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Instruction Manual and Parts List

High Speed Straight Lockstitch Sewing Machine

1910/300



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Safety Instructions

1.1 Important Safety Instructions

Important

When using the machine, basic safety procedures must be followed. Read with attention all instructions before using the machine. When using it, understand that all basic safety instructions are not limited to the following items. Read all instructions, take care of this manual, and use it as reference when necessary.

- · Before running the machine, make sure all relevant safety specifications are adequate to specifications and technical standards in your country.
- The machine should not be run without its safety devices.
- The machine should only be operated by properly trained personnel.
- For your safety, goggles must be used while running the machine.
- Turn off or unplug the machine when the following situations arise:
 - · Passing the thread by the needle or replacing the bobbin or
 - · Replacing the needle, presser foot, throat plate, feed dog and sliding plate.
 - · When the machine is in maintenance.
 - When the operator is not running the machine.
- In case of lubricant oil contact with the eyes or skin, washed the surface with plenty of icy water with a generous amount of cold water. In case of ingestion, seek medical help immediately.
- Repair, fitting or maintenance should only be performed by properly trained personnel.

- Maintenance and repair on electric equipment should only be made by qualified personnel. If any electric device is damaged, the machine should be immediately stopped.
- Before starting the machine in full running, a test must be conducted to assure that machine and operator are able to perform the task.
- The machine should not be placed next to a sound source as an ultrasonic welding machine and other equipment.
- The machine should only be run with the proper electric cable and connectors, and also the adequate grounding.
- The machine should only be used to sew materials as indicated in its instructions manual, and indications of use should be followed.

Singer will not be held responsible for any damage caused by unauthorized changes in the product.

Safe Operation

- ↑ To avoid the risk of electric shock, do not open the motor wiring box and do not touch the components assembled inside the wiring box.
 - To avoid injuries do not run the machine without the belt cover or in case any other safety device is removed.
 - To avoid possible injuries keep fingers, head and clothes far from wheel, belt and motor when the machine is running. Nothing should be placed near those parts.
 - To avoid injuries never put your fingers next to the rotating hook and the thread take-up lever cover when the machine is running.
 - To avoid possible injuries be careful when putting down or lifting the machine head.
 - To avoid accident in case of a sudden start of the machine always turn it off when laying it down, or remove the belt cover and the belt.

- If you machine is equipped with a servomotor, it does not make noises while being driven. To avoid a possible accident caused by an unexpected start, be sure the machine is turned off.
- To avoid electrical shock, do not run the machine without proper grounding.
- To minimize the risk of accidents or damage in electric components caused by electric discharge turn the machine off before unplugging it.
 - Clean the machine periodically.



Product Description and Machine Specification

Description

High Speed Straight Lockstitch Sewing Machine



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Specification

Table 1 - Machine Specification

| Singer Model | Application | Maximum Speed [spm] | Stitch Length [mm] | Height of Presser Foot by hand / by knee [mm] | Needle Bar Stroke [mm] | Hook Type | Hook Origin | Needle Cat. | Lubrication | Lubrication Oil |
|-----------------|-----------------|---------------------------|--------------------------|--------------------------------------------------------|---------------------------------|--------------|------------------|-------------|--------------------------|--------------------|
| 191D-20 | Light to | | | | | | Standard | | | |
| 191D-20C | medium | 5,000 | 5.0 | 5.5/13.0 | 30.7 | Parentar. | Koban/ Hirose | 1955-01 #14 | | |
| 191D-30 | Medium to heavy | 10000 | | | 35.0 | Regular | Standard | | Fully | Singer "C" |
| 191D-30C | | 4,500 | 5.0 | 5.5/13.0 | | | Koban/ Hirose | 1955-01 #18 | Automatic Lubrication | type oil |
| 191D-70 | | | | | | | Standard | | | |
| 191D-70C | Heavy | 3,000 | 7.0 | 5.5/13.0 | 35.0 | Large | Koban/ Hirose | 1955-01 #21 | | |

Motor, Motor Pulley and V-Belt

Specifications

- 1/2 HP (400W) 2-pole (high speed) clutch motor
- M type v-belt

Table 2 - Machine Speed vs. Motor Pulley Diameter

| Ma | achine Speed [sp | m] | Motor Pulley I | Diameter [mm] |
|--------------|------------------|---------------|----------------|---------------|
| 91C-20 / 20C | 191C-30 / 30C | 191C-70 / 70C | 50 Hz | 60 Hz |
| 5,000 | * - | - | 125 | 105 |
| 4,500 | 4,500 | | 115 | 95 |
| | 4,000 | 4 4 I | 100 | 85 |
| 177 | 3,500 | | 90 | 75 |
| 140 | + | 3,000 | 75 | 65 |
| (57) | 7. | 2,500 | 65 | 55 |

Setup and Adjustment Instructions

Table Cut-Out Drawing

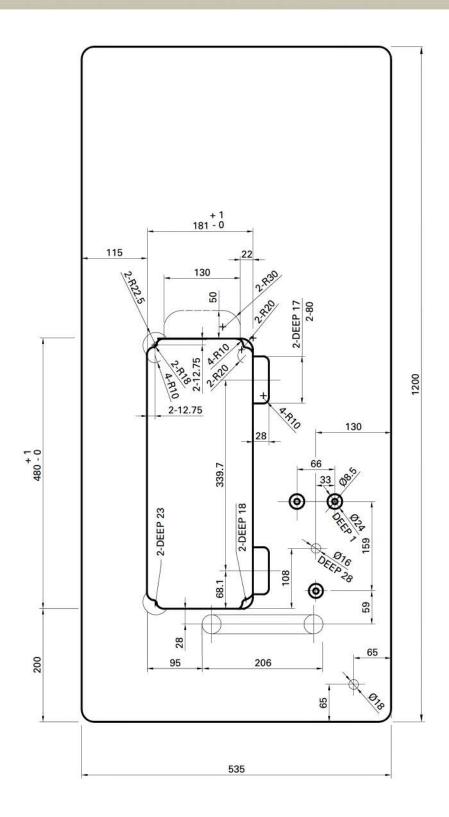
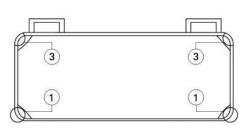


Figure 1

3.2 Oil Reservoir Installation

The oil reservoir should rest on the four corners of the machine table groove.

Two rubber seats '1' for supporting the head portion on the operator side 'A' are fixed on the extended portion of the table by using nail '2', and the other two rubber cushion '3' on the hinge side 'B' are attached by nail too. Then, the oil reservoir '4' is placed (Figures 2 and 3).



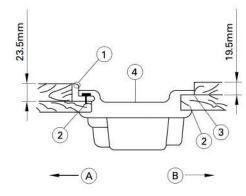


Figure 2

Figure 3

Two hinges '1' fit into the hole in the machine bed, and the machine head fitted the table hinge's rubber '2', before the machine head is placed to the cushions '3' on the four corners of the table (Figures 4 and 5).

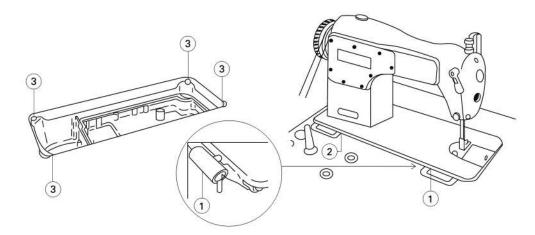


Figure 4

Figure 5

Belt Cover and **Bobbin Winder** Installation

Caution

For safety, the belt cover should be installed. The left and right parts of the bobbin winder should be parallel to the plate belt slot on the machine table. Drill four holes 'A', 'B', 'C' and 'D', in the machine table for screws (Figure 6).

Insert support '1' in the threaded hole in the housing.

Install the front belt cover '3' and get the hand wheel in the middle of the cover hole.

Install the back belt cover '2' at holes 'C', 'D'.

Fix the front belt cover '3' on the support with screws '4', '5' and

washers '6'. The tightening torque for the screw '4' is about 30 kgfxcm, and for the screw '5' is about 25 kgfxcm.

Move the back belt cover '2' backward, until its rubber touches the front belt cover '3', move it again for 0.5~1.0 mm and fix it with screws and washers.

Fix bobbin winder '7' at hole A', 'B' with screws and washers.

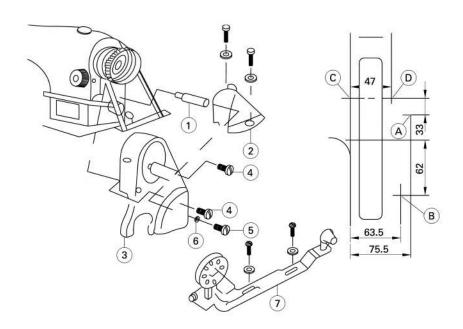


Figure 6

Lubrication

Precaution

When you first operate your machine after set up or after an extended period of disuse, run your machine at 2,000 to 2,500 spm for about 10 minutes for the purpose of bread-in.

Before turning the machine on, fill oil reservoir '1' with sewing machine oil up to 'MAX' mark 'A' (Figure 7).

When the oil level lowers below 'MIN' mark 'B', refill the oil reservoir with the specified oil.

When you operate the machine after lubrication, you will see splashing oil through oil sight window '2' if the lubrication is adequate.

