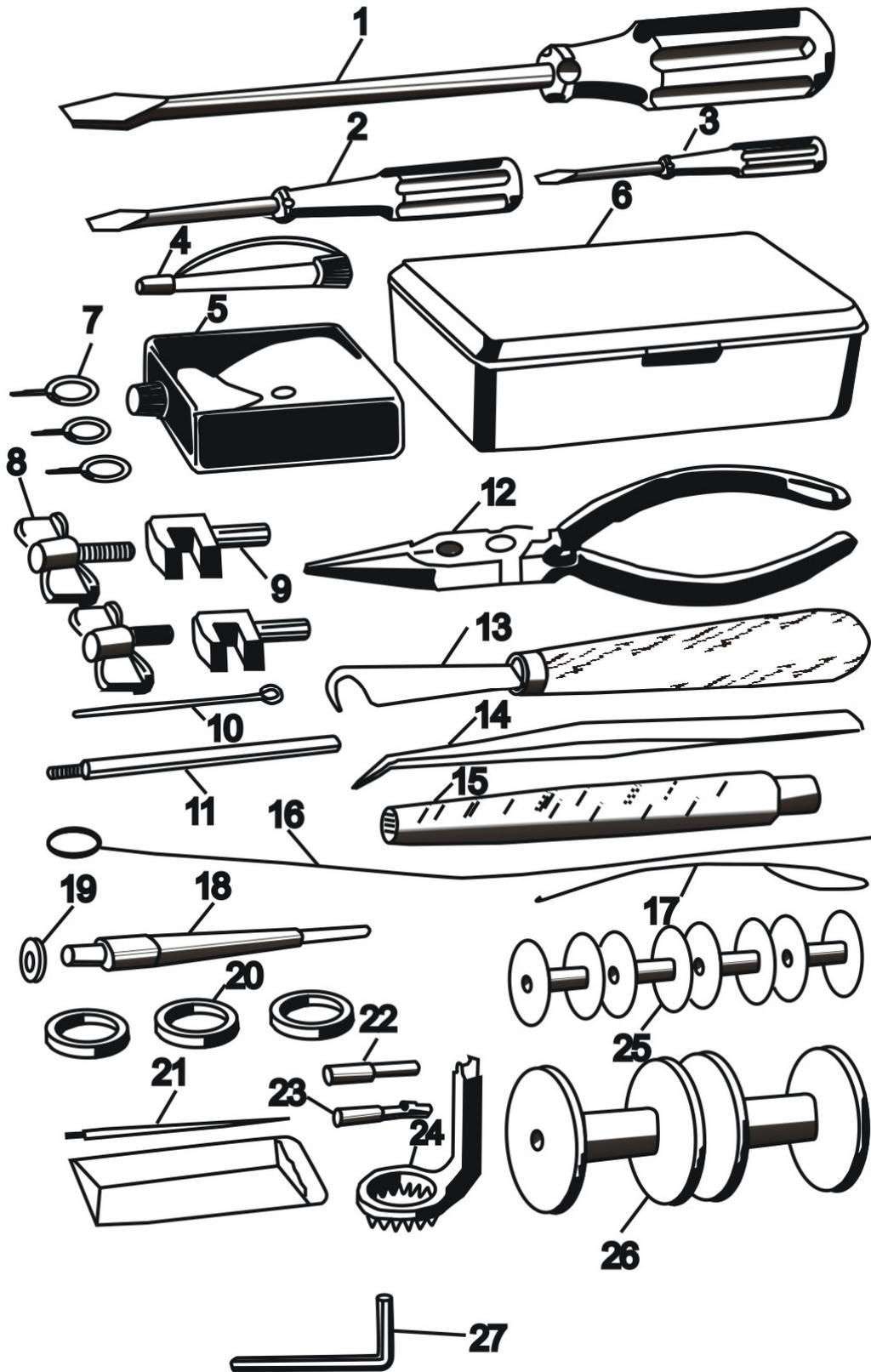
21. CORD SPOOL & BELT COVER COMPONENTS



| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|--|
| P21-1 | 8336 | CORD SPOOL |
| P21-2 | 8331 | CORD SPOOL SPINDLE |
| P21-3 | 7012-A | CORD SPOOL SPINDLE WASHER |
| P21-4 | 8332 | CORD SPOOL SPINDLE THUMB NUT |
| P21-5 | 8487 | CORD SPOOL BRACKET |
| P21-6 | 8329 | CORD SPOOL FRICTION SPRING |
| P21-7 | 8140 | CORD SPOOL FRICTION SPRING SCREW |
| P21-8 | 4356 | CORD SPOOL FRICTION SPRING ADJUSTING SCREW |
| P21-9 | 8448 | CORD SPOOL BRACKET SLEEVE WITH SCREWS |
| P21-10 | 98 | CORD SPOOL BRACKET SLEEVE SET SCREW |
| P21-11 | 8446 | CORD SPOOL BRACKET SLEEVE THRUST BEARING |
| ※ P21-12 | 830 | BELT COVER ASSEMBLY (REF. NOS.12-19) |
| ※ P21-13 | 8503-1 | BELT COVER (LEFT) |
| ※ P21-14 | 8503-2 | BELT COVER (RIGHT) |
| ※ P21-15 | 5276 | BELT COVER SET SCREW |
| ※ P21-16 | 8185 | BELT COVER WASHER |
| ※ P21-17 | 11554 | BELT COVER BRACKET |
| ※ P21-18 | 5233 | BELT COVER BRACKET SET SCREW |
| ※ P21-19 | 11557 | BELT COVER BRACKET WOOD SCREW |
| ※ P21-20 | 8184 | BELT COVER WOOD SCREW |

※ EXTRA ACCESSORIES

23. STANDARD ACCESSORIES



