



GC20518 Series

Twin-Needle High Speed Lockstitch Sewing Machine

Instruction Manual Parts Catalog

SHANGHAI HUIGONG NO.3 SEWING MACHINE FACTORY

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PRECAUTIONS BEFORES STARING OPERATION

1. Safety precautions

- 1) When turning the power on, keep your hands and fingers away from the area around/under the needle and the area around the pulley.
- 2) Power must be turned off when the machine is not used, or when the operator leaves his/her seat.
- 3) The power must be turned off before tilting the machine head, installing or removing the "V" belt, adjusting the machine, or when replacing.
- 4) Avoid placing fingers, hairs, bars etc. near the pulley, "V" belt, bobbin winder pulley, or motor when the machine is operation. Injury could result.
- 5) Do not insert fingers into the thread take-up cover, under/round the needle, or pulley when the machine is in operation.
- 6) If a belt cover, finger guard, and/or eye guard are installed, do not operate the machine without these safety devices.

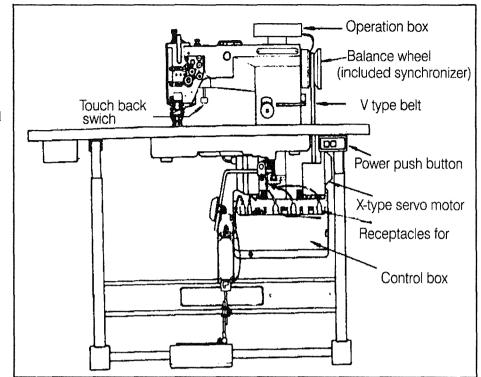
2. Precaution before Starting Operation

- 1) If the machine's oil pan has an oil sump, never operate the machine before filling it.
- 2) If the machine is lubricated by a drop oiler, never operate the machine before lubricating.
- 3) When a new sewing machine is first turned on, verify the rotational direction of the pulley with the power on. (the pulley should rotate counterclockwise when viewed from the pulley.)
- 4) Verify the voltage and (single or three) phase with those given on the motor nameplate.

3. Precaution for Operating Conditions

- 1) Avoid using the machine at abnormally high temperature (35°C or higher) or low temperature (5°Cor lower). Otherwise, machine failure may result.
- 2) Avoid using the machine in dusty conditions. Avoid using the machine in areas where too much electrical noise, resulted from the high-frequency welder and others, is generated.

PREPARATION FOR OPERATION



Overall view of assembled sewing machine

1. Power cable connection

1) Connection to Power Supply

When connecting the power supply connector to the control box, the connector should be completely plugged in the proper receptacle after confirming the connector type and matching direction.

A. In case of three-phase electrical power system, the "U" phase should be connected to the red lead, the "V" phase to the white lead, and the "W" phase to the black lead. The motor rotary direction depends, however, upon the setting of the internal switch in the control box as described in Paragraph 1-(3)

CAUTION: The green wire must be connected to the ground terminal in order to ground the motor properly.

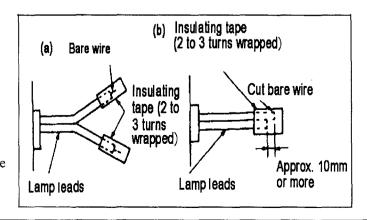
B. The appropriate power fuse capacity is as follows.

Power supply 200V-240V: 10A

100V-120V: 15A

2) Lamp Leads

A. When installing the illuminating lamp (6V,15-20W),The connecting wire is attached on the back of the Control box. It should be removed and connected by removing the insulating tube from the wire and stripping properly.



The wire connections should be, then, insulated by wrapping insulating tape on the wires.

CAUTION: The power switch must be Turned off before connecting the lamp.

B. When the illuminating lamp is not used, the end of the lamp leads must be insulated as (a) or (b) as shown in the figure on right side. If a short circuit occurs failing to insulate, the transformer in the control box will be possibly burned out.

CAUTION: The illuminating lamp must not be connected with any heater, such as a foot warmer and others, in parallel. Otherwise, the load capacity will be exceeded. It may cause transformer winding burned out.

Rotary direction 3)

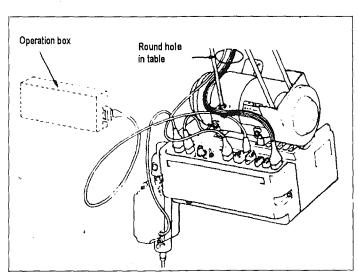
It is possible to change the rotary direction of the motor by removing the rubber cap from the bottom left side of the front cover on the control box, and push the internal direction selector switch. The built-in lamp in the internal switch is off when the motor is rotating counterclockwise as facing to the motor pulley, and on when rotating clockwise. The rotary direction has been set to counterclockwise as facing to the motor pulley, matching with the machine prior to shipping

2. Connection of control box

The control box should be connected as shown to the right.

Note: (1) Be sure to turn the power switch off for safety before connecting or disconnecting the connectors.

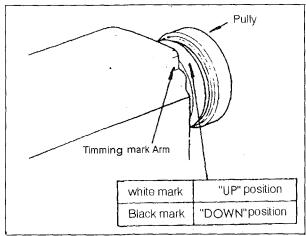
> (2) The combination of the machine heads with the motor control panels are specified below. Use special care for the correct



combination when replacing the machine head or motor control panel.

3. Adjustment of needle bar stop position

- Adjust of "UP" position 1) When the pedal is kicked down by heel, the machine stops at "UP" position. If the marks deviate larger than 3 mm, adjust as follows.
 - a) Disconnect the plug (12 pins) of cable from the machine head.
 - Run the machine and stop at "UP" position.
 - c) While holding the pulley, insert the "adjusting

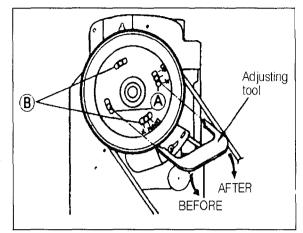


tool" in the hole" A", then remove the tool.

2) Adjust of "Down" position

When the pedal is "Neutral" the machine stops at "Down" position. If the marks deviate large than 5 mm, adjust as follows.

- a) Disconnect the plug (12 pins) of cable from the machine head
- b) Run the machine and stop at "Down" position.
- c) While holding the pulley, insert the "adjusting tool" in the hole "B", then remove the tool.
- 3) Confirm the stop operation, then set the plug (12 pings) coming from the machine head into the receptacle.



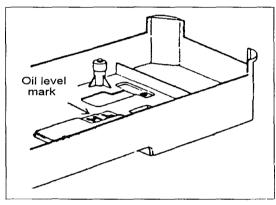
CAUTIONS ON USE

1. Oiling (1)

Fill the oil reservoir with oil up to "H" mark.

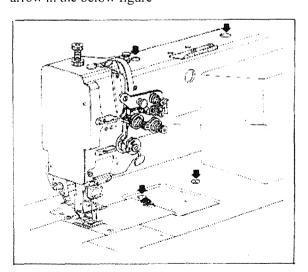
Oil level should be periodically checked. If oil level is found below "L" level replenish oil to "H" level.

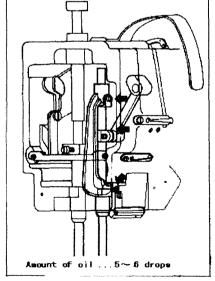
For oil, Use white spindle oil1.



2. Oiling (2)

When a new sewing machine is used for the first time, or sewing machine left out of use for considerably long time is used again, replenish a suitable amount of oil to the portions indicated by arrow in the below figure



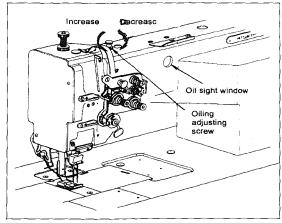


3. Oiling condition

(1) See dripping of oil during operation through the oil sight window to check oiling condition in the

- machine arm.
- (2) Please use the oiling adjusting screw with respect to oiling to take-up lever mechanism.

4. Adjustment of oiling to rotating hook



5. Cautions on operation

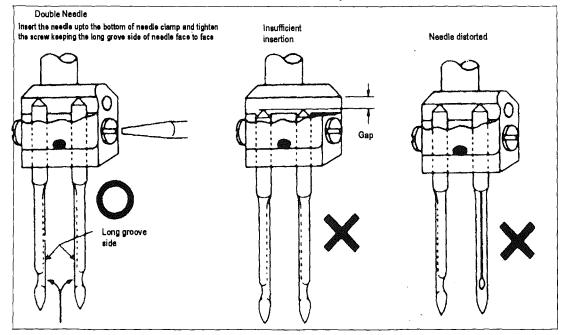
- a) When the power is turned on or off, keep foot away from the pedal.
- b) It should be noted that the brake may not work when the power is interrupted or power failure occurs during sewing machine operation.
- c) Since dust in the control box might cause

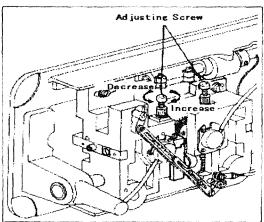
 malfunction or control troubles, be sure to keep the control box cover close during operation.
- d) Do not apply a multimeter to the control circuit for checking; otherwise voltage of multimeter might damage semiconductor components in the circuit.

OPERATION

1. Installation of needles

Note: Before installing the needles, be sure to turn off the power.





2. Winding of bobbin thread

Note: When bobbin thread is wound, keep the presser foot lifted.

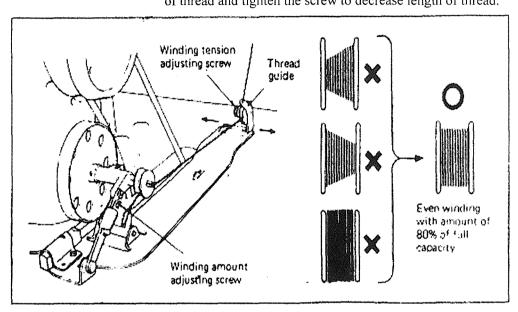
Adjustment:

Tension of wound thread Conically wound thread Length of wound thread Slack winding is recommended for polyester thread and nylon thread.

Move the thread guide toward smaller diameter of wound thread layer.

Loosen the thread length adjusting screw to increase length

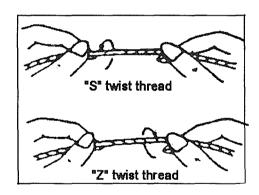
of thread and tighten the screw to decrease length of thread.



3. Selection of thread

It is recommended to use "S" twist thread in the left needle (viewed from front), and "Z' twist thread in the right needle. When discriminate use of needle threads is impossible, use "Z" twist thread in both the needles.

For bobbin thread, "S" twist thread as well as "Z" twist thread can be used.



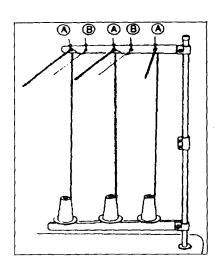
4. Threading of needle threads

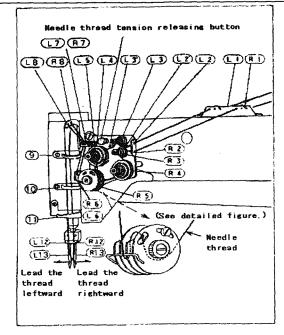
a) Pass each needle thread through thread guide A

Note: When thin slippery thread (polyester Thread or filament thread, for example) is used pass the thread through thread guide B as well.

b) With the take-up lever located at the upper most position, pass each needle thread in the order shown in the following figure.

Note: Pressing the upper thread loosening button shown in the figure below opens the saucer of the upper thread tension adjuster, and the upper thread can easily pulled out.



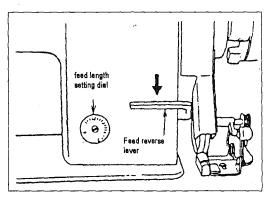


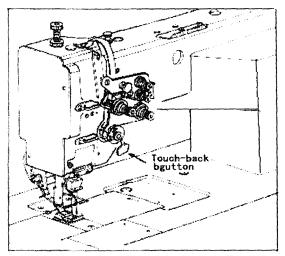
5. Adjustment of feed (stitch) length and stitch reversing (touch back)

Note: To make feed (stitch) length smaller, depress the feed reverse lever and set the feed length setting dial to a desired position

Touch-back button . . . Direction of stitching can be reversed by depressing this button. Stitching goes on in reversed direction while the button is held down, and returns to forward

direction when the button is released.



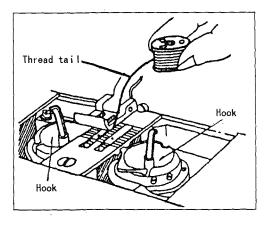


6. Setting of bobbin

- a) Pulling out 5.cm thread tail from the bobbin.
- Hold the bobbin so that the bobbin thread is would in right direction and put it into the hook.

7. Adjusting of needle thread guide

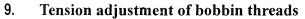
Please adjust needle thread guide of needle thread tension according to sewing condition.

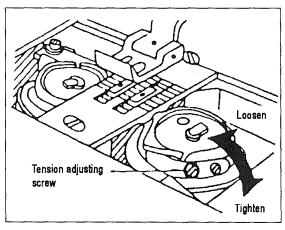


| Thread guide position | Left (| Widdle (| Right |
|-----------------------------|---------------------------------|----------------------|---------------------------------|
| Materials | The thicker then standard | L B Stand- ard | The thinner than standard |
| Moedie 'thread supply | Nore | Standard | Less |

8. Threading of bobbin threads

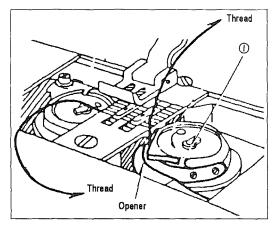
- (1) Put the hook into the bobbin case and press down the latch ①.The thread end should be left on the bed.
- (2) While holding the two needle threads by left hand, rotate the handwheel one turn by right hand. By pulling up the needle threads, as shown in the figure, the bobbin threads will be lifted. Both of bobbin thread and needle thread should be aligned and led backward.

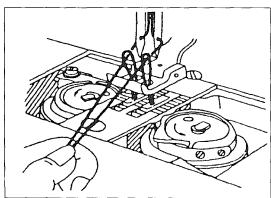




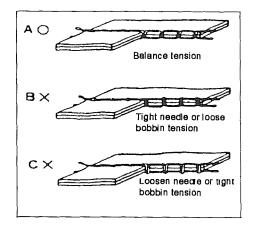
11. Needle thread tension

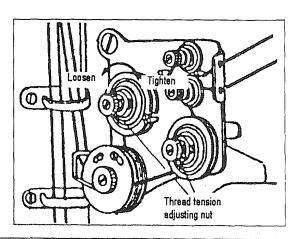
- Needle thread tension should be adjusted in reference to bobbin thread tension.
- To adjust needle thread tension, turn each tension adjusting nut.
- Needle thread tension can be also adjusted for special fabric and thread by changing intensity and movable range of slack thread adjusting spring.