Note that the amount of the splashing oil is unrelated to the amount of the lubricating oil.

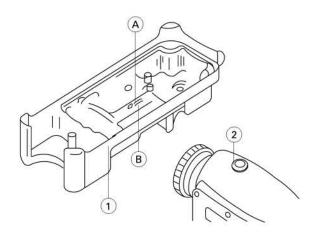


Figure 7

Thread Take-up Lever Oil Supply Adjustment Adjust the amount of oil supplied to the thread take-up and needle bar crank '2' by turning adjusting pin '1' (Figure 8).

The minimum amount of oil is reached when marker dot 'A' is brought close to needle bar crank '2' by turning the adjusting pin '1' in direction 'B'.

The maximum amount of oil is reached when marker dot 'A' is brought to the position just opposite from the needle bar crank by turning the adjusting pin '1' in direction 'C'.

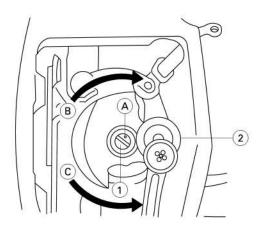


Figure 8

Rotating Hook Oil Supply Adjustment Unused machine should run idle for 3 minutes (Moderate intermittent operation).

The amount of oil confirmation paper must be inserted in the state when the machine is running (Figure 9).

Make sure the oil in the oil reservoir is within 'MAX' and 'MIN'.

The confirming time of the oil amount is 5 seconds (check the period of time with a watch).

(2) Place of oil amount confirming

(1) The amount of oil confirmation paper

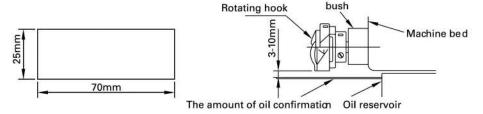


Figure 9

Sample showing the appropriate amount of oil (Figure 10)

The amount of oil can be adjusted according to the different sewing process but it must be a suitable amount. Otherwise the hook will

generate heat or the sewing material will be contaminated.

Use the amount of oil confirmation paper for three times to observe the amount of oil. Adjust the screw until the mark on the paper unchanged.

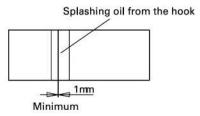
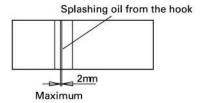


Figure 10



Adjusting the amount of oil supplied to the hook (Figure 11)

Turning the oil adjusting screw of the hook shaft bushing on bed toward '+' in direction 'A', the oil amount will be increased, and toward '-' in direction 'B', the oil amount will be decreased.

After adjustment the machine must be idling for thirty seconds. It can be confirmed the state of oil supplied.

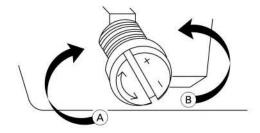


Figure 11

3.7 Needle Attachment

Caution

Choose a proper needle size according to the count of thread and the type of sewing material used. The power supply should be cut off before attaching the needle.

Turn the hand wheel until the needle bar reaches the highest point of its stroke (Figure 12).

Loosen screw '2' and hold needle '1' with its indented part 'A' facing exactly to the right in direction 'B'.

Insert the needle in the direction

of the arrow until it will go no further.

Tighten the screw '2'.

Make sure the long groove 'C' of the needle is facing exactly to the left in direction 'D'.

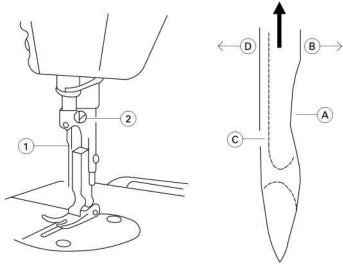


Figure 12

Bobbin Case Attachment Fix the bobbin into bobbin case with that the thread open end is directed to the left as observed from you.

Pass the thread through thread slit 'A', and pulls it in direction 'C'. By doing so, the thread will pass under the tension spring and come out from notch 'B' (Figure 13).

When pulling the thread 'C', the bobbin should rotate in the direction of the arrow.

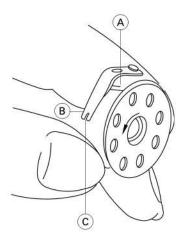


Figure 13

Machine Threading When threading the machine head, the needle bar should be at the highest point of its stroke.

Thread the machine in the order shown below. Leave thread approximately 4 cm long in the needle (Figure 14).

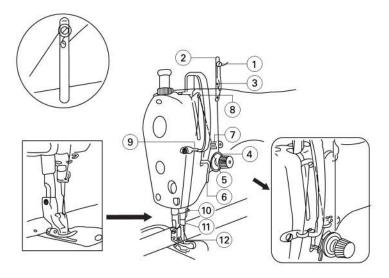


Figure 14

3.10 Stitch Length

Adjustment

Turn stitch length dial '1' in the direction of the arrow, and align the desired number to marker dot 'A' on the machine arm (Figure 15).

The indication of the dial is in millimeters.

When you want to decrease the stitch length, turn stitch length dial '1' while pressing feed reverse lever '2' in the direction of the arrow.

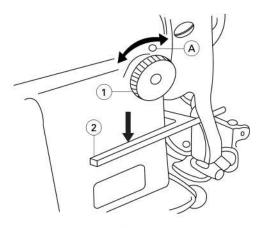


Figure 15

3.11

Thread Tension Adjustment

Adjusting needle thread tension (Figure 16)

Adjust the tension of needle thread using tension adjusting nut '1' according to different sewing conditions.

Turn the nut '1' clockwise (in direction 'A'), the tension will increase.

Turn the nut '1' counterclockwise (in direction 'B'), the tension will decrease.

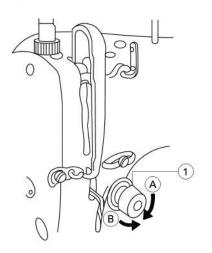


Figure 16

Adjusting the bobbin thread tension (Figure 17)

Turn the tension adjusting screw '2' clockwise (in direction 'C'), the bobbin thread tension will increase.

Turn the screw '2' counterclockwise (in direction 'D'), the bobbin thread tension will decrease.

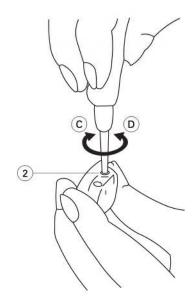


Figure 17

Thread Take-Up Spring Adjustment The adjustment of the stroke of the thread take-up spring (Figure 18)

Loosen setting screw '2'.

Turn the thread tension post '3' clockwise (in direction 'A'), the stroke of the thread take-up spring will be increased.

Turn the thread tension post '3' counter-clockwise (in direction 'B'), the stroke of the thread take-up spring will be decreased.

Adjusting the pressure of the thread take-up spring '1' (Figure 19)

Loosen setting screw '2' and take out thread tension assembly '5'.

Loosen setting screw '4' and turn the tension post '3'.

Turn the tension post '3' clockwise (in direction 'A'), the pressure of the spring will be increased.

Turn the tension post '3' counter clockwise (in direction 'B'), the pressure will be decreased.

- · Usually, the thread take-up spring '1' has been properly adjusted before leaving the factory.
- · Only when sewing special clothes or using special thread is readjustment necessary.

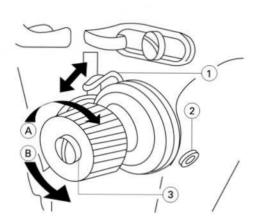


Figure 18

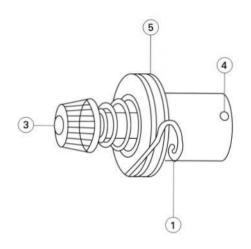


Figure 19

Knee Lifter Height Adjustment When using the knee lifter, the standard height of presser foot is 10 mm.

You can adjust the presser foot lift up to 13 mm by turning the knee lifter adjusting screw '1' (Figure 20).

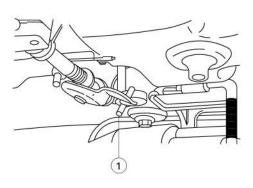


Figure 20

When the presser foot lifts to over 10 mm, be sure that the bottom end of the needle bar '2' in its lowest position does not hit the presser foot '3' (Figure 21).

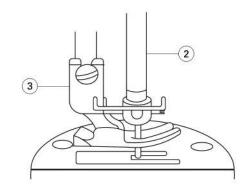


Figure 21

3.14 Presser Foot Lifter Adjustment

Turn the presser foot lifter '1' in direction 'A' to lift the presser foot (Figure 22).

The presser foot will go up about 5.5 mm and stop.

The presser foot will go back to its original position when the lifter is turned down in direction 'B' (Figure 23).

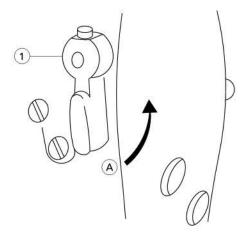


Figure 22

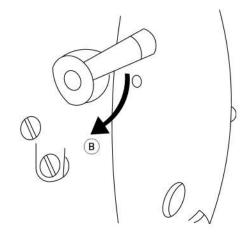


Figure 23

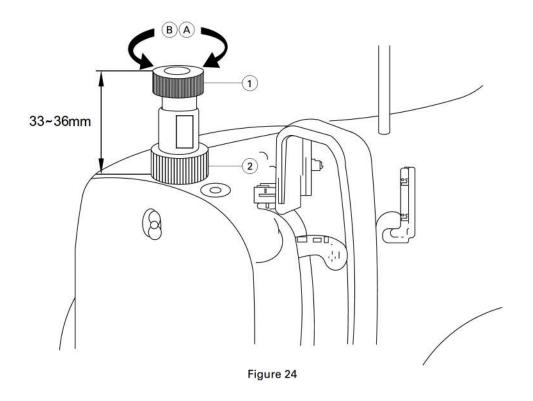
Presser Foot Pressure Adjustment

Loosen the nut '2', and turn the presser spring regulator '1' clockwise (in direction 'A'), the pressure of the presser foot will be increased (Figure 24).