| REF. NO. | PARTS NO. | DESCRIPTION |
|----------|-----------|---------------------------------------|
| P23-1 | AC-01 | SCREW DRIVER (LARGE) |
| P23-2 | AC-02 | SCREW DRIVER (MEDIUM) |
| P23-3 | AC-03 | SCREW DRIVER (SMALL) |
| P23-4 | AC-04A | OILER |
| P23-5 | AC-05 | OIL |
| P23-6 | AC-08 | ACCESSORY BOX |
| P23-7 | 8166 | SCREW EYE |
| P23-8 | 8157 | BED CLAMPING THUMB SCREW |
| P23-9 | 8165 | MACHINE HINGE CONNECTION |
| P23-10 | 8493 | TOOL (FOR ADJUSTING HINGE STUD #8455) |
| P23-11 | 8126 | SPOOL SCREW STUD |
| P23-12 | 8171 | PLIERS |
| P23-13 | 8168 | THREAD KNIFE |
| P23-14 | 8170 | TWEEZERS |
| P23-15 | 8169 | MACHINE REST PIN (WOOD) |
| P23-16 | 8499 | CLEANING WIRE |
| P23-17 | 8156 | THREADER WIRE |
| P23-18 | 8497 | SPOOL WINDER SPINDLE |
| P23-19 | 5249 | SPOOL WINDER SPINDLE WASHER |
| P23-20 | 8073-B | PRESSER FOOT SHOE (RUBBER) |
| P23-21 | 8027-3 | NEEDLE (137*1 #3) |
| P23-22 | 8501-4 | NIPPLE (FOR CHAINSTITCHING) |
| P23-23 | 8321-4 | NIPPLE (FOR TAPE-ATTACHING) |
| P23-24 | 8505 | PRESSER FOOT (SPUR) |
| P23-25 | 8467 | BRAID SPOOL (METAL) |
| P23-26 | 8502 | SPOOL (WOOD) |
| P23-27 | AC-06 | WRENCH (3MM) |



web: www.consew.com