10. Balance of thread tension





12. Adjustment of presser foot pressure

Pressure to fabric(s) can be adjusted by turning The pressure adjusting screw.

13. Timing between rotating hook motion and needle motion

- (1) Set stitch length on the stitch length setting dial shown table.
- (2) When needle is lifted A shown table, from the lowest positional, as shown in Figure, the following positional ship should be maintained.
- The upper edge of needle eye should be 1.0-1.6mm below the hook point.
- The hook point should be located at the center of needle axis.
- Gap between the hook point and the side face of needle should be 0.05mm.

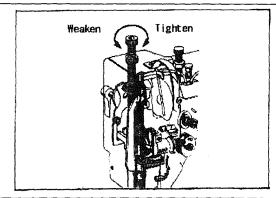
Position adjustment of hook point

Adjust the hook point so that it comes to the center of needle axis.

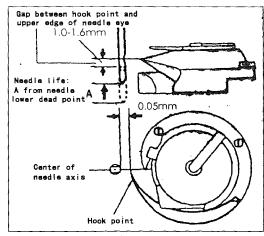
- Lean the machine head backward and loosen three set screws of hook shaft gear (small)
- (2) Turn the balance wheel and stop when the needle is lifted A mm shown table from the lowest position.
- (3) Rotate the hook by hand to position the hook point to the center of needle axis.
- (4) Move the hook bracket leftward or rightward and position it so that gap between the hook point and side face of needle is 0.05mm. For this adjustment, each screws A, B and two of C should be loosened.

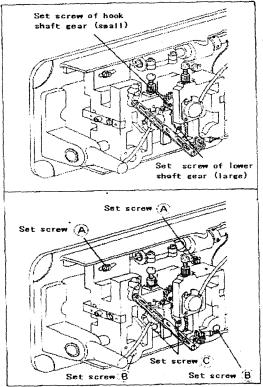
Note: In the adjustment, do not excessively loosen set screws C and always maintain meshing of hook shaft gear and lower shaft gear.

- (5) Tighten the set screws in the following order:
 - a. While pressing the lower shaft gear (large) against the side face of hook bracket, tighten the set screws C first.
 - b. After checking gap between the needle and the hook,



| Class | -M | -B | -H |
|-----------------------|-------|-------|-------|
| Set the stitch length | 3 | 4.5 | 4.5 |
| Needle life A | 2.2mm | 2.4mm | 2.4mm |





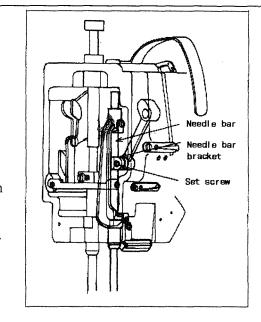
tighten the set screws A.

c. Then tighten the set screws B.

• Position adjustment of needle point

Adjust needle position so that gap between the upper edge of needle eye and the hook point is 1.0-1.6 mm when the needle is lifted by A mm from its lowest position shown in before page.

- (1) Remove the face plate, loosen the set screw of needle bar bracket and vertically move the bar to adjust.
- (2) After the adjustment, tighten the set screw.



14. Adjustment of feed dog height

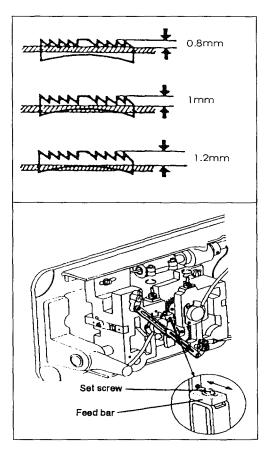
Height of feed dog and pressure of presser foot should be adjusted for individual fabric(s) with the following cautions:

- Fabric will be damaged if the feed dog extends too high, or pressure of presser foot is too large.
- Even stitch length cannot be assured if the feed dog is too low or pressure of presser foot is too small.
- Feed dog height should be measured at the point where the needle is at the top position.

For light fabrics..... Approx. 0.8mm from throat plate
For usual fabrics.....Approx. 1.0mm from throat plate
For heavy fabrics.....Approx. 1.2mm from throat plate

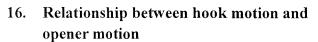
Adjustment procedure

- a) Lean the machine head backward.
- b) Turn the hand wheel by hand and stop when the Feed dog rises to the maximum height.
- c) Loosen the feed bar set screw.
- d) Vertically move the feed bar (in the direction indicated by arrow in the figure) to adjust it to adequate height.
- e) After the adjustment, tighten the feed bar set screw.
 - The feed dog height is factory-adjusted to 1.0mm
- 15. Relationship between rotating hook motion and take-up lever motion

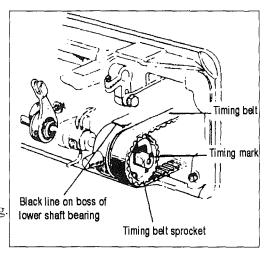


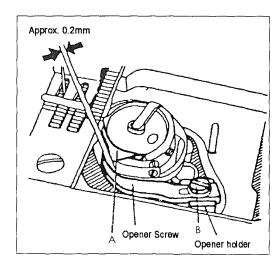
When the timing belt (toothed belt) was removed for its replacement, for example, the relationship between rotating hook motion and take-up lever motion should be adjusted as follows:

- a) Turn the balance wheel and stop when the take-up lever is lifted to its upper dead point.
- b) Lean the machine head backward and make sure the arrow (timing mark) put on the timing belt is in line with the black line on the boss of lower shaft bearing.
- If the timing mark is not in line with the black line,
 remove the timing belt and install it again to adjust.



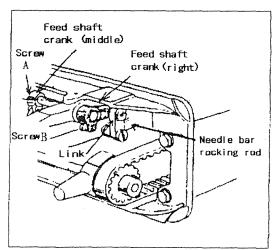
- Turn the balance wheel by hand and stop when the opener holder is located most remotely from the throat plate.
- Make sure gap between the bobbin case holder A and the opener is approximately 0.2mm.
- If the gap is too large or small, loosen the opener set screw B and adjust position of the opener.



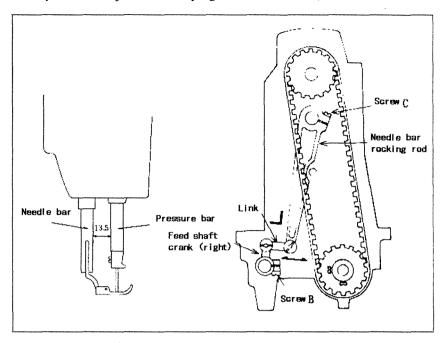


17. Relationship between needle motion and feed dog motion

- The feet dog should be adjusted so that the needle can plunge into the feed dog needle hole at the center of the hole.
- (1) Set stitch length to "0" on the stitch length setting dial
- (2) Lean the machine head backward.
- (3) Loosen the feed shaft crank set Screws A and B
- (4) Set the needle at the lowest position.
- (5) Adjust the distance between the pressure bar and the needle bar to be 13.5, and tentatively tighten the screws A and B of the feed shaft crank.
- (6) Check that the right feed shaft crank is connected with the link at right angle, as shown in Figure.
- (7) If the connection is not at right angle, remove the back cover, loosen screw C and move the needle bar rocking rod in the arrow direction to adjust.

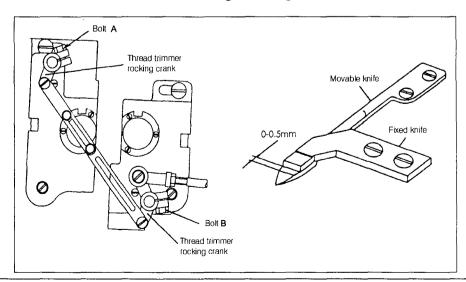


(8) After the completion of adjustment, fully tighten the screws A, B and C.



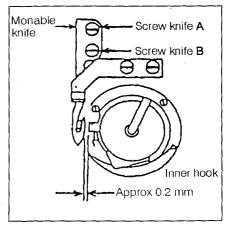
18. Installation of movable knife

- (1) Initial position of movable knife
- a. Turn the balance wheel and lower the needle bar to the lowest position.
- b. Push the cam follower crank so that the cam roller enters into the thread trimmer cam groove.
- c. Turn the balance wheel until the black mark point on the arm meets the white mark point on the balance wheel.
 - Set the cam follower crank at this position with a screwdriver temporarily preventing the cam roller coming out from the cam groove.
- d. Loosen the thread trimmer rocking crank clamp bolts A and B.
- e. Adjust the movable knife so that the movable knife end slant portion protrudes
 0-0.5 mm from the fixed knife, as shown in Figure and tighten the bolts A and B.



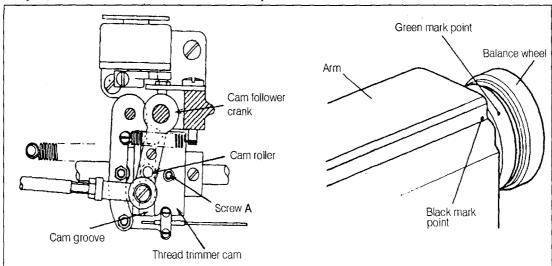
(2) Gap between movable knife and bobbin case holder stopper

- a. Turn the balance wheel by hand until needle reaches the lowest position.
- b. With the needle at the lowest position, depress cam follower crank, turn the balance wheel until the movable knife reaches the extremity of its stroke.
- c. Manually rotate the inner hook in the direction indicated by arrow in Figure and adjust gap between the movable knife and the inner hook stopper to about 0.2 mm (the screws A and B should be loosened for this adjustment).



19. Adjustment of thread trimmer cam

- a. Turn the balance wheel by hand until the needles reach the lowest position.
- b. Maintaining the needle position, depress the cam follower crank and put the cam roller into the groove of thread trimmer cam.
- c. Turning the balance wheel by hand, adjust the thread trimmer cam so that the movable knife starts moving
 - when the green mark point on the balance wheel comes in line with the black mark point on the arm.
- To adjust, loosen two thread trimmer cam clamp screws A.

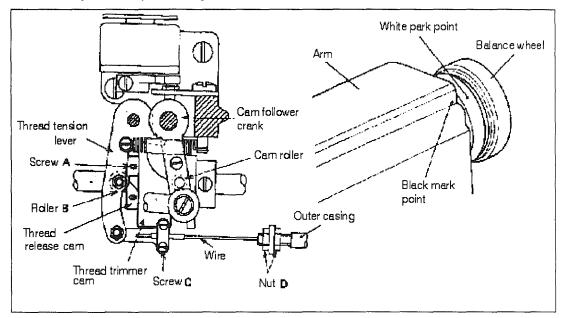


20. Adjustment of needle threads tension release assembly

- a. Turn the balance wheel by hand until the needles reach the lowest position.
- b. Maintaining the needle position, depress the cam follower crank and put the cam roller into the groove of thread trimmer cam.
- c. Turning the balance wheel by hand, adjust the thread tension release cam so that the tension disc close when the white mark point on the balance wheel comes in line with the black mark point on the arm.

 To adjust, loosen two tension release cam clamp screws A.

- Opening degree of tension disc should be adjusted with the tension release roller B mounted on the convex portion of thread release cam, as shown in Fig.
 To adjust, loosen the screws C and draw the wire.
- e. Make fine adjustment by loosening the nut D.

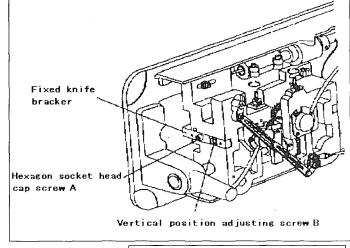


21. Adjustment of meshing pressure of movable knife and fixed knife

- a. Loosen the fixed knife bracket clamp bolt A.
- b. Turn the vertical position adjusting screw B to adjust meshing pressure and then righter the hexagon socket head cap screw A.

Note: Since excess pressure causes large torque to the thread trimming mechanism and trimming failure, adjust it so that thread can be trimmed with minimum pressure.

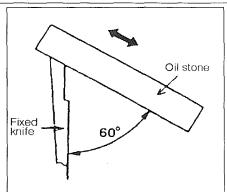
c. Move the movable knife and check that the thread can be sharply trimmed.



22. Sharpening of fixed knife

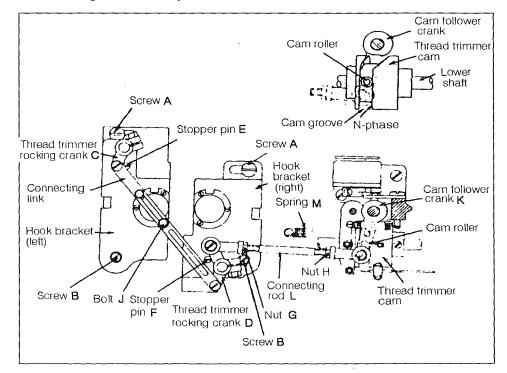
When the knives dull, the fixed should be sharpened as illustrated in Fig.

Since it is very difficult to sharpen the movable knife, replace it with a new one when it dulls.



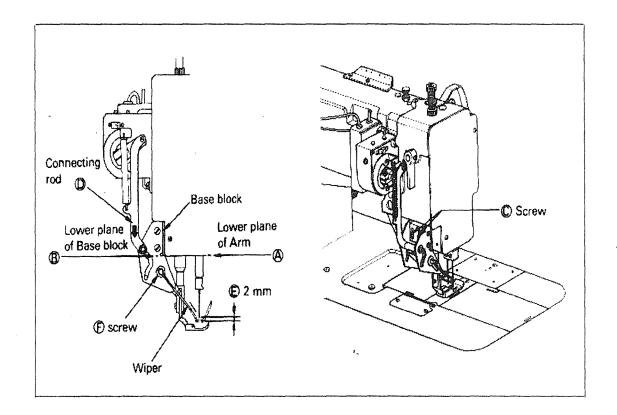
23. Adjustment for change of needle gage

- (1) Replace the throat plate, feed dog and needle clamp.(Since the throat plate and feed dog are special parts designed for thread trimming machine, be sure to use those specified by us.)
- (2) Lean the machine head backward.
- (3) Loosen two connecting link clamp bolts J.
- (4) Remove the spring M.
- (5) Loosen the hook bracket clamp screws A and B and adjust gap between each needle and hook.
- (6) When the needles and hooks have been adjusted, install the spring M.
- (7) Contact the rocking cranks C and D to the stopper pins E and F and tighten the connecting link clamp bolt J.
- (8) Turn the balance wheel by band until the needles reach the lowest position.
- (9) Loosen the nuts G and H.
- (10) Depress the cam follower crank K and adjust the connecting rod L so that the cam roller can smoothly enter the groove of thread trimmer cam.. Then tighten the nuts G and H.
- (11) Adjustment of the cam groove and the cam roller
 - i. Push the cam follower crank so that the cam roller enters into the cam groove.
 - ii. Turn the connecting rod L and adjust the clearance between the cam roller and the cam groove surface N as small as possible, and tighten the nuts G and H.
 - iii. Push the cam follower crank again and check that the cam roller enters into the thread trimmer cam groove smoothly.