Turn the regulator '1' counter clockwise (in direction 'B'), the pressure of the presser foot will be decreased.

Tighten nut '2'.

For general sewing of the fabrics, the standard height of the presser spring regulator '1' will be around 33~36 mm (5 kg).



3.16 Feed Timing Adjustment

Caution

If the feed eccentric cam is moved too far, the needle will be broken.

Loosen screws '2' and '3' in feed eccentric cam '1', move the feed eccentric cam '1' in the direction of the arrow or opposite direction of the arrow, and firmly tighten the screws '2' and '3' (Figure 25).

For the standard adjustment, adjust so that the top surface of feed dog and the top end of needle eyelet are flush with top surface of throat plate when the feed dog descends below the throat plate.

To advance the feed timing in order to prevent uneven material feed, move the feed eccentric cam in the direction of the arrow.

To delay the feed timing in order to increase stitch tightness, move the feed eccentric cam in the direction from the arrow.

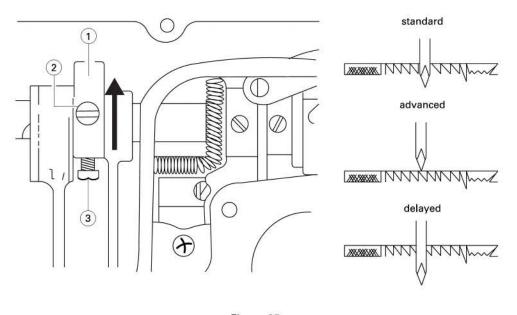


Figure 25

3.17 Feed Dog Height

Adjustment

When the feed dog 'A' is at its highest position, the teeth should be above the top surface of the throat plate 'B' as the below height for each machine variety (Figure 26).

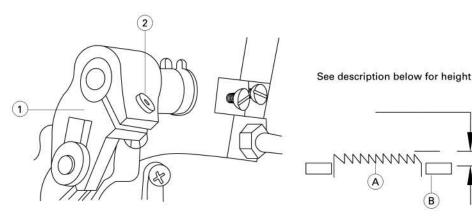
Loosen screw '2' of crank '1'.

Move the feed bar up or down to make a correct height.

Securely tighten screw '2'.

Caution

If the screw '2' is tightening too much, the crank '1' will be worn out.



191D-20 / 20C 0.70 ~ 0.80 mm 191D-30 / 30C 0.80 ~ 0.90 mm 191D-70 / 70C 1.15 ~1.25 mm

Figure 26

Needle to Rotating Hook Relation Adjustment

Precaution

If the clearance is too small, the rotating hook points will wear out, and too big, it will cause the skip stitch. When replacing the rotating hook, it should be using the original one.

Adjusting the height of the needle bar (Figure 27)

Turn the handwheel until the needle bar has been at the lowest point, loosen the setscrew '1'.

The line 'A' on the needle bar '2' align with the bottom end of needle bar lower bushing '3', then securely tighten the setscrew '1'.

Adjusting the position of the rotating hook

Loosen two rotating hook setscrews and turn the handwheel until the line 'B' on needle bar align with the bottom end of needle bar lower bushing '3'.

After the above adjustments steps, the rotating hook point '5' aligns with the center of needle '4', and make sure the clearance between the needle and the rotating hook '5' is 0.04~0.1 mm.

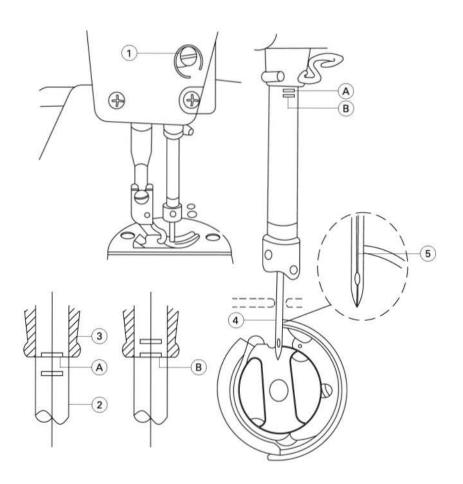
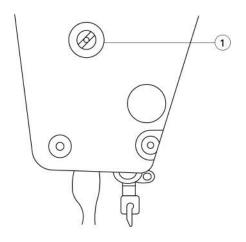


Figure 27

Presser Bar Height Adjustment Loosen setscrew '1' (Figure 28) and adjust the height of the presser bar. When the presser foot rises to the highest, the distance between the

throat plate and the presser foot is 5.5 mm (Figure 29).

Tighten the setscrew '1' after adjustment.



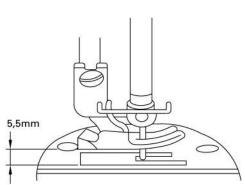


Figure 28

Figure 29

Thread Take-Up Stroke Adjustment When sewing for heavy weight material, the thread guides '1' move to the left (in direction 'A') to increase the length of thread pulled out by the thread take-up.

When sewing light weight material, the thread guides '1' move to the right (in direction 'B') to decrease the length of thread pulled out by the thread take-up.

When marker line 'C' on the thread guide '1' is aligned with the center of the screw that is standard (Figure 30).

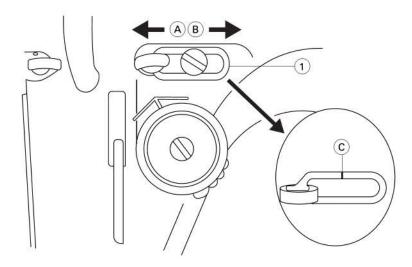


Figure 30

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Maintenance

Machine Head Cleaning Clean the machine periodically with a soft and dry cloth to remove the excess of dust on the machine head. Do not use any kind of lacquer thinner to wipe the surface.

Lubrication

If the machine was idle for a long time, lubricate the machine according to the instructions of topics 3.4 to 3.6.

Safety Inspection

Check periodically if all safety devices are properly installed and adjusted.

Check if all fixing and supporting screws of the machine head are adequately tighten.

Check if the v-belt is not excessively worn and if it has the right tension.

Check if there is no overheating in the electrical motor and check if the power cord and plug are not damaged.

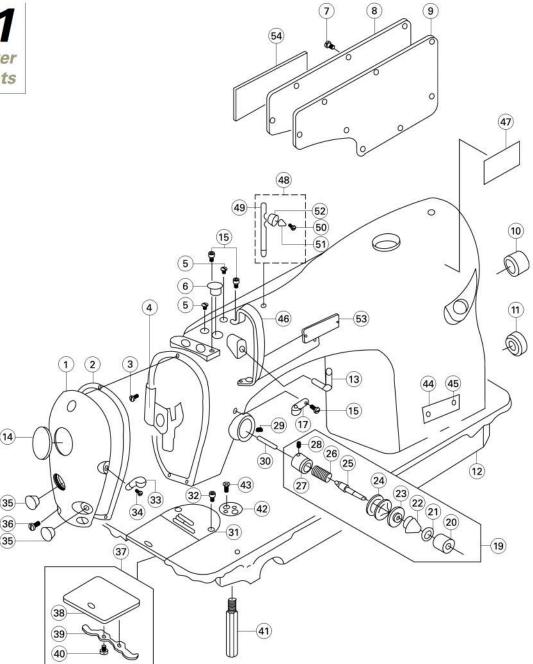


Troubleshooting

| Problems | Possible Causes | Possible Solutions |
|-------------------|--------------------------------------------------------------------------------------|------------------------------------------------|
| | 1. Needle is installed wrong | 1. Install needle correctly |
| | 2. Wrong needle type or size | 2. Use proper needle for fabric and thread |
| Needle break | 3. Needle is bended | 3. Replace needle |
| | 4. Wrong relation with rotary hook | 4. Readjust the rotary hook |
| | 5. Needle doesn't center the needle hole of throat plate or presser foot | 5. Readjust the needle plate and presser foot |
| | 1. Low quality thread | 1. Change the thread |
| | 2. Thread is thicker than needle hole | 2. Use proper needle for fabric and thread |
| | 3. Wrong threading | 3. Rethreaded the machine correctly |
| | 4. Thread tension is too strong | 4. Readjust the thread tension nut |
| Thread break | 5. Needle is installed wrong | 5. Install needle correctly |
| | 6. Thread stand installed wrong | 6. Install thread stand correctly |
| | 7. Thread tension disc, thread guide, needle, hook point and needle plate are burred | 7. Grind off, polish or replace by a new parts |
| | 8. Wrong relation with rotary hook | 8. Readjust needle and hook point relation |
| | 1. Wrong relation of needle and hook point | 1. Readjust needle and hook point |
| | 2. Wrong threading | 2. Rethread the machine correctly |
| Skip stitches | 3. Needle is installed wrong | 3. Installed needle correctly |
| | 4. Inadequate thread tension | 4. Readjust the thread tension nut |
| | 5. Hook point is damaged | 5. Replace by a new part |
| | 6. Needle is bended | 6. Replace needle |
| | 1. Wrong threading | 1. Rethread the machine correctly |
| oosen stitches | 2. Thread is thicker than needle hole | 2. Use proper needle for fabric and thread |
| | 3. Inadequate thread tension | 3. Readjust the thread tension nut |
| | 4. Wrong setting of needle and hook point | 4. Readjust needle and hook point |
| | 1. Thread tension is too strong | 1. Readjust the thread tension nut |
| | 2. Take-up spring is too strong | 2. Readjust the take-up spring |
| /rinkled stitches | 3. Inadequate pressure of presser foot | 3. Readjust the presser foot pressure |
| | 4. Inadequate height of feed dog | 4. Readjust the feed dog |
| | 5. Needle is too thick | 5. Use proper needle for fabric and thread |