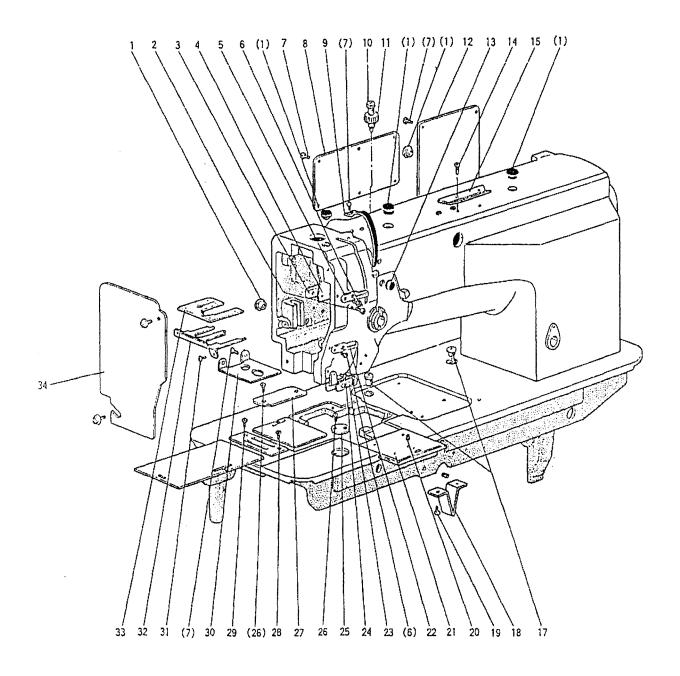
24. Wiper adjustment

- a) Run the machine then stop at "up" position.
- b) Loosen the screw C ,then adjust the base block so that the line A and the line B are the same plane, then tighten the screw C.
- c). Loosen the screw F, then adjust the wiper move so as the E clearance is 2mm, then Tighten the screw F.



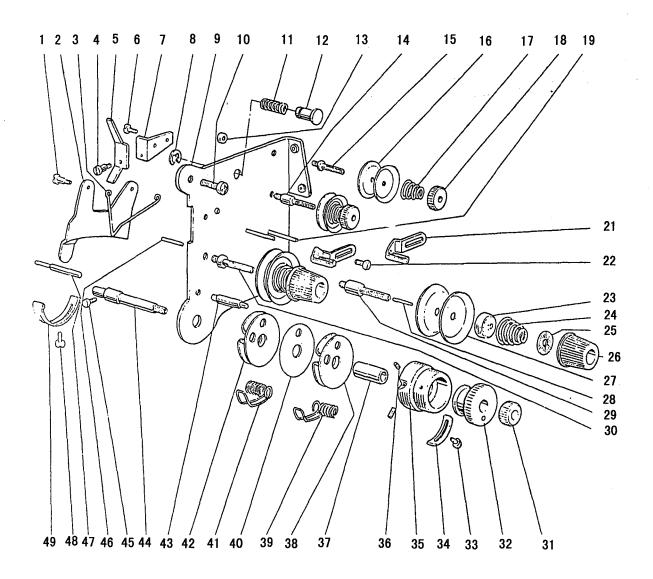
SPECIFICATIONS

| Mo | Model GC20518-M GC20518-M-D GC20518-H | | | | GC20518-B | GC20518-B-D | | |
|-----------|---------------------------------------|--|--|---|--|--|--|--|
| Nur | nber | Double-needle | | | | | | |
| Appli | cation | Light t | o medium heavy n | naterial | Medium to h | neavy material | | |
| Max. sew | ving speed | | 4000rpm | | 300 | 0rpm | | |
| Stitch | length | 0~ | 5mm | | 0~7mm | | | |
| Needle-l | oar stroke | | 33. 4mm | | 35 | mm | | |
| Presser-f | oot stroke | | 13mm by I | Leg 7mi | m by hand | | | |
| Need | le No. | DP×5 | 11#-14# | DP×5 18#-22# | | | | |
| Rotatii | ng hook | Standard vertical-axis hook with self-lubrication | Auto lubrication hook (Thread trimming) | Standard vertical-axis hook with self-lubrication | Large hook with bobbin thread pull-back | (Horizontal full-rotating) Large | | |
| Auto t | rimmer | | √ | | | √ | | |
| | take-up ver | Slide lever | | | | | | |
| | djusting stem | | ` . | Dial | | | | |
| Lubricati | on system | Automatic lubrication | | | | | | |
| Me | otor | Clutch motor 370W | Servo motor 550W | Clutch motor 370W | Clutch motor 370W | Servo motor 550W | | |
| Needle | Standard | | | 6. 4mm | | | | |
| gauge | Special | 2.4 3.2 4 | 4.8 8 9.5 | 5 12.7 16. | 19 25.4 28. | . 6 32 38mm | | |



A.ARM BED AND ITS ACCESSORIES

| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|------------|-------------------------|-----------|-----------|-----------|-------------|-------------|------------------|
| A01 | H3200B2190 | Rubber plug | 5 | 5 | 5 | | | black |
| A01 | H4715B8001 | Rubber plug | | | | 5 | 5 | gray |
| A02 | H2400B2080 | Screw | 2 | 2 | 2 | 2 | 2 | SM3/16 (28) ×11 |
| A03 | H2400B2060 | Spacer | 1 | 1 | 1 | 1 | 1 | |
| A04 | H2400B2050 | Oil guard plate | 1 | l | i | 1 | 1 | |
| A05 | H3200B2070 | Thread guide | 1 | 1 | 1 | 1 | 1 | |
| A06 | H3000D2160 | Screw | 2 | 2 | 2 | 2 | 2 | SM9/64 (40) ×6.5 |
| A07 | HA300C2030 | Screw | 15 | 15 | 15 | 11 | 11 | SM11/64 (40) ×8 |
| A08 | H3200B2030 | Side cover (left) | 1 | 1 | l | 1 | 1 | |
| A09 | H3200B2050 | Thread take-up cover | 1 | - 1 | 1 | | | black |
| A09 | H4717B8001 | Thread take-up cover | | | | 1 | 1 | дтау |
| A10 | H3200K0210 | Thumb sçrew | 1 | 1 | 1 | 1 | 1 | M10×33 |
| A11 | H3200K0220 | Special nut M10 | 1 | 1 | 1 | 1 | . 1 | M10×8.5 |
| A12 | H3200B2040 | Side cover (right) | 1 | 1 | 1 | 1 | 1 | |
| A13 | H2000B2010 | Rubber plug | 1 | 1 | 1 | 1 | 1 | |
| A14 | HA700B2060 | Screw | 2 | 2 | 2 | 2 | 2 | SM11/64 (40) ×8 |
| A15 | H2400B2100 | Thread guide | 1 | - 1 | 1 | 1 | 1 | |
| A17 | H2000M0080 | Cap | 2 | 2 | 2 | 2 | 2 | |
| A18 | H4913B8001 | Supporter | | | , | 1 | . 1 | |
| A19 | H4912B8001 | Screw | | | | 2 | 2 | SM1/4 (24) ×9 |
| A20 | H3200B2170 | Screw | 1 | 1 | 1 | 1 | 1 | SM13/64(32)×4 |
| A21 | H3200B2160 | Slide plate | 1 | 1 | 1 | 1 | 1 | |
| A22 | H3200B2080 | Thread guide (middle) | 1 | 1 | 1 | 1 | 1 | |
| A23 | H3212B0066 | Thread guide (complete) | 1 | 1 | 1 | 1 | 1 | |
| A24 | H3200B2100 | Screw | | | | 1 | 1 | SM9/64(40)×6.5 |
| A25 | H4915B8001 | Cover | | | | 1 | 1 | |
| A26 | H4914B8001 | Screw | | | | 4 | 4 | |
| A27 | H4911B8001 | Cover | | | | 1 | 1 | |
| A28 | HA300B2190 | Screw | 1 | 1 | 1 | 1 | 1 | SM11/64 (40) ×8 |
| A29 | H3200B2120 | Screw | 1 | 1 | 1 | 1 | 1 | SM9/64 (36) ×6.5 |
| A30 | H3200K0240 | Cover | 1 | 1 | 1 - | 1 | . 1 | |
| -A31 | H2004J0067 | Screw | 2 | 2 | 2 | 2 | 2 | SM9/64 (40) ×7 |
| A32 | H3229K0741 | Oil guard plate | l | 1 | 1 | 1 | 1 | |
| A33 | H3229K0742 | • | 1 | 1 | 1. | 1 | 1 | |
| A34 | H3200B2020 | Face plate | 1 | 1 | 1 | | | black |
| A34 | H3205B0065 | Face plate | | | | 1 | 1 | gray |
| | | | | | | | | |

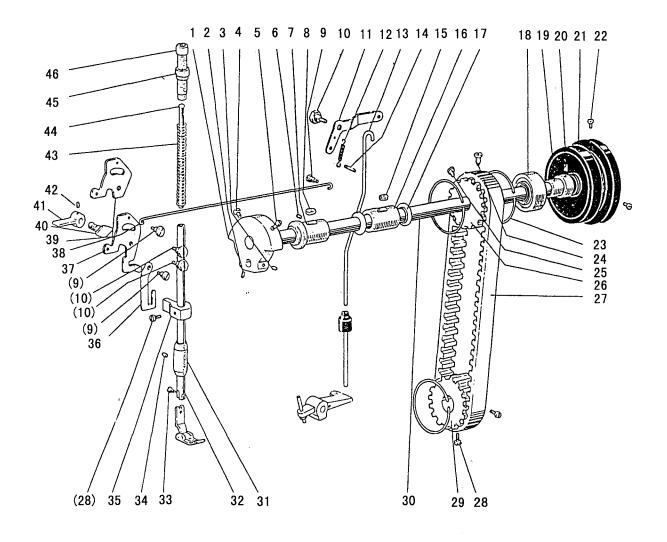


B.THREAD TENSION REGULATOR MECHANISM

| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|------------|--------------------------------|-----------|-----------|-----------|-------------|-------------|------------------|
| B01 | H3221B6811 | Screw | 2 | 2 | 2 | 2 | 2 | SM9/64 (40) ×3 |
| B02 | H3221B3142 | Tension releasing plate | 1 | 1 | 1 | 1 | 1 | · |
| B03 | H3221B6812 | Tension releasing spring | 1 | 1 | 1 | 1 | 1 | : : |
| B04 | H4705C8001 | Screw | | | | 1 | 1 | SM9/64 (40) ×4.2 |
| B05 | H4706C8001 | Lever | | | | 1 | 1 | |
| B06 | HA7311C306 | Screw | | | | 1 | 1 | SM9/64 (40) ×4.5 |
| В07 | H4707C8001 | Mounting plate | | | | 1 | 1 | |
| B08 | H007013050 | Stop ring | | | | 1 | 1 | GB/T896 5 |
| B09 | H3221B6820 | Mounting plate | 1 | 1 | 1 | 1 | 1 | |
| B10 | HA300C2030 | Screw | 2 | 2 | 2 | 2 | 2 | SM11/64 (40) ×8 |
| B11 | H4708C8001 | Spring | | | | 1 | 1 | |
| B12 | H4709C8001 | Push button | | | | 1 | 1 | |
| B13 | H3221B6810 | Nut | 2 | 2 | 2 | 2 | 2 | SM11/64 (40) |
| B14 | H3221B0685 | Thread tension stud | 1 | 1 | 1 | 1 | 1 | |
| B15 | H3221B0683 | Thread tension stud | 1 | 1 | 1 | 1 | 1 | |
| B16 | HA112B0693 | Thread tension disk | 4 | 4 | 4 | 4 | 4 | |
| B17 | H3221B0684 | Thread tension spring | 2 | 2 | 2 | 2 | 2 | |
| B18 | HA710B0671 | Thumb nut | 2 | 2 | 2 | 2 | 2 | SM11/64 (40) |
| B19 | H3221B0682 | Pin | 3 | 3 | 3 | 3 | 3 | |
| B21 | H3221B0687 | Thread guide | 1 | 1 | | 1 | | |
| B21 | H3306B0661 | Thread guide | | | 1 | | 1 | |
| B22 | HA106B0676 | Screw | 1 | 1 | 1 | 1 | 1 | SM9/64 (40) ×6 |
| B23 | HA310B0702 | Thread tension releasing plate | 2 | 2 | 2 | 2 | 2 | |
| B24 | HA115B0703 | Thread tension spring | 1 | 1 | | 1 | | |
| B24 | H3300B2040 | Thread tension spring | | | 1 | | 1 | |
| B25 | HA115B7010 | Thumb nut revolution stopper | 2 | 2 | 2 | 2 | 2 | |
| B26 | HA310B0701 | Thumb nut complete | 2 | 2 | 2 | 2 | 2 | |
| B27 | HA310B0705 | Thread tension disk | -4 | 4 | 4 | 4 | 4 | |
| B28 | H3221B6816 | Pin | 1 | 1 | 1 | 1 | 1 | |
| B29 | H3221B0689 | Thread tension stud | 1 | 1 | 1 | 1 | 1 | |
| B30 | H3221B0686 | Thread tension stud | 1 | 1 | 1 | 1 | 1 | |
| B31 | H32481B721 | Thumb nut | 1 | 1 | 1 | 1 | 1 | SM1/4 (40) |
| B32 | H32481B621 | Take-up spring guide | 1 | 1 | 1 | 1 | 1 | |
| В33 | H32481BC21 | Screw | 1 | 1 | 1 | 1 | 1 | SM9/64 (40) ×6 |
| B34 | H32481BB21 | Stopper | 1 | 1 | 1 | 1 | 1 | |
| B35 | H32481B921 | Thread tension post | 1 | 1 | 1 | 1 | 1 | |
| B36 | H32481B521 | Screw | 2 | 2 | 2 | 2 | 2 | SM1/8 (44) ×3.9 |
| В37 | H32481B821 | Bushing | 1 | 1 | 1 | 1 | 1 | |
| B38 | H32481BF21 | Plate complete | 1 | 1 | 1 | 1 | 1 | |
| B39 | | Thread take-up spring | 1 | 1 | 1 | 1 | 1 | |
| B40 | H32481BE21 | Plate | 1 | 1 | 1 | 1 | 1 | |
| B41 | H32481B221 | Thread take-up spring | 1 | 1 | 1 | . 1 | 1 | |
| B42 | H32481BD21 | Plate complete | 1 | 1 | 1 | 1 | 1 | |

B.THREAD TENSION REGULATOR MECHANISM

| [| | | | | | | | |
|-------------|------------|-----------------------|-----------|-----------|-----------|-------------|-------------|------------------|
| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
| | · | | | | |) D | Ğ | |
| B43 | H32481B421 | Screw | 1 | 1 | 1 | 1 | 1 | SM9/64 (40) ×2.9 |
| B44 | H32481B121 | Thread tension stud | 1 | 1 | 1 | 1 | l | |
| B45 | H2004J0067 | Screw | 1 | 1 | 1 | 1 | 1 | SM9/64 (40) ×7 |
| B46 | H3221B6817 | Pin | 1 | 1 | 1 | 1 | 1 | |
| B47 | H3221B6818 | Tension releasing pin | 1 | 1 | 1 | | | |
| B47 | H4916B8001 | Tension releasing pin | | | | 1 | 1 | |
| B48 | H3200B2100 | | 1 | 1 | 1 | 1 | 1 | SM9/64 (40) ×6.5 |
| B49 | H3221B6819 | • | 1 | 1 | 1 | 1 | 1 | |
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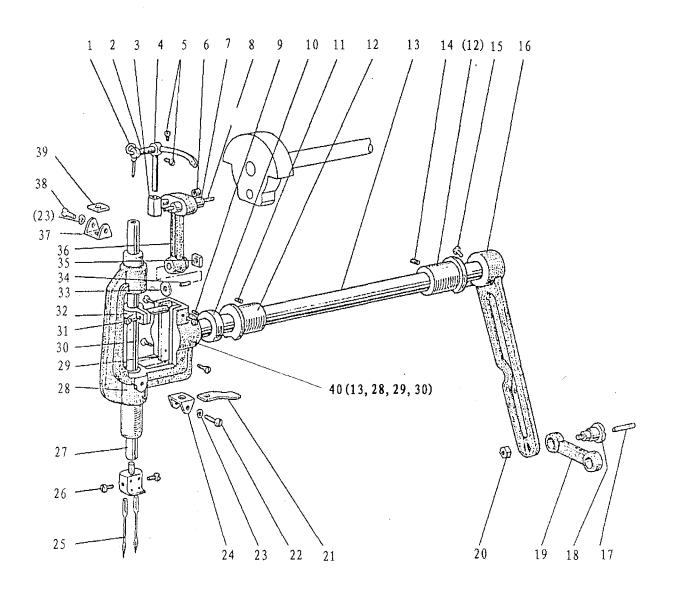


C.ARM SHAFT & PRESSER FOOT MECHANISM

| Fig. No. | Part No. | Description | GC20518-M | СС20518-Н | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|------------|----------------------------|-----------|-----------|-----------|-------------|-------------|--------------------|
| C01 | H3204C0021 | Crank | 1 | 1 | | 1 | | |
| C01 | H3304C0011 | Crank | | | 1 | | 1 | |
| C02 | HA105D0662 | Screw | 1 | 1 | 1 | 1 | 1 | SM1/4 (40) ×3.5 |
| C03 | HA307C0662 | Set screw | 1 | 1 | 1 | 1 | 1 | SM1/4 (40) ×7 |
| C04 | HA100C2060 | screw | 1 | 1 | 1 | 1 | 1 | SM9/32 (28) ×14 |
| C05 | HA100C2070 | screw | 1 | 1 | 1 | 1 | 1 | SM9/32 (28) ×13 |
| C06 | H2405D0664 | Set screw | 1 | 1 | 1 | 1 | 1 | SM15/64 (28) ×14 |
| C07 | H3204B0011 | Arm shaft bushing (left) | 1 | 1 | 1 | 1 | 1 | |
| C08 | H32111B104 | Felt | 1 | 1 | 1 | 1 | 1 | |
| C09 | HA107H0662 | screw | 3 | 3 | 3 | 3 | 3 | |
| C10 | HA100H2050 | screw | 3 | 3 | 3 | 3 | 3 | |
| C11 | H3211E0691 | Knee lifter lever (right) | 1 | 1 | 1 | 1 | 1 | ļ |
| C12 | H3211E0692 | Spring | 1 | 1 | 1 | 1 | 1 | |
| C13 | H3211E0693 | Knee lifter connecting rod | 1 | 1 | 1 | 1 | 1 | |
| C14 | H3200E2090 | Pin | 1 | 1 | 1 | 1 | 1 | |
| C15 | H32111B104 | Felt | 1 | 1 | | 1 | | |
| C16 | H32175B104 | Arm shaft bushing (middle) | 1 | 1 | | 1 | | |
| C17 | HA109D0070 | Oil seal | 2 | 2 | | 2 | | |
| C18 | H3205J0662 | Ball bearing | 1 | 1 | 1 | | | 6204ZZNR/5K |
| C19 | H3205J0661 | Bushing | 1 | 1 | 1 | | | |
| C20 | HA113F0684 | screw | 2 | 2 | 2 | | | SM15/64 (28) ×8.5 |
| C21 | H3204J0652 | Pulley | 1 | 1 | 1 | | | |
| C22 | HA110D0672 | screw | 2 | 2 | 2 | | | SM15/64 (28) ×12 |
| C23 | H3205C0661 | Spring flange | 3 | 3 | 3 | 3 | 3 | |
| C24 | HA100F2130 | screw | 1 | 1 | 1 | 1 | 1 | SM15/64 (28) ×14.5 |
| C25 | HA113F0684 | screw | 1 | 1 | 1 | 1 | 1 | SM15/64 (28) ×8.5 |
| C26 | H3205C1021 | Pulley(upper) | 1 | 1 | 1 | 1 | 1 | |
| C27 | H3200C2030 | · · · · · | 1 | 1 | 1 | 1 | 1 | |
| C28 | HA104F0654 | screw | 3 | 3 | 3 | 3 | 3 | SM15/64 (28) ×10 |
| C29 | H3207C0671 | Pulley(lower) | 1 1 | 1 | 1 | 1 | 1 | |
| C30 | H3204C0651 | • • • | 1 | 1 | 1 | | | <u> </u> |
| C30 | H6906D8001 | Arm shaft | | | | 1 | 1 | |
| C31 | HA704B0651 | · · | 1 | 1 | 1 | 1 | 1 | |
| C32 | H3200E2010 | - | 1 | 1 | 1 | 1 | 1 | |
| C33 | H3200E2020 | screw | 1 | 1 | 1 | 1 | 1 | SM1/8(44)×9 |
| C34 | HA100C2020 | | 1 | 1 | 1 | 1 | 1 | SM15/64(28)×10 |
| C35 | į . | Presser bar guide bracket | 1 | 1 | 1 | 1 | 1 | |
| C36 | | Operation plate | 1 | 1 | 1 | 1 | 1 | |
| C37 | | Knee lifter lever left | . 1 | 1 | 1 | • | • | 1 |
| C38 | | Knee lifter rod | 1 | | 1 | 1 | 1 | |
| C39 | ĺ | Knee lifter lever left | 1 | • | | 1 | i | |
| C40 | | Presser bar lifting cam | 1 | | 1 | 1 | 1 | |
| C41 | ł | Presser bar lifter | 1 | 1 | 1 | 1 | 1 | |

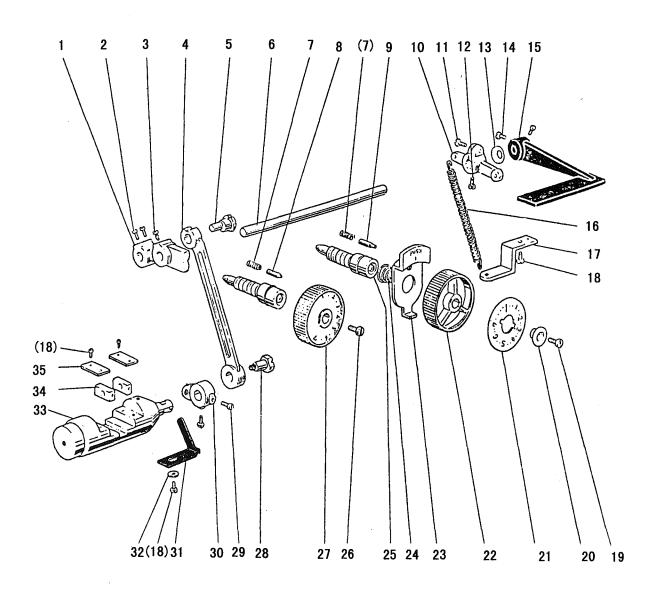
C.ARM SHAFT & PRESSER FOOT MECHANISM

| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|------------|----------------------|-----------|-----------|-----------|-------------|-------------|-------------------|
| C42 | HA100B2110 | screw | 2 | 2 | 2 | 2 | 2 | SM11/64 (40) ×6.6 |
| C43 | H3200E2100 | | 1 | 1 | 1 | 1 | 1 | |
| C44 | | Presser spring guide | 1 | 1 | 1 | 1 | 1 | |
| C45 | HA117H0692 | | 1 | 1 | 1 | 1 | 1 | SM1/2 (28) |
| C46 | HA309H0681 | | 1 | 1 | 1 | 1 | | SM1/2 (28) ×49 |
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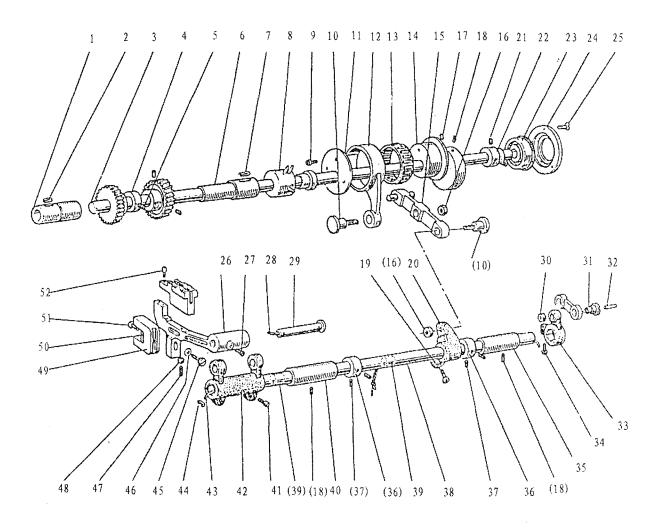
D.NEEDLE BAR ROCKING MOTION MECHANISM

| Fig. No. | Part No. | Description | М | Н | В | M 1 | H 1 | Remarks |
|-------------|------------|----------------------------------|----------|---|---|---------------|--------|------------------|
| D01 | H2405D1122 | Oil wick | 1 | 1 | 1 | i | 1 | |
| D02 | H32422C108 | Thread take-up guide bracket pin | 1 | 1 | 1 | 1 | 1 | |
| D03 | H32411C208 | Thread take-up link | 1 | 1 | | 1 | | |
| D03 | H2405D1112 | Thread take-up link | | | 1 | | 1 | |
| D04 | H32411C108 | Thread take-up lever | 1 | 1 | | 1 | | |
| D04 | H2505D1111 | Thread take-up lever | | | 1 | | ī | , |
| D05 | HA110D0672 | Screw | 3 | 3 | 3 | 3 | 3 | SM15/64 (28) ×12 |
| D06 | H24211D305 | Plug | 1 | 1 | 1 | 1 | 1 | |
| D07 | H2405D0662 | Needle bar crank pin | 1 | 1 | 1 | 1 | 1 | |
| D08 | H24211D405 | Oil wick | 1 | ì | 1 | 1 | .1 | |
| D09 | HA307C0662 | Screw | 1 | 1 | 1 | 1 | 1 | SM11/64 (40) ×6 |
| D10 | H3205D0661 | Coller | 1 | 1 | l | 1 | 1 | |
| DH | HA3411D308 | Screw | 1 | 1 | 1 | 1 | 1 | SM15/64 (28) ×7 |
| D12 | H3204B0652 | Needle bar rock shaft bushing | 2 | 2 | 2 | 2 | 2 | |
| D13 | H3204D0652 | Needle bar rock shaft | 1 | 1 | 1 | 1 | 1 | |
| D14 | HA100C2020 | Screw | 1 | 1 | 1 | I | 1 | SM15/64 (28) ×10 |
| D15 | H2012N0652 | Screw | 1 | 1 | 1 | 1 | 1 | SM1/4 (24) ×16 |
| D16 | H32311D106 | Needle bar rock shaft crank | 1 | 1 | 1 | 1 | 1 | |
| D17 | H32311D406 | Oil wick | 1 | 1 | 1 | ì | 1 | |
| D18 | H32311D306 | Screw | 1 | 1 | 1 | 1 | 1 | SM5/16(24)×26.2 |
| D19 | H32311D206 | Link | 1 | 1 | 1 | ı | 1 | |
| D20 | H32311D506 | Nut | 1 | l | 1 | i | 1 | SM5/16(24) |
| D21 | H3204D0656 | Felt | 1 | 1 | 1 | 1 | 1 | |
| D22 | H3204D6510 | Screw | 2 | 2 | 2 | 2 | 2 | SM1/8(44)×4.8 |
| D23 | H005008030 | Spring washer | 4 | 4 | 4 | 4 | 4 | GB/T93 3 |
| D24 | H3204D0657 | • • | 1 | l | 1 | 1 | 1 | |
| D25 | H3204D0658 | | 2 | 2 | | 2 | | |
| D25 | H3304D0651 | Needle | | | 2 | | 2 | |
| D26 | H32132D104 | | 2 | 2 | 2 | 2 | 2 | SM9/64(40)×3 |
| D27 | H32111D404 | | 1 | 1 | 1 | 1 | 1 | |
| D28 | l | Needle bar rock frame | 1 | 1 | 1 | 1 | 1 | |
| D29 | H32111D204 | • | 2 | 2 | 2 | 2 | 2 | |
| D30 | H32111D304 | | 4 | 4 | 4 | 4 | 4 | SM3/32(56)×4 |
| D31 | H32111D604 | | 1 | 1 | 1 | 1 | 1 | SM9/64(40)×8.5 |
| D32 | | Needle bar connecting stud | 1 | 1 | 1 | ı | 1 | |
| D33 | H3204D6512 | = | . i | 1 | 1 | I | 1 | |
| D34 | H3204D6513 | | 1 | 1 | 1 | 1 | 1 | |
| D35 | H32111D804 | | 1 | 1 | 1 | 1 | | |
| D36 | | Needle bar connecting link | | 1 | 1 | 1 | i 1 | |
| D37 | H3204D0655 | _ | ı I | i | 1 | 1 | 1 | |
| D38 | H3204D6511 | | 2 | 2 | 2 | 2 | 2 | SM1/8(44)×3.5 |
| D39 | H3204D0654 | | 1 | 1 | 1 | 1 | 1 | 5 |
| D40 | İ | Needle bar rock complete - | l ' | 1 | 1 | 1 | 1 | |