Parts List



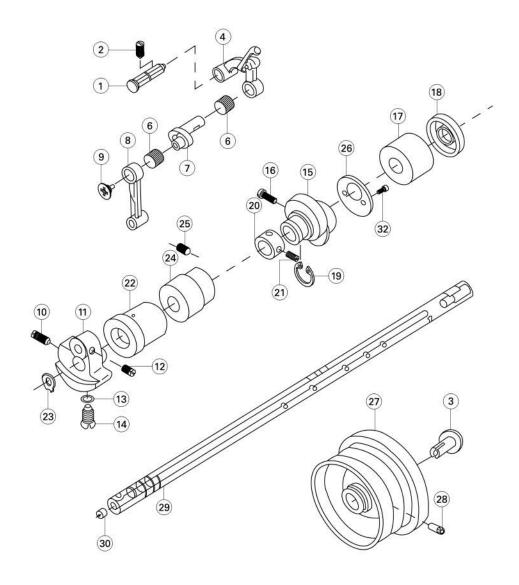


| No. | Dont No. | Description | Qty. | | | | | | | |
|-----|-----------|-------------------------|------|-----|----|-----|----|-----|--|--|
| NO. | Part No. | | 20 | 20C | 30 | 30C | 70 | 70C | | |
| 1 | 10101034 | Face plate | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2 | 10122096 | Face plate gasket | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 3 | 101S11010 | Screw SM1/8x44 L=4 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 4 | 10112024 | Arm oil shield assembly | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 5 | 10122005 | Rubber plug | 2 | 2 | 2 | 2 | 2 | 2 | | |

6.1 Frame and Cover Components

| 1000 | 125 (2014)) | 2 100 | | | Q | ty. | | |
|-------|-------------|-----------------------------------|------|-----|----|-----|-----|-----|
| No. | Part No. | Description | 20 | 20C | 30 | 30C | 70 | 70C |
| 6 | 10122003 | Rubber plug | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 101S11001 | Screw SM3/16x28 L=9 | 8 | 8 | 8 | 8 | 8 | 8 |
| 8 | 10112063 | Side plate | 1 | 1 | 1 | 1 | 1 | 1 |
| 9 | 10122097 | Side plate gasket | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 10122006 | Rubber plug | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 10122007 | Rubber plug | 1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 100017 | Frame | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 10113003 | Two-hole thread eyelet guide | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | J900112-001 | Singer "S" cameo | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 101S11004 | Screw SM3/16 x 28 L=6 | 2 | 2 | 2 | 2 | 2 | 2 |
| 17 | 10113004 | Right arm thread guide | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 101S11007 | Screw SM11/64 x 40 L=6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 1011301500 | Thread tension regulator assembly | 1 | 1 | 1 | 1 | 0 | 0 |
| | 400597 | Thread tension regulator assembly | 0 | 0 | 0 | 0 | 1 | 1 |
| 20 | 101S16001 | Tension adjusting nut | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 10112007 | Tension disk stopper | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 10127002 | Tension spring | 1 | 1 | 0 | 0 | 0 | 0 |
| | 10127017 | Tension spring | 0 | 0 | 1 | 1 | 1 | 1 |
| 23 | 10112006 | Tension disk holder | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 10112005 | Thread tension disk | 2 | 2 | 2 | 2 | 2 | 2 |
| 25 | 101S30002 | Tension post | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 10127001 | Thread take-up spring | 1 | 1 | 1 | 1 | 1 | 1 |
| 27 | 10103011 | Tension post socket | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | 101S15005 | Screw SM9/64x40 L=5.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 101S15006 | Screw SM15/64x28 L=7 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 10126002 | Tension releasing pin | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 10115001 | Throat plate | 1 | 1 | 0 | 0 | 0 | 0 |
| | 10115005 | Throat plate | 0 | 0 | 1 | 1 | 0 | 0 |
| | 10115014 | Throat plate | 0 | 0 | 0 | 0 | 1 | 1 |
| 32 | 101S17002 | Screw SM11/64 x 40 L=8.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 33 | 10113005 | Left arm thread guide | 1 | 1 | 1 | 1 | 1 | 1 |
| 34 | 101S11007 | Screw SM11/64x40 L=6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 35 | 10122003 | Rubber plug | 2 | 2 | 2 | 2 | 2 | 2 |
| 36 | 101S11001 | Screw SM3/16x28 L=9 | 3 | 3 | 3 | 3 | 3 | 3 |
| 37 | 1011500200 | Slide plate assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 38 | 10115002 | Slide plate | 1 | 1 | 1 | 1 | 1 | 1 |
| 39 | 10127009 | Slide plate spring | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 | 101S11019 | Screw SM3/32x56 L=1.9 | 2 | 2 | 2 | 2 | 2 | 2 |
| 41 | 101S12001 | Screw stud | 4 | 4 | 4 | 4 | 4 | 4 |
| 42 | 10112002 | Scale base plate | 1 | 1 | 1 | 1 | 1 | 1 |
| 43 | 101S11002 | Screw SM11/64 x 40 L=5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 44 | J900191-xxx | Model plate | 1 | 1 | 1 | 1 | 1 | 1 |
| 45 | R03001 | Model plate rivet | 2 | 2 | 2 | 2 | 2 | 2 |
| 46 | 10112062 | Thread take-up lever cover | 1 | 1 | 1 | 1 | 0 | 0 |
| 0.000 | 10112064 | Thread take-up lever cover | 0 | 0 | 0 | 0 | 1 | 1 |
| 47 | 11237003 | Safety label | 1 | 1 | 1 | 1 | 1 | 1 |
| 48 | 1011300700 | Thread guide rod assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 49 | 10112008 | Thread guide rod | 1 | 1 | 1 | 1 | 1 | 1 |
| 50 | 10112009 | Tension disk | 2 | 2 | 2 | 2 | 2 | 2 |
| 51 | 10127004 | Tension spring | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 | 101S30003 | Hinge screw | 1 | 1 | 1 | 1 | 1 | 1 |
| 53 | J900112-002 | Singer logo resin plate (front) | 1 | 1 | 1 | 1 | 1 | 1 |
| 54 | J900112-004 | Singer logo resin plate (back) | 1 | 1 | 1 | 1 | 1 | 1 |
| 94 | 0300112-004 | ornigor togo resiri prate (back) | - 60 | 1 | | 10. | -50 | 100 |

6.2 Arm Shaft and Thread Take-Up Lever Components

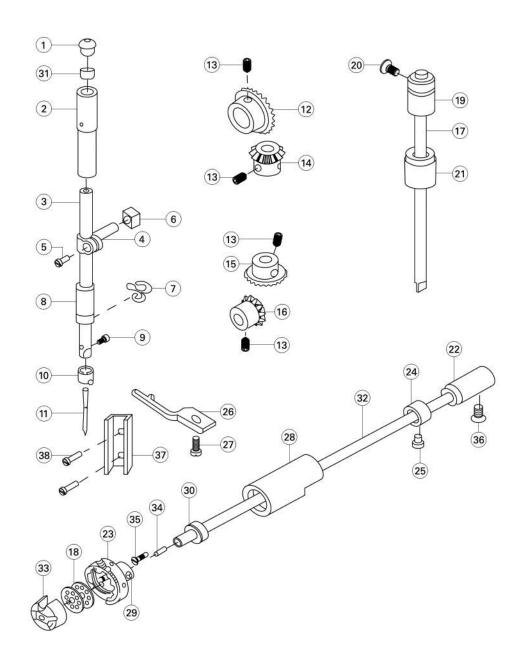


6.2 Arm Shaft and Thread Take-Up Lever Components

| No. | Part No. | Description | Qty. | | | | | | | |
|------|------------|------------------------------------|------|-----|----|-----|----|-----|--|--|
| 140. | Tare No. | Description | 20 | 20C | 30 | 30C | 70 | 700 | | |
| 1 | 10126001 | Thread take-up crank shaft | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 2 | 101S15001 | Screw SM15/64 x 28 L=10.5 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 3 | 101S3001 | Screw | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 4 | 10105001 | Thread take-up lever link | 1 | 1 | 0 | 0 | 0 | 0 | | |
| | 10105006 | Thread take-up lever link | 0 | 0 | 1 | 1 | 0 | 0 | | |
| | 1223800300 | Thread take-up lever link assembly | 0 | 0 | 0 | 0 | 1 | 1 | | |
| 6 | 10124001 | Needle bearing | 2 | 2 | 2 | 2 | 2 | 2 | | |
| 7 | 1011000100 | Needle bar crank | 1 | 1 | 0 | 0 | 0 | 0 | | |
| | 1011000400 | Needle bar crank | 0 | 0 | 1 | 1 | 0 | 0 | | |
| | 1221000100 | Needle bar crank | 0 | 0 | 0 | 0 | 1 | 1 | | |
| 8 | 10105002 | Needle bar crank rod | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 9 | 101S15007 | Screw SM9/64 x 40 L=4.8 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 10 | 101S15004 | Screw SM9/32 x 28 L=16 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 11 | 10104001 | Counter weight | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 12 | 101S15002 | Screw SM1/4 x40 L=6 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| 13 | 10122010 | Rubber ring | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 14 | 101S11003 | Screw SM9/32 x 28 L=6 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 15 | 10110003 | Feed drive eccentric cam | 1 | 1 | 1 | 1 | 0 | 0 | | |
| | 400058 | Feed drive eccentric cam | 0 | 0 | 0 | 0 | 1 | 1 | | |
| 16 | 101S11013 | Screw SMI/4 x 40 L=11 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| 17 | 10103001 | Arm shaft bushing (rear) | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 18 | 10122008 | Oil seal | 2 | 2 | 2 | 2 | 2 | 2 | | |
| 19 | H03002 | Snap ring | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 20 | 10108001 | Thrust collar | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 21 | 101S15007 | Screw SM1/4 x 40 L=6 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| 22 | 10103004 | Arm shaft bushing (front) | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 23 | 10112003 | Oil adjusting collar | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 24 | 10103003 | Arm shaft bushing (middle) | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 25 | 101S15006 | Screw | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 26 | 10112017 | Thrust collar | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 27 | 10135007 | Hand wheel | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 28 | 101S15008 | Screw SM15/64 x 28 L=15 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| 29 | 10102001 | Arm shaft | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 30 | 10122012 | Roller felt | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 31 | 101S11005 | Oil amount adjusting pin | 1 | 1 | 1 | 1 | 1 | 1 | | |

From the library of: Diamond Needle Corp

6.3 Needle Bar, **Upright Shaft and Rotating Hook Driving Shaft** Components

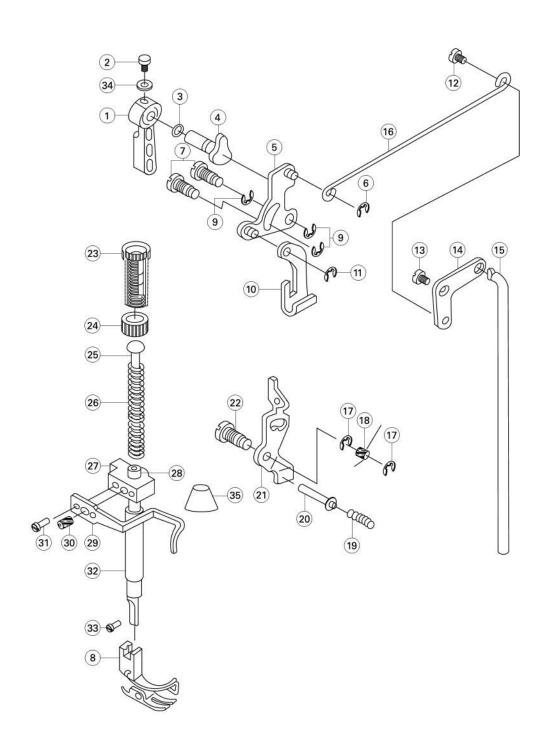


| No. | Part No. | Description | | | 0 | ty. | | |
|-----|-----------|----------------------------|----|-----|----|-----|----|-----|
| NO. | ran No. | Description | 20 | 20C | 30 | 30C | 70 | 70C |
| 1 | 10122013 | Сар | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 10103009 | Needle bar bushing (upper) | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 10102002 | Needle bar | 1 | 1 | 0 | 0 | 0 | 0 |
| | 10102012 | Needle bar | 0 | 0 | 1 | 1 | 0 | 0 |
| | 10102021 | Needle bar | 0 | 0 | 0 | 0 | 1 | 1 |
| 4 | 10138002 | Needle bar connection | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 101S11005 | Screw SM9/64 x 40 L=6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 10109001 | Slide block | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 10113001 | Needle bar thread guide | 1 | 1 | 0 | 0 | 0 | 0 |
| | 10113009 | Needle bar thread guide | 0 | 0 | 1 | 1 | 1 | 1 |
| 8 | 10103010 | Needle bar bushing (lower) | 1 | 1 | 0 | 0 | 0 | 0 |
| | 10103023 | Needle bar bushing (lower) | 0 | 0 | 1 | 1 | 1 | 1 |

6.3 Needle Bar, Upright Shaft and Rotating Hook **Driving Shaft** Components

| No. | Part No. | Description | | Qty. | | | | | | | |
|-----|------------|-------------------------------|----|------|----|-----|----|-----|--|--|--|
| | Tare NO. | Description | 20 | 20C | 30 | 30C | 70 | 70C | | | |
| 9 | 101S11006 | Screw SM 1/8 x 44 L=4.5 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 10 | 10113002 | Needle bar thread guide | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 11 | 1955-01 | Needle #14 | 1 | 1 | 0 | 0 | 0 | 0 | | | |
| | 1955-01 | Needle #18 | 0 | 0 | 1 | 1 | 0 | 0 | | | |
| | 1955-01 | Needle #21 | 0 | 0 | 0 | 0 | 1 | 1 | | | |
| 12 | 10125004 | Gear | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 13 | 101S15009 | Screw SMI/4 x 40 L=8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| 14 | 10125003 | Pinion (upper) | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 15 | 10125002 | Gear large | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 16 | 10125001 | Pinion (lower) | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 17 | 10102007 | Upright shaft | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 18 | 10118003 | Bobbin | 1 | 1 | 1 | 1 | 0 | 0 | | | |
| | 10818501 | Bobbin | 0 | 0 | 0 | 0 | 1 | 1 | | | |
| 19 | 10103017 | Upright shaft bushing (upper) | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 20 | 101S15006 | Screw SM3/16 x28 L=9 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 21 | 10103016 | Upright shaft bushing (lower) | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 22 | 10103015 | Hook shaft bushing (rear) | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 23 | 10118504 | Rotating hook | 1 | 0 | 0 | 0 | 0 | 0 | | | |
| | 10118001 | Rotating hook | 0 | 1 | 0 | 0 | 0 | 0 | | | |
| | 10118505 | Rotating hook | 0 | 0 | 1 | 0 | 0 | 0 | | | |
| | 10118509 | Rotating hook | 0 | 0 | 0 | 1 | 0 | 0 | | | |
| | 11018001 | Rotating hook | 0 | 0 | 0 | 0 | 1 | 0 | | | |
| | 10818001 | Rotating hook | 0 | 0 | 0 | 0 | 0 | 1 | | | |
| 24 | 10108002 | Thrust collar | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 25 | 101S11012 | Screw SM I 1/64x 40 L=4 .8 | 2 | 2 | 2 | 2 | 2 | 1 | | | |
| 26 | 10112016 | Position finger | 1 | 1 | 0 | 0 | 0 | 2 | | | |
| | 10112032 | Position finger | 0 | 0 | 1 | 1 | 0 | 0 | | | |
| 27 | 101S11011 | Screw SM11/64 x 40 L=9.5 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 28 | 1010000000 | Hook shaft bushing (front) | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 29 | 101S15008 | Screw | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 30 | 10122015 | Thrust collar | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 31 | 10123002 | Screw SM 11/64 x40 L=3.5 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| 32 | 10102006 | Hook shaft | 1 | 1 | 1 | 1 | 0 | 0 | | | |
| | 12202003 | Hook shaft | 0 | 0 | 0 | 0 | 1 | 1 | | | |
| 33 | 10118501 | Bobbin case | 1 | 1 | 1 | 1 | 0 | 0 | | | |
| | 10118517 | Bobbin case | 0 | 0 | 0 | 0 | 1 | 0 | | | |
| | 10818502 | Bobbin case | 0 | 0 | 0 | 0 | 0 | 1 | | | |
| 34 | 10123003 | Oil wick | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 35 | 101S30005 | Oil seal screw | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 36 | 101S15006 | Screw SM3/16 x 28 L=12 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 37 | 10109002 | Needle bar slid block guide | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| 38 | 101S11008 | Screw SM11/64x40 L=8 | 2 | 2 | 2 | 2 | 2 | 2 | | | |