E.STITCH REGULATOR MECHANISM

| Fig. | Part No. | Description | GC20518-M | СС20518-Н | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|------|------------|---------------------------------|-----------|-----------|-----------|-------------|-------------|--------------------|
| E01 | H3204F0651 | Feed regulator | 1 | 1 | 1 | 1 | 1 | |
| E02 | HA113F0684 | Screw | 2 | 2 | 2 | 2 | 2 | SM15/64 (28) ×8.5 |
| E03 | H3200F2020 | Screw | 1 | 1 | 1 | 1 | · 1 | SM15/64(28)×12 |
| E04 | H3206F0661 | Connecting link | 1 | 1 | 1 | 1 | 1 | |
| E05 | HA100G2070 | Eccentric shaft | 1 | 1 | 1 | 1 | 1 | |
| E06 | H3200F2060 | Reverse stitch shaft | 1 | 1 | 1 | <u> </u> | i | |
| E06 | H6904F8001 | Reverse stitch shaft | | | ļ | 1 | 1 | |
| E07 | H3200F2110 | Spring | 1 | 1 | 1 | 1 | 1 | |
| E08 | HA100F2080 | Pin | 1 | 1 | 1 | | | |
| E09 | HA700F2030 | Pin | | | | 1 | 1 | |
| E10 | H3207F0671 | Arm | 1 | 1 | 1 | | | |
| E10 | H4905G8001 | Arm | | | | 1 | 1 | |
| E11 | HA800F2020 | Screw | 1 | 1 | 1 | 1 | 1 | SM15/64 (28) ×16.5 |
| E12 | H3207F0672 | Screw | 1 | 1 | 1 | 1 | 1 | SM11/64(40)×8.5 |
| E13 | HA100F2110 | Spring washer | 1 | 1 | 1 | | | |
| E14 | HA113F0684 | | 2 | 2 | 2 | i | | SM15/64 (28) ×8.5 |
| E15 | H3216F0071 | Reverse sewing lever (complete) | 1 | 1 | 1 | | | |
| E15 | | Reverse sewing lever | | | | | 1 | |
| E16 | H3207F0673 | | 1 | 1 | 1 | 1 | 1 | |
| E17 | l | Bracket for spring | 1 | 1 | 1 | | | |
| E18 | HA300C2020 | . • | 6 | 6 | 6 | 5 | 5 | SM11/64(40)×8 |
| E19 | HA720F0686 | Screw | 1 | 1 | 1 | 1 | 1 | SM3/6(28)×12 |
| E20 | HA720F0685 | Bushing | 1 | 1 | 1 | 1 | 1 | |
| E21 | | Stitch length indicating plate | | | | 1 | | |
| E21 | 1 | Stitch length indicating plate | | | | | 1 | |
| E22 | HA7421F120 | | ļ | | | | 1 | |
| E23 | | Stopper pin releasing lever | | | | 1 | 1 | |
| E24 | HA720F0687 | _ | | | | | 1 | |
| E25 | İ | Screw bar | | | | 1 | 1 | |
| E26 | HA109F0673 | | 1 | 1 | 1 | | | SM3/6(28)×8 |
| E27 | H3213F0702 | | 1 | | | | | |
| E27 | H3304F0651 | | | 1 | 1 | | | |
| E28 | H3206F0662 | | 1 | 1 | 1 | 1 | 1 | SM1/4(40)×8 |
| E29 | | Screw | 2 | 2 | 2 | 2 | 2 | M5×6 |
| E30 | ł | Stitch regulating crank lower | 1 | 1 | 1 | 1 | 1 | |
| E31 | | Holding plate of reverse bar | 1 | 1 | 1 | 1 | 1 | |
| E32 | HA703R0067 | | 1 | 1 | | 1 | 1 | |
| E33 | H3212F0692 | | 1 | 1 | 1 | 1 | 1 | |
| E34 | i | Square block | 2 | 2 | 2 | 2 | 2 | |
| E35 | | Guide plate | 2 | 2 | 2 | 2 | 2 | |
| | | · | | - | | - | _ | |

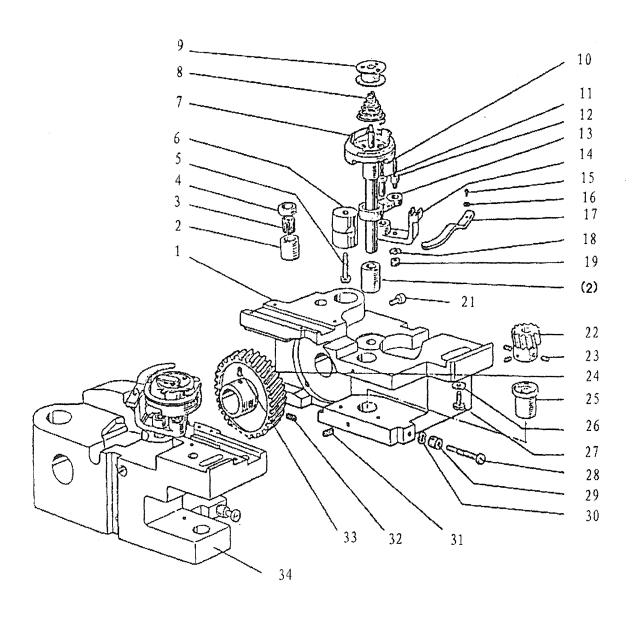


F.LOWER SHAFT & FEED ROCK SHAFT MECHANISM

| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|------------|---------------------------------|-----------|-----------|-----------|-------------|-------------|------------------|
| F01 | H32132B104 | Lower shaft bushing left | 1 | 1 | 1 | 1 | 1 | |
| F02 | H32132B204 | Oil wick | 1 | 1 | 1 | 1 | 1 | |
| F03 | H3200H2010 | Lower shaft | 1 | 1 | l | 1 | 1 | |
| F04 | H3205H0655 | Feed lifting cam | 1 | 1 | 1 | 1 | 1 | |
| F05 | H3205H0654 | Screw | 1 | 1 | 1 | 1 | 1 | SM1/4(40)×5 |
| F06 | H32143B104 | Lower shaft bushing right | 1 | 1 | 1 | 1 | 1 | |
| F07 | H32132B204 | Oil wick | 1 | 1 | 1 | 1 | 1 | |
| F08 | H32154B104 | Lower shaft bushing middle | 1 | 1 | . 1 | 1 | 1 | |
| F09 | HA700F2100 | Screw | 3 | 3 | 3 | 3 | 3 | SM11/64(40)×7 |
| F10 | H3208G0674 | Screw | 2 | 2 | 2 | 2 | 2 | SM1/4(24)×22 |
| F11 | H32372G208 | Washer | 1 | 1 | 1 | 1 | 1 | |
| F12 | H32372G408 | Feed connecting rod | 1 | 1 | 1 | 1 | l | |
| F13 | H32372G308 | Needle bearing | 1 | 1 | 1 | 1 | 1 | K32×37×13 |
| F14 | H32372G108 | Lever feed connecting cam | 1 | | | 1 | | |
| F14 | H3305G1011 | Lever feed connecting cam | | 1 | 1 | | 1 | |
| F15 | H32311G108 | Link | 1 | 1 | 1 | 1 | 1 | |
| F16 | H3208G0675 | Nut | 2 | 2 | 2 | 2 | 2 | SM1/4(24) |
| F17 | HA100C2020 | Screw | I | 1 | l | 1 | 1 | SM15/64 (28) ×10 |
| F18 | H2405D0664 | Screw | 3 | 3 | 3 | 3 | 3 | SM15/64 (28) ×14 |
| F19 | H3208G0676 | Screw | 1 | 1 | 1 | 1 | I | SM15/64(28)×14 |
| F20 | H3208G0673 | Connecting rod crank | 1 | 1 | 1 | 1 | 1 | |
| F21 | HA105D0662 | Screw | 2 | 2 | 2 | 2 | 2 | SM1/4 (40) ×6 |
| F22 | H3208H0662 | Bushing | 1 | 1 | 1 | I | 1 | |
| F23 | H3208H0661 | Ball bearing | 1 | 1 | 1 | 1 | 1 | 6004ZZNR/5K |
| F24 | Н3200Н2060 | Bearing holder | 1 | 1 | 1 | 1 | 1 | |
| F25 | HA7311C306 | Screw | 3 | 3 | 3 | 3 | 3 | SM9/64 (40) ×7 |
| F26 | H3205G1111 | Feed bar | 1 | 1 | 1 | , | | |
| F26 | H4942H8001 | Feed bar | | | | 1 | 1 | |
| F27 | H3205G1114 | Screw | 1 | 1 | 1 | 1 | 1 | M5×5 |
| F28 | H3205G0662 | Oil wick | 1 | 1 | 1 | 1 | 1 | |
| F29 | H32243G205 | Feed bar shaft | 1 | 1 | 1 | 1 | 1 | |
| F30 | H3206D0674 | Nut | 1 | 1 | 1 | 1 | 1 | SM5/16(24)×5 |
| F31 | H32311D306 | Screw | 1 | 1 | 1 | 1 | 1 | SM5/16(24)×26.2 |
| F32 | H32311D406 | Oil wick | 1 | 1 | 1 | 1 | 1 | |
| F33 | H32333D106 | Feed rock shaft crank (right) | 1 | 1 | 1 | 1 | 1 | |
| F34 | H2012N0652 | Screw | 1 | 1 | 1 | 1 | 1 | SM1/4 (24) ×16 |
| F35 | H3204B0656 | Feed rock shaft bushing (right) | 1 | 1 | 1 | 1 | 1 | |
| F36 | HA108G0661 | Collar | 2 | 2 | 2 | 2 | 2 | |
| F37 | HA105D0662 | Screw | 4 | 4 | 4 | 4 | 4 | SM1/4 (40) ×4 |
| F38 | H3204G0651 | Feed rock shaft | 1 | 1 | 1 | 1 | 1 | |
| F39 | H3204G0652 | Felt | 2 | 2 | 2 | 2 | 2 | |
| F40 | HA100G2120 | Feed rock shaft bushing (left) | 1 | 1 | 1 | 1 | 1 | , |
| F41 | HA104G0012 | Screw | 2 | 2 | 2 | 2 | 2 | SM3/16(28)×12 |

F.LOWER SHAFT & FEED ROCK SHAFT MECHANISM

| Fig. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|------|------------|------------------------------|-----------|-----------|-----------|-------------|-------------|----------------|
| F42 | H3205G1032 | Feed rock shaft Crank (left) | 1 | 1 | 1 | | | |
| F42 | i | Feed rock shaft Crank (left) | | | | 1 | 1 | |
| F43 | H3205G0662 | Oil wick | 1 | 1 | 1 | 1 | 1 | |
| F44 | H3200G2030 | Holder | 1 | 1 | 1 | 1 | 1 | |
| F45 | H3200H2040 | Bolt | 1 | 1 | 1 | l · | 1 | SM15/64(28)×18 |
| F46 | H005001060 | Washer | 1 | 1 | 1 | 1 | 1 | GB/T97.1 6 |
| F47 | H3205G1112 | Screw . | 1 | 1 | 1 | 1 | 1 | M3×14 |
| F48 | H003056030 | Nut | 1 | 1 | 1 | 1 | 1 | M3 |
| F49 | H3205H0651 | Feed bar connecting fork | 1 | 1 | 1 | 1 | 1 | |
| F50 | H3205H0652 | | 1 | 1 | 1 | 1 | 1 | |
| F51 | H3205H0653 | | 1 | 1 | 1 | 1 | | SM1/8(44)×4 |
| F52 | H32211G205 | | 2 | 2 | 2 | 2 | 2 | SM1/8(40)×7 |
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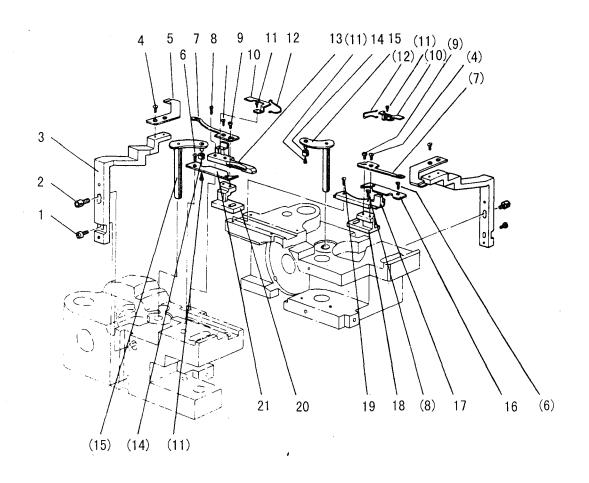


G.HOOK SADDLE MECHANISM

| Fig. No. | Part No. | Description | GC20518-M | СС20518-Н | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|--------------------|-------------------------------|-----------|-----------|-----------|-------------|-------------|------------------|
| G01 | H320410651 | Hook saddle (right) | 1 | 1 | | | | |
| G01 | H3304I0651 | Hook saddle (right) | | | 1 | | | |
| G01 | H6904H8001 | Hook saddle (right) | | | | 1 | | j |
| G01 | H490618001 | Hook saddle (right) | | | | | 1 | |
| G02 | H321211104 | Hook shaft bushing (upper) | 2 | •2 | | 2 | | |
| G02 | H33121I104 | Hook shaft bushing (upper) | | | 2 | | 2 | |
| G03 | H321211204 | Needle bearing | 2 | 2 | | 2 | | K9.5×12.5×9.8 |
| G04 | H32121I304 | Spacer | 2 | 2 | | 2 | | |
| G04 | H33121I204 | Spacer | | | 2 | | 2 | |
| G05 | H3207I0661 | Screw | 2 | 2 | 2 | 2 | 2 | SM15/64(28)×30 |
| G06 | H3207I0066 | Bushing | 2 | 2 | 2 | 2 | 2 | |
| G07 | H3204I6512 | Hook complete | 2 | 2 | | | | 1 |
| G07 | H3308I0069 | Hook complete | | | 2 | | | |
| G07 | <u></u> Н6909Н8001 | Hook complete | | | | 2 | | |
| G07 | H9209H8001 | Hook complete | | | | | 2 | |
| G08 | H6906H8001 | Spring | | | | 2 | | |
| G08 | H4922I8001 | Spring | | | | | 2 | |
| G09 | H2400I2020 | Bobbin | 2 | 2 | | | | |
| G09 | H3300I2060 | Bobbin | | | 2 | | ! | |
| G09 | H6907H8001 | Bobbin | | | | 2 | | |
| G09 | H4912I8001 | Bobbin | | | | , | 2 | |
| G10 | H3204I0656 | Oil wick | 2 | 2 | 2 | 2 | 2 | |
| G11 | H32153I504 | Bobbin case opener holder pin | 2 | . 2 | 2 | 2 | 2 | |
| G12 | H32153I204 | Screw | 2 | 2 | 2 | 2 | 2 | SM3/16 (30) ×7.8 |
| G13 | H32153I304 | Ling | 2 | 2 | | 2 | | |
| G13 | H331311204 | Ling | İ | | 2 | | 2 | |
| G14 | H32153I104 | Bobbin case opener holder | 2 | 2 | | | | |
| G14 | H33131I104 | Bobbin case opener holder | - | · | 2 | | 2 | |
| G15 | H2004J0067 | Screw | 2 | 2 | 2 | 2 | 2 | SM9/64 (40) ×7 |
| G16 | H3200I2030 | Washer | . 2 | 2 | 2 | 2 | 2 | |
| G17 | H320012020 | Opener | 2 | 2 | | 2 | | |
| G17 | H3305I0066 | Opener | | | 2 | | 2 | |
| G18 | H005008050 | Spring washer | 2 | 2 | 2 | 2 | 2 | GB/T93 5 |
| G19 | HA104G0658 | Nut | . 2 | . 2 | 2 | 2 | 2 | |
| G21 | H3204I0657 | Screw | 2 | 2 | 2 | 2 | 2 | SM3/16(28)×14.5 |
| G22 | H32142I204 | Gear (small) | 2 | 2 | 2 | 2 | 2 | |
| G23 | HA105D0662 | Screw | 6 | 6 | 6 | 6 | 6 | SM1/4 (40) ×4 |
| G24 | H32142I104 | Gear (large) | 2 | 2 | 2 | 2 | 2 | |
| G25 | H3204I0653 | Hook shaft bushing (lower) | 2 | 2 | 2 | 2 | 2 | |
| G26 | l | Washer | 2 | 2 | 2 | 2 | 2 | |
| G27 | | Screw | 2 | 2 | 2 | 2 | 2 | SM1/4(24)×23 |
| G28 | | Screw | 2 | 2 | 2 | 2 | 2 | SM3/16(28)×43 |
| G29 | | Nut | 2 | 2 | 2 | 2 | 2 | SM3/16(28)×9 |