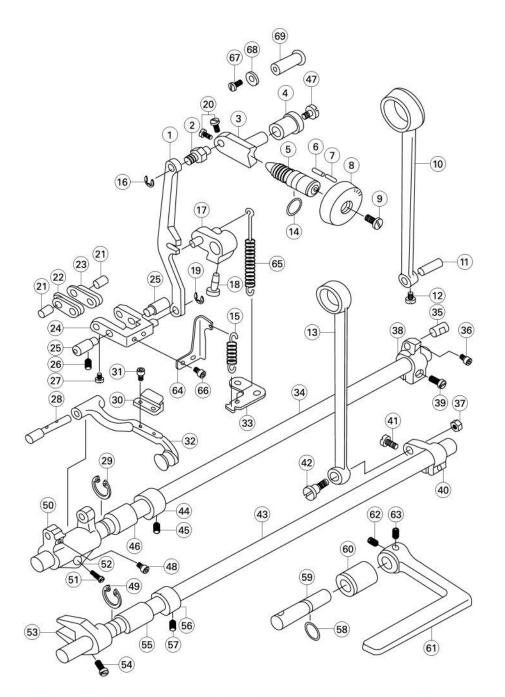
6.4 Presser Foot Components



6.4 Presser Foot Components

| No. | Port No. | Description | | | O | ity. | | |
|------|------------|------------------------------------|----|-----|----|------|----|-----|
| INO. | Part No. | Description | 20 | 20C | 30 | 30C | 70 | 70C |
| 1 | 10111001 | Hand lifter | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 101S11010 | Screw SM9/64 x 40 L=9.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | O01004 | Rubber ring | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 1011000200 | Hand lifter cam assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 1011201100 | Hand lifter link assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | H05009 | Snap ring | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 101S20001 | Link screw stud | 2 | 2 | 2 | 2 | 2 | 2 |
| 8 | 1011600100 | Presser foot assembly | 1 | 1 | 0 | 0 | 0 | 0 |
| | 1011600400 | Presser foot assembly | 0 | 0 | 1 | 1 | 0 | 0 |
| | 1011600800 | Presser foot assembly | 0 | 0 | 0 | 0 | 1 | 1 |
| 9 | H05009 | Snap ring | 3 | 3 | 3 | 3 | 3 | 3 |
| 10 | 10112010 | Lifting lever | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | H05009 | Snap ring | -1 | 1 | 1 | 1 | 1 | 1 |
| 12 | 101S20004 | Screw | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 101S20003 | Screw | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 10112014 | Lifting lever link | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 10126003 | Connecting rod vertical | 1 | 1 | 1 | 1 | 1 | 1 |
| 16 | 10112013 | Lifting lever connection rod | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | H05009 | Snap ring | 2 | 2 | 2 | 2 | 2 | 2 |
| 18 | 10127008 | Tension release return spring | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | 10127003 | Tension release pin spring | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 | 10126003 | Tension release supporting pin | 1 | 1 | 1 | 1 | 1 | 1 |
| 21 | 10112012 | Tension release plate | 1 | 1 | 1 | 1 | 1 | 1 |
| 22 | 101S20002 | Tension release screw stud | 1 | 1 | 1 | 1 | 1 | 1 |
| 23 | 101S30004 | Presser spring regulator | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 101S16002 | Presser spring regulator nut | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 10102003 | Presser guide bar | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 10127005 | Presser spring | 1 | 1 | 0 | 0 | 0 | 0 |
| | 10127018 | Presser spring | 0 | 0 | 1 | 1 | 1 | 1 |
| 27 | 10109003 | Presser bar guide bracket | 1 | 1 | 1 | 1 | 1 | 1 |
| 28 | 10102004 | Presser bar | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | 10113008 | Presser bar thread guide | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 101S15007 | Screw SM 1/4 x 40 L=8 | 1 | 1 | 1 | 1 | 1 | 1 |
| 31 | 101S11005 | Screw SM 9/64 x 40 L=8.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 32 | 10103012 | Presser bar bushing (lower) | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | 101S11009 | Screw SM9/64 x 40 L=I0.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 34 | 10128002 | Washer | 1 | 1 | 1 | 1 | 1 | 1 |
| 35 | 10122034 | Presser bar oil protection bushing | 1 | 1 | 1 | 1 | 1 | 1 |

6.5 Feed Mechanism Components

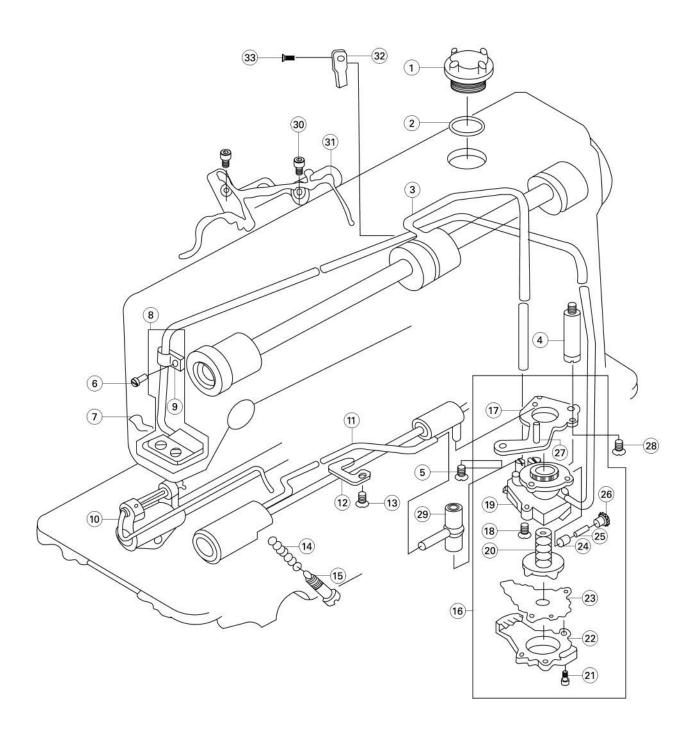


| N | D N- | Daniel de la constant | | | 0 | ity. | | |
|-----|-----------|--------------------------------------|----|-----|----|------|----|-----|
| No. | Part No. | Description | 20 | 20C | 30 | 30C | 70 | 70C |
| 1 | 10105005 | Feed regulator connecting rod | 1 | 1 | 1 | 1 | 0 | 0 |
| | 12212003 | Feed regulator connecting rod | 0 | 0 | 0 | 0 | 1 | 1 |
| 2 | 10126016 | Feed regulator pin | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 10101004 | Feed regulator | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | 10103020 | Feed regulator bushing | 1 | 1 | 1 | 1 | 1 | 1 |
| 5 | 10126014 | Feed regulator screw | 1 | 1 | 1 | 1 | 1 | 1 |
| 6 | 10127010 | Spring | 1 | 1 | 1 | 1 | 1 | 1 |
| 7 | 10126015 | Pin | 1 | 1 | 1 | 1 | 1 | 1 |
| 8 | 10111052 | Feed dial | 1 | 1 | 1 | 1 | 0 | 0 |
| | 12211001 | Feed dial | 0 | 0 | 0 | 0 | 1 | 1 |
| 9 | 101S11022 | Screw SM3/16X28 L=18 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 | 10105003 | Feed rock shaft crank connecting rod | 1 | 1 | 1 | 1 | 0 | 0 |
| | 400083 | Feed rock shaft crank connecting rod | 0 | 0 | 0 | 0 | 1 | 1 |
| 11 | 10126006 | Pin | 1 | 1 | 1 | 1 | 1 | 0 |

6.5 Feed Mechanism Components

| No. | Part No. | Description | | | О | ity. | | |
|----------|------------------------|--------------------------------------------------|-----|-----|------|------|----|-----|
| 1000 | 141110 | Docompact | 20 | 20C | 30 | 30C | 70 | 70C |
| 12 | 101S11005 | Screw SM9/64x 40 L=6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 13 | 10105004 | Feed lifting rock shaft crank connecting rod | 1 | 1 | 1 | 1 | 1 | 1 |
| 14 | 10122016 | Rubber ring | 1 | 1 | 1 | 1 | 1 | 1 |
| 15 | 10127012 12227001 | Spring | 1 0 | 0 | 1 | 0 | 0 | 0 |
| 16 | H05009 | Spring Snap ring | 1 | 1 | 1 | 1 | 1 | 1 |
| 17 | 1010400500 | Feed reverse arm assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 101517003 | Screw | 1 | 1 | 1 | 1 | 1 | 1 |
| 19 | H05009 | Snap ring | 1 | i | 1 | 1 | 1 | 1 |
| 20 | 101S11005 | Screw SM9/64x 40 L=6 | 2 | 2 | 2 | 2 | 2 | 2 |
| 21 | 1012007 | Pin | 2 | 2 | 2 | 2 | 2 | 2 |
| 22 | 10109005 | Link | 2 | 2 | 2 | 2 | 2 | 2 |
| 23 | 10109004 | Link | 2 | 2 | 2 | 2 | 2 | 2 |
| 24 | 1010100200 | Feed adjust link assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 10126009 | Feed adjust link shaft | 2 | 2 | 2 | 2 | 2 | 2 |
| 26 | 101S15010 | Screw SM15/64x28 L=7 | 2 | 2 | 2 | 2 | 2 | 2 |
| 27 | 101S11005 | Screw SM9/64x40 L=6 | 2 | 2 | 2 | 2 | 2 | 2 |
| 28 | 10126013 | Feed bar shaft | 1 | 1 | 1 | 1 | 1 | 1 |
| 29 | H03001 | Retaining ring | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 10114001 | Feed dog | 1 | 1 | 0 | 0 | 0 | 0 |
| | 10114004 | Feed dog | 0 | 0 | 1 | 1 | 0 | 0 |
| | 10114012 | Feed dog | 0 | 0 | 0 | 0 | 1 | 1 |
| 31 | 101S11018 | Screw SM1/8X44 L=6 | 2 | 2 | 2 | 2 | 2 | 2 |
| 32 | 1010700100 | Feed bar assembly | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | 10112018 | Feed spring hook plate | 1 | 1 | 1 | 1 | 1 | 1 |
| 34 | 10102008 | Feed rock shaft | 1 | 1 | 1 | 1 | 1 | 1 |
| 35 | 10126011 | Pin | 1 | 1 | 1 | 1 | 1 | 1 |
| 36 | 101S11005 | Screw SM9/64x 40 L=6 | 1 | 1 | 1 | 1 | 1 | 1 |
| 37 | 101S16003 | Nut SM9/32X 28 | 1 | 1 | 1 | 1 | 1 | 1 |
| 38 | 10104002 | Feed rock shaft crank | 1 | 1 | 1 | 1 | 0 | 0 |
| | 12204003 | Feed rock shaft crank | 0 | 0 | 0 | 0 | 1 | 1 |
| 39 | 101S11016 | Screw SM3/16 X 28 L=15.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 40 | 10104004 | Feed lifting rock shaft crank (back) | 1 | 1 | 1 | 1 | 1 | 1 |
| 41 | 101S11021 | Screw SM3/16 x 28 L=15.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 42 | 101S20005 | Screw | 1 | 1 | 1 | 1 | 1 | 1 |
| 43 | 10102009 | Feed driving shaft | 1 | 1 | 1 | 1 | 1 | 1 |
| 44 | 10108003 | Thrust collar | 1 | 1 | 1 | 1 | 1 | 1 |
| 45 | 101S15002 | Screw SM1/4 x 40 L=6 | 2 | 2 | 2 | 2 | 2 | 2 |
| 46 | 10103018 | Feed rock shaft bushing Screw SM3/16 x 28 L=7 | 1 | 1 | 1 | 1 | 1 | 1 |
| 47 | 101S11023 101S11025 | Screw SM11/64 x 40 L=7 | 1 | 1 | 1 | 1 | 1 | 1 |
| 775617 | | | | | 0.00 | 100 | | |
| 49 | H03001 10101003 | Retaining ring | 1 | 1 | 1 | 1 | 1 | 1 |
| 50 51 | 10101003 | Feed bar driving crank Screw SM3/16 x 28 L=14 | 1 | 1 | 1 | 1 | 1 | 1 |
| 52 | 10128003 | Washer | 1 | 1 | 1 | 1 | 1 | 1 |
| 53 | 10128003 | Lifting fork | 1 | 1 | 1 | 1 | 9 | 1 |
| 54 | 101S11020 | Screw SM11/64 x 40 L=10.5 | 1 | 1 | 1 | 1 | 1 | 1 |
| 55 | 10103018 | Feed driving shaft bushing | 1 | 1 | 1 | 1 | 1 | 1 |
| 56 | 10108003 | Thrust collar | 1 | 1 | 1 | 1 | 1 | 1 |
| 57 | 101S15002 | Screw SM1/4 x 40 L=6 | 2 | 2 | 2 | 2 | 2 | 2 |
| 58 | 10122017 | Rubberring | 1 | 1 | 1 | 1 | 1 | 1 |
| 59 | 10102010 | Feed reverse shaft | 1 | 1 | 1 | 1 | 1 | 1 |
| 60 | 10103021 | Feed reverse shaft bushing | 1 | 1 | 1 | 1 | 1 | 1 |
| 61 | 10101005 | Reverse feed control lever | 1 | 1 | 1 | 1 | 1 | 1 |
| 62 | 101S15007 | Screw SM1/4 x 40 L=8 | 1 | 1 | 1 | 1 | 1 | 1 |
| 63 | 101S15011 | Screw SM1/4 x 40 L=10 | 1 | 1 | 1 | 1 | 1 | 1 |
| 64 | 10112019 | Adjusting link spring guide | 1 | 1 | 1 | 1 | 1 | 1 |
| 65 | 10127011 | Reverse feed spring | 1 | 1 | 1 | 1 | 0 | 0 |
| | 12227002 | Reverse feed spring | 0 | 0 | 0 | 0 | 1 | 1 |
| 66 | 101S11025 | Screw SMI 1/64 X 40 L=5 | 2 | 2 | 2 | 2 | 2 | 2 |
| 67 | 10126010 | Screw | 0 | 0 | 0 | 0 | 1 | 1 |
| 68 | GT0569 | Washer | 0 | 0 | 0 | 0 | 1 | 1 |
| 69 | GT0570 | Feed adjusting shaft | 0 | 0 | 0 | 0 | 1 | 1 |

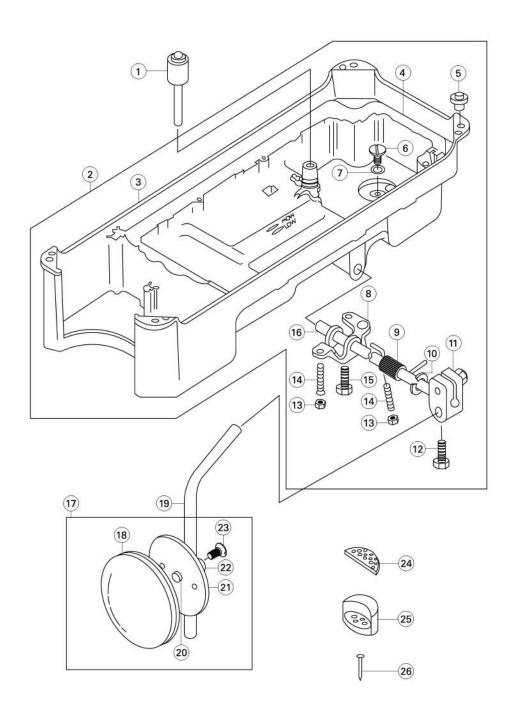
6.6 Lubrication Components



6.6 Lubrication Components

| NI- | P. AN. Davidson | | Oty. | | | | | | | |
|-----|-----------------|-----------------------------|------|-----|----|-----|----|-----|--|--|
| No. | Part No. | Description | 20 | 20C | 30 | 30C | 70 | 70C | | |
| 1 | 10111004 | Oil sight window | -1 | 1 | 1 | 1 | 1 | 1 | | |
| 2 | 10122019 | Rubber ring | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 3 | 10121002 | Arm shaft oil tube | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 4 | 101S30008 | Oil pump support | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 5 | 101S11026 | Screw SM15/64 x 28 L=9 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 6 | 101S11004 | Screw SM3/16 x 28 L=6 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 7 | 10127015 | Oil felt clip | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 8 | 1012701500 | Oil return tube assembly | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 9 | 10112023 | Oil return tube holder | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 10 | 10123001 | Oil wick | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 11 | 10121003 | Oil tube | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 12 | 10112022 | Oil tube holder (lower) | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 13 | 101S11026 | Screw SM15/64 x 28 L=9 | -1 | 1 | 1 | 1 | 1 | 1 | | |
| 14 | 10127014 | Spring | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 15 | 101S30009 | Oil adjusting screw | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 16 | 1012000100 | Oil pump assembly | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 17 | 10112020 | Oil pump installing base | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 18 | 101S11011 | Screw x 8 | 3 | 3 | 3 | 3 | 3 | 3 | | |
| 19 | 10120001 | Oil pump | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 20 | 10111003 | Oil pump impeller | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 21 | 101S30006 | Screw | 3 | 3 | 3 | 3 | 3 | 3 | | |
| 22 | 10111007 | Oil pump cover | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 23 | 10112021 | Oil pump impeller cover | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 24 | 10122018 | Plunger | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 25 | 10127013 | Plunger spring | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 26 | 101S30007 | Plunger screw | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 27 | 10121001 | Hook driving shaft oil tube | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 28 | 101S11011 | Screw SM11/64 x 40 L=9.5 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 29 | 10136001 | Oil tube joint | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 30 | 101S11010 | Oil wick set plate screw | 2 | 2 | 2 | 2 | 2 | 2 | | |
| 31 | 10112025 | Oil wick set plate assembly | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 32 | 10112026 | Presser plate | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 33 | 101S11033 | Screw | 1 | 1 | 1 | 1 | 1 | 1 | | |