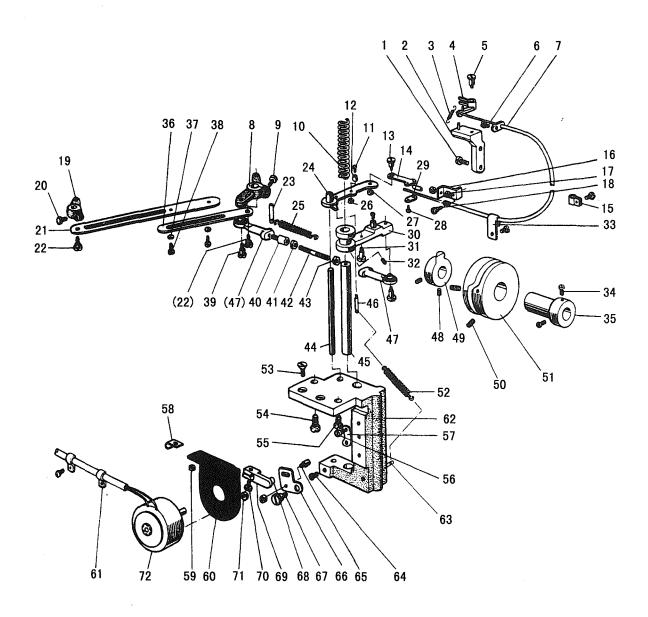
G.HOOK SADDLE MECHANISM

| Fig. | Part No. | Description - | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|------|-------------|--------------------|-----------|-----------|-----------|-------------|-------------|-------------------|
| G30 | H005014050 | Spring washer | 1 | 1 | 1 | l | 1 | GB/T955 5 |
| G31 | HA305E0662 | I . | 4 | 4 | 4 | 4 | 4 | SM15/64 (28) ×4.5 |
| G32 | HA307C0662 | | 2 | 2 | 2 | 2 | 2 | SM1/4 (40) ×6 |
| G33 | H3204I6510 | | 2 | 2 | 2 | 2 | 2 | SM1/4(40)×6.5 |
| G34 | | Hook saddle (left) | 1 | 1 | | | | () |
| G34 | I . | Hook saddle (left) | | | I | | | |
| G34 | 1 | Hook saddle (left) | | | · | 1 | | |
| G34 | 1 | Hook saddle (left) | | | | , | 1 | |
| 034 | 11491718001 | Hook saddle (left) | | | | | 1 | |
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H.KNIFE MECHANISM (—)

| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|------------|-----------------------|-----------|-----------|-----------|-------------|-------------|------------------|
| H01 | H4905J8001 | Screw | | | | 2 | 2 | SM9/64 (40) ×7 |
| H02 | H4906J8001 | Bolt | | | | 2 | 2 | |
| H03 | H4907J8001 | Trimming knife holder | | | | 2 | 2 | |
| H04 | H4908J8001 | Screw | | | i | 6 | 6 | SM9/64 (40) ×5 |
| H05 | H4909J8001 | Fixed blade | | | | 2 | 2 | |
| H06 | H4914B8001 | Screw | | | | 4 | 4 | SM9/64 (40) ×4 |
| H07 | H4911J8001 | Move knife | | | | 2 | 2 | |
| H08 | H4912J8001 | Screw | | | | 2 | 2 | SM1/8 (40) ×9.2 |
| H09 | H4913J8001 | Screw | | | | 2 | 2 | SM9/64 (40) ×4.5 |
| H10 | H4914J8001 | Spring plate | | | | 2 | 2 | |
| HII | H4915J8001 | Screw | | | | 6 | 6 | SM3/32 (56) ×3.8 |
| H12 | H4916J8001 | Reversing spring | | | | 2 | 2 | |
| H13 | H690518001 | Gulde (left) | | | | 1 | ١ | |
| H13 | H4917J8001 | Gulde (left) | | | | | 1 | |
| H14 | H4920J8001 | Roller . | | | | 2 | 2 | |
| H15 | H4921J8001 | Lever | | | i | 2 | 2 | |
| H16 | H4922J8001 | Cover (right) | | | | 1 | 1 | |
| H17 | 1 | Guide (right) | | } | | 1 | | |
| H17 | 1 | Guide (right) | | | | | 1 | |
| H18 | i e | Knife pad (right) | | | | 1 | 1 | |
| H19 | Į. | Screw | | | | 1 | 1 | SM9/64 (40) ×9.5 |
| H20 | i | Knife pad (left) | | ĺ | | 1 | 1 | |
| H21 |) | Cover (left) | | | | 1 | 1 | |
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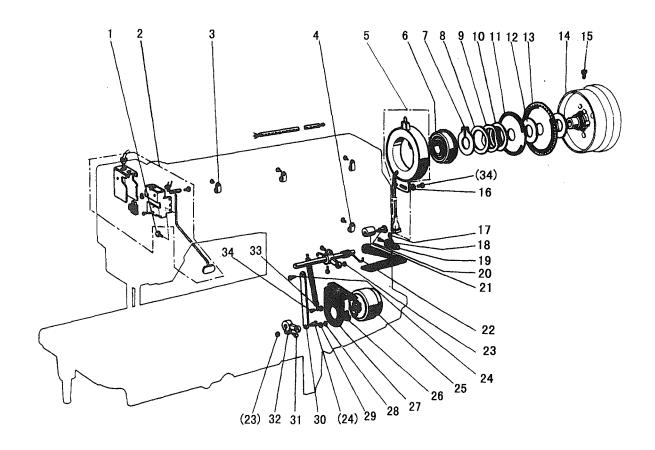


I.KNIFE MECHANISM (=)

| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|--------------------------|--------------------------|-----------|-----------|-----------|-------------|-------------|--------------------|
| 101 | HA300C2030 | Screw | | | | 2 | 2 | SM11/64 (40) ×8 |
| I02 | | Thread releading bracket | | | | 1 | 1 | 1 |
| 103 | l | Spring | ļ | | | 1 | 1 | |
| I04 | 1 | Thread releading plate | | | | 1 | 1. | |
| 105 | | Screw | | | | 1 | 1 | SM11/64 (40) ×5 |
| 106 | HA300B2170 | | , | | | 4 | 4 | SM11/64 (40) ×8 |
| 107 | 1 | Flexible wire complete | | | | 1 | 1 | |
| 108 | 1 | Arm | | | | 1 | | |
| 108 | | Arm | | | | | 1 | |
| 109 | [| Bolt | | | | ì | 1 | SM15/64 (28) ×12.5 |
| 110 | H4945K8001 | ' ' | | | | 1 | 1 | |
| III | H4950K8001 H4949K8001 | Roller | | | | 1 . | 1 | SM11/64 (40) ×3.6 |
| I12 | H4949K8001 | | | | | 1 | . 1 | |
| I14 | 1 | Mounting plate |] | | | 1 | 1 | SM3/16 (28) ×5 |
| 115 | HA708P0668 | | | | | 1 | l i | |
| 1116 | | Mounting plate | | | | 1 | 1 | |
| 117 | · | Nut | | | | 1 | 1 | CD //2/120 1/2 |
| 118 | | Screw | | | | 2 | 2 | GB/T6170 M5 |
| 119 | 1 | Arm | | | | 1 | 1 | SM3/16 (32) ×3.5 |
| 120 | H4907K8001 | 1 | | | | 1 | 1 | |
| 120 | H4906K8001 | | | | | I | 1 | |
| 122 | H4905K8001 | | | | | 1 | 1 | 16.75 |
| 123 | HA100H2080 | | | | | 2 | 2 | M5×7.5 |
| 124 | ì | Thread releasing lever | | | | 1 | 1 | |
| 125 | H4943K8001 | | | | | 1 | 1 | |
| 126 | H4951K8001 | [· · | | | | 1- | 1 | CM11/(4 (40) |
| 127 | H4954K8001 | 1 | | | | 1 | 1 | SM11/64 (40) |
| 128 | H4956K8001 | | | | | 2 | 2 | SM3/16 (28) |
| 129 | H4955K8001 | | } | | | 1 | 1 | SM1/8 (44) ×7 |
| 130 | (| Vibrating crank complete | | ļ. , | | 1 | 1 | |
| 131 | H4944K8001 | | | | | 1 | 1 | SM11/64 (40) ×5.5 |
| 132 | H4962K8001 | | • | | | 2 | 2 | SM11/64 (40) ×5 |
| 133 | HA708P0668 | | | | | 1 | 1 | SWI1704 (40) ^3 |
| 134 | HA113F0684 | · · | | | | 2 | 2 | SM15/64 (28) ×8.5 |
| 135 | | Bushing | | | | 1 | 1 | DIVITO (20) ^0.3 |
| 136 | H4909K8001 | [| | | | 1 | 1 | |
| 137 | H005001050 | | | ļ | | 1 | 1 | GB/T97.1 5 |
| 138 | H4911K8001 | | | | | 2 | 2 | |
| 139 | H4936K8001 | | | | | 2 | 2 | M5×8.5 |
| 140 | į . | Ball joint (left) | - | } | | 1 | 1 | |
| 141 | H4940K8001 | ! | 1 | } | | 1 | | M5 |
| I42 | H4939K8001 | | | 1 | | 1 | 1 | - |

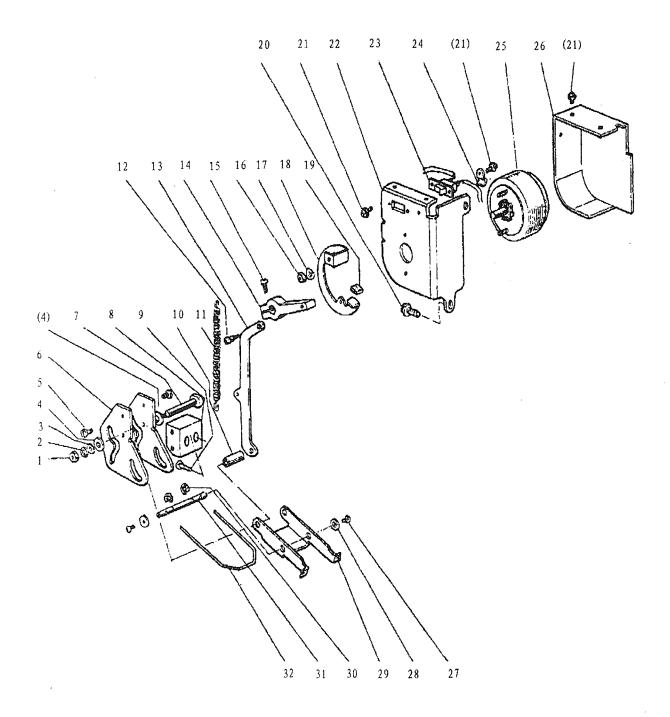
I.KNIFE MECHANISM (二)

| Fig. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------|------------|--------------------|-----------|-----------|-----------|-------------|-------------|-------------------|
| 143 | H003002050 | Nut (right) | | | | 1 | ŀ | GB/T6170 M5 |
| 144 | H4964K8001 | Shaft | | | | 1 | 1 | |
| I45 | H4963K8001 | Shaft | | | | 1 | 1 | |
| 146 | H4985K8001 | Screw | | | | 1 | 1 | |
| 147 | H3405D0663 | Ball joint (right) | | | | 1 | 1 | |
| 148 | H3205G1114 | Screw | | | | 2 | 2 | M4×4 |
| 149 | H4934K8001 | Cam | | | | 1 | 1 | |
| 150 | HA710E0692 | Screw | | | | 2 | 2 | SM1/4 (40) ×9.5 |
| 151 | H4932K8001 | Cam | | | | 1 | 1 | |
| 152 | H4986K8001 | Spring | | | | 1 | 1 | |
| 153 | H411050160 | Screw | | | | 2 | 2 | GB/T819.1 M5×16 |
| 154 | H2012N0652 | Screw | | | | 1 | 1 | SM1/4 (24) ×16 |
| 155 | H4983K8001 | Screw | | | | 1 | 1 | SM1/4 (24) ×13 |
| 156 | H4967K8001 | Screw | | | | 3 | 3 | SM11/64 (40) ×7 |
| 157 | H4966K8001 | Stopper | | | | 1 | l | |
| 158 | H4981K8001 | Holder | | | | 1 | 1 | |
| 159 | H003008050 | Nut | | | | 2 | 2 | GB/T6172.1 M5 |
| 160 | H4977K8001 | Mounting plate | | | | 1 | 1 | |
| 161 | H4980K8001 | Holder | | | | 2 | 2 | |
| 162 | H4965K8001 | Set plate | | | | 1 | 1 | |
| 163 | H3700E2080 | Pin type | | | | 1 | 1 | |
| 164 | H4969K8001 | Screw | | | | 1 | 1 | SM11/64 (40) ×8.5 |
| 165 | H4970K8001 | Screw | | | | 1 | 1 | SM11/64 (40) ×5 |
| 166 | H4971K8001 | Lever | | | | 1 | 1 | |
| I67 | H4972K8001 | Screw | | | | 1 | 1 | SM11/64(40)×3.5 |
| 168 | H4973K8001 | Pin | | | | 1 | 1 | |
| 169 | H4974K8001 | Arm | | | | 1 | 1 | |
| 170 | HA111G0683 | Screw | | | | 1 | 1 | SM11/64 (40) ×12 |
| 171 | HA7111N304 | Nut | | | | 1 | 1 | SM11/64 (40) |
| I72 - | H4979K8004 | Solenoid complete | | | | 1 | 1 | |
| | | | | | | | | |