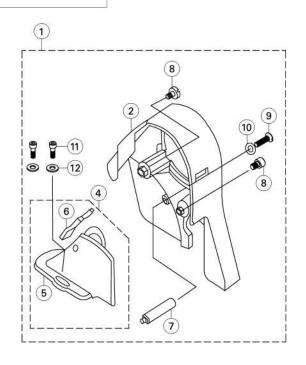
6.7 Oil Reservoir Components

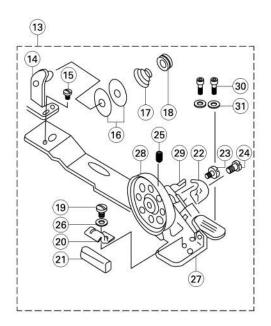


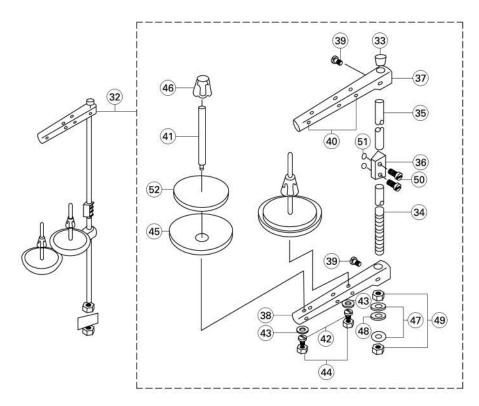
6.7 Oil Reservoir Components

| No. | Part No. Description | No. Description | Qty. | | | | | | |
|-----|----------------------|------------------------------|------|----|-----|----|-----|---|--|
| NO. | | 20 | 20C | 30 | 30C | 70 | 70C | | |
| 1 | 10111005 | Knee presser lift rod | 1 | 1 | 1 | 1 | 1 | 1 | |
| 2 | 1010100600 | Oil reservoir assembly | 1 | 1 | 1 | 1 | 1 | 1 | |
| 3 | 10101006 | Oil reservoir | 1 | 1 | 1 | 1 | 1 | 1 | |
| 4 | 10122020 | Gasket | 1 | 1 | 1 | 1 | 1 | 1 | |
| 5 | 10122031 | Rubber cushion | 1 | 1 | 1 | 1 | 1 | 1 | |
| 6 | 101S11028 | Screw | 4 | 4 | 4 | 4 | 4 | 4 | |
| 7 | 10122021 | Rubber ring | 1 | 1 | 1 | 1 | 1 | 1 | |
| 8 | 101112027 | Knee lifter connecting rod | 1 | 1 | 1 | 1 | 1 | 1 | |
| 9 | 10127016 | Spring | 1 | 1 | 1 | 1 | 1 | 1 | |
| 10 | H05010 | Snap ring | 1 | 1 | 1 | 1 | 1 | 1 | |
| 11 | 10101008 | Bracket | 1 | 1 | 1 | 1 | 1 | 1 | |
| 12 | 101S12003 | Screw SM9/32x 20 L=20 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 13 | 101S16004 | Nut SM15/64 x 28 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 14 | 101S15012 | Screw SM15/64 x 20 L=30 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 15 | 101S12002 | Screw | 2 | 2 | 2 | 2 | 2 | 2 | |
| 16 | 10102011 | Knee lifter shaft | 1 | 1 | 1 | 1 | 1 | 1 | |
| 17 | 1011202800 | Knee lifter plate assembly | 1 | 1 | 1 | 1 | 1 | 1 | |
| 18 | 10122024 | Knee lifter plate cover | 1 | 1 | 1 | 1 | 1 | 1 | |
| 19 | 10112028 | Knee lifter plate rod | 1 | 1 | 1 | 1 | 1 | 1 | |
| 20 | 10122025 | Knee lifter plate rubber | 1 | 1 | 1 | 1 | 1 | 1 | |
| 21 | 10112029 | Knee lifter plate | 1 | 1 | 1 | 1 | 1 | 1 | |
| 22 | 10112030 | Knee lifter plate holder | 1 | 1 | 1 | 1 | 1 | 1 | |
| 23 | 101S12004 | Screw SM15/64 x 28 L=15 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 24 | 10122022 | Oil reservoir felt cushion | 2 | 2 | 2 | 2 | 2 | 2 | |
| 25 | 10122023 | Oil reservoir rubber cushion | 2 | 2 | 2 | 2 | 2 | 2 | |
| 26 | 101S30010 | Nail | 4 | 4 | 4 | 4 | 4 | 4 | |

6.8 Belt Cover, **Bobbin Winder** and Thread Stand Components



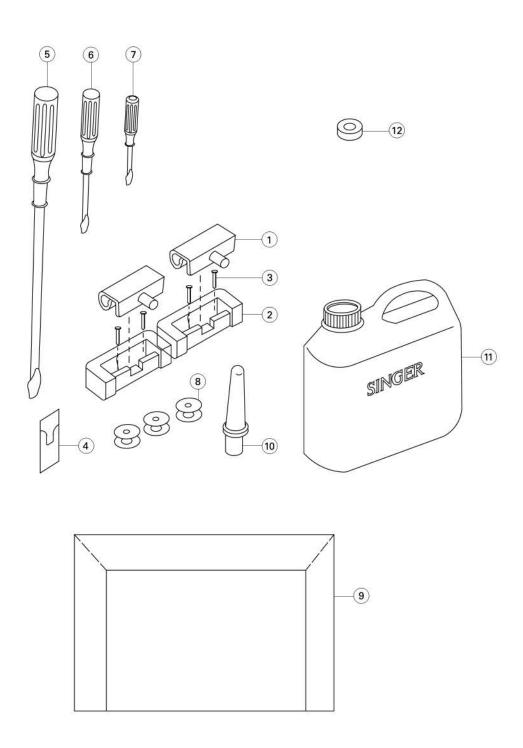




6.8 Belt Cover, **Bobbin Winder** and Thread Stand Components

| 12-22 | | 105 TOLK | | | | | Qty. | | | | | | | |
|-------|------------|-----------------------------|----|-----|----|-----|------|-----|--|--|--|--|--|--|
| No. | Part No. | Description | 20 | 20C | 30 | 30C | 70 | 70C | | | | | | |
| 1 | 1011100600 | Belt cover assembly | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 2 | 10111006 | Belt cover | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 4 | 1011100900 | Belt cover back assembly | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 5 | 10111009 | Belt cover back | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 6 | 1011101000 | Belt cover back latch | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 7 | 101S30012 | Belt cover support | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 8 | 101S11029 | Belt cover screw | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 9 | 101S11030 | Screw | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 10 | 10128007 | Washer | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 11 | 101S30011 | Screw | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 12 | 10128006 | Washer | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 13 | 1011203200 | Bobbin winder assembly | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 14 | 10112037 | Thread tension bracket | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 15 | S04006 | Screw SMI 1/64 x 40 L=7 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 16 | 10112038 | Tension disk | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 17 | 10127018 | Tension spring | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 18 | 101S16005 | Tension nut | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 19 | S04006 | Screw SMI 1/64' x 40 L=5 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 20 | 10112035 | Rubber brake bracket | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 21 | 10122027 | Rubber brake | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 22 | 10112036 | Bobbin winder spring | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 23 | 10120006 | Hinge screw SMI/Sx44 L=12.5 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 24 | S04017 | Screw | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 25 | S04006 | Screw | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 26 | 10128001 | Washer | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 27 | 10112032 | Bobbin winder base | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 28 | 10101010 | Bobbin winder pulley | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 29 | 10102012 | Bobbin winder post | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 30 | 101S30014 | Screw | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 31 | 10128008 | Washer | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 32 | 1013100900 | Thread stand assembly | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 33 | 10122028 | Rubber cap | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 34 | 10131008 | Spool post (lower) | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 35 | 10131009 | Spool post (upper) | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 36 | 10112039 | Spool post joint | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 37 | 10112040 | Spool arm (upper) | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 38 | 10112041 | Spool arm (lower) | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 39 | S04013 | Screw | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 40 | 10113010 | Thread guide | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 41 | 10131010 | Spool pin | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 42 | 10128009 | Spring washer | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 43 | 10128002 | Washer | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 44 | 101S16006 | Nut | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 45 | 10111013 | Spool rest | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 46 | 10111014 | Spool retainer | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 47 | 10128010 | Washer | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 48 | 10128006 | Spring washer | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 49 | N02003 | Nut | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| 50 | 10104003 | Screw | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 51 | 101S11020 | Nut | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| 52 | 10102009 | Spool rest cushion | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |

6.9 Machine Accessories



6.9 Machine Accessories

| No. | Part No. Description | Qty. | | | | | | | |
|-----|----------------------|------------------------------|----|-----|----|-----|----|-----|--|
| | Part No. | Part No. Description | 20 | 20C | 30 | 30C | 70 | 70C | |
| 1 | 1011203100 | Machine hinge plate | 2 | 2 | 2 | 2 | 2 | 2 | |
| 2 | 10122026 | Machine hinge rubber cushion | 2 | 2 | 2 | 2 | 2 | 2 | |
| 3 | 101S30010 | Nail Set | 4 | 4 | 4 | 4 | 4 | 4 | |
| 4 | 1955-01 | Needle #14 | 3 | 3 | 0 | 0 | 0 | 0 | |
| | 1955-01 | Needle #18 | 0 | 0 | 3 | 3 | 0 | 0 | |
| | 1955-01 | Needle #21 | 0 | 0 | 0 | 0 | 3 | 3 | |
| 5 | 10131002 | Screw driver (large) | 1 | 1 | 1 | 1 | 1 | 1 | |
| 6 | 10131003 | Screw driver (medium) | 1 | 1 | 1 | 1 | 1 | 1 | |
| 7 | 10131004 | Screw driver (small) | 1 | 1 | 1 | 1 | 1 | 1 | |
| 8 | 10118003 | Bobbin | 3 | 3 | 3 | 3 | 0 | 0 | |
| | 10818501 | Bobbin | 0 | 0 | 0 | 0 | 3 | 3 | |
| 9 | IP07042-001 | Dust cover | 1 | 1 | 1 | 1 | 1 | 1 | |
| 10 | 10111011 | Machine rest pin | 1 | 1 | 1 | 1 | 1 | 1 | |
| 11 | 1011105500 | Oil container | 1 | 1 | 1 | 1 | 1 | 1 | |
| 12 | 10131001 | Oil reservoir magnet | 1 | 1 | 1 | 1 | 1 | 1 | |



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