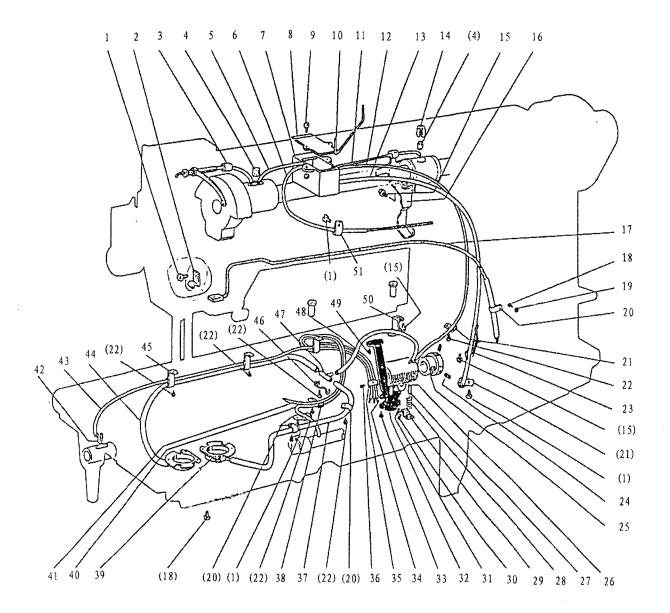
J.TOUCH BACK AND DETECTOR MECHANISM

| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|--------------------------|-------------------------------|-----------|-----------|-----------|-------------|-------------|-------------------|
| J01 | H4918L8001 | Screw | | | | 2 | 2 | M5 |
| J02 | H4905L7101 | Touch switch (complete) | | | | 1 | 1 | |
| J03 | HA700Q0030 | Cord holder | | | | 3 | 3 | (|
| J04 | H4922L8001 | Cord holder | | | | 1 | 1 | |
| J05 | HA703R0065 | Detector bracket (complete) | | | | 1 | 1 | |
| J06 | H3205J0662 | Ball bearing | | | | 1 | 1 | NTN 6204Z |
| J07 | H007009300 | Retaining ring C-type | | | | 1 | 1 | GB/T894.1 30 |
| J08 | HA700R0060 | Washer | | | | 1 | 1 | |
| J09 | HA700R0050 | Support spring | | | | 1 | 1 | |
| J10 | HA700R0040 | Spacer B | | | | 1 | 1 | |
| J11 | H4928L8001 | Speed command disk F20 (up) | | | | 1 | 1 | |
| J12 | HA700R0030 | | | | | 2 | 2 | |
| J13 | L | Speed command disk F11 (down) | | | | 1 | 1 | · |
| J14 | l I | Pulley (complete) | | | | 1 | 1 | |
| J15 | HA110D0672 | | | | | 1 | 1 | SM15/64 (28) ×12 |
| J16 | HA703R0067 | , | | | | 1 | 1 | |
| J17 | HA3411D308 | | | | | 1 | 1 | SM15/64 (28) ×7 |
| J18 | | Lever (complete) | | | | 1 | 1 | |
| J19 | HA113F0684 | | | | | 1 | 1 | SM15/64 (28) ×7.5 |
| J20 | H4937L8001 | | | | | 1 | 1 | SM15/64 (28) ×6 |
| J21 | H4938L8001 | | | | | 1 | 1 | |
| J22 | H4939L8001 | | | | | 1 | 1 | |
| J23 | H4940L8001 | | · | , | | 2 | 2 | |
| J24 | H4941L8001 | | | | | 2 | 2 | SM15/64 (28) ×14 |
| J25 | l : | Solenold (complete) | | | | 1 | 1 | |
| J26 | 1 : | Blot | | | | 2 | 2 | GB/T5781 M8×12 |
| J27 | H6904K8001 | - | | | , | 1 | 1 | CD /To2 (|
| J28 | | Spring washer | | | | 2 | 2 | GB/T93 6 |
| J29 J30 | H003002060 H4948L8001 | ' | | | | 2 | 2 | GB/T6170 M6 |
| J31 | H4949L8001 | | | | | 1 | 1 | CM15/CA (20)12 |
| J31 | H4949L8001 H4950L8001 | | | | | 1 | 1 | SM15/64 (28) ×13 |
| J33 | H4942L8001 | | | | | 1 | 1 | SM11/64 (40) |
| J34 | HA300C2030 | | | | | 2 | 2 | SM11/64 (40) ×8 |
| | 111130002030 | Sciew. | | | | 2 | _ | 31/11/04 (40) ^8 |
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K.WIPER MECHANISM

| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|------------|----------------------|-----------|-----------|-----------|-------------|-------------|------------------|
| K01 | H003002030 | Nut | | | | 1 | | GB/T6170 M3 |
| K02 | H005009030 | Spring washer | | | | 1 | | GB/T859 3 |
| K03 | H005006030 | Washer | | | | 1 | | GB/T96 3 |
| K04 | H005004040 | Washer | | | | 2 | | GB/T848 4 |
| K05 | HA300C2030 | Screw | | | | 4 | | SM11/64(40)×7 |
| K06 | H6909L8001 | Cam plate (complete) | | | | 2 . | | |
| K07 | H6910L8001 | Shaft | | | | 1 | | |
| K08 | H6911L8001 | Wiper stand | | | | 1 | | |
| K09 | H6912L8001 | Screw | | | | 2 | | SM11/64(40)×20 |
| K10 | H6913L8001 | Collar | | | | 1 | | |
| K11 | H6914L8001 | Spring | | | | 1 | | |
| K12 | H6915L8001 | Screw | | | | 1 | | SM9/64(40)×7.4 |
| K13 | H6916L8001 | Link | | | | 1 . | | |
| K14 | H6917L8001 | Wiper crank | | | | 1 | | |
| K15 | HA111G0683 | Screw | | | | 1 | | SM11/64(40)×11.4 |
| K16 | H003002040 | Nut | | | | 2 | | GB/T6170 M4 |
| K17 | H005009040 | Spring washer | | | | 2 | | GB/T859 4 |
| K18 | H6921L8001 | Stopper plate | | | | 1 | | |
| K19 | H6922L8001 | Cushion | | | | 1 | | black |
| K20 | HA100E2150 | Screw | | | | 2 | | SM11/64(40)×8.2 |
| K21 | H409030060 | Screw | | | , | 6 | | GB/T818 M3×6 |
| K22 | H6924L8001 | Solenold plate | | | | 1 | | |
| K23 | HA708P0665 | Switch | | | | 1 | | , |
| K24 | HA700P0060 | Cord holder | | | | 1 | | |
| K25 | H6928L8001 | Rotary solenold | | | | 1 | | |
| K26 | H6929L8001 | Cover | | | | 1 | | |
| K27 | HA104G0654 | Screw | | | | 2 | | SM1/8(44)×6 |
| K28 | H6932L8001 | Washer | | | | 2 | | |
| K29 | H6930L8001 | Wiper silde plate | | | | 1 | | |
| K30 | H007013040 | E-type stop ring | | | | 2 | | GB/T896 4 |
| K31 | H6927L8001 | Wiper shaft | | | | 1 | | |
| K32 | H6931L8001 | Wiper | | | | 1 | | |
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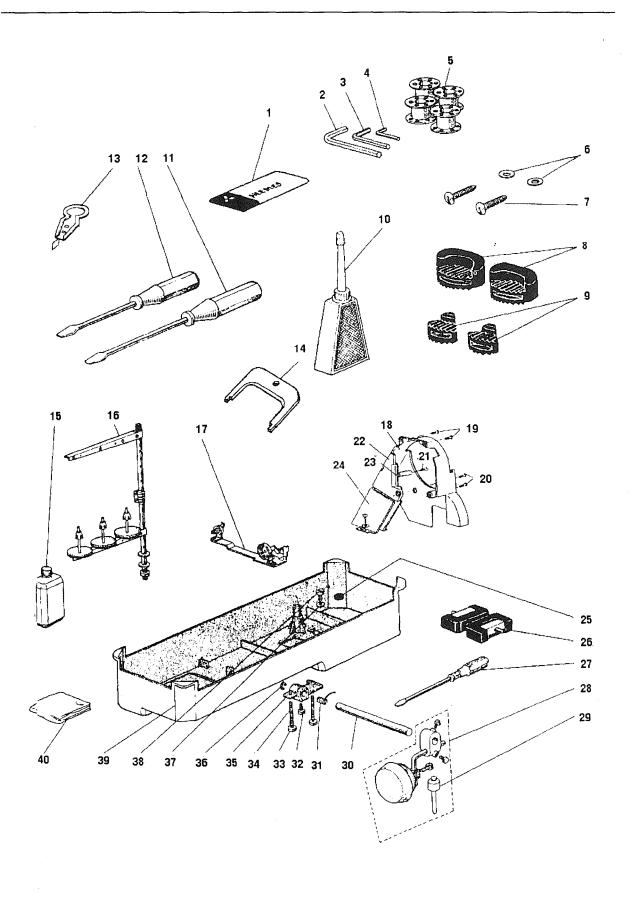


L.OIL LUBRICATION MECHANISM

| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|------------|--------------------------|-----------|-----------|-----------|-------------|-------------|-----------------|
| L01 | HA300C2030 | Screw | 3 | 3 | 3 | 3 | 3 | SM9/64(40)×8 |
| L02 | H3200K0050 | Holder | 1 | 1 | 1 | 1 | 1 | |
| L03 | H3210K0672 | Pipe | 1 | 1 | 1 | 1 | 1 | |
| L04 | H32175B304 | Felt | 2 | 2 | 1 | 2 | 1 | |
| L05 | H3204K0032 | Oil pipe & wick complete | 1 | 1 | 1 | 1 | 1 | |
| L06 | H3204K0043 | Oil pipe & wick complete | 1 | 1 | 1 | 1 | 1 | |
| L07 | H3204K0011 | Oil tank complete | 1 | 1 | 1 | 1 | 1 | t . |
| L08 | H3204K0659 | Gasket | 1 | 1 | 1 | 1 | 1 | |
| L09 | H411040160 | Screw | 2 | 2 | 2 | 2 | 2 | GB/T819.1 M4×16 |
| L10 | H3204K0658 | Holder | 1 | 1 | 1 | 1 | 1 | |
| LII | H3204K0074 | Oil pipe & wick complete | 1 | 1 | | 1 | | |
| L12 | H3204K0655 | Pipe | 1 | 1 | 1 | 1 | 1 | |
| L13 | H3204K0656 | Pipe | 1 | 1 | 1 | l | 1 | |
| L14 | H3200K0230 | Pipe | 1 | 1 | | 1 | | |
| L15 | HA300B2170 | Screw | 3 | 3 | 3 | 3 | 3 | SM11/64(40)×9 |
| L16 | H3200K0040 | Holder | 1 | 1 | 1 | 1 | 1 | |
| L17 | H3209K0066 | Pipe & felt complete | 1 | 1 | 1 | 1 | 1 | |
| L18 | HA7311CC06 | Screw | 7 | 7 | 7 | 7 | 7 | SM9/64(40)×6.5 |
| L19 | H005008030 | Spring washer | 1 | 1 | 1 | 1 | 1 | GB/T93 3 |
| L20 | H32311D606 | Holder | 4 | 4 | 4 | 4 | 4 | |
| L21 | H3200K0190 | Holder | 2 | 2 | 2 | 2 | 2 | |
| L22 | HA300B2130 | Screw | 7 | 7 | 7 | 6 | 6 | SM11/64(40)×5.5 |
| L23 | H3200K0200 | Holder | 1 | 1 | 1 | 1 | 1 | |
| L24 | H3230K0751 | Screw | 2 | 2 | 2 | 2 | 2 | SM11/64(40)×10 |
| L25 | H3230K0752 | Bushing | 1 | 1 | 1 | 1 | 1 | , . |
| L26 | H3215K0696 | Pipe | 1 | 1 | 1 | 1 | 1 | |
| L27 | H1100I2070 | Pin | 1 | 1 | 1 | 1 | 1 | |
| L28 | H1100I2090 | Spring | 1 | 1 | 1 | 1 | I | |
| L29 | H1100I2110 | Spring holder | 1 | 1 | 1 | 1 | ı | |
| L30 | H3204D6510 | Screw | 1 | 1 | 1 | 1 | 1 | SM1/8(44)×4.8 |
| L31 | H3215K0693 | Screw | 1 | 1 | 1 | 1 | 1 | SM9/64 (40) ×5 |
| L32 | H3215K0692 | Filter | 1 | 1 | 1 | 1 | 1 | |
| L33 | H3215K0694 | Screw | 1 | 1 | I | 1 | 1 | SM9/64(40)×7 |
| L34 | H3215K4011 | Base plate complete | 1 | 1 | 1 | 1 | 1 | , , |
| L35 | H3215K0695 | Holder | 1 | 1 | 1 | 1 | 1 | |
| L36 | H3215K0693 | Screw | 1 | 1 | 1 | 1 | 1 | SM9/64(40)×4.5 |
| L37 | H3210K0672 | Pipe | 1 | 1 | 1 | 1 | 1 | |
| L38 | H3200K0170 | • | 1 | 1 | 1 | 1 | 1 | |
| L39 | | Cover complete | 2 | 2 | 2 | 2 | 2 | |
| L40 | | Oil pipe & wick complete | 1 | 1 | 1 | 1 | 1 | |
| L41 | | Oil pipe & wick complete | 1 | 1 | 1 | 1 | 1 | |
| L42 | H3200K0180 | • | 3 | 3 | 3 | 3 | 3 | |
| L43 | | Oil pipe & wick complete | 1 | 1 | 1 | 1 | 1 | |

L.OIL LUBRICATION MECHANISM

| Fig. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | · Remarks |
|------|------------|--------------------|-----------|-----------|-----------|-------------|-------------|---------------|
| L44 | H3204K0655 | Pipe | 1 | 1 | 1 | 1 | 1 | |
| L45 | H3200K0160 | Holder | 2 | 2 | 2 | 2 | 2 | |
| L46 | H3210K0675 | Holder | 1 | 1 | 1 | 1 | 1 - | |
| L47 | H3210K0671 | Oil pipe connector | 1 | 1 | 1 | 1 | 1 | |
| L48 | HW48887-18 | Pipe | 1 | 1 | 1 | 1 | 1 | |
| L49 | HA100E2150 | Screw | 2 | 2 | 2 | 2 | 2 | SM9/64(40)×10 |
| L50 | H3200K0250 | Holding plate | 1 | 1 | 1 | 1 | 1 | |
| L51 | H3200K0030 | Holder | 1 | 1 | 1 | 1 | 1 | |
| | | | | | | | | |



M.ACCESSORIES

| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|------------|--|-----------|-----------|-----------|-------------|--------------|----------------|
| M01 | H3204D0658 | Needle | 6 | | | 6 | | DP×5 #14 |
| M01 | H3300L0020 | Needle | | 6 | 6 | } | 6 | DP×5-#21 |
| M02 | H3208L8001 | Socket wrench 2.5 | | | | 1 | 1 | |
| M03 | H3209L8001 | Socket wrench 3 | | | | 1 | 1 | |
| M04 | H4905N8001 | Socket wrench 2 | | | | 1 | 1 | |
| M05 | H2400I2020 | Bobbin | 4 | 4 | | | 1 | |
| M05 | H330610067 | Bobbin | | | 4 | | | |
| M05 | H6910E8001 | Bobbin | | | | 4 | į | |
| M05 | ' | Bobbin | | | | | 4 | |
| M06 | HA300J2230 | Washer | 4 | 4 | 4 | 4 | 4 | |
| M07 | H801045200 | Screw | 4 | 4 | 4 | 4 | 4 | GB/T99 4.5×20 |
| M08 | H3200L0020 | Vibration preventing rubber | 2 | 2 | 2 | 2 | 2 | |
| M09 | H3200L0030 | Vibration preventing rubber | 2 | 2 | 2 | 2 | 2 | |
| M10 | HA100J2110 | Oiler | 1 | 1 | 1 | 1 | 1 | |
| MII | HA300J2200 | Screw driver (middle) | 1 | 1 | 1 , | 1 | 1 | |
| M12 | HA300J2210 | Screw driver (small) | 1 | 1 | 1 | 1 | 1 | |
| M13 | H3207L0651 | Thread a needle kit | 1 | 1 | 1 | 1 | 1 | |
| M14 | HA704S0654 | Adjusting plate for speed command disc | | | , | 1 | 1 | - |
| M15 | H3200L0130 | Oil can | 1 | 1 | 1 | 1 | 1 | |
| M16 | H3200L0120 | Cotton Stand - | 1 | 1 | 1 | 1 |] 1 | |
| M17 | H3200L0190 | Bobbin winder | 1 | | | | <u> </u> | black |
| MI7 | HA109J0068 | Bobbin winder | | 1 | | | | black |
| M17 | H3300L0040 | Bobbin winder | | | 1 | | | black |
| M17 | HA706S0067 | Bobbin winder | | | | 1 | I | gray |
| M18 | H2008O0068 | Belt cover 1 | 1 | 1 | 1 | 1 | 1 | |
| M19 | HA300B2170 | Screw | 2 | 2 | 2 | 2 | 2 | SM11/64(40)×8 |
| M20 | HA300J2280 | Screw | 2 | 2 | 2 | 2 | 2 | SM15/64(28)×8 |
| M21 | HA300J2250 | Screw | 1 | 1 | 1 | 1 | 1 | SM4×8 |
| M22 | H2008O0070 | Belt cover 2 | 1 | 1 | 1 | | | black |
| M22 | H2008O0070 | Belt cover 2 | | | , | 1 | 1 | gray |
| M23 | H003008040 | Nut | 1 | 1 | 1 | 1 | 1 | GB/T6172.1 М4 |
| M24 | HA305J0666 | Belt cover 3 | 1 | 1 | 1 | | | black |
| M24 | HA305J0666 | Belt cover 3 | | | | 1 | 1 | gray |
| M25 | HA100J2120 | Magnet block for reservoir | 1 | l | 1 | 1 | 1 | |
| M26 | HA307J0067 | Hinge complete | 2 | 2 | 2 | 2 | 2 | |
| M27 | HA300J2070 | Screw driver (large) | 1 | 1 | 1 | 1 | 1 | |
| M28 | H3214L0067 | Small parts | 1 | 1 | 1 | 1 | 1 | |
| M29 | H3214L2011 | Knee lifter pin | 1 | 1 | ı | Ī | 1 | |
| M30 | H3213L0662 | Knee lifter shaft | 1 | 1 | 1 | 1 | 1 | |
| M31 | HA104J0657 | Spring | 1 | 1 | 1 | 1 | 1 | |
| M32 | HA106J0664 | Bolt | 1 | 1 | 1 | 1 | 1 | |
| M33 | HA104J6510 | Nut | 2 | 2 | 2 | 2 | 2 | SM15/64 (28) |
| M34 | HA104J0659 | Screw | 2 | 2 | 2 | 2 | 2 | SM15/64(28)×27 |

M.ACCESSORIES

| Fig. No. | Part No. | Description | GC20518-M | GC20518-H | GC20518-B | GC20518-M-D | GC20518-B-D | Remarks |
|-------------|------------|-------------------|-----------|-----------|-----------|-------------|-------------|------------------|
| M35 | H3213L0664 | Knee lifter crank | 1 | 1 | 1 | 1 | 1 | |
| M36 | | E-type stop ring | 1 | 1 | 1 | 1 | 1 | GB/T896 9 |
| M37 | | Washer | 1 | 1 | 1 | 1 | 1 | |
| M38 | | Screw | 1 | 1 | 1 | 1 | | SM5/16(28)×8.2 |
| M39 | | Oil reservoir | 1 | 1 | 1 | 1 | 1 | 5.013/10(20) 0.2 |
| M40 | HA100J2180 | 1 | 1 | 1 | 1 | 1 | 1 | |
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Gauge Parts List

| | (MA) | | | | | |
|-----------------|--------------|-------------|--------------|--|-----------------|-----------------|
| | | <u>U</u> | | 60 | | |
| Gauge Size | Needle Plate | Feed Dog | Presser Foot | Needle Clamp | Slide Plate (L) | Slide Plate (R) |
| GC20518-M | | | | and the second of the second o | | |
| 3/32(2.4mm) | H3200B2210 | H3200G2130 | H3214E0065 | H3200D2040 | H3200B2140 | H3200B2150 |
| 1/8 (3. 2mm) | H3200B2220 | H3200G2140 | H3215E0066 | H3200D2050 | H3200B2140 | H3200B2150 |
| 5/32(4mm) | H3200B2230 | H3200G2150 | H3216E0067 | H3200D2060 | H3200B2140 | H3200B2150 |
| 3/16(4.9mm) | H3200B2240 | H3200G2170 | H3218E0069 | H3200D2070 | H3200B2140 | H3200B2150 |
| 7/32(5.6mm) | H3200B2250 | H3200G2160 | H3217E0068 | H3200D2080 | H3200B2140 | H3200B2150 |
| 1/4(6.4mm) | H3200B2110 | H32211G305 | H3231E0081 | H3204D0032 | H3200B2140 | H3200B2150 |
| 5/16(8mm) | H3200B2260 | H3200G2180 | H3219E0070 | H3200D2090 | H3200B2350 | H3200B2150 |
| 3/8(9.5mm) | H3200B2270 | H3200G2190 | H3220E0071 | H3200D2100 | H3200B2350 | H3200B2150 |
| 1/2(12.7mm) | H3200B2280 | H3200G2060 | H3221E0072 | H3200D2110 | H3200B2360 | H3200B2150 |
| 5/8(16mm) | H3200B2290 | H3200G2070 | H3222E0074 | H3200D2120 | H3200B2360 | H3200B2150 |
| 3/4(19mm) | H3200B2300 | H3200G2080 | H3223E0075 | H3200D2130 | H3200B2370 | H3200B2410 |
| 1 (25. 4mm) | H3200B2310 | H3200G2090 | H3224E0076 | H3200D2140 | H3200B2380 | H3200B2410 |
| 1 1/8(28.5mm) | H3200B2320 | H3200G2100 | H3225E0077 | H3200D2150 | H3200B2390 | H3200B2410 |
| 1 1/4(31.8mm) | H3200B2330 | H3200G2110 | H3226E0078 | H3200D2160 | H3200B2390 | H3200B2410 |
| 1 1/2(38.1mm) | H3200B2340 | H3200G2120 | H3227E0080 | H3200D2170 | H3200B2400 | H3200B2410 |
| GC20518-H 、GC | 20518-B | | 9 | | | <u> </u> |
| 3/32(2.4mm) | H3300B2130 | H3200G2130 | H3310E0071 | H3200D2040 | H3200B2140 | H3200B2150 |
| 1/8 (3. 2mm) | H3300B2140 | H3300G2100 | H3307E0068 | H3200D2050 | H3200B2140 | H3200B2150 |
| 5/32(4mm) | H3300B2150 | H3300G2110 | H3311E0072 | H3200D2060 | H3200B2140 | H3200B2150 |
| 3/16(4.9mm) | H3300B2160 | H3300G2120 | H3305E0066 | H3200D2070 | H3200B2140 | H3200B2150 |
| 7/32 (5.6mm) | H3300B2170 | H3300G2130 | H3312E0074 | H3200D2080 | H3200B2140 | H3200B2150 |
| 1/4 (6. 4mm) | H3300B2020 | H3304G0011 | H3304E0065 | H3204D0032 | H3200B2140 | H3200B2150 |
| 5/16(8mm) | H3300B2180 | H3300G2140 | H3306E0067 | H3200D2090 | H3200B2350 | H3200B2150 |
| 3/8 (9.5mm) | H3300B2190 | H3300G2150 | H3308E0069 | H3200D2100 | H3200B2350 | H3200B2150 |
| 1/2(12.7mm) | H3300B2060 | H3300G2030 | H3309E0070 | H3200D2110 | H3200B2360 | H3200B2150 |
| 5/8(16mm) | H3300B2070 | H3300G2040 | H3313E0075 | H3200D2120 | H3200B2360 | H3200B2150 |
| 3/4(19mm) | H3300B2080 | H3300G2050 | H3314E0076 | H3200D2130 | H3200B2370 | H3200B2410 |
| 1 (25. 4mm) | H3300B2090 | H3300G2060. | H3315E0077 | H3200D2140 | H3200B2380 | H3200B2410 |
| 1 1/8(28.5mm) | H3300B2100 | H3300G2070 | H3316E0078 | H3200D2150 | H3200B2390 | H3200B2410 |
| 1 1/4(31.8mm) | H3300B2110 | H3300G2080 | H3317E0080 | H3200D2160 | H3200B2390 | H3200B2410 |
| 1 1/2 (38. 1mm) | H3300B2120 | H3300G2090 | H3318E0081 | H3200D2170 | H3200B2400 | H3200B2410 |

Gauge Parts List

| | C. B. | | | OF THE O | | |
|----------------|--------------|------------|--------------|--------------|-------------------|-----------------|
| | | | | | No. of the second | |
| Gauge Size | Needle Plate | Feed Dog | Presser Foot | Needle Clamp | Slide Plate (L) | Slide Plate (R) |
| GC20518-M-D | | | | | | |
| 3/32 (2. 4mm) | H6909B8001 | H6909G8001 | H3214E0065 | H3200D2040 | H4732B8001 | H4733B8001 |
| 1/8 (3. 2mm) | H6910B8001 | H6910G8001 | H3215E0066 | H3200D2050 | H4732B8001 | H4733B8001 |
| 5/32 (4mm) | H6911B8001 | H6911G8001 | H3216E0067 | H3200D2060 | H4732B8001 | H4733B8001 |
| 3/16(4.9mm) | H6906B8001 | H6912G8001 | H3218E0069 | H3200D2070 | H4732B8001 | H4733B8001 |
| 7/32 (5.6mm) | H6913B8001 | H6913G8001 | H3217E0068 | H3200D2080 | H4732B8001 | H4733B8001 |
| 1/4 (6. 4mm) | H6908B8001 | H6904G8001 | H3231E0081 | H3204D0032 | H4732B8001 | H4733B8001 |
| 5/16(8mm) | H6914B8001 | H6914G8001 | H3219E0070 | H3200D2090 | H4746B8001 | H4733B8001 |
| 3/8(9.5mm) | H6915B8001 | H6915G8001 | H3220E0071 | H3200D2100 | H4746B8001 | H4733B8001 |
| 1/2(12.7mm) | H6916B8001 | H6916G8001 | H3221E0072 | H3200D2110 | H4747B8001 | H4733B8001 |
| 5/8(16mm) | H6917B8001 | H6917G8001 | H3222E0074 | H3200D2120 | H4747B8001 | H4733B8001 |
| 3/4 (19mm) | H6918B8001 | H6918G8001 | H3223E0075 | H3200D2130 | H4748B8001 | H4753B8001 |
| 1 (25. 4mm) | H6919B8001 | H6919G8001 | H3224E0076 | H3200D2140 | H4749B8001 | H4753B8001 |
| 1 1/8(28.5mm) | H6920B8001 | H6920G8001 | H3225E0077 | H3200D2150 | H4752B8001 | H4753B8001 |
| 1 1/4(31.8mm) | H6921B8001 | H6921G8001 | H3226E0078 | H3200D2160 | H4752B8001 | H4753B8001 |
| 1 1/2 (38.1mm) | H6922B8001 | H6922G8001 | H3227E0080 | H3200D2170 | H6923B8001 | H4753B8001 |
| GC20518-B-D | | | | | | |
| 1/8(3.2mm) | H9208B8001 | H9206G8001 | H3307E0068 | H3200D2050 | H4732B8001 | H4733B8001 |
| 5/32 (4mm) | H9209B8001 | H9207G8001 | H3311E0072 | H3200D2060 | H4732B8001 | H4733B8001 |
| 3/16(4.9mm) | H9206B8001 | H9208G8001 | H3305E0066 | H3200D2070 | H4732B8001 | H4733B8001 |
| 7/32 (5.6mm) | H9211B8001 | H9209G8001 | H3312E0074 | H3200D2080 | H4732B8001 | H4733B8001 |
| 1/4 (6. 4mm) | H9204B8001 | H9204G8001 | H3304E0065 | H3204D0032 | H4732B8001 | H4733B8001 |
| 5/16(8mm) | H9212B8001 | H9210G8001 | H3306E0067 | H3200D2090 | H4746B8001 | H4733B8001 |
| 3/8(9.5mm) | H9213B8001 | H9211G8001 | H3308E0069 | H3200D2100 | H4746B8001 | H4733B8001 |
| 1/2(12.7mm) | H9214B8001 | H9212G8001 | H3309E0070 | H3200D2110 | . H4747B8001 | H4733B8001 |
| 5/8(16mm) | H9215B8001 | H9213G8001 | H3313E0075 | H3200D2120 | H4747B8001 | - H4733B8001 |
| 3/4(19mm) | H9216B8001 | H9214G8001 | H3314E0076 | H3200D2130 | H4748B8001 | H4753B8001 |
| 1 (25. 4mm) | H9217B8001 | H9215G8001 | H3315E0077 | H3200D2140 | H4749B8001 | H4753B8001 |
| 1 1/8(28.5mm) | H9218B8001 | H9216G8001 | H3316E0078 | H3200D2150 | H4752B8001 | H4753B8001 |
| 1 1/4(31.8mm) | H9219B8001 | H9217G8001 | H3317E0080 | H3200D2160 | H4752B8001 | H4753B8001 |
| 1 1/2(38.1mm) | H9220B8001 | H9218G8001 | H3318E0081 | H3200D2170 | H6923B8001 | H4753B8001 |

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The description covered in this manual is subject to change for improvement of the commodity without notice